

CUTTING TOOLS FOR

TURNING



C

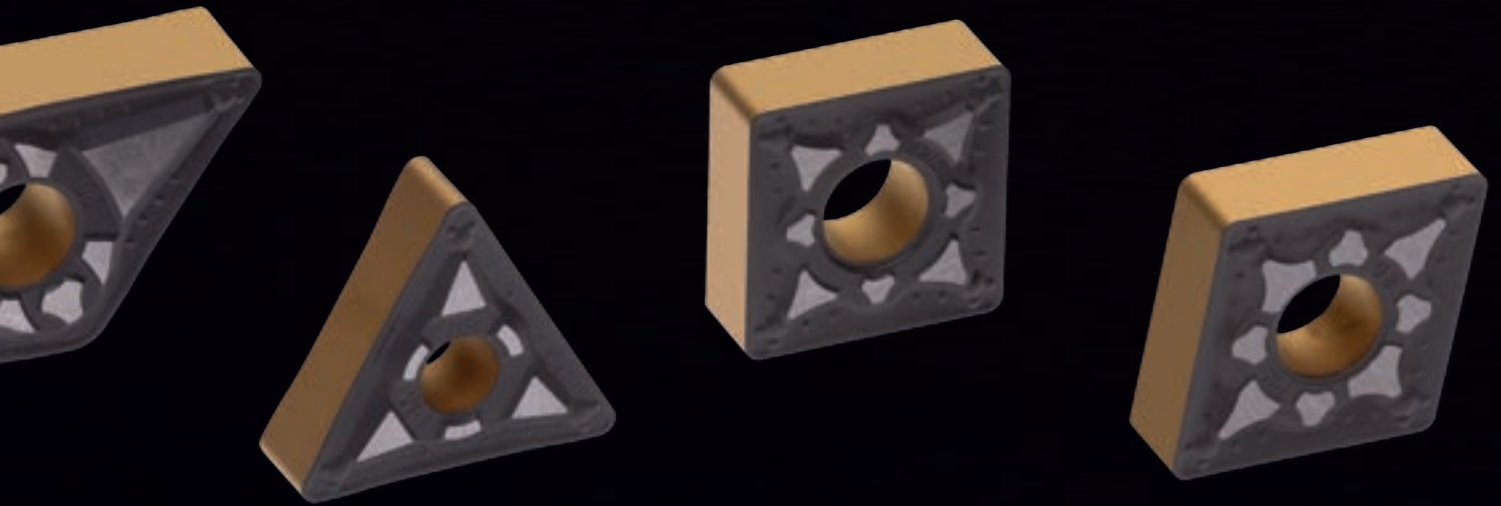
C - TURNING

- C - 474 | **NEW** Phoenix Shield
- C - 476 | DOMX® HRSA turning
- C - 482 | **NEW** All-in-one Multicut
- C - 488 | Turning overview
- C - 490 | ISO turning inserts code key
- C - 500 | Inserts overview



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C - 542 | Positive turning inserts
C - 576 | PCBN inserts
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Why Phoenix Shield

Palbit's Phoenix Shield series offers you cutting edge performance across the board in every steel turning operation.

PH2G grade series is an innovative combination of a highly dense and hard nanostructured coating base material, including new Al_2O_3 layer with improved wear resistance which provides superior performance during high-speed turning operations.

This new grade series features nanolayer optimization and cutting edge stability, achieved with pre- and post-coating process technologies, designed to improve adhesion between layers and fine-tune tensile stress within coating.

Despite the high wear resistance, the new grades also display enhanced performance on chipping prevention throughout instabilities. This greatly boosts strength, wear and heat resistance as well as tool life when compared to the previous generation coating.

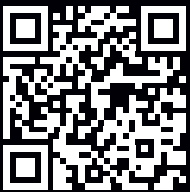
The ultimate goal is machining process optimization, in order to address market demand for greater efficiency and higher cutting speeds. In addition, the increased use of high-strength materials in automotive components also demands for cutting tools with greater wear resistance.

Longer lasting and more reliable, the new Phoenix Shield series are sure to give you a step up in productivity and process security.

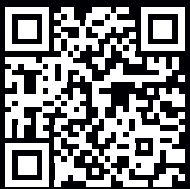
Unleash the power of your turning operations with **Phoenix**



WEBSITE
PAGE



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TECHNICAL
VIDEO



HRSA TURNING

DOMX



Designed specifically for the turning of HRSA, the DOMX insert offers exceptional performance when working with these difficult to machine materials. This novel geometry, combined with the advanced PHH coating, is sure to improve your productivity even in the toughest of challenges.

Desenvolvido especificamente para a maquinação de HRSA, a pastilha DOMX oferece um desempenho excepcional ao trabalhar com estes materiais de difícil maquinação. Esta geometria inovadora, combinada com o revestimento avançado PHH, certamente irá melhorar a sua produtividade mesmo nos desafios mais difíceis.

Diseñado específicamente para el torneado de HRSA, el plaquita DOMX ofrece un rendimiento excepcional al trabajar con estos materiales difíciles de mecanizar. Esta geometría novedosa, combinada con el avanzado recubrimiento PHH, seguramente mejorará su productividad incluso en los desafíos más difíciles.

DOMX 1506 > page 479

- > Available in size 15 and right or left

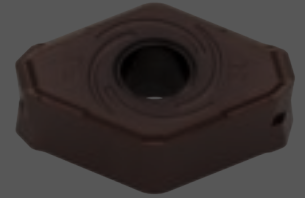
Disponível no tamanho 15 e para mãos direita ou esquerda | Disponible en talla 15 y para manos derecha o izquierda.

- > Available in PHH910 and PHH920

Disponível nos graus PHH910 e PHH920 | Disponible en las calidades PHH910 y PHH920

- > First choice for HRSA medium to rough turning

Primeira escolha para torneamento médio a desbaste de superligas | Primera elección para torneado medio a desbaste de superaleaciones



A - DDJN-DX1 45° > page 480

- > External toolholder with internal coolant

Suporte de torneamento externo com refrigeração interna | Porta-herramienta de torneado externo con refrigeración interna

- > With length from 125 mm to 170 mm

Com comprimento de 125 mm até 170 mm | Con longitud de 125 mm hasta 170 mm



PSC-DDJN-DX1 45° > page 481

- > PSC toolholder with internal coolant

Suporte PSC com refrigeração interna | Porta-herramienta PSC con refrigeración interna

- > With PSC size from 40 mm to 80 mm

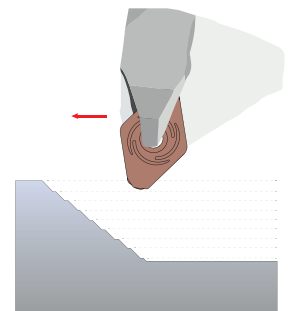
Com tamanho de PSC de 40 mm até 80 mm | Con talla de PSC de 40 mm hasta 80 mm



Designed especially for HRSA, the DOMX® combined with PHH technology, offers exceptional performance in exotic materials machining. When your material has high Ni or Co content DOMX® is the choice!

- 🔗 First choice for **HRSA** medium to rough turning;
- 🔗 **4 positive cutting edges on double sided negative insert.**

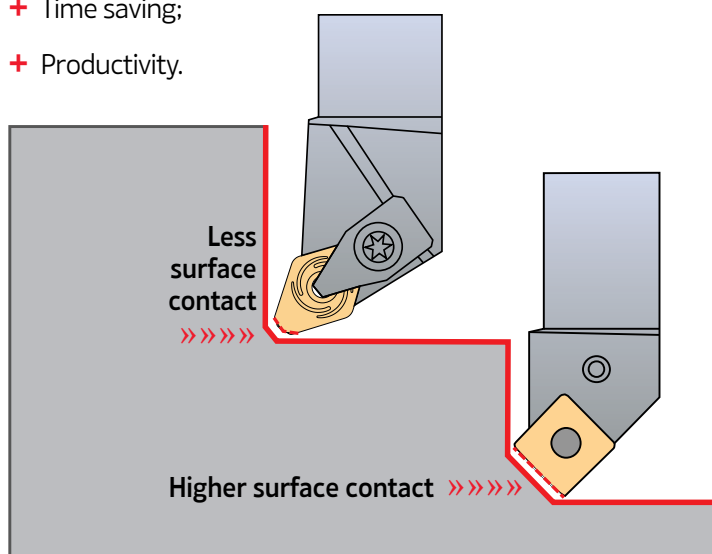
DOMX®



- 🔗 Machine at 45° with a 93° holder;
- 🔗 **Up to + 140% tool life improvement.**

DOMX VS SNMG

- Surface contact;
- Heating;
- Vibration;
- Cutting effort;
- + Time saving;
- + Productivity.



COMERICAL
VIDEO



TECHNICAL
VIDEO



APPLICATION
GUIDE

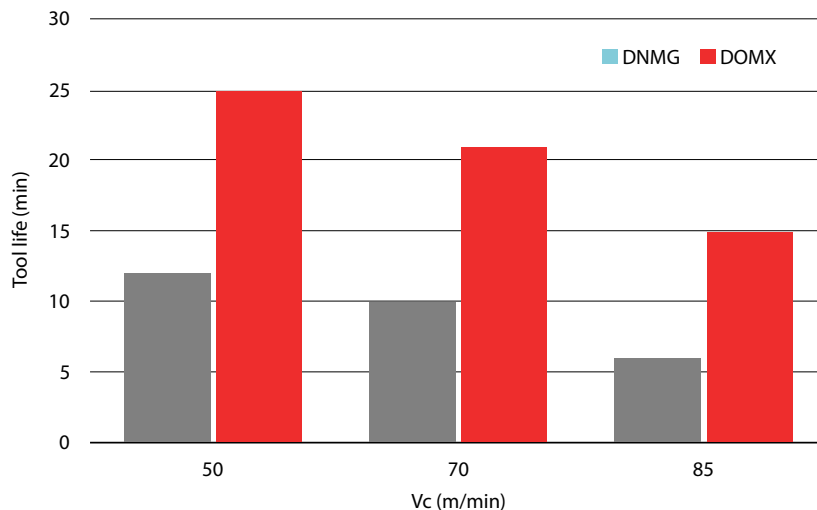
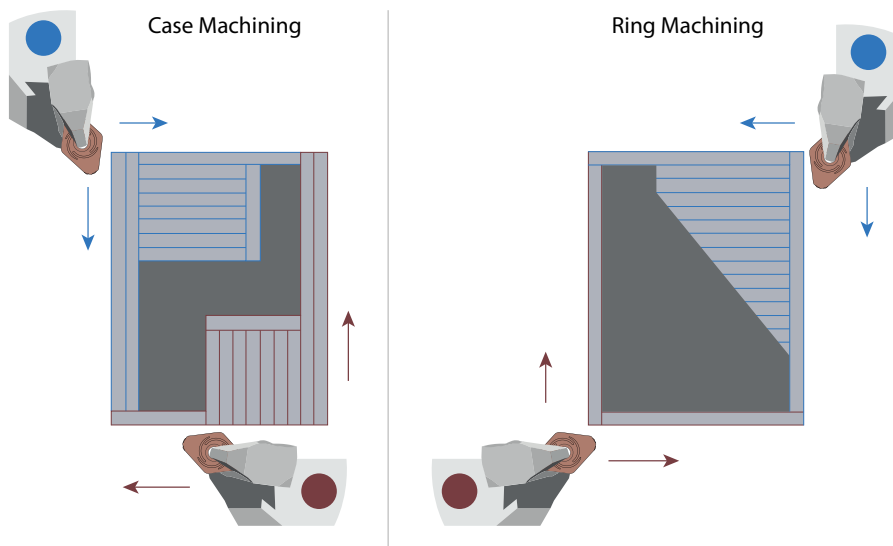


Inserts Pastilhas Plaquetas	⁽¹⁾ Geometry code	⁽²⁾ Grade code	S		Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					Technical drawing Desenho técnico Dibujo técnico	
			PVD		D	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN		MAX
			X6	Y3											
DOMX-GS 	1124595	DOMX 1506R1-GS			12,70	6,35	0,80	5,16	1,50	0,30	1,50	0,30	0,20	0,50	
DOMX-GS 	1124493	DOMX 1506L1-GS			12,70	6,35	0,80	5,16	1,50	0,30	1,50	0,30	0,20	0,50	

First choice | 1ª Escolha | 1ª Opción Stock Items | Itens de stock

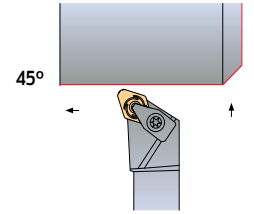
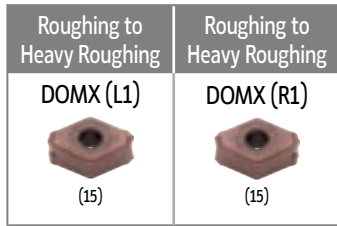
Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

DOMX® can be used in several types of turning operations, from facing, external/internal turning to case and ring machining as seen in the examples below:

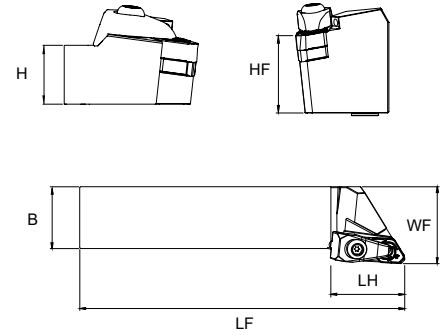
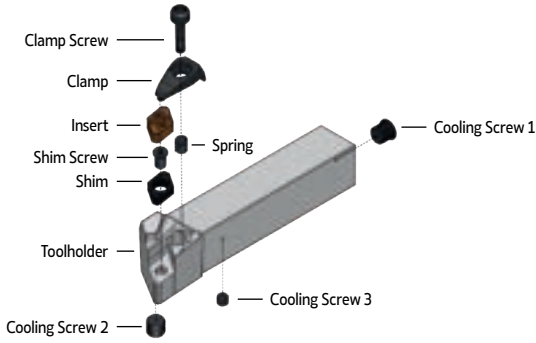


Tool life test - Inconel 625, AP 1,5mm, FN 0,15mm/r

(D) Dimple lock toolholders











Axial: -6,25°
Radial: -6,75°



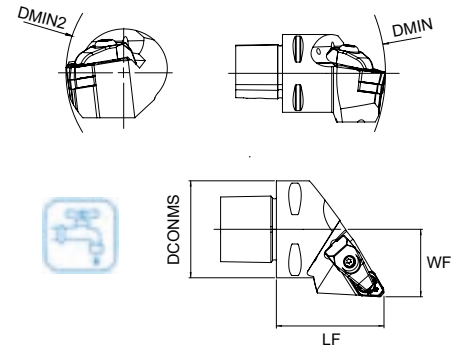
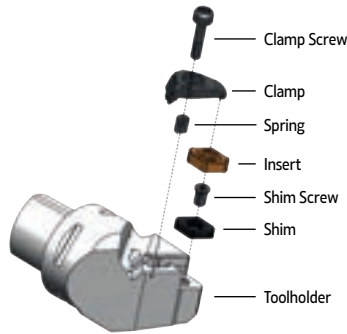
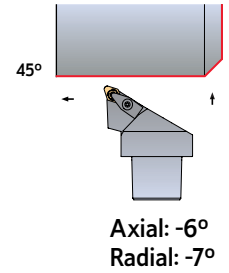
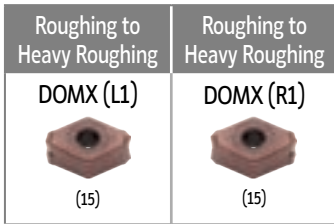
Order code Código	Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)					Insert Pastilha Inserto	WT	Stock
		HF = H	B	LF	LH	WF			
Right toolholder									
182000900	DDJN R 2020 K15-A-DX1	20	20	125	42	25	DOMX 1506R1	0,40	☼
182001000	DDJN R 2525 M15-A-DX1	25	25	150	42	32	DOMX 1506R1	0,75	☼
182001100	DDJN R 3232 P15-A-DX1	32	32	170	42	40	DOMX 1506R1	1,30	☼
Left toolholder									
182001200	DDJN L 2020 K15-A-DX1	20	20	125	42	25	DOMX 1506L1	0,40	☼
182001300	DDJN L 2525 M15-A-DX1	25	25	150	42	32	DOMX 1506L1	0,75	☼
182001400	DDJN L 3232 P15-A-DX1	32	32	170	42	40	DOMX 1506L1	1,30	☼

☼ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim R	Shim L	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Coolant Screw 1	Coolant Screw 2	Coolant Screw 3
DDJN R/L 2020 K15-A-DX1										
DDJN R/L 2525 M15-A-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DDJN R/L 3232 P15-A-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40	-	H1000875	-

(D) Dimple lock toolholders



Order code Código	Reference Referência Referencia	Dimensions (mm)					Insert Pastilha Inserto	WT	Stock
		DCONMS	DMIN	DMIN2	WF	LF			
Right toolholder									
182000100	PSC40-DDJN R 27055-15-DX1	40	110	145	27	55	DOMX 1506R1	0,42	☉
182000200	PSC50-DDJN R 35060-15-DX1	50	110	165	35	60	DOMX 1506R1	0,80	☉
182000300	PSC63-DDJN R 45065-15-DX1	63	110	190	45	65	DOMX 1506R1	1,10	☉
182000400	PSC80-DDJN R 55080-15-DX1	80	110	250	55	80	DOMX 1506R1	2,74	☉
Left toolholder									
182000500	PSC40-DDJN L 27055-15-DX1	40	110	145	27	55	DOMX 1506L1	0,42	☉
182000600	PSC50-DDJN L 35060-15-DX1	50	110	165	35	60	DOMX 1506L1	0,80	☉
182000700	PSC63-DDJN L 45065-15-DX1	63	110	190	45	65	DOMX 1506L1	1,10	☉
182000800	PSC80-DDJN L 55080-15-DX1	80	110	250	55	80	DOMX 1506L1	2,74	☉

☉ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim R	Shim L	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
PSC40-DDJNR/L27055-15-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40
PSC50-DDJNR/L35060-15-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40
PSC63-DDJNR/L45065-15-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40
PSC80-DDJNR/L55080-15-DX1	CD150503	CD150502	T06010000	M09513	GA07002	D0602900	SS40

NEW ALL-IN-ONE

MULTICUT



A multipurpose tool designed to enhance productivity and reduce setup times is capable of executing internal, external, and face turning, as well as drilling with either a stationary or rotating tool.

Uma ferramenta multifuncional projetada para aumentar a produtividade e reduzir os tempos de configuração. Capaz de executar torneamento interno, externo e facejamento, e até mesmo furação com uma ferramenta estacionária ou giratória.

Una herramienta multifuncional diseñada para aumentar la productividad y reducir los tiempos de configuración. Capaz de realizar torneado interno, externo y frontal, e incluso perforación con una herramienta estacionaria o giratoria.

NEW XMS-R > page 484

- > From DC 8mm to 32mm
De DC 8mm a 32mm | Desde DC 8mm hasta 32mm
- > With length of 2,25xDC
Com comprimento de 2,25xDC | Con longitud de 2,25 x DC



NEW XMS-L > page 484

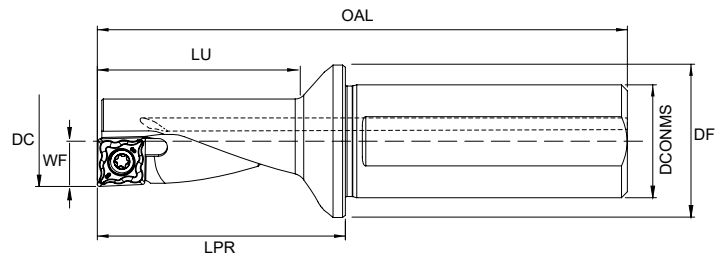
- > From DC 8mm to 32mm
De DC de 8mm a 32mm | Desde DC 8mm hasta 32mm
- > With length of 2,25xDC
Com comprimento de 2,25xDC | Con longitud de 2,25 x DC



NEW XCMT INSERTS > page 485

- > From sizes 04 to 17
De tamanhos de 04 a 17 | De tamaños de 04 a 17
- > Available in grades PH7920 and PHS225
Disponível nos graus PH7920 e PHS225 | Disponible en las calidades PH7920 y PHS225
- > Suitable for machining steels, stainless steels and HRSA
Adequado para maquinação de aços, aços inoxidáveis e HRSA | Adecuado para el mecanizado de aceros, aceros inoxidables y HRSA





*Right hand style show

Order code Código	Reference Referência Referencia	Hand		Dimensions Dimensões Dimensiones (mm)							WT	Insert	Stock
				DC	DCONMS	DF	WF	OAL	LU	LPR			
182021200	XMS-R 08010-2,25D	Right	1	8,0	10	15	4	60,0	18,0	22,0	0,027	XCMT 0401.. ER	
182021300	XMS-R 10012-2,25D	Right	1	10,0	12	18	5	69,5	22,5	27,5	0,046	XCMT 0502..	
182021400	XMS-R 12016-2,25D	Right	1	12,0	16	22	6	78,0	27,0	33,0	0,089	XCMT 0602..	
182021500	XMS-R 14016-2,25D	Right	1	14,0	16	22	7	83,5	31,5	38,5	0,094	XCMT 0703..	
182021600	XMS-R 16020-2,25D	Right	1	16,0	20	28	8	94,0	36,0	44,0	0,154	XCMT 0803..	
182021700	XMS-R 18025-2,25D	Right	1	18,0	25	36	9	109,5	40,5	53,5	0,293	XCMT 09T3..	
182021800	XMS-R 20025-2,25D	Right	1	20,0	25	36	10	111,0	45,0	55,0	0,311	XCMT 10T3..	
182021900	XMS-R 25032-2,25D	Right	1	25,0	32	44	12,5	129,0	56,5	69,0	0,563	XCMT 1304..	
182022000	XMS-R 32040-2,25D	Right	1	32,0	40	54	16	158,0	72,0	88,0	1,117	XCMT 1705..	
182022100	XMS-L 08010-2,25D	Left	1	8,0	10	15	4	60,0	18,0	22,0	0,027	XCMT 0401.. EL	
182022200	XMS-L 10012-2,25D	Left	1	10,0	12	18	5	69,5	22,5	27,5	0,046	XCMT 0502..	
182022300	XMS-L 12016-2,25D	Left	1	12,0	16	22	6	78,0	27,0	33,0	0,089	XCMT 0602..	
182022400	XMS-L 14016-2,25D	Left	1	14,0	16	22	7	83,5	31,5	38,5	0,094	XCMT 0703..	
182022500	XMS-L 16020-2,25D	Left	1	16,0	20	28	8	94,0	36,0	44,0	0,154	XCMT 0803..	
182022600	XMS-L 18025-2,25D	Left	1	18,0	25	36	9	109,5	40,5	53,5	0,293	XCMT 09T3..	
182022700	XMS-L 20025-2,25D	Left	1	20,0	25	36	10	111,0	45,0	55,0	0,311	XCMT 10T3..	
182022800	XMS-L 25032-2,25D	Left	1	25,0	32	44	12,5	129,0	56,5	69,0	0,563	XCMT 1304..	
182022900	XMS-L 32040-2,25D	Left	1	32,0	40	54	16	158,0	72,0	88,0	1,117	XCMT 1705..	

Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

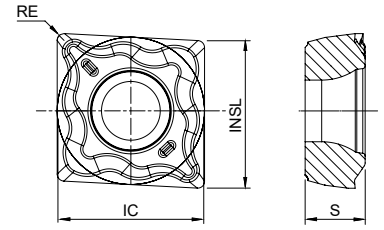
XCMT Inserts | Pastilhas | Plaquetas



XCMT-MP
(PH7 grade)



XCMT-MP
(PHS grade)



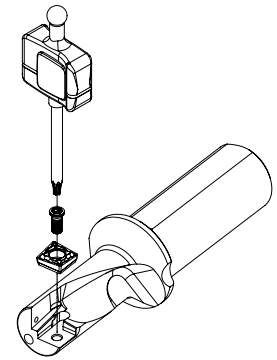
XCMT-MP

		P	M		S	Dimensions Dimensões Dimensiones (mm)				Hand
		PVD	CVD	PVD	PVD	IC	S	INSL	RE	
	⁽²⁾ Grade code	G4	U5	G4	G4					
⁽¹⁾ Geometry code	ISO Reference	PH7920	PHS225	PH7920	PH7920	IC	S	INSL	RE	Hand
1124790	XCMT 040104-MP ER	☑	☑	☑	☑	4,40	1,89	4,00	0,40	Right
1124791	XCMT 040104-MP EL	☑	☑	☑	☑	4,40	1,89	4,00	0,40	Left
1124792	XCMT 050204-MP EN	☑	☑	☑	☑	5,65	2,14	5,00	0,40	Neutral
1123788	XCMT 060204-MP EN	☑	☑	☑	☑	6,40	2,47	6,00	0,40	Neutral
1124784	XCMT 070304-MP EN	☑	☑	☑	☑	7,50	3,25	7,00	0,40	Neutral
1124785	XCMT 080304-MP EN	☑	☑	☑	☑	8,40	3,26	8,00	0,40	Neutral
1124786	XCMT 09T304-MP EN	☑	☑	☑	☑	9,45	4,00	9,00	0,40	Neutral
1124787	XCMT 10T308-MP EN	☑	☑	☑	☑	10,40	4,00	10,00	0,80	Neutral
1124788	XCMT 130408-MP EN	☑	☑	☑	☑	13,35	4,85	12,50	0,80	Neutral
1124789	XCMT 170508-MP EN	☑	☑	☑	☑	17,30	5,58	16,00	0,80	Neutral

☑ First choice | Primeira opção | 1ª opción
☑ Stock item | Produto de stock | Itens de stock
○ Available under request | Disponível sobre consulta | Disponible bajo consulta
Insert order code = (1) Geometry Code + (2) Grade Code

SPARE PARTS Acessórios | Repuestos

Cutter ØDc	Insert Screw	Key (Torx)	Order separately	
			Key (Torx - Nm)	Torque Value
XMS-R/L 08010-2,25D	P0180400	XT06IP	DT0606IP	0,60
XMS-R/L 10012-2,25D	P0200500	XT06	DT0606	0,60
XMS-R/L 12016-2,25D	P0220500	XT07	DT0709	0,90
XMS-R/L 14016-2,25D	P0250704	XT08	DT0812	1,20
XMS-R/L 16020-2,25D	P0300701	XT08	DT0812	1,20
XMS-R/L 18025-2,25D	P0300701	XT08	DT0812	1,20
XMS-R/L 20025-2,25D	P0350800	PT15	DT1530	3,00
XMS-R/L 25032-2,25D	P0500900	PT20	DT2050	4,00
XMS-R/L 32040-2,25D	P0501302	PT20	DT2050	4,00



GRADES SELECTION GUIDE Guia para seleção de graus | Tabla para selección de calidades

ISO	PSM	Material	HB (Brinell)	Grades	
				← Wear Resistance PH7920	Toughness → PHS225
P	1	Unalloyed Steel	125-170	✓	
	2	Low-Alloyed Steel	180-350	✓	
	3	High-Alloyed Steel	200-325	✓	
M	4	SS - Ferritic / Martensitic	200-330	✓	✓
	5	SS - Austenitic	180-330	✓	✓
	6	SS - Austenitic-ferritic (Duplex)	230-260	✓	✓
S	11	Heat Resistant Super Alloys	200-320	✓	

Good Conditions
 Average Conditions
 Difficult Conditions

RECOMMENDED CUTTING CONDITIONS Condições de corte recomendadas | Condiciones de corte recomendables

ISO	PSM	Material	HB (Brinell)	Vc (m/min)	
				← Wear Resistance	Toughness →
				PH7920	PHS225
P	1	Unalloyed Steel	125-170	110-220	-
	2	Low-Alloyed Steel	180-350	100-210	-
	3	High-Alloyed Steel	200-325	85-190	-
M	4	SS - Ferritic / Martensitic	200-330	95-210	70-230
	5	SS - Austenitic	180-330	85-205	65-225
	6	SS - Austenitic-ferritic (Duplex)	230-260	80-195	55-215
S	11	Heat Resistant Super Alloys	200-320	25-210	-

Reference	FN (mm/rev)			AP (mm)	
	Face Turning	Int/Ext Turning	Holemaking	Face Turning	Int/Ext Turning
XCMT 040104-MP ER/L	0,02-0,09	0,02-0,13	0,01-0,04	0,50-1,90	0,50-2,70
XCMT 050204-MP EN	0,02-0,12	0,02-0,15	0,01-0,05	0,50-2,20	0,50-3,20
XCMT 060204-MP EN	0,02-0,14	0,02-0,16	0,01-0,06	0,70-2,70	0,70-3,70
XCMT 070304-MP EN	0,02-0,16	0,02-0,18	0,01-0,08	0,80-3,00	0,80-4,00
XCMT 080304-MP EN	0,03-0,18	0,03-0,20	0,02-0,08	0,90-3,40	0,90-4,20
XCMT 09T304-MP EN	0,03-0,20	0,03-0,22	0,03-0,09	0,90-3,80	0,90-4,70
XCMT 10T308-MP EN	0,03-0,22	0,03-0,24	0,03-0,10	1,00-4,20	1,00-5,30
XCMT 130408-MP EN	0,03-0,24	0,03-0,26	0,04-0,12	1,00-5,00	1,00-6,50
XCMT 170508-MP EN	0,03-0,27	0,03-0,30	0,04-0,15	1,00-6,00	1,00-7,00

Note: For additional details on drilling operations check the page B-377.



TURNING OVERVIEW

1 NEGATIVE INSERTS

> See page C-504

2 POSITIVE INSERTS

> See page C-542

3 PCBN INSERTS

> See page C-576

4 PCD INSERTS

> See page C-600

5 HEAVY TURNING

> See page C-622

6 EXTERNAL TOOLHOLDERS

> See page C-646

7 INTERNAL TOOLHOLDERS

> See page C-754

8 AUTOMATIC LATHES

> See page C-832

9 SPARE PARTS

> See page C-846

10 TECHNICAL DATA

> See page C-856

TURNING INSERTS ISO IDENTIFICATION SYSTEM

H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1 - Insert shape symbol

Symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

*As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.

Triangular inserts with a facet (secondary cutting edge)

Detailed dimension of M class insert Insert height Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-

Inscribed circle Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

3 - Tolerances symbol

A	B	C	D	E
F	G	N	P	O
				Other clearance angle

2 - Normal clearance symbol



4 - Insert symbol															
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	
W	with hole	Round hole / one countersink (40°-60°)	Without chip breaker		H	with hole	Round hole / one countersink (70°-90°)	Chip breaker on one side		G	with hole	Round hole	Chip breaker on both sides		
T			Chip breaker on one side		C		Round hole / double countersink (70°-90°)	Without chip breaker		N		-	Without chip breaker		
Q		Round hole / double countersink (40°-60°)	Without chip breaker		J		Round hole		Without chip breaker		R	without hole		Without chip breaker	
U			Chip breaker on both sides		A				Without chip breaker		F			Chip breaker on both sides	
B	Round hole / one countersink (70°-90°)	Without chip breaker		M	Round hole	Without chip breaker		X	-	-	-	-	On request		

TURNING INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificação ISO para pastilhas | Codificación ISO para plaquitas

R's	35°	55°	80°	90°	60°	80°	IC		ANSI
	V's	D's	C's	S's	T's	W's	mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only (Radius Designation is R0)

** Metric designation only (Radius Designation is M0)

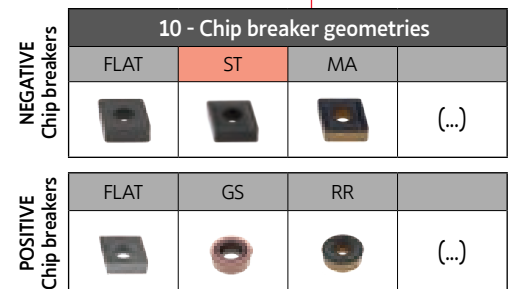
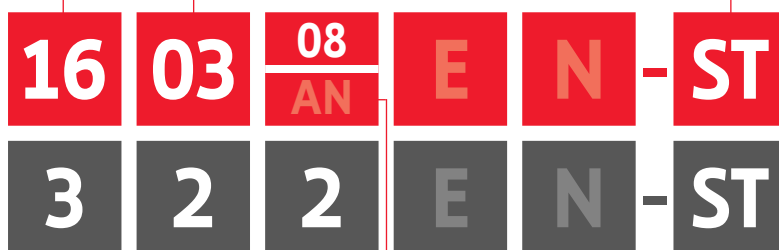
According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol



7 - Insert corner symbol			
ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
00 (inch or M0/metric)	Round insert		0

7.1* - Insert edges symbol			
For inserts having secondary edges two digits are used:			
1 st digit is secondary edge		2 nd digit is secondary edges relief angle	
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	special	F	25°
*only when required.		G	30°
		N	0°
		P	11°
		Z	special

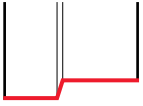

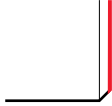
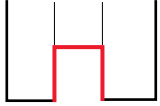
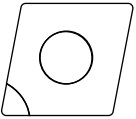
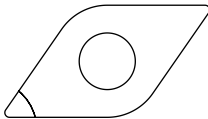

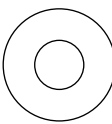
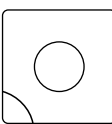
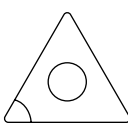
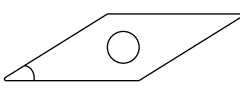
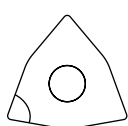
8* - Cutting edge information		
Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S
*only when required.		

9* - Cutting direction		
Shape	Hand	Symbol
	Right	R
	Left	L
	None	N
*only when required.		

EXTERNAL MACHINING Maquinação externa | Maquinación externa

General Recommendation:

1. The choice of the insert shape depends of the operation
2. The insert shape should be selected to the required lead angle and the accessibility or versatility required of the tool.
3. Select the largest suitable point angle on the insert for strenght and economy.

Insert Shape	Operation	Longitudinal turning	Profiling	Facing	Plunging
					
	Rhombic 80°	●●		●	
	Rhombic 55°	●	●●	●	
	Parallelogram 55°	●	●		●
	Round	●	●	●	●●
	Square 90°	●		●●	
	Triangular 60°	●	●	●	●
	Rhombic 35°		●		
	Trigon 80°	●		●	

●● Recommended Insert Shape

● Alternative Insert Shape

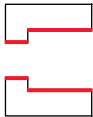
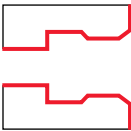
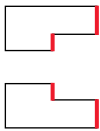
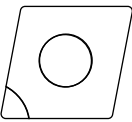
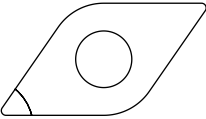

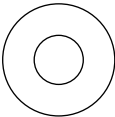
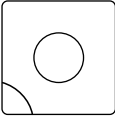
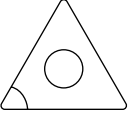
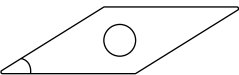
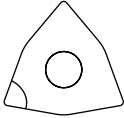
INSERTS RECOMENDATION

Recomendações de maquinação | Recomendaciones de maquinación

INTERNAL MACHINING Maquinação interna | Maquinación interna

General Recommendation:

1. The choice of the insert shape depends of the operation
2. The insert shape should be selected to the required lead angle and the accessibility or versatility required of the tool.
3. Select the largest suitable point angle on the insert for strenght and economy.

Insert Shape	Operation	Longitudinal turning	Profiling	Facing
				
	Rhombic 80°	●		●●
	Rhombic 55°	●	●●	●
	Parallelogram 55°	●●		
	Round	●		●
	Square 90°	●		
	Triangular 60°	●●	●	●
	Rhombic 35°		●	
	Trigon 80°	●		●

●● Recommended Insert Shape

● Alternative Insert Shape

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning



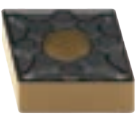





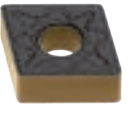


External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

	Fine finishing	Finishing	Medium	Roughing	Heavy roughing	
P		MF	LC	MR	HR	
						
			PM	MA	RP	HY
						
					1 face	1 face
			MW		GR	HZ
				wiper		
					1 face	1 face
	CVD Grades					
		PHG105 P05-P10	PHG115 P10-P25	PHG125 P20-P35	PHG140 P25-P45	
		NEW PH2G115 P10-P25	NEW PH2G125 P20-P35			
PVD Grades						
		PH7910 P05-P10				
Continuous cut ← → Interrupted cut						

	Fine finishing	Finishing	Medium	Roughing	Heavy roughing	
M	NEW GSF	GS	SF	SS		
						
		MS		RP	HY	
						
				1 face	1 face	
	CVD Grades					
		PHS215 M10-M25		PHS225 M15-M30		PHS240 M25-M45
	PVD Grades					
		PH7910 M05-M10	PHH910 M05-M10	PH7920 M10-M25	PHH920 M10-M25	
	Continuous cut ← → Interrupted cut					

NEGATIVE TURNING APPLICATION RANGE OVERVIEW

Vista geral de aplicações | Vista general de aplicaciones

K	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
				ST 	FLAT HR
			MW wiper		
CVD Grades					
			PH5705 K05-K15	PH5320 K10-K25	PH5740 K20-K40
Continuous cut ← → Interrupted cut					

N	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
				MS 	
Uncoated Grades					
			PH0910 N01-N20		
Continuous cut ← → Interrupted cut					

S	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
		NEW GSF 	GS 	SF 	SS
			MS 		DOMX
PVD Grades					
		PH7910 S05-S10	PHH910 S10-S25	PH7920 S10-S25	PHH920 S10-S25
Continuous cut ← → Interrupted cut					

	Fine finishing	Finishing	Medium	Roughing		Heavy roughing	
P 5° & 7°	BO	FP	MP	RF	RM		
		FW	MW	ST	RR		
			wiper	wiper			
	CVD Grades						
			PHG115 P10-P25	PHG125 P20-P35	PHG140 P25-P45		
			NEW PH2G115 P10-P25	NEW PH2G125 P20-P35			
	PVD Grades						
		PH7910 P05-P10	PH7920 P10-P35				
Continuous cut ← → Interrupted cut							


	Fine finishing	Finishing	Medium	Roughing	Heavy roughing	
P 11°		12	13	FLAT		
	CVD Grades					
			PH5115 P05-P20	PH5125 P20-P35		
	PVD Grades					
	Continuous cut ← → Interrupted cut					

POSITIVE TURNING APPLICATION RANGE OVERVIEW

Vista geral de aplicações | Vista general de aplicaciones

		Fine finishing	Finishing		Medium	Roughing	Heavy roughing	
M 5° & 7°		FS 	FM 	LM 	MM 			
		NEW FF 	BO 	FW 	MW 	GS 		
		CVD Grades						
			PHS215 M10-M25			PHS225 M15-M30		PHS240 M25-M45
		PVD Grades						
		PHH910 M05-M15	PH7910 M05-M10		PH7920 M10-M25	PHH920 M10-M25		
		Continuous cut ←			→ Interrupted cut			










		Fine finishing	Finishing	Medium	Roughing	Heavy roughing	
K 5° & 7°		FK 		MK 	FLAT 	RM 	
			FW 		MW 	ST 	
		CVD Grades					
			PH5705 K05-K15			PH5320 K10-K25	
		Uncoated Grades					
		PH0705 K05-K15					
		Continuous cut ←			→ Interrupted cut		

N	Fine finishing	Finishing	Medium	Roughing	Heavy roughing
		LN 			
	Uncoated Grades				

7°

PH0910
N01-N20

Continuous cut ←
→ Interrupted cut

S	Fine finishing	Finishing		Medium	Roughing	Heavy roughing
	FS 	FM 	LM 	MM 	GS 	
	NEW FF 	BO 	FW 	MW 		
			wiper		wiper	
	PVD Grades					

5° & 7°

PHH910
S05-S15

PH7910
S05-S10

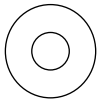
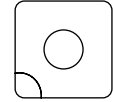
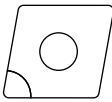

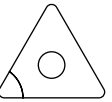
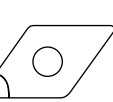
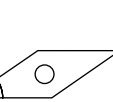
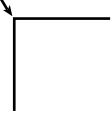


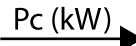
PH7920
S10-S25

PHH920
S10-S25

Continuous cut ←
→ Interrupted cut

INSERT SHAPE SELECTION

Seleção de geometria para pastilha | Selección de geometria para plaquita

Shape angle		90°	80°	80°	60°	55°	35°	
Geometry shape code	R	S	C	W	T	D	V	
Geometry shape design								
Cutting edge strength								 Accessibility
Vibration tendency								Less power consumption  Pc (kW)

INSERT SHAPE

The insert shape should be selected relative to the entering angle accessibility from tools requirements.

The largest possible nose angle should be selected to provide insert strength and reliability, however, this has to be balanced against the cut variation need to be performed.

A large nose angle is strong, but requires more machine power and has a higher tendency for vibration.

A small nose angle is weaker and has a small cutting edge engagement, both of which can make it more sensitive to the heat effects.

Scale 1: indicates the cutting edge strength. The inserts to the left have larger nose angles and are correspondingly stronger. The right hand inserts have better versatility and accessibility.

Scale 2: indicates that vibration tendencies increase to the left side, while power requirements decrease to the right.

NEGATIVE TURNING INSERTS OVERVIEW

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning








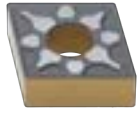


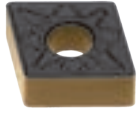













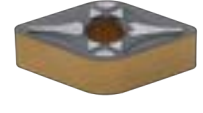
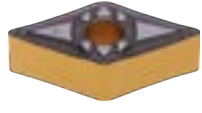




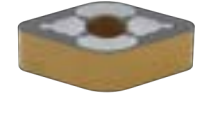


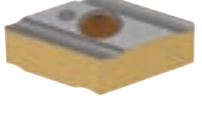
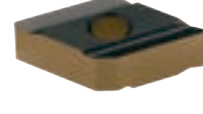
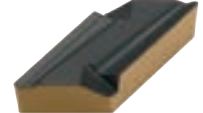








External Toolholders

Internal Toolholders

Automatic Lathes







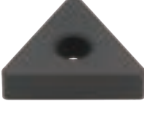































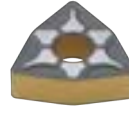






Spare Parts

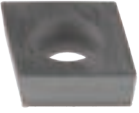

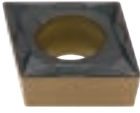







































Technical Data

<p>CNMA</p>  <p>Roughing</p> <p>Page C - 506 Rhombic 80°</p>	<p>NEW CNMG-GSF</p>  <p>Fine Finishing</p> <p>Page C - 506 Rhombic 80°</p>	<p>CNMG-MF</p>  <p>Finishing</p> <p>Page C - 506 Rhombic 80°</p>	<p>CNMG-MS</p>  <p>Medium to Finishing</p> <p>Page C - 506 Rhombic 80°</p>	<p>CNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 506 Rhombic 80°</p>	<p>CNMG-LC</p>  <p>Medium to Finishing</p> <p>Page C - 506 Rhombic 80°</p>
<p>CNMG-GS</p>  <p>Medium</p> <p>Page C - 506 Rhombic 80°</p>	<p>CNMG-MR</p>  <p>Medium</p> <p>Page C - 508 Rhombic 80°</p>	<p>CNMG-PM</p>  <p>Medium</p> <p>Page C - 508 Rhombic 80°</p>	<p>CNMG-ST</p>  <p>Medium</p> <p>Page C - 508 Rhombic 80°</p>	<p>CNMG-MW</p>  <p>Medium wiper</p> <p>Page C - 508 Rhombic 80°</p>	<p>CNMG-MA</p>  <p>Medium to Roughing</p> <p>Page C - 510 Rhombic 80°</p>
<p>CNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 510 Rhombic 80°</p>	<p>CNMG-HR</p>  <p>Roughing</p> <p>Page C - 510 Rhombic 80°</p>	<p>CNMM-RP</p>  <p>Roughing</p> <p>Page C - 512 Rhombic 80°</p>	<p>CNMM-GR</p>  <p>Roughing</p> <p>Page C - 512 Rhombic 80°</p>	<p>CNMM-HY</p>  <p>Heavy to Roughing</p> <p>Page C - 512 Rhombic 80°</p>	<p>CNMM-HZ</p>  <p>Heavy to Roughing</p> <p>Page C - 512 Rhombic 80°</p>
<p>DNMA</p>  <p>Roughing</p> <p>Page C - 514 Rhombic 55°</p>	<p>DNMG-MF</p>  <p>Finishing</p> <p>Page C - 514 Rhombic 55°</p>	<p>DNMG-MS</p>  <p>Medium to Finishing</p> <p>Page C - 514 Rhombic 55°</p>	<p>DNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 514 Rhombic 55°</p>	<p>DNMG-LC</p>  <p>Medium to Finishing</p> <p>Page C - 516 Rhombic 55°</p>	<p>DNMG-GS</p>  <p>Medium</p> <p>Page C - 516 Rhombic 55°</p>
<p>DNMG-MR</p>  <p>Medium</p> <p>Page C - 516 Rhombic 55°</p>	<p>DNMG-PM</p>  <p>Medium</p> <p>Page C - 516 Rhombic 55°</p>	<p>DNMG-ST</p>  <p>Medium</p> <p>Page C - 518 Rhombic 55°</p>	<p>DNMG-MW</p>  <p>Medium wiper</p> <p>Page C - 518 Rhombic 55°</p>	<p>DNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 518 Rhombic 55°</p>	<p>DOMX-GS</p>  <p>Roughing</p> <p>Page C - 518 Rhombic 55°</p>
<p>DNMG-HR</p>  <p>Roughing</p> <p>Page C - 518 Rhombic 55°</p>	<p>DNMM-RP</p>  <p>Roughing</p> <p>Page C - 518 Rhombic 55°</p>	<p>DNMX-02</p>  <p>Medium to Finishing</p> <p>Page C - 520 Rhombic 55°</p>	<p>DNMX-03</p>  <p>Medium</p> <p>Page C - 520 Rhombic 55°</p>	<p>DNMX-01</p>  <p>Roughing to Medium</p> <p>Page C - 520 Rhombic 55°</p>	
<p>KNUX-01</p>  <p>Finishing</p> <p>Page C - 522 Parallelogram 55°</p>	<p>KNUX-02</p>  <p>Medium</p> <p>Page C - 522 Parallelogram 55°</p>	<p>RNMG-ST</p>  <p>Medium</p> <p>Page C - 522 Round R°</p>			
<p>SNMA</p>  <p>Roughing</p> <p>Page C - 524 Square 90°</p>	<p>SNMG-MF</p>  <p>Finishing</p> <p>Page C - 524 Square 90°</p>	<p>SNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 524 Square 90°</p>	<p>SNMG-GS</p>  <p>Medium to Finishing</p> <p>Page C - 524 Square 90°</p>	<p>SNMG-MR</p>  <p>Medium</p> <p>Page C - 524 Square 90°</p>	<p>SNMG-PM</p>  <p>Medium</p> <p>Page C - 524 Square 90°</p>

NEGATIVE TURNING INSERTS OVERVIEW








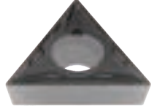




























Vista genérica de pastilhas de torneamento negativas | Vista general de plaquitas de torneado negativas

<p>SNMG-ST</p>  <p>Medium</p> <p>Page C - 526 Square 90°</p>	<p>SNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 526 Square 90°</p>	<p>SNMG-HR</p>  <p>Roughing</p> <p>Page C - 526 Square 90°</p>	<p>SNMM-RP</p>  <p>Roughing</p> <p>Page C - 528 Square 90°</p>	<p>SNMM-HY</p>  <p>Heavy to Roughing</p> <p>Page C - 528 Square 90°</p>	<p>SNMM-HZ</p>  <p>Heavy to Roughing</p> <p>Page C - 528 Square 90°</p>
<p>TNMA</p>  <p>Roughing</p> <p>Page C - 530 Triangular 60°</p>	<p>NEW TNMG-GSF</p>  <p>Fine Finishing</p> <p>Page C - 530 Triangular 60°</p>	<p>TNMG-MF</p>  <p>Finishing</p> <p>Page C - 530 Triangular 60°</p>	<p>TNMG-MS</p>  <p>Medium to Finishing</p> <p>Page C - 530 Triangular 60°</p>	<p>TNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 530 Triangular 60°</p>	<p>TNMG-LC</p>  <p>Medium to Finishing</p> <p>Page C - 530 Triangular 60°</p>
<p>TNMG-GS</p>  <p>Medium</p> <p>Page C - 532 Triangular 60°</p>	<p>TNMG-MR</p>  <p>Medium</p> <p>Page C - 532 Triangular 60°</p>	<p>TNMG-PM</p>  <p>Medium</p> <p>Page C - 532 Triangular 60°</p>	<p>TNMG-ST</p>  <p>Medium</p> <p>Page C - 532 Triangular 60°</p>	<p>TNMG-MW</p>  <p>Medium wiper</p> <p>Page C - 534 Triangular 60°</p>	<p>TNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 534 Triangular 60°</p>
<p>TNMG-HR</p>  <p>Roughing</p> <p>Page C - 534 Triangular 60°</p>	<p>TNMX-01</p>  <p>Medium to Finishing</p> <p>Page C - 534 Triangular 60°</p>	<p>VNMA</p>  <p>Roughing</p> <p>Page C - 536 Rhombic 35°</p>		<p>NEW VNMG-GSF</p>  <p>Fine Finishing</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-MF</p>  <p>Finishing</p> <p>Page C - 536 Rhombic 35°</p>
<p>VNMG-MS</p>  <p>Medium to Finishing</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-LC</p>  <p>Medium to Finishing</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-GS</p>  <p>Medium</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-MR</p>  <p>Medium</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-PM</p>  <p>Medium</p> <p>Page C - 536 Rhombic 35°</p>
<p>VNMG-ST</p>  <p>Medium</p> <p>Page C - 536 Rhombic 35°</p>	<p>VNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 536 Rhombic 35°</p>	<p>WNMA</p>  <p>Roughing</p> <p>Page C - 538 Trigon 80°</p>	<p>NEW WNMG-GSF</p>  <p>Fine Finishing</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-MF</p>  <p>Finishing</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-MS</p>  <p>Medium</p> <p>Page C - 538 Trigon 80°</p>
<p>WNMG-SF</p>  <p>Medium to Finishing</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-LC</p>  <p>Medium to Finishing</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-GS</p>  <p>Medium</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-MR</p>  <p>Medium</p> <p>Page C - 540 Trigon 80°</p>	<p>WNMG-PM</p>  <p>Medium</p> <p>Page C - 540 Trigon 80°</p>	<p>WNMG-ST</p>  <p>Medium</p> <p>Page C - 540 Trigon 80°</p>
<p>WNMG-MW</p>  <p>Medium wiper</p> <p>Page C - 540 Trigon 80°</p>	<p>WNMG-SS</p>  <p>Roughing to Medium</p> <p>Page C - 540 Trigon 80°</p>	<p>NEW WNMG-PR</p>  <p>Roughing</p> <p>Page C - 538 Trigon 80°</p>	<p>WNMG-HR</p>  <p>Roughing</p> <p>Page C - 540 Trigon 80°</p>		

<p>CCMW</p>  <p>Finishing</p> <p>Page C - 544 Rhombic 80°</p>	<p>NEW CCMT-FF</p>  <p>Fine Finishing</p> <p>Page C - 544 Rhombic 80°</p>	<p>CCMT-FP</p>  <p>Finishing</p> <p>Page C - 544 Rhombic 80°</p>	<p>CCMT-BO</p>  <p>Finishing</p> <p>Page C - 544 Rhombic 80°</p>	<p>CCMT-FM</p>  <p>Finishing</p> <p>Page C - 544 Rhombic 80°</p>	<p>CCMT-FK</p>  <p>Finishing</p> <p>Page C - 544 Rhombic 80°</p>
<p>CCMT-FW</p>  <p>Finishing wiper</p> <p>Page C - 546 Rhombic 80°</p>	<p>CCMT-LM</p>  <p>Medium to Finishing</p> <p>Page C - 546 Rhombic 80°</p>	<p>CCMT-MW</p>  <p>Medium to Finishing wiper</p> <p>Page C - 546 Rhombic 80°</p>	<p>CCMT-MP</p>  <p>Medium</p> <p>Page C - 546 Rhombic 80°</p>	<p>CCMT-MM</p>  <p>Medium</p> <p>Page C - 546 Rhombic 80°</p>	<p>CCMT-MK</p>  <p>Medium</p> <p>Page C - 546 Rhombic 80°</p>
<p>CCGT-FS</p>  <p>Finishing to Fine finishing</p> <p>Page C - 548 Rhombic 80°</p>	<p>CCGT-LN</p>  <p>Medium to Finishing</p> <p>Page C - 548 Rhombic 80°</p>				
<p>DCMW</p>  <p>Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>NEW DCMT-FF</p>  <p>Fine Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-FP</p>  <p>Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-FM</p>  <p>Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-FK</p>  <p>Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-FW</p>  <p>Finishing wiper</p> <p>Page C - 550 Rhombic 55°</p>
<p>DCMT-LM</p>  <p>Medium to Finishing</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-MW</p>  <p>Medium to Finishing wiper</p> <p>Page C - 550 Rhombic 55°</p>	<p>DCMT-MP</p>  <p>Medium</p> <p>Page C - 552 Rhombic 55°</p>	<p>DCMT-MM</p>  <p>Medium</p> <p>Page C - 552 Rhombic 55°</p>	<p>DCMT-MK</p>  <p>Medium</p> <p>Page C - 552 Rhombic 55°</p>	<p>DCGT-FS</p>  <p>Finishing to Fine finishing</p> <p>Page C - 552 Rhombic 55°</p>
<p>DCGT-LN</p>  <p>Medium to Finishing</p> <p>Page C - 552 Rhombic 55°</p>	<p>RCGT-LN</p>  <p>Finishing to Fine finishing</p> <p>Page C - 554 Round R°</p>		<p>RCMT-GS</p>  <p>Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMT-CP</p>  <p>Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMT-ST</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>
<p>RCMT-RF</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMT-RM</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMX-ST</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMX-RM</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>	<p>RCMX-RR</p>  <p>Roughing to Medium</p> <p>Page C - 554 Round R°</p>	
<p>SCMW</p>  <p>Finishing</p> <p>Page C - 556 Square 90°</p>	<p>SCMT-FP</p>  <p>Finishing</p> <p>Page C - 556 Square 90°</p>	<p>SCMT-FM</p>  <p>Finishing</p> <p>Page C - 556 Square 90°</p>	<p>SCMT-FK</p>  <p>Finishing</p> <p>Page C - 556 Square 90°</p>	<p>SCMT-MP</p>  <p>Medium</p> <p>Page C - 556 Square 90°</p>	<p>SCMT-MM</p>  <p>Medium</p> <p>Page C - 556 Square 90°</p>

POSITIVE TURNING INSERTS OVERVIEW

Vista genérica de pastilhas de torneamento positivas | Vista general de plaquitas de torneado positivas

<p>SCMT-MK</p>  <p>Medium Page C - 556 Square 90°</p>	<p>SCGT-LN</p>  <p>Medium to Finishing Page C - 556 Square 90°</p>		<p>SPUN</p>  <p>Medium to Finishing Page C - 558 Square 90°</p>	<p>SPMR-12</p>  <p>Finishing to Fine finishing Page C - 558 Square 90°</p>	<p>SPMR-13</p>  <p>Medium Page C - 558 Square 90°</p>
<p>TCMW</p>  <p>Finishing Page C - 560 Triangular 60°</p>	<p>TCMT-FP</p>  <p>Finishing Page C - 560 Triangular 60°</p>	<p>TCMT-FM</p>  <p>Finishing Page C - 560 Triangular 60°</p>	<p>TCMT-FK</p>  <p>Finishing Page C - 562 Triangular 60°</p>	<p>TCMT-FW</p>  <p>Finishing wiper Page C - 562 Triangular 60°</p>	<p>TCMT-MW</p>  <p>Medium to Finishing wiper Page C - 562 Triangular 60°</p>
<p>TCMT-MP</p>  <p>Medium Page C - 564 Triangular 60°</p>	<p>TCMT-MM</p>  <p>Medium Page C - 564 Triangular 60°</p>	<p>TCMT-MK</p>  <p>Medium Page C - 564 Triangular 60°</p>	<p>TCGT-FS</p>  <p>Finishing to Fine finishing Page C - 566 Triangular 60°</p>	<p>TCGT-LN</p>  <p>Medium to Finishing Page C - 566 Triangular 60°</p>	
<p>TPUN</p>  <p>Medium to Finishing Page C - 568 Triangular 60°</p>	<p>TPMR-12</p>  <p>Finishing to Fine finishing Page C - 568 Triangular 60°</p>	<p>TPMR-13</p>  <p>Medium Page C - 568 Triangular 60°</p>			
<p>VBMW</p>  <p>Finishing Page C - 570 Rhombic 35°</p>	<p>NEW VBMT-FF</p>  <p>Finishing Page C - 570 Rhombic 35°</p>	<p>VBMT-FP</p>  <p>Finishing Page C - 570 Rhombic 35°</p>	<p>VBMT-FM</p>  <p>Finishing Page C - 570 Rhombic 35°</p>	<p>VBMT-FK</p>  <p>Finishing Page C - 570 Rhombic 35°</p>	<p>VBMT-MP</p>  <p>Medium Page C - 570 Rhombic 35°</p>
<p>VBMT-MM</p>  <p>Medium Page C - 570 Rhombic 35°</p>	<p>VBMT-MK</p>  <p>Medium Page C - 570 Rhombic 35°</p>				
<p>VCMW</p>  <p>Finishing Page C - 572 Rhombic 35°</p>	<p>VCMT-FP</p>  <p>Finishing Page C - 572 Rhombic 35°</p>	<p>VCMT-FM</p>  <p>Finishing Page C - 572 Rhombic 35°</p>	<p>VCMT-FK</p>  <p>Finishing Page C - 572 Rhombic 35°</p>	<p>VCMT-MP</p>  <p>Medium Page C - 572 Rhombic 35°</p>	<p>VCMT-MM</p>  <p>Medium Page C - 572 Rhombic 35°</p>
<p>VCMT-MK</p>  <p>Medium Page C - 572 Rhombic 35°</p>	<p>VCGT-FS</p>  <p>Finishing to Fine finishing Page C - 574 Rhombic 35°</p>	<p>VCGT-LN</p>  <p>Medium to Finishing Page C - 574 Rhombic 35°</p>			

INSERTS

NEGATIVE



Negative inserts have a 0° clearance angle, lending them increased strength and durability. They are ideal for external turning, or any time heavy cutting conditions are required. Additionally, they are often double-sided, making them a more economical choice.

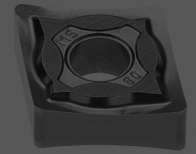
Pastilhas negativas têm um ângulo de folga de 0° , conferindo-lhes maior resistência e durabilidade. São ideais para torneamento externo, ou sempre que são necessárias condições de corte pesadas. Além disso, são frequentemente de dupla face, tornando-as uma escolha mais econômica.

Plaquetas negativas tienen un ángulo de despeje de 0° , lo que les confiere mayor resistencia y durabilidad. Son ideales para el torneado externo, o en cualquier momento que se requieran condiciones de corte pesadas. Además, a menudo son de doble cara, lo que las convierte en una opción más económica.

CN.. > page 506

- > Rhombic 80° inserts are very popular thanks to their versatility

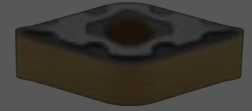
Rhombic 80° inserts são muito populares devido à sua versatilidade | Las plaquitas de 80° rúbicas son muy populares gracias a su versatilidad



DN.. > page 514

- > Rhombic 55° inserts offer balanced roughing and finishing capabilities

Pastilhas rúbicas de 55° oferecem capacidades equilibradas de desbaste e acabamento | Las plaquitas rúbicas de 55° ofrecen capacidades equilibradas para desbaste y acabado



KN.. > page 522

- > Parallelogram 55° inserts for profile turning

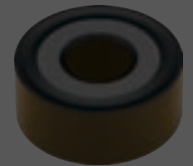
Pastilhas em paralelogramo de 55° para torneamento de perfil | Plaquitas em paralelogramo de 55° para torneamento de perfil



RN.. > page 522

- > Round inserts are extremely tough, and well suited for high feed turning

Pastilhas redondas são extremamente resistentes e adequadas para torneamento em alto avanço | Las plaquitas redondas son extremadamente resistentes y adecuadas para el torneamento de alto avance



SN.. > page 524

- > Square inserts excel in roughing, especially at a shallow angle

Pastilhas quadradas destacam-se no desbaste, especialmente a um ângulo raso | Plaquitas cuadradas destacan en el desbaste, especialmente a un ángulo bajo



TN.. > page 530

- > Triangular inserts are versatile, suitable for both finishing and roughing

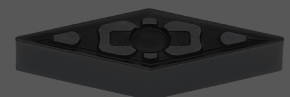
As pastilhas triangulares são versáteis, adequadas tanto para acabamento quanto para desbaste | Las plaquitas triangulares son versátiles, adecuadas tanto para acabado como para desbaste



VN.. > page 536

- > Rhombic 35° inserts are best suited for finishing operations

Pastilhas rúbicas de 35° são mais adequadas para operações de acabamento | Las plaquitas rúbicas de 35° son más adecuadas para operaciones de acabado



WN.. > page 538

- > Trigon 80° inserts perform like rhombic 80° inserts, with extra edges

Pastilhas em formato W de 80° têm desempenho semelhante às pastilhas rúbicas de 80° mas com arestas adicionais | Las plaquitas formato W de 80° tienen un rendimiento similar a las plaquitas rúbicas de 80°, con bordes adicionales



CN - RHOMBIC 80° NEGATIVE

RÔMBICA 80° NEGATIVA | RÓMBICA 80° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning








External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N		S						
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3			
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920			
 Roughing	CNMA	1120219	CNMA 120404																										
		1120220	CNMA 120408																										
		1120221	CNMA 120412																										
		1120223	CNMA 120416																										
		1120224	CNMA 160608																										
		1120225	CNMA 160612																										
		1121470	CNMA 160616																										
		1120226	CNMA 190612																										
		1120227	CNMA 190616																										
		1121471	CNMA 190624																										
	 Fine Finishing	NEW CNMG-GSF	1124855	CNMG 120402-GSF																									
 Finishing	CNMG-MF	1121472	CNMG 090304-MF																										
		1121318	CNMG 090308-MF																										
		1121320	CNMG 09T304-MF																										
		1121317	CNMG 09T308-MF																										
		1121478	CNMG 120404-MF																										
		1121480	CNMG 120408-MF																										
		1121482	CNMG 120412-MF																										
 Medium to Finishing	CNMG-MS	1124854	CNMG 120402-MS																										
		1121479	CNMG 120404-MS																										
		1121481	CNMG 120408-MS																										
		1121483	CNMG 120412-MS																										
		1121486	CNMG 120416-MS																										
 Medium to Finishing	CNMG-SF	1123747	CNMG 120404-SF																										
		1123717	CNMG 120408-SF																										
		1123748	CNMG 120412-SF																										
 Medium to Finishing	CNMG-LC	1122024	CNMG 120404-LC																										
		1122021	CNMG 120408-LC																										
		1124029	CNMG 120412-LC																										
 Medium to Finishing	CNMG-GS	1124514	CNMG 120404-GS																										
		1124502	CNMG 120408-GS																										
		1124515	CNMG 120412-GS																										

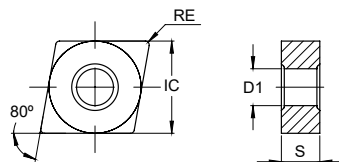
⊕ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CNMA 120404	CNMA 431	12,700	4,76	0,40	5,16	2,50	0,20	5,00	0,20	0,10	0,30
CNMA 120408	CNMA 432	12,700	4,76	0,80	5,16	4,00	0,20	8,00	0,35	0,15	0,60
CNMA 120412	CNMA 433	12,700	4,76	1,20	5,16	4,00	0,30	8,00	0,45	0,20	0,80
CNMA 120416	CNMA 434	12,700	4,76	1,60	5,16	4,00	0,30	8,00	0,55	0,20	1,00
CNMA 160608	CNMA 542	15,875	6,35	0,80	6,35	5,00	0,30	10,00	0,45	0,20	0,80
CNMA 160612	CNMA 543	15,875	6,35	1,20	6,35	5,00	0,30	10,00	0,45	0,20	0,80
CNMA 160616	CNMA 544	15,875	6,35	1,60	6,35	5,00	0,30	10,00	0,55	0,20	1,00
CNMA 190612	CNMA 643	19,050	6,35	1,20	7,94	6,00	0,30	12,00	0,45	0,20	0,80
CNMA 190616	CNMA 644	19,050	6,35	1,60	7,94	6,00	0,30	12,00	0,55	0,20	1,00
CNMA 190624	CNMA 646	19,050	6,35	2,40	7,94	6,00	0,40	12,00	0,60	0,20	1,40
CNMG 120402-GSF	CNMG 430.5-GSF	12,700	4,76	0,20	5,16	1,30	0,10	2,50	0,12	0,08	0,15
CNMG 090304-MF	CNMG 321-MF	9,525	3,18	0,40	3,81	0,50	0,10	1,50	0,15	0,05	0,25
CNMG 090308-MF	CNMG 322-MF	9,525	3,18	0,80	3,81	0,55	0,10	1,50	0,20	0,10	0,40
CNMG 09T304-MF	CNMG 32.51-MF	9,525	3,97	0,40	3,81	0,50	0,10	1,50	0,15	0,05	0,25
CNMG 09T308-MF	CNMG 32.52-MF	9,525	3,97	0,80	3,81	0,55	0,10	1,50	0,20	0,10	0,40
CNMG 120404-MF	CNMG 431-MF	12,700	4,76	0,40	5,16	0,80	0,20	1,50	0,15	0,05	0,25
CNMG 120408-MF	CNMG 432-MF	12,700	4,76	0,80	5,16	1,00	0,25	1,50	0,20	0,10	0,40
CNMG 120412-MF	CNMG 433-MF	12,700	4,76	1,20	5,16	1,25	0,50	2,50	0,25	0,15	0,50
CNMG 120402-MS	CCGT 430.5-MS	12,700	4,76	0,20	5,16	1,00	0,10	3,60	0,10	0,08	0,15
CNMG 120404-MS	CNMG 431-MS	12,700	4,76	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
CNMG 120408-MS	CNMG 432-MS	12,700	4,76	0,80	5,16	2,00	0,30	3,60	0,25	0,10	0,40
CNMG 120412-MS	CNMG 433-MS	12,700	4,76	1,20	5,16	2,40	0,40	3,60	0,30	0,15	0,60
CNMG 120416-MS	CNMG 434-MS	12,700	4,76	1,60	5,16	2,40	0,40	3,60	0,40	0,15	0,80
CNMG 120404-SF	CNMG 431-SF	12,700	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23
CNMG 120408-SF	CNMG 432-SF	12,700	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38
CNMG 120412-SF	CNMG 433-SF	12,700	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
CNMG 120404-LC	CNMG 431-LC	12,700	4,76	0,40	5,16	1,00	0,40	2,50	0,10	0,07	0,30
CNMG 120408-LC	CNMG 432-LC	12,700	4,76	0,80	5,16	1,50	0,40	2,50	0,15	0,10	0,40
CNMG 120412-LC	CNMG 433-LC	12,700	4,76	1,20	5,16	1,50	0,40	2,50	0,20	0,15	0,40
CNMG 120404-GS	CNMG 431-GS	12,700	4,76	0,40	5,16	1,50	0,15	2,50	0,20	0,10	0,30
CNMG 120408-GS	CNMG 432-GS	12,700	4,76	0,80	5,16	2,00	0,20	3,00	0,25	0,10	0,35
CNMG 120412-GS	CNMG 433-GS	12,700	4,76	1,20	5,16	2,50	0,30	4,00	0,30	0,10	0,45

CN - RHOMBIC 80° NEGATIVE

RÔMBICA 80° NEGATIVA | RÓMBICA 80° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning




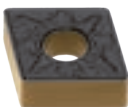
External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N		S					
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquitras	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
 <p>CNMG-MR Medium</p>	1121473	CNMG 090304-MR			○	⊗	⊗																					
	1121293	CNMG 090308-MR			○	⊗	○																					
	1121180	CNMG 120404-MR		⊗	⊗	⊗	⊗		⊗												⊗							
	1121174	CNMG 120408-MR		⊗	⊗	⊗	⊗		⊗												⊗							
	1121198	CNMG 120412-MR			○	⊗	⊗		⊗												⊗							
	1121485	CNMG 120416-MR			○		○																					
	1121239	CNMG 160608-MR		⊗	○	⊗	⊗		⊗												⊗							
	1121355	CNMG 160612-MR		⊗	⊗	⊗	⊗		⊗												⊗							
	1121490	CNMG 160616-MR		⊗	○		○															⊗						
	1121302	CNMG 190612-MR		⊗	⊗	⊗	⊗		⊗												⊗							
1121301	CNMG 190616-MR		⊗	○	⊗	○															⊗							
 <p>CNMG-PM Medium</p>	1123919	CNMG 120404-PM	⊗	⊗	⊗	⊗	⊗																					
	1123790	CNMG 120408-PM	⊗	⊗	⊗	⊗	⊗																					
	1123920	CNMG 120412-PM	⊗	⊗	⊗	⊗	⊗																					
	1123921	CNMG 120416-PM	⊗	⊗	⊗	⊗																						
 <p>CNMG-ST Medium</p>	1121344	CNMG 120404-ST																	⊗	⊗								
	1121165	CNMG 120408-ST																		⊗	⊗							
	1121166	CNMG 120412-ST																		⊗	⊗							
	1121488	CNMG 120416-ST																		⊗	⊗							
	1121335	CNMG 160608-ST																		⊗	⊗							
	1121303	CNMG 160612-ST																		⊗	⊗							
	1121491	CNMG 160616-ST																		⊗	⊗							
 <p>CNMG-MW Medium Wiper</p>	1121339	CNMG 120408-MW	⊗	⊗	⊗	○														⊗	⊗							
	1121191	CNMG 120412-MW		⊗	⊗	○															⊗	⊗						
1125061	CNMG 120612-MW			⊗	⊗																							

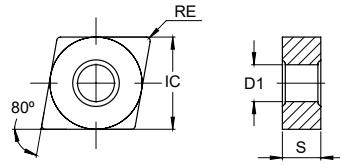
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CNMG 090304-MR	CNMG 321-MR	9,525	3,18	0,40	3,81	2,00	0,40	4,00	0,20	0,10	0,30
CNMG 090308-MR	CNMG 322-MR	9,525	3,18	0,80	3,81	2,00	0,50	4,00	0,30	0,15	0,50
CNMG 120404-MR	CNMG 431-MR	12,700	4,76	0,40	5,16	3,00	0,40	5,50	0,20	0,10	0,30
CNMG 120408-MR	CNMG 432-MR	12,700	4,76	0,80	5,16	3,00	0,50	5,50	0,30	0,15	0,50
CNMG 120412-MR	CNMG 433-MR	12,700	4,76	1,20	5,16	3,00	0,80	5,50	0,35	0,18	0,60
CNMG 120416-MR	CNMG 434-MR	12,700	4,76	1,60	5,16	3,00	1,00	5,50	0,40	0,23	0,65
CNMG 160608-MR	CNMG 542-MR	15,875	6,35	0,80	6,35	4,00	0,50	7,20	0,30	0,15	0,50
CNMG 160612-MR	CNMG 543-MR	15,875	6,35	1,20	6,35	4,00	0,80	7,20	0,35	0,18	0,60
CNMG 160616-MR	CNMG 544-MR	15,875	6,35	1,60	6,35	4,00	1,00	7,20	0,40	0,23	0,65
CNMG 190612-MR	CNMG 643-MR	19,050	6,35	1,20	7,94	4,00	0,80	8,60	0,35	0,18	0,60
CNMG 190616-MR	CNMG 644-MR	19,050	6,35	1,60	7,94	4,00	1,00	8,60	0,40	0,23	0,65
CNMG 120404-PM	CNMG 431-PM	12,700	4,76	0,40	5,16	3,00	0,40	5,50	0,20	0,10	0,30
CNMG 120408-PM	CNMG 432-PM	12,700	4,76	0,80	5,16	3,00	0,50	5,50	0,30	0,15	0,50
CNMG 120412-PM	CNMG 433-PM	12,700	4,76	1,20	5,16	3,00	0,80	5,50	0,35	0,18	0,60
CNMG 120416-PM	CNMG 434-PM	12,700	4,76	1,60	5,16	3,00	1,00	5,50	0,40	0,23	0,65
CNMG 120404-ST	CNMG 431-ST	12,700	4,76	0,40	5,16	2,50	0,20	5,00	0,22	0,15	0,26
CNMG 120408-ST	CNMG 432-ST	12,700	4,76	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,50
CNMG 120412-ST	CNMG 433-ST	12,700	4,76	1,20	5,16	3,00	0,30	6,00	0,40	0,15	0,60
CNMG 120416-ST	CNMG 434-ST	12,700	4,76	1,60	5,16	3,00	0,30	6,00	0,45	0,20	0,70
CNMG 160608-ST	CNMG 542-ST	15,875	6,35	0,80	6,35	4,00	0,20	8,00	0,35	0,15	0,50
CNMG 160612-ST	CNMG 543-ST	15,875	6,35	1,20	6,35	4,00	0,30	8,00	0,40	0,15	0,60
CNMG 160616-ST	CNMG 544-ST	15,875	6,35	1,60	6,35	4,00	0,30	8,00	0,45	0,20	0,70
CNMG 190612-ST	CNMG 643-ST	19,050	6,35	1,20	7,94	4,50	0,30	9,00	0,40	0,15	0,60
CNMG 190616-ST	CNMG 644-ST	19,050	6,35	1,60	7,94	4,50	0,30	9,00	0,45	0,20	0,70
CNMG 120408-MW	CNMG 432-MW	12,700	4,76	0,80	5,16	3,00	0,50	5,00	0,30	0,15	0,60
CNMG 120412-MW	CNMG 433-MW	12,700	4,76	1,20	5,16	3,50	0,80	6,00	0,50	0,20	0,90
CNMG 120612-MW	CNMG 443-MW	12,700	6,35	1,20	5,16	3,50	0,80	6,00	0,50	0,20	0,90

CN - RHOMBIC 80° NEGATIVE

RÔMBICA 80° NEGATIVA | RÓMBICA 80° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD					PVD	CVD			PVD				UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 CNMG-MA Medium to Roughing	1124504	CNMG 160612-MA		⊗	⊗	⊗	⊗																			
	1123785	CNMG 160616-MA	○	⊗	⊗	⊗	⊗																			
 CNMG-SS Roughing to Medium	1121474	CNMG 090304-SS									⊗	⊗	⊗	⊗								⊗		⊗		
	1121476	CNMG 090308-SS									⊗	⊗	⊗	⊗								⊗		⊗		
	1121243	CNMG 120404-SS									⊗	⊗	⊗	⊗								⊗		⊗		
	1121201	CNMG 120408-SS									⊗	⊗	⊗									⊗		⊗		
	1121202	CNMG 120412-SS									⊗	⊗	⊗	⊗								⊗		⊗		
	1121487	CNMG 120416-SS									⊗	⊗	⊗											⊗		
	1121332	CNMG 160608-SS									⊗	⊗	⊗											⊗		
	1121333	CNMG 160612-SS									⊗	⊗	⊗											⊗		
	1121363	CNMG 190612-SS									⊗	⊗	⊗											⊗		
	1121364	CNMG 190616-SS									⊗	⊗	⊗											⊗		
 CNMG-HR Roughing	1121193	CNMG 120408-HR	⊗	⊗	⊗		⊗												⊗	⊗						
	1121192	CNMG 120412-HR	⊗		⊗		⊗													⊗	⊗					
	1121484	CNMG 120416-HR			⊗	⊗	⊗													⊗	⊗	⊗				
	1121331	CNMG 160608-HR		⊗	⊗	⊗	○		⊗											⊗	⊗					
	1121358	CNMG 160612-HR		⊗	⊗		⊗		⊗											⊗	⊗					
	1121489	CNMG 160616-HR		⊗	⊗	⊗	⊗													⊗	⊗	⊗				
	1121359	CNMG 190612-HR		⊗	○	⊗	○		⊗											⊗	⊗					
	1121360	CNMG 190616-HR			○	⊗	⊗		⊗											⊗	⊗					
	1121636	CNMG 250924-HR					○		⊗																	

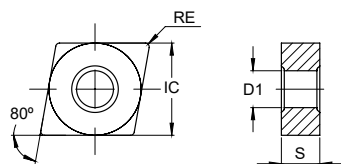
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CNMG 160612-MA	CNMG 543-MA	15,875	6,35	1,20	6,35	4,00	1,50	8,00	0,40	0,20	0,65
CNMG 160616-MA	CNMG 544-MA	15,875	6,35	1,60	6,35	5,00	1,60	8,00	0,50	0,25	0,70
CNMG 090304-SS	CNMG 321-SS	9,525	3,18	0,40	3,81	2,00	0,50	2,50	0,20	0,10	0,25
CNMG 090308-SS	CNMG 322-SS	9,525	3,18	0,80	3,81	2,00	0,50	2,50	0,25	0,12	0,45
CNMG 120404-SS	CNMG 431-SS	12,700	4,76	0,40	5,16	3,00	0,50	5,70	0,20	0,10	0,25
CNMG 120408-SS	CNMG 432-SS	12,700	4,76	0,80	5,16	3,00	0,50	5,70	0,25	0,12	0,45
CNMG 120412-SS	CNMG 433-SS	12,700	4,76	1,20	5,16	3,00	0,50	5,70	0,30	0,15	0,60
CNMG 120416-SS	CNMG 434-SS	12,700	4,76	1,60	5,16	3,00	0,50	5,70	0,37	0,18	0,65
CNMG 160608-SS	CNMG 542-SS	15,875	6,35	0,80	6,35	4,00	0,50	7,20	0,25	0,12	0,45
CNMG 160612-SS	CNMG 543-SS	15,875	6,35	1,20	6,35	4,00	0,50	7,20	0,30	0,15	0,60
CNMG 190612-SS	CNMG 643-SS	19,050	6,35	1,20	7,94	4,00	0,50	8,50	0,30	0,15	0,60
CNMG 190616-SS	CNMG 644-SS	19,050	6,35	1,60	7,94	4,00	0,50	8,50	0,37	0,18	0,65
CNMG 120408-HR	CNMG 432-HR	12,700	4,76	0,80	5,16	4,00	1,00	7,00	0,35	0,20	0,55
CNMG 120412-HR	CNMG 433-HR	12,700	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,60
CNMG 120416-HR	CNMG 434-HR	12,700	4,76	1,60	5,16	4,00	1,50	7,00	0,50	0,32	0,75
CNMG 160608-HR	CNMG 542-HR	15,875	6,35	0,80	6,35	5,00	1,00	8,00	0,35	0,20	0,55
CNMG 160612-HR	CNMG 543-HR	15,875	6,35	1,20	6,35	5,00	1,00	8,00	0,40	0,25	0,60
CNMG 160616-HR	CNMG 544-HR	15,875	6,35	1,60	6,35	5,00	1,50	8,00	0,50	0,32	0,75
CNMG 190612-HR	CNMG 643-HR	19,050	6,35	1,20	7,94	5,50	2,00	10,00	0,40	0,25	0,70
CNMG 190616-HR	CNMG 644-HR	19,050	6,35	1,60	7,94	5,50	2,00	10,00	0,50	0,32	0,80
CNMG 250924-HR	CNMG 866-HR	25,400	9,52	2,40	9,12	6,00	2,00	15,00	0,60	0,40	1,00

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes





Spare Parts

Technical Data

CN - RHOMBIC 80° NEGATIVE

RÔMBICA 80° NEGATIVA | RÓMBICA 80° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 CNMM-RP Roughing	1124054	CNMM 160608-RP	⊗	○	⊗	○																				
	1124055	CNMM 160612-RP	⊗	⊗	⊗	⊗																				
	1124056	CNMM 160616-RP	○	⊗	○	⊗	⊗					⊗														
Positive inserts	1124000	CNMM 190612-RP	⊗	○	⊗	○																				
	1123999	CNMM 190616-RP	⊗	○	⊗	⊗																				
	1123676	CNMM 190624-RP			○	⊗	○																			
 CNMM-GR Roughing	1124597	CNMM 120408-GR			⊗	⊗	⊗																			⊗
	1124596	CNMM 120412-GR			⊗	⊗	⊗																			
 CNMM-HY Heavy to Roughing	1121608	CNMM 190612-HY			○		⊗																			
	1121252	CNMM 190616-HY	⊗	○			○						⊗													
	1121434	CNMM 190624-HY			○	⊗	○		⊗																	
 CNMM-HZ Heavy to Roughing	1121607	CNMM 190612-HZ			○	⊗	○																			
	1121251	CNMM 190616-HZ	⊗	○		⊗	○															⊗	⊗			
	1121435	CNMM 190624-HZ	⊗	○		⊗	○		⊗													⊗				
	1121247	CNMM 250924-HZ	⊗	○		⊗			⊗													⊗				

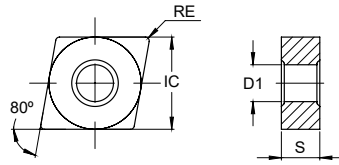
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CNMM 160608-RP	CNMM 542-RP	15,875	6,35	0,80	6,35	3,50	1,00	8,00	0,35	0,20	0,55
CNMM 160612-RP	CNMM 543-RP	15,875	6,35	1,20	6,35	3,50	1,00	8,00	0,25	0,25	0,60
CNMM 160616-RP	CNMM 544-RP	15,875	6,35	1,60	6,35	3,50	1,50	8,00	0,50	0,32	0,75
CNMM 190612-RP	CNMM 643-RP	19,050	6,35	1,20	7,94	5,50	2,00	10,00	0,40	0,25	0,70
CNMM 190616-RP	CNMM 644-RP	19,050	6,35	1,60	7,94	5,50	2,00	10,00	0,50	0,32	0,80
CNMM 190624-RP	CNMM 646-RP	19,050	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
CNMM 120408-GR	CNMM 432-GR	12,700	4,76	0,80	5,16	4,00	1,00	8,00	0,40	0,25	0,65
CNMM 120412-GR	CNMM 433-GR	12,700	4,76	1,20	5,16	5,00	1,50	8,50	0,50	0,30	0,70
CNMM 190612-HY	CNMM 643-HY	19,050	6,35	1,20	7,94	6,00	2,00	12,00	0,50	0,35	0,80
CNMM 190616-HY	CNMM 644-HY	19,050	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00
CNMM 190624-HY	CNMM 646-HY	19,050	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
CNMM 250924-HY	CNMM 866-HY	25,400	9,52	2,40	9,12	8,00	2,50	15,00	0,70	0,40	1,40
CNMM 190612-HZ	CNMM 643-HZ	19,050	6,35	1,20	7,94	10,00	2,40	12,00	0,65	0,50	0,80
CNMM 190616-HZ	CNMM 644-HZ	19,050	6,35	1,60	7,94	10,00	2,40	12,00	0,80	0,50	1,10
CNMM 190624-HZ	CNMM 646-HZ	19,050	6,35	2,40	7,94	10,00	3,20	12,00	1,00	0,60	1,60
CNMM 250924-HZ	CNMM 866-HZ	25,400	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

DN - RHOMBIC 55° NEGATIVE

RÔMBICA 55° NEGATIVA | RÓMBICA 55° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning





External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K			N	S						
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 DNMA Roughing	1120975	DNMA 110404																									
	1120312	DNMA 150404																									
	1121178	DNMA 150412																									
	1121496	DNMA 150416																									
	1120314	DNMA 150604																									
	1120315	DNMA 150608																									
	1120316	DNMA 150612																									
	1120317	DNMA 150616																									
 DNMG-MF Finishing	1121497	DNMG 110404-MF																									
	1121499	DNMG 110408-MF																									
	1121502	DNMG 150404-MF																									
	1121504	DNMG 150408-MF																									
	1121507	DNMG 150412-MF																									
	1121515	DNMG 150604-MF																									
	1121516	DNMG 150608-MF																									
1121517	DNMG 150612-MF																										
DNMG-MF1 Finishing	1125073	DNMG 110412-MF1																									
 DNMG-MS Medium to Finishing	1121503	DNMG 150404-MS																									
	1121505	DNMG 150408-MS																									
	1121509	DNMG 150412-MS																									
	1121513	DNMG 150416-MS																									
	1121927	DNMG 150604-MS																									
	1121928	DNMG 150608-MS																									
	1122030	DNMG 150612-MS																									
 DNMG-SF Medium to Finishing	1123749	DNMG 110404-SF																									
	1123750	DNMG 110408-SF																									
	1123751	DNMG 150404-SF																									
	1123752	DNMG 150408-SF																									
	1123753	DNMG 150412-SF																									
	1123754	DNMG 150604-SF																									
	1123755	DNMG 150608-SF																									
	1123756	DNMG 150612-SF																									

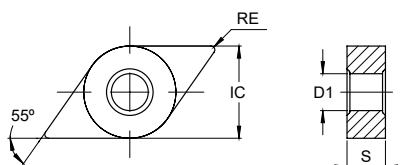
⊕ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊗ Stock items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock







ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DNMA 110404	DNMA 331	9,525	4,76	0,40	3,81	2,00	0,20	3,50	0,15	0,10	0,30
DNMA 150404	DNMA 431	12,700	4,76	0,40	5,16	3,00	0,20	4,00	0,15	0,10	0,30
DNMA 150412	DNMA 433	12,700	4,76	1,20	5,16	3,00	0,30	6,00	0,45	0,20	0,80
DNMA 150416	DNMA 434	12,700	4,76	1,60	5,16	3,00	0,30	6,00	0,55	0,20	1,00
DNMA 150604	DNMA 441	12,700	6,35	0,40	5,16	3,00	0,20	4,00	0,15	0,10	0,30
DNMA 150608	DNMA 442	12,700	6,35	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,60
DNMA 150612	DNMA 443	12,700	6,35	1,20	5,16	3,00	0,30	6,00	0,45	0,20	0,80
DNMA 150616	DNMA 444	12,700	6,35	1,60	5,16	3,00	0,30	6,00	0,55	0,20	1,00
DNMG 110404-MF	DNMG 331-MF	9,525	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,25
DNMG 110408-MF	DNMG 332-MF	9,525	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
DNMG 150404-MF	DNMG 431-MF	12,700	4,76	0,40	5,16	0,40	0,15	1,50	0,15	0,05	0,25
DNMG 150408-MF	DNMG 432-MF	12,700	4,76	0,80	5,16	0,40	0,20	1,50	0,20	0,10	0,40
DNMG 150412-MF	DNMG 433-MF	12,700	4,76	1,20	5,16	0,80	0,25	2,50	0,25	0,15	0,50
DNMG 150604-MF	DNMG 441-MF	12,700	6,35	0,40	5,16	0,40	0,10	1,50	0,15	0,05	0,25
DNMG 150608-MF	DNMG 442-MF	12,700	6,35	0,80	5,16	0,40	0,10	1,50	0,20	0,10	0,40
DNMG 150612-MF	DNMG 443-MF	12,700	6,35	1,20	5,16	0,80	0,20	2,50	0,25	0,15	0,50
DNMG 110412-MF1	DNMG 333-MF1	9,525	4,76	1,20	3,81	0,80	0,30	2,50	0,20	0,10	0,30
DNMG 150404-MS	DNMG 431-MS	12,700	4,76	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
DNMG 150408-MS	DNMG 432-MS	12,700	4,76	0,80	5,16	2,00	0,30	3,80	0,25	0,10	0,40
DNMG 150412-MS	DNMG 433-MS	12,700	4,76	1,20	5,16	2,50	0,40	4,00	0,30	0,15	0,60
DNMG 150416-MS	DNMG 434-MS	12,700	4,76	1,60	5,16	2,80	0,40	4,50	0,40	0,15	0,80
DNMG 150604-MS	DNMG 441-MS	12,700	6,35	0,40	5,16	1,50	0,20	3,60	0,15	0,10	0,20
DNMG 150608-MS	DNMG 442-MS	12,700	6,35	0,80	5,16	2,00	0,30	4,00	0,25	0,10	0,40
DNMG 150612-MS	DNMG 443-MS	12,700	6,35	1,20	5,16	2,80	0,40	4,50	0,30	0,15	0,60
DNMG 110404-SF	DNMG 331-SF	9,525	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
DNMG 110408-SF	DNMG 332-SF	9,525	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
DNMG 150404-SF	DNMG 431-SF	12,700	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23
DNMG 150408-SF	DNMG 432-SF	12,700	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38
DNMG 150412-SF	DNMG 433-SF	12,700	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
DNMG 150604-SF	DNMG 441-SF	12,700	6,35	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23
DNMG 150608-SF	DNMG 442-SF	12,700	6,35	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38
DNMG 150612-SF	DNMG 443-SF	12,700	6,35	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55

DN - RHOMBIC 55° NEGATIVE

RÔMBICA 55° NEGATIVA | RÓMBICA 55° NEGATIVA

TURNING

			P							M							K				N	S						
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
 DNMG-LC Medium to Finishing	1123662	DNMG 150404-LC	⊗	⊗	⊗	⊗	⊗																					
	1123663	DNMG 150408-LC	⊗	⊗	⊗	⊗	⊗																					
	1123664	DNMG 150412-LC	⊗	⊗	⊗	⊗	⊗																					
	1122020	DNMG 150604-LC	⊗	⊗	⊗	⊗	⊗																					
	1122007	DNMG 150608-LC	⊗	⊗	⊗	⊗	⊗																					
	1123655	DNMG 150612-LC	⊗	⊗	⊗	⊗	⊗																					
 DNMG-GS Medium to Finishing	1124688	DNMG 110404-GS												⊗			⊗						⊗			⊗		
	1124689	DNMG 110408-GS												⊗			⊗						⊗			⊗		
	1124511	DNMG 150404-GS												⊗			⊗						⊗			⊗		
	1124512	DNMG 150408-GS												⊗			⊗						⊗			⊗		
	1124513	DNMG 150412-GS												⊗			⊗						⊗			⊗		
	1124682	DNMG 150604-GS												⊗			⊗						⊗			⊗		
	1124683	DNMG 150608-GS												⊗			⊗						⊗			⊗		
	1124684	DNMG 150612-GS												⊗			⊗						⊗			⊗		
 DNMG-MR Medium	1121498	DNMG 110404-MR	⊗	⊗		⊗																						
	1121500	DNMG 110408-MR		⊗		⊗																						
	1121218	DNMG 150404-MR		⊗		⊗			⊗													⊗						
	1121219	DNMG 150408-MR	⊗	⊗	⊗	⊗			⊗																			
	1121508	DNMG 150412-MR			⊗		⊗															⊗						
	1121224	DNMG 150604-MR	⊗	⊗		⊗																⊗						
	1121328	DNMG 150608-MR			⊗	⊗			⊗																			
	1121518	DNMG 150612-MR	⊗	⊗		⊗																⊗						
	1121522	DNMG 150616-MR					⊗																					
 DNMG-PM Medium	1123924	DNMG 150404-PM	⊗	⊗	⊗	⊗	⊗																					
	1123916	DNMG 150408-PM	⊗		⊗		⊗																					
	1123925	DNMG 150412-PM	⊗	⊗	⊗	⊗	⊗																					
	1123926	DNMG 150416-PM		⊗	⊗	⊗	⊗																					
	1124065	DNMG 150604-PM	⊗	⊗	⊗	⊗	⊗																					
	1123777	DNMG 150608-PM	⊗	⊗	⊗	⊗	⊗																					
	1124066	DNMG 150612-PM	⊗	⊗	⊗	⊗	⊗																					
	1124082	DNMG 150616-PM	⊗	⊗	⊗	⊗	⊗																					

⊗ First choice | 1ª Escolha | 1ª Opción

⊖ Available under request | Disponível sob consulta | Disponible bajo consulta

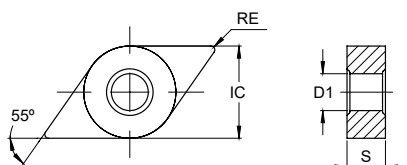
Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Spare Parts

Technical Data



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DNMG 150404-LC	DNMG 431-LC	12,700	4,76	0,40	5,16	1,00	0,40	2,50	0,15	0,07	0,30
DNMG 150408-LC	DNMG 432-LC	12,700	4,76	0,80	5,16	1,50	0,40	2,50	0,20	0,10	0,40
DNMG 150412-LC	DNMG 433-LC	12,700	4,76	1,20	5,16	2,00	0,80	3,00	0,25	0,15	0,50
DNMG 150604-LC	DNMG 441-LC	12,700	6,35	0,40	5,16	1,50	0,40	3,00	0,15	0,07	0,30
DNMG 150608-LC	DNMG 442-LC	12,700	6,35	0,80	5,16	2,00	0,40	3,00	0,20	0,10	0,40
DNMG 150612-LC	DNMG 443-LC	12,700	6,35	1,20	5,16	2,50	0,80	3,50	0,25	0,15	0,50
DNMG 110404-GS	DNMG 331-GS	9,525	4,76	0,40	3,81	1,50	0,15	2,00	0,20	0,10	0,25
DNMG 110408-GS	DNMG 332-GS	9,525	4,76	0,80	3,81	2,00	0,20	2,50	0,25	0,10	0,30
DNMG 150404-GS	DNMG 431-GS	12,700	4,76	0,40	5,16	1,50	0,15	2,00	0,20	0,10	0,25
DNMG 150408-GS	DNMG 432-GS	12,700	4,76	0,80	5,16	2,00	0,20	2,50	0,25	0,10	0,30
DNMG 150412-GS	DNMG 433-GS	12,700	4,76	1,20	5,16	2,50	0,30	3,00	0,30	0,10	0,35
DNMG 150604-GS	DNMG 441-GS	12,700	6,35	0,40	5,16	1,50	0,15	2,00	0,20	0,10	0,25
DNMG 150608-GS	DNMG 442-GS	12,700	6,35	0,80	5,16	2,00	0,20	2,50	0,25	0,10	0,30
DNMG 150612-GS	DNMG 443-GS	12,700	6,35	1,20	5,16	2,50	0,30	3,00	0,30	0,10	0,35
DNMG 110404-MR	DNMG 331-MR	9,525	4,76	0,40	3,81	2,00	0,40	5,00	0,20	0,10	0,30
DNMG 110408-MR	DNMG 332-MR	9,525	4,76	0,80	3,81	2,00	0,50	5,00	0,30	0,15	0,50
DNMG 150404-MR	DNMG 431-MR	12,700	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
DNMG 150408-MR	DNMG 432-MR	12,700	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
DNMG 150412-MR	DNMG 433-MR	12,700	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
DNMG 150604-MR	DNMG 441-MR	12,700	6,35	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
DNMG 150608-MR	DNMG 442-MR	12,700	6,35	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
DNMG 150612-MR	DNMG 443-MR	12,700	6,35	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
DNMG 150616-MR	DNMG 444-MR	12,700	6,35	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
DNMG 150404-PM	DNMG 431-PM	12,700	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
DNMG 150408-PM	DNMG 432-PM	12,700	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
DNMG 150412-PM	DNMG 433-PM	12,700	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
DNMG 150416-PM	DNMG 434-PM	12,700	4,76	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
DNMG 150604-PM	DNMG 441-PM	12,700	6,35	0,40	5,16	2,50	0,50	5,00	0,25	0,15	0,40
DNMG 150608-PM	DNMG 442-PM	12,700	6,35	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
DNMG 150612-PM	DNMG 443-PM	12,700	6,35	1,20	5,16	3,50	0,50	7,00	0,35	0,20	0,60
DNMG 150616-PM	DNMG 444-PM	12,700	6,35	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65

DN - RHOMBIC 55° NEGATIVE

RÔMBICA 55° NEGATIVA | RÓMBICA 55° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N	S													
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD												
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3									
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5530	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920									
 DNMG-ST Medium	1121346	DNMG 110404-ST																	⊗	⊗															
	1121347	DNMG 110408-ST																	⊗	⊗															
	1121255	DNMG 150404-ST																	⊗	⊗															
	1121256	DNMG 150408-ST																	⊗	⊗															
	1121512	DNMG 150412-ST																	⊗	⊗															
	1121514	DNMG 150416-ST																	⊗	⊗															
	1121257	DNMG 150604-ST																	⊗	⊗															
	1121258	DNMG 150608-ST																	⊗	⊗															
	1121521	DNMG 150612-ST																	⊗	⊗															
1121523	DNMG 150616-ST																	⊗	⊗																
 DNMG-MW Medium Wiper	1121374	DNMG 150408-MW			○		○													⊗	⊗														
	1121510	DNMG 150412-MW			○		○														⊗	⊗													
	1121375	DNMG 150608-MW		⊗	○	⊗	⊗														⊗	⊗													
	1121519	DNMG 150612-MW		⊗	○		○														⊗	⊗													
 DNMG-SS Roughing to Medium	1121501	DNMG 110408-SS									⊗		⊗		⊗							⊗		⊗	⊗										
	1121291	DNMG 150404-SS									⊗	⊗	⊗	⊗	⊗							⊗		⊗	⊗										
	1121292	DNMG 150408-SS									⊗	⊗	⊗	⊗	⊗							⊗		⊗	⊗										
	1121511	DNMG 150412-SS									⊗	⊗	⊗	⊗	⊗							⊗		⊗	○										
	1121284	DNMG 150604-SS									⊗	⊗	⊗	⊗	⊗								⊗		⊗	⊗									
1121285	DNMG 150608-SS									⊗	⊗	⊗	⊗	⊗								⊗		⊗	⊗										
1121520	DNMG 150612-SS									⊗	⊗	⊗	⊗	⊗								⊗		⊗	⊗										
1121287	DNMG 150616-SS										⊗													⊗	○										
 DOMX-GS Roughing	1124595	DOMX 1506R1-GS	See our complete solution on pages C-478 to C-481																																
	1124493	DOMX 1506L1-GS																																	
 DNMG-HR Roughing	1121253	DNMG 150408-HR	⊗	○	⊗	○			⊗											⊗	⊗														
	1121506	DNMG 150412-HR	⊗	○	⊗	○		○													⊗	⊗	⊗												
	1121254	DNMG 150608-HR	⊗	⊗	⊗	⊗		⊗													⊗	⊗													
	1121362	DNMG 150612-HR	⊗	○	⊗	⊗		⊗													⊗	⊗													
1121340	DNMG 150616-HR			○	⊗	⊗		⊗												⊗	⊗	⊗													
 DNMM-RP Roughing	1124205	DNMM 150612-RP	⊗	○	⊗	○																													

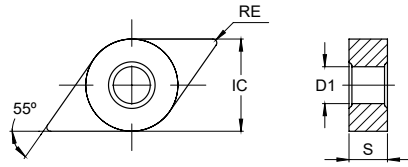
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DNMG 110404-ST	DNMG 331-ST	9,525	4,76	0,40	3,81	2,00	0,20	3,50	0,20	0,15	0,30
DNMG 110408-ST	DNMG 332-ST	9,525	4,76	0,80	3,81	2,00	0,20	3,50	0,35	0,15	0,50
DNMG 150404-ST	DNMG 431-ST	12,700	4,76	0,40	5,16	2,50	0,20	5,00	0,20	0,15	0,30
DNMG 150408-ST	DNMG 432-ST	12,700	4,76	0,80	5,16	2,50	0,50	5,00	0,35	0,15	0,50
DNMG 150412-ST	DNMG 433-ST	12,700	4,76	1,20	5,16	3,00	0,50	6,00	0,50	0,25	0,70
DNMG 150416-ST	DNMG 434-ST	12,700	4,76	1,60	5,16	3,00	0,30	6,00	0,60	0,25	1,00
DNMG 150604-ST	DNMG 441-ST	12,700	6,35	0,40	5,16	2,50	0,20	5,00	0,20	0,15	0,30
DNMG 150608-ST	DNMG 442-ST	12,700	6,35	0,80	5,16	2,50	0,20	5,00	0,35	0,15	0,50
DNMG 150612-ST	DNMG 443-ST	12,700	6,35	1,20	5,16	3,00	0,30	6,00	0,50	0,15	0,70
DNMG 150616-ST	DNMG 444-ST	12,700	6,35	1,60	5,16	3,00	0,30	6,00	0,60	0,25	1,00
DNMG 150408-MW	DNMG 432-MW	12,700	4,76	0,80	5,16	2,50	0,30	4,00	0,35	0,15	0,60
DNMG 150412-MW	DNMG 433-MW	12,700	4,76	1,20	5,16	3,00	0,50	5,00	0,50	0,25	0,90
DNMG 150608-MW	DNMG 442-MW	12,700	6,35	0,80	5,16	3,00	0,30	4,50	0,35	0,15	0,60
DNMG 150612-MW	DNMG 443-MW	12,700	6,35	1,20	5,16	3,50	0,50	5,50	0,50	0,25	0,90
DNMG 110408-SS	DNMG 332-SS	12,700	4,76	0,80	3,81	2,00	0,50	4,40	0,25	0,12	0,45
DNMG 150404-SS	DNMG 431-SS	12,700	4,76	0,40	5,16	3,00	0,30	6,00	0,25	0,10	0,30
DNMG 150408-SS	DNMG 432-SS	12,700	4,76	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45
DNMG 150412-SS	DNMG 433-SS	12,700	4,76	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60
DNMG 150604-SS	DNMG 441-SS	12,700	6,35	0,40	5,16	3,00	0,30	6,00	0,25	0,10	0,30
DNMG 150608-SS	DNMG 442-SS	12,700	6,35	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45
DNMG 150612-SS	DNMG 443-SS	12,700	6,35	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60
DNMG 150616-SS	DNMG 444-SS	12,700	6,35	1,60	5,16	3,00	0,50	6,40	0,50	0,20	1,00
DOMX 1506R1-GS	DOMX44R1-GS	12,70	6,35	0,80	5,16	1,50	0,30	1,50	0,30	0,20	0,50
DOMX 1506L1-GS	DOMX 44L1-GS	12,70	6,35	0,80	5,16	1,50	0,30	1,50	0,30	0,20	0,50
DNMG 150408-HR	DNMG 432-HR	12,700	4,76	0,80	5,16	4,00	0,80	6,00	0,35	0,20	0,55
DNMG 150412-HR	DNMG 433-HR	12,700	4,76	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70
DNMG 150608-HR	DNMG 442-HR	12,700	6,35	0,80	5,16	4,00	0,80	6,00	0,35	0,20	0,55
DNMG 150612-HR	DNMG 443-HR	12,700	6,35	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70
DNMG 150616-HR	DNMG 444-HR	12,700	6,35	1,60	5,16	4,00	1,50	6,00	0,50	0,30	0,80
DNMM 150612-RP	DNMM 443-RP	12,700	6,35	1,20	5,16	4,00	1,00	6,00	0,40	0,25	0,70

DN - RHOMBIC 55° NEGATIVE

RÔMBICA 55° NEGATIVA | RÓMBICA 55° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N	S					
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 DNMX-02 Medium to Finishing	1120351	DNMX 150604-L02			⊗	⊗	⊗																				
	1120353	DNMX 150604-R02		⊗	⊗	⊗	⊗																				
	1120355	DNMX 150608-L02		⊗	○	⊗	⊗																				
	1120357	DNMX 150608-R02		⊗	⊗	⊗	⊗																				
 DNMX-03 Medium	1123983	DNMX 150604-L03		⊗	○		○																				
	1123815	DNMX 150604-R03		⊗	○	⊗	○																				
	1123796	DNMX 150608-L03			○	⊗	○																				
	1123795	DNMX 150608-R03		⊗	⊗	⊗	⊗																				
 DNMX-01 Roughing to Medium	1120348	DNMX 150408-L01			○		○																				
	1120349	DNMX 150408-R01			○		○																				
	1120350	DNMX 150604-L01			○		○																				
	1120352	DNMX 150604-R01		⊗	○	⊗	○																				
	1120354	DNMX 150608-L01			○	⊗	○																				
	1120356	DNMX 150608-R01			○	⊗	○																				

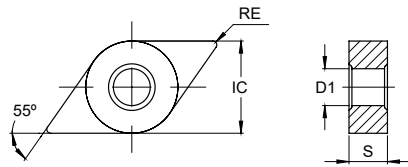
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DNMX 150604-L02	DNMX 441-L02	12,700	6,35	0,40	5,16	2,50	0,70	5,00	0,20	0,14	0,25
DNMX 150604-R02	DNMX 441-R02	12,700	6,35	0,40	5,16	2,50	0,70	5,00	0,20	0,14	0,25
DNMX 150608-L02	DNMX 442-L02	12,700	6,35	0,80	5,16	3,00	0,80	5,00	0,35	0,14	0,50
DNMX 150608-R02	DNMX 442-R02	12,700	6,35	0,80	5,16	3,00	0,80	5,00	0,35	0,14	0,50
DNMX 150604-L03	DNMX 441-L03	12,700	6,35	0,40	5,16	2,70	0,80	5,50	0,20	0,15	0,25
DNMX 150604-R03	DNMX 441-R03	12,700	6,35	0,40	5,16	2,70	0,80	5,50	0,20	0,15	0,25
DNMX 150608-L03	DNMX 442-L03	12,700	6,35	0,80	5,16	3,20	1,00	6,00	0,35	0,16	0,50
DNMX 150608-R03	DNMX 442-R03	12,700	6,35	0,80	5,16	3,20	1,00	6,00	0,35	0,16	0,50
DNMX 150408-L01	DNMX 432-L01	12,700	4,76	0,80	5,16	2,50	1,00	5,00	0,35	0,20	0,50
DNMX 150408-R01	DNMX 432-R01	12,700	4,76	0,80	5,16	2,50	1,00	5,00	0,35	0,20	0,50
DNMX 150604-L01	DNMX 441-L01	12,700	6,35	0,40	5,16	3,00	1,50	6,00	0,25	0,15	0,30
DNMX 150604-R01	DNMX 441-R01	12,700	6,35	0,40	5,16	3,00	1,50	6,00	0,25	0,15	0,30
DNMX 150608-L01	DNMX 442-L01	12,700	6,35	0,80	5,16	3,50	2,00	6,50	0,35	0,20	0,50
DNMX 150608-R01	DNMX 442-R01	12,700	6,35	0,80	5,16	3,50	2,00	6,50	0,35	0,20	0,50

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes



Spare Parts

Technical Data

KN - PARALLELOGRAM 55° NEGATIVE

PARALELOGRAMA 55° NEGATIVA | PARALELOGRAMO 55° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
	1120368	KNUX 160405-L01-PD			⊗	⊗	○																			
	1120371	KNUX 160405-R01-PD		⊗	⊗	⊗	⊗	○																		
	1120374	KNUX 160410-L02		⊗	○	⊗	⊗																			
	1120376	KNUX 160410-R02		⊗	○	⊗	⊗																			

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders


Automatic Lathes

Spare Parts

Technical Data

RN - ROUND NEGATIVE

REDONDA NEGATIVA | REDONDA NEGATIVA

			P							M							K				N	S				
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
	1120439	RNMG 090300-ST				⊗	⊗																			
	1120440	RNMG 120400-ST				⊗																				
	1120441	RNMG 150600-ST					○																			
	1120442	RNMG 190600-ST				⊗	○																			
	1120443	RNMG 250900-ST					○														⊗					

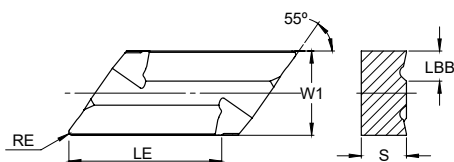
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

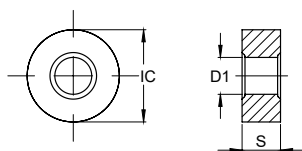
Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)					Cutting Conditions Condições de Corte Condiciones de Corte					
		LE	W1	RE	S	LBB	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
KNUX 160405-L01	KNUX 160405-L01	16,50	9,525	0,5	4,76	2,5	3,00	1,00	6,00	0,30	0,20	0,35
KNUX 160405-R01	KNUX 160405-R01	16,50	9,525	0,5	4,76	2,5	3,00	1,00	6,00	0,30	0,20	0,35
KNUX 160410-L02	KNUX 160410-L02	16,50	9,525	1,0	4,76	3,2	4,00	1,50	6,00	0,50	0,40	0,70
KNUX 160410-R02	KNUX 160410-R02	16,50	9,525	1,0	4,76	3,2	4,00	1,50	6,00	0,50	0,40	0,70



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
RNMG 090300-ST	RNMG 320-ST	9,525	3,18	-	3,81	2,30	0,90	4,50	0,30	0,10	0,90
RNMG 120400-ST	RNMG 430-ST	12,700	4,76	-	5,16	3,00	1,20	4,80	0,40	0,12	1,20
RNMG 150600-ST	RNMG 540-ST	15,875	6,35	-	6,35	3,80	1,50	7,50	0,50	0,15	1,50
RNMG 190600-ST	RNMG 640-ST	19,050	6,35	-	7,94	4,50	1,90	7,60	0,65	0,20	1,90
RNMG 250900-ST	RNMG 860-ST	25,400	9,52	-	9,12	6,30	2,50	10,00	0,80	0,25	2,50

SN - SQUARE 90° NEGATIVE

QUADRADA 90° NEGATIVA | ESQUADRA 90° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts







Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

			P							M							K				N	S				
			CVD						PVD	CVD			PVD				UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 SNMA Roughing	1121070	SNMA 090304																	⊗	⊗						
	1120474	SNMA 090308																	⊗	⊗						
	1120475	SNMA 120404																	⊗	⊗						
	1120476	SNMA 120408																	⊗	⊗						
	1120478	SNMA 120412																	⊗	⊗						
	1120479	SNMA 120416																	⊗	⊗						
	1120481	SNMA 150412																	⊗	⊗						
	1121525	SNMA 150612																	⊗	⊗						
	1120482	SNMA 190612																	⊗	⊗						
	1120483	SNMA 190616																	⊗	⊗						
1120485	SNMA 190624																	⊗	⊗							
1120486	SNMA 250724																	○	⊗	⊗						
 SNMG-MF Finishing	1121528	SNMG 120404-MF	⊗	○	⊗	⊗																				
	1121530	SNMG 120408-MF	⊗	○	⊗	○																				
	1121531	SNMG 120412-MF	⊗	⊗	⊗	○																				
 SNMG-SF Medium to Finishing	1123874	SNMG 120404-SF									⊗	⊗		⊗	⊗		⊗						⊗	⊗	⊗	
	1123875	SNMG 120408-SF									⊗	⊗		⊗	⊗	⊗							⊗	⊗	⊗	
	1123876	SNMG 120412-SF									⊗	⊗		⊗	⊗	⊗							⊗	⊗	⊗	
 SNMG-GS Medium to Finishing	1124556	SNMG 120408-GS													⊗		⊗						⊗	⊗	⊗	
	1124557	SNMG 120412-GS													⊗		⊗						⊗	⊗	⊗	
	1124558	SNMG 120416-GS													⊗		⊗						⊗	⊗	⊗	
 SNMG-MR Medium	1121529	SNMG 120404-MR	⊗	○	⊗	⊗															⊗					
	1121179	SNMG 120408-MR	⊗	⊗	⊗	⊗			⊗													⊗				
	1121311	SNMG 120412-MR	⊗	⊗	⊗	⊗			⊗													⊗				
	1121357	SNMG 120416-MR			○	⊗	⊗															⊗				
	1121533	SNMG 150608-MR	⊗	○	⊗	○			⊗																	
Automatic Lathes	1121536	SNMG 150612-MR	⊗	⊗	⊗	⊗			⊗																	
	1121540	SNMG 150616-MR					○																			
	1121543	SNMG 190612-MR			○	⊗			⊗													⊗				
	1121546	SNMG 190616-MR			○	⊗	⊗		⊗													⊗				
 SNMG-PM Medium	1124083	SNMG 120404-PM	⊗		⊗	⊗	⊗																			
	1124084	SNMG 120408-PM	⊗	⊗	⊗	⊗	⊗																			
	1124085	SNMG 120412-PM	⊗	⊗	⊗	⊗	⊗																			

⊗ First choice | 1ª Escolha | 1ª Opción

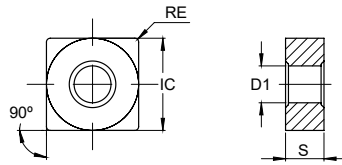
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Technical Data



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SNMA 090304	SNMA 321	9,525	3,18	0,40	3,81	2,50	0,20	4,50	0,20	0,15	0,30
SNMA 090308	SNMA 322	9,525	3,18	0,80	3,81	2,50	0,40	4,50	0,40	0,20	0,60
SNMA 120404	SNMA 431	12,700	4,76	0,40	5,16	4,00	0,20	8,00	0,20	0,15	0,30
SNMA 120408	SNMA 432	12,700	4,76	0,80	5,16	4,00	0,20	8,00	0,40	0,20	0,60
SNMA 120412	SNMA 433	12,700	4,76	1,20	5,16	4,00	0,30	8,00	0,45	0,20	0,80
SNMA 120416	SNMA 434	12,700	4,76	1,60	5,16	4,00	0,30	8,00	0,55	0,20	1,00
SNMA 150412	SNMA 533	15,875	4,76	1,20	6,35	5,00	0,30	9,00	0,45	0,20	0,80
SNMA 150612	SNMA 543	15,875	6,35	1,20	6,35	5,00	0,30	10,00	0,45	0,20	0,80
SNMA 190612	SNMA 643	19,050	6,35	1,20	7,94	6,00	0,30	12,00	0,45	0,20	0,80
SNMA 190616	SNMA 644	19,050	6,35	1,60	7,94	6,00	0,30	12,00	0,55	0,20	1,00
SNMA 190624	SNMA 646	19,050	6,35	2,40	7,94	6,00	0,30	12,00	0,60	0,20	1,20
SNMA 250724	SNMA 856	25,400	7,94	2,40	9,12	6,00	0,40	12,00	0,60	0,20	1,40
SNMG 120404-MF	SNMG 431-MF	12,700	4,76	0,40	5,16	0,40	0,15	1,50	0,10	0,05	0,25
SNMG 120408-MF	SNMG 432-MF	12,700	4,76	0,80	5,16	0,50	0,20	1,50	0,20	0,10	0,40
SNMG 120412-MF	SNMG 433-MF	12,700	4,76	1,20	5,16	0,80	0,25	2,50	0,30	0,20	0,60
SNMG 120404-SF	SNMG 431-SF	12,700	4,76	0,40	5,16	2,00	1,00	4,00	0,15	0,10	0,23
SNMG 120408-SF	SNMG 432-SF	12,700	4,76	0,80	5,16	2,00	1,00	4,00	0,20	0,12	0,38
SNMG 120412-SF	SNMG 433-SF	12,700	4,76	1,20	5,16	2,50	1,00	4,00	0,25	0,15	0,55
SNMG 120408-GS	SNMG 432-GS	12,700	4,76	0,80	5,16	2,00	0,20	3,00	0,30	0,15	0,40
SNMG 120412-GS	SNMG 433-GS	12,700	4,76	1,20	5,16	2,50	0,50	3,50	0,35	0,20	0,50
SNMG 120416-GS	SNMG 434-GS	12,700	4,76	1,60	5,16	3,00	0,50	4,00	0,40	0,20	0,50
SNMG 120404-MR	SNMG 431-MR	12,700	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
SNMG 120408-MR	SNMG 432-MR	12,700	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
SNMG 120412-MR	SNMG 433-MR	12,700	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60
SNMG 120416-MR	SNMG 434-MR	12,700	4,76	1,60	5,16	3,00	1,00	6,00	0,40	0,23	0,65
SNMG 150608-MR	SNMG 542-MR	15,875	6,35	0,80	6,35	4,00	0,60	7,50	0,30	0,15	0,50
SNMG 150612-MR	SNMG 543-MR	15,875	6,35	1,20	6,35	4,00	0,80	7,50	0,35	0,18	0,60
SNMG 150616-MR	SNMG 534-MR	15,875	6,35	1,60	6,35	4,00	1,00	7,50	0,40	0,20	0,70
SNMG 190612-MR	SNMG 643-MR	19,050	6,35	1,20	7,94	5,00	0,80	9,00	0,35	0,18	0,60
SNMG 190616-MR	SNMG 644-MR	19,050	6,35	1,60	7,94	5,00	1,00	9,00	0,40	0,23	0,65
SNMG 120404-PM	SNMG 431-PM	12,70	4,76	0,40	5,16	3,00	0,40	6,00	0,20	0,10	0,30
SNMG 120408-PM	SNMG 432-PM	12,70	4,76	0,80	5,16	3,00	0,50	6,00	0,30	0,15	0,50
SNMG 120412-PM	SNMG 433-PM	12,70	4,76	1,20	5,16	3,00	0,80	6,00	0,35	0,18	0,60

SN - SQUARE 90° NEGATIVE

QUADRADA 90° NEGATIVA | ESQUADRA 90° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning




External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K			N	S						
			CVD						PVD	CVD			PVD				UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5530	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 SNMG-ST Medium	1121338	SNMG 090308-ST																	⊗	⊗							
	1121241	SNMG 120404-ST																	○	⊗							
	1121181	SNMG 120408-ST																	⊗	⊗							
	1121310	SNMG 120412-ST																	⊗	⊗	○						
	1121242	SNMG 120416-ST																	⊗	⊗							
	1121538	SNMG 150612-ST																	○	○							
	1121541	SNMG 150616-ST																	○	⊗							
	1121544	SNMG 190612-ST																	⊗	⊗							
1121548	SNMG 190616-ST																	○	⊗	⊗							
 SNMG-SS Roughing to Medium	1121526	SNMG 090304-SS																								⊗	
	1121527	SNMG 090308-SS																									⊗
	1121365	SNMG 120404-SS										⊗															⊗
	1121315	SNMG 120408-SS									⊗	⊗															⊗
	1121366	SNMG 120412-SS									⊗																⊗
	1121532	SNMG 120416-SS									⊗																
	1121534	SNMG 150608-SS									⊗																
	1121537	SNMG 150612-SS									⊗																
1121547	SNMG 190616-SS									⊗																	
 SNMG-HR Roughing	1121194	SNMG 120408-HR	⊗	○	⊗	⊗			⊗										⊗	⊗	⊗						
	1121195	SNMG 120412-HR	⊗	○	⊗	⊗			⊗										⊗	⊗	⊗						
	1121361	SNMG 120416-HR	⊗	○		⊗			⊗											⊗	⊗	⊗					
	1121535	SNMG 150612-HR				⊗	⊗		⊗													⊗					
	1121539	SNMG 150616-HR				⊗	○		⊗													⊗					
	1121542	SNMG 190612-HR	⊗	⊗	⊗	○			⊗													⊗					
	1121545	SNMG 190616-HR	⊗	○		⊗			⊗													○					
	1124184	SNMG 250724-HR				⊗	○																				
1121638	SNMG 250924-HR				⊗	○		⊗													○						

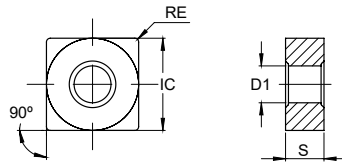
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SNMG 090308-ST	SNMG 322-ST	9,525	3,18	0,80	3,81	2,50	0,20	4,50	0,35	0,15	0,50
SNMG 120404-ST	SNMG 431-ST	12,700	4,76	0,40	5,16	3,00	0,20	6,00	0,20	0,15	0,30
SNMG 120408-ST	SNMG 432-ST	12,700	4,76	0,80	5,16	3,00	0,20	6,00	0,35	0,15	0,50
SNMG 120412-ST	SNMG 433-ST	12,700	4,76	1,20	5,16	3,00	0,30	6,00	0,40	0,15	0,60
SNMG 120416-ST	SNMG 434-ST	12,700	4,76	1,60	5,16	3,00	0,30	6,00	0,45	0,20	0,70
SNMG 150612-ST	SNMG 543-ST	15,875	6,35	1,20	6,35	4,00	0,30	8,00	0,40	0,15	0,64
SNMG 150616-ST	SNMG 544-ST	15,875	6,35	1,60	6,35	4,00	0,30	8,00	0,50	0,20	0,76
SNMG 190612-ST	SNMG 643-ST	19,050	6,35	1,20	7,94	4,50	0,30	9,00	0,40	0,15	0,60
SNMG 190616-ST	SNMG 644-ST	19,050	6,35	1,60	7,94	4,50	0,30	9,00	0,45	0,20	0,70
SNMG 090304-SS	SNMG 321-SS	9,525	3,18	0,40	3,81	2,00	0,50	4,50	0,20	0,10	0,30
SNMG 090308-SS	SNMG 322-SS	9,525	3,18	0,80	3,81	2,00	0,50	4,50	0,25	0,12	0,45
SNMG 120404-SS	SNMG 431-SS	12,700	4,76	0,40	5,16	3,00	0,50	6,40	0,20	0,12	0,30
SNMG 120408-SS	SNMG 432-SS	12,700	4,76	0,80	5,16	3,00	0,50	6,40	0,25	0,12	0,45
SNMG 120412-SS	SNMG 433-SS	12,700	4,76	1,20	5,16	3,00	0,50	6,40	0,30	0,15	0,60
SNMG 120416-SS	SNMG 434-SS	12,700	4,76	1,60	5,16	3,00	0,50	6,40	0,45	0,15	0,80
SNMG 150608-SS	SNMG 542-SS	15,875	6,35	0,80	6,35	4,00	0,50	8,00	0,25	0,12	0,45
SNMG 150612-SS	SNMG 543-SS	15,875	6,35	1,20	6,35	4,00	0,50	8,00	0,30	0,15	0,60
SNMG 190616-SS	SNMG 644-SS	19,050	6,35	1,60	7,94	4,00	0,50	8,00	0,45	0,15	0,80
SNMG 120408-HR	SNMG 432-HR	12,700	4,76	0,80	5,16	4,00	0,80	7,00	0,35	0,20	0,55
SNMG 120412-HR	SNMG 433-HR	12,700	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,70
SNMG 120416-HR	SNMG 434-HR	12,700	4,76	1,60	5,16	4,00	1,50	7,00	0,50	0,32	0,80
SNMG 150612-HR	SNMG 543-HR	15,875	6,35	1,20	6,35	4,00	1,00	8,00	0,40	0,25	0,70
SNMG 150616-HR	SNMG 544-HR	15,875	6,35	1,60	6,35	4,00	1,50	8,00	0,50	0,32	0,80
SNMG 190612-HR	SNMG 643-HR	19,050	6,35	1,20	7,94	5,00	1,00	10,00	0,40	0,25	0,70
SNMG 190616-HR	SNMG 644-HR	19,050	6,35	1,60	7,94	5,00	1,50	10,00	0,50	0,32	0,80
SNMG 250724-HR	SNMG 856-HR	25,400	7,94	2,40	9,12	6,00	2,00	15,00	1,00	0,40	1,20
SNMG 250924-HR	SNMG 866-HR	25,400	9,52	2,40	9,12	6,00	2,00	15,00	1,00	0,40	1,20

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes






Spare Parts

Technical Data

SN - SQUARE 90° NEGATIVE

QUADRADA 90° NEGATIVA | ESQUADRA 90° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD						PVD	CVD			PVD				UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 SNMM-RP Roughing	1124057	SNMM 150608-RP	⊗	⊗	⊗	⊗	⊗																			
	1124058	SNMM 150612-RP	⊗	⊗	⊗	⊗	⊗																			
	1124059	SNMM 150616-RP	⊗	⊗	⊗	⊗	⊗																			
 SNMM-HY Heavy to Roughing	1124001	SNMM 190612-RP	⊗	⊗	⊗	⊗	⊗																			
	1124002	SNMM 190616-RP	⊗	⊗	⊗	⊗	⊗																			
	1124003	SNMM 190624-RP			⊗	⊗	⊗	⊗	⊗																	
 SNMM-HZ Heavy to Roughing	1121606	SNMM 190612-HY	⊗	⊗	⊗	⊗	⊗		⊗			⊗									⊗					
	1121250	SNMM 190616-HY	⊗	⊗	⊗	⊗	⊗					⊗														
	1121452	SNMM 190624-HY			⊗	⊗	⊗					⊗														
 SNMM-HZ Heavy to Roughing	1121160	SNMM 250724-HY			⊗	⊗	⊗		⊗			⊗														
	1121161	SNMM 250924-HY			⊗	⊗	⊗		⊗			⊗														
	1121605	SNMM 190612-HZ		⊗	⊗	⊗	⊗														⊗	⊗				
	1121249	SNMM 190616-HZ		⊗	⊗	⊗	⊗		⊗												⊗	⊗	⊗			
	1121440	SNMM 190624-HZ		⊗	⊗	⊗	⊗	⊗													⊗	⊗	⊗			
 SNMM-HZ Heavy to Roughing	1121158	SNMM 250724-HZ	⊗	⊗	⊗	⊗	⊗		⊗												⊗	⊗				
	1123786	SNMM 250732-HZ		⊗	⊗	⊗	⊗														⊗	⊗				
	1121159	SNMM 250924-HZ	⊗	⊗	⊗	⊗	⊗		⊗												⊗	⊗				

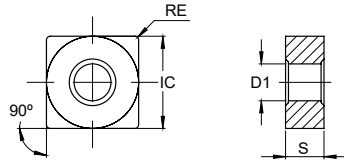
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SNMM 150608-RP	SNMG 542-RP	15,875	6,35	0,80	6,35	4,00	1,00	8,00	0,30	0,15	0,50
SNMM 150612-RP	SNMG 543-RP	15,875	6,35	1,20	6,35	4,00	1,00	8,00	0,40	0,25	0,70
SNMM 150616-RP	SNMG 544-RP	15,875	6,35	1,60	6,35	4,00	1,00	8,00	0,50	0,35	0,90
SNMM 190612-RP	SNMM 643-RP	19,05	6,35	1,20	7,94	5,50	2,00	12,00	0,60	0,30	0,85
SNMM 190616-RP	SNMM 644-RP	19,05	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00
SNMM 190624-RP	SNMM 646-RP	19,05	6,35	2,40	7,94	6,00	2,00	12,00	0,80	0,50	1,50
SNMM 190612-HY	SNMM 643-HY	19,050	6,35	1,20	7,94	6,00	2,00	12,00	0,60	0,35	0,90
SNMM 190616-HY	SNMM 644-HY	19,050	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,20
SNMM 190624-HY	SNMM 646-HY	19,050	6,35	2,40	7,94	6,00	2,00	12,00	1,00	0,60	1,60
SNMM 250724-HY	SNMM 856-HY	25,400	7,94	2,40	9,12	8,50	2,50	15,00	1,00	0,60	1,60
SNMM 250924-HY	SNMM 866-HY	25,400	9,52	2,40	9,12	8,50	3,00	15,00	1,00	0,60	1,60
SNMM 190612-HZ	SNMM 643-HZ	19,050	6,35	1,20	7,94	10,00	2,40	13,00	0,60	0,35	0,90
SNMM 190616-HZ	SNMM 644-HZ	19,050	6,35	1,60	7,94	10,00	2,40	13,00	0,60	0,35	1,20
SNMM 190624-HZ	SNMM 646-HZ	19,050	6,35	2,40	7,94	10,00	3,20	13,00	1,00	0,60	1,60
SNMM 250724-HZ	SNMM 856-HZ	25,400	7,94	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60
SNMM 250732-HZ	SNMM 858-HZ	25,400	7,94	3,20	9,12	10,00	3,20	17,00	1,20	0,80	1,80
SNMM 250924-HZ	SNMM 866-HZ	25,400	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

TN - TRIANGULAR 60° NEGATIVE

TRIANGULAR 60° NEGATIVA | TRIANGULAR 60° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning







External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N	S					
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 <p>TNMA</p> <p>Roughing</p>	1120624	TNMA 110304																	⊗	⊗							
	1120625	TNMA 110308																		⊗	⊗						
	1120626	TNMA 160304																		⊗	⊗						
	1120627	TNMA 160308																		⊗	⊗						
	1120629	TNMA 160404																		⊗	⊗						
	1120630	TNMA 160408																		⊗	⊗						
	1120632	TNMA 160412																		⊗	⊗						
	1121921	TNMA 160416																		⊗	⊗						
	1120634	TNMA 220404																		⊗	⊗						
	1120635	TNMA 220408																		⊗	⊗						
	1120636	TNMA 220412																		⊗	⊗						
	1120637	TNMA 220416																		⊗	⊗						
	1121554	TNMA 270608																		⊗	⊗						
	1121555	TNMA 270612																		⊗	⊗						
1120639	TNMA 270616																		⊗	⊗							
1120640	TNMA 330724																		⊗	⊗							
 <p>NEW TNMG-GSF</p> <p>Fine Finishing</p>	1124857	TNMG 160402-GSF																									
 <p>TNMG-MF</p> <p>Finishing</p>	1121556	TNMG 160404-MF	⊗		⊗	⊗	⊗		⊗																		
	1121558	TNMG 160408-MF	⊗		⊗	⊗	⊗		⊗																		
	1121560	TNMG 160412-MF		⊗	○	⊗	○																				
	1121369	TNMG 220408-MF			○																						
 <p>TNMG-MS</p> <p>Medium to Finishing</p>	1124856	TNMG 160402-MS																									
	1121557	TNMG 160404-MS																									
	1121559	TNMG 160408-MS																									
1121561	TNMG 160412-MS																										
 <p>TNMG-SF</p> <p>Medium to Finishing</p>	1123757	TNMG 160404-SF									⊗	⊗															
	1123719	TNMG 160408-SF									⊗	⊗															
	1123758	TNMG 160412-SF									⊗	⊗		⊗	⊗	⊗											
	1124070	TNMG 220404-SF									⊗	⊗															
1123759	TNMG 220408-SF									⊗	⊗																
1124028	TNMG 220412-SF									⊗	⊗																
 <p>TNMG-LC</p> <p>Medium to Finishing</p>	1123638	TNMG 160404-LC	⊗	⊗	⊗	⊗	⊗																				
	1122025	TNMG 160408-LC		⊗	⊗	⊗	⊗																				
	1123656	TNMG 160412-LC		⊗	○	⊗	○																				
	1123660	TNMG 220408-LC		⊗	○	⊗	○																				
	1123657	TNMG 220412-LC			○	⊗	○																				

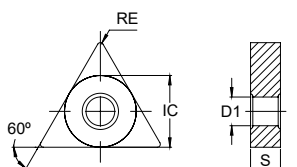
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊗ Stock items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TNMA 110304	TNMA 221	6,350	3,18	0,40	2,26	2,00	0,15	4,00	0,20	0,10	0,30
TNMA 110308	TNMA 222	6,350	3,18	0,80	2,26	2,00	0,15	4,00	0,35	0,15	0,60
TNMA 160304	TNMA 321	9,525	3,18	0,40	3,81	2,50	0,20	5,00	0,20	0,10	0,30
TNMA 160308	TNMA 322	9,525	3,18	0,80	3,81	2,50	0,20	5,00	0,35	0,15	0,60
TNMA 160404	TNMA 331	9,525	4,76	0,40	3,81	2,50	0,20	5,00	0,20	0,10	0,30
TNMA 160408	TNMA 332	9,525	4,76	0,80	3,81	3,50	0,20	7,00	0,35	0,15	0,60
TNMA 160412	TNMA 333	9,525	4,76	1,20	3,81	3,50	0,30	7,00	0,45	0,20	0,80
TNMA 160416	TNMA 334	9,525	4,76	1,60	3,81	3,50	0,30	7,00	0,55	0,20	1,00
TNMA 220404	TNMA 431	12,700	4,76	0,40	5,16	4,00	0,20	10,00	0,20	0,10	0,30
TNMA 220408	TNMA 432	12,700	4,76	0,80	5,16	5,00	0,20	10,00	0,35	0,15	0,60
TNMA 220412	TNMA 433	12,700	4,76	1,20	5,16	5,00	0,30	10,00	0,45	0,20	0,80
TNMA 220416	TNMA 434	12,700	4,76	1,60	5,16	5,00	0,30	10,00	0,55	0,20	1,00
TNMA 270608	TNMA 542	15,875	6,35	0,80	6,35	5,00	0,30	12,00	0,35	0,15	0,60
TNMA 270612	TNMA 543	15,875	6,35	1,20	6,35	5,00	0,30	12,00	0,45	0,20	0,80
TNMA 270616	TNMA 544	15,875	6,35	1,60	6,35	5,00	0,30	12,00	0,55	0,20	1,00
TNMA 330724	TNMA 656	19,050	7,94	2,40	7,94	6,50	0,30	15,00	0,60	0,30	2,00
TNMG 160402-GSF	TNMG 330.5-GSF	9,525	4,76	0,20	3,81	1,55	0,10	3,00	0,19	0,08	0,30
TNMG 160404-MF	TNMG 331-MF	9,525	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,25
TNMG 160408-MF	TNMG 332-MF	9,525	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
TNMG 160412-MF	TNMG 333-MF	9,525	4,76	1,20	3,81	1,00	0,20	2,50	0,30	0,15	0,60
TNMG 220408-MF	TNMG 432-MF	12,700	4,76	0,80	5,16	1,50	0,25	2,50	0,20	0,10	0,40
TNMG 160402-MS	TNMG 330.5-MS	9,525	4,76	0,20	3,81	1,50	0,20	3,80	0,10	0,08	0,15
TNMG 160404-MS	TNMG 331-MS	9,525	4,76	0,40	3,81	2,00	0,30	3,80	0,15	0,10	0,20
TNMG 160408-MS	TNMG 332-MS	9,525	4,76	0,80	3,81	2,00	0,30	3,80	0,25	0,10	0,40
TNMG 160412-MS	TNMG 333-MS	9,525	4,76	1,20	3,81	2,00	0,40	3,80	0,30	0,15	0,60
TNMG 160404-SF	TNMG 331-SF	9,525	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
TNMG 160408-SF	TNMG 332-SF	9,525	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
TNMG 160412-SF	TNMG 333-SF	9,525	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55
TNMG 220404-SF	TNMG 431-SF	12,700	4,76	0,40	5,16	1,50	0,60	3,00	0,20	0,10	0,35
TNMG 220408-SF	TNMG 432-SF	12,700	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,40
TNMG 220412-SF	TNMG 433-SF	12,700	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
TNMG 160404-LC	TNMG 331-LC	9,525	4,76	0,40	3,81	1,00	0,40	2,50	0,15	0,07	0,30
TNMG 160408-LC	TNMG 332-LC	9,525	4,76	0,80	3,81	1,50	0,40	2,50	0,20	0,10	0,40
TNMG 160412-LC	TNMG 333-LC	9,525	4,76	1,20	3,81	2,00	0,80	3,00	0,25	0,15	0,50
TNMG 220408-LC	TNMG 432-LC	12,700	4,76	0,80	5,16	2,00	0,40	3,00	0,20	0,10	0,40
TNMG 220412-LC	TNMG 433-LC	12,700	4,76	1,20	5,16	2,50	0,80	3,50	0,25	0,15	0,50

TN - TRIANGULAR 60° NEGATIVE

TRIANGULAR 60° NEGATIVA | TRIANGULAR 60° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning






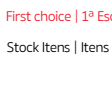
External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P							M							K				N	S						
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
 TNMG-GS Medium to Finishing	1124508	TNMG 160404-GS																										
	1124509	TNMG 160408-GS																										
	1124510	TNMG 160412-GS																										
 TNMG-MR Medium	1122000	TNMG 160308-MR																										
	1121281	TNMG 160404-MR																										
	1121269	TNMG 160408-MR																										
	1121282	TNMG 160412-MR																										
 TNMG-PM Medium	1121562	TNMG 160416-MR																										
	1121625	TNMG 220404-MR																										
	1121305	TNMG 220408-MR																										
	1121307	TNMG 220412-MR																										
 TNMG-ST Medium	1121564	TNMG 220416-MR																										
	1123991	TNMG 160404-PM																										
	1123917	TNMG 160408-PM																										
	1123992	TNMG 160412-PM																										
 TNMG-ST Medium	1123993	TNMG 160416-PM																										
	1123922	TNMG 220404-PM																										
	1123923	TNMG 220408-PM																										
	1123994	TNMG 220412-PM																										
 TNMG-ST Medium	1123995	TNMG 220416-PM																										
	1121210	TNMG 110308-ST																										
	1121211	TNMG 160304-ST																										
	1121212	TNMG 160308-ST																										
	1121294	TNMG 160404-ST																										
	1121268	TNMG 160408-ST																										
	1121348	TNMG 160412-ST																										
	1121563	TNMG 160416-ST																										
	1121349	TNMG 220404-ST																										
1121350	TNMG 220408-ST																											
1121354	TNMG 220412-ST																											
1121351	TNMG 220416-ST																											

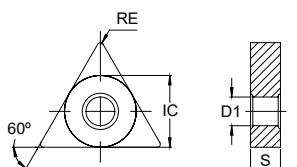
🔴 First choice | 1ª Escolha | 1ª Opción

⊖ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

🔵 Stock Items | Itens de stock

⚠️ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock







ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TNMG 160404-GS	TNMG 331-GS	9,525	4,76	0,40	3,81	2,00	0,15	3,00	0,20	0,10	0,30
TNMG 160408-GS	TNMG 332-GS	9,525	4,76	0,80	3,81	2,50	0,20	3,00	0,25	0,10	0,30
TNMG 160412-GS	TNMG 333-GS	9,525	4,76	1,20	3,81	3,00	0,30	3,50	0,30	0,15	0,35
TNMG 160308-MR	TNMG 322-MR	9,525	3,18	0,80	3,81	2,80	0,30	5,00	0,30	0,15	0,50
TNMG 160404-MR	TNMG 331-MR	9,525	4,76	0,40	3,81	3,00	0,40	5,00	0,20	0,10	0,30
TNMG 160408-MR	TNMG 332-MR	9,525	4,76	0,80	3,81	3,00	0,50	5,00	0,30	0,15	0,50
TNMG 160412-MR	TNMG 333-MR	9,525	4,76	1,20	3,81	3,00	0,80	5,00	0,35	0,18	0,60
TNMG 160416-MR	TNMG 334-MR	9,525	4,76	1,20	3,81	3,05	0,82	5,08	0,40	0,22	0,64
TNMG 220404-MR	TNMG 431-MR	12,700	4,76	0,40	5,16	4,00	0,40	6,60	0,20	0,10	0,30
TNMG 220408-MR	TNMG 432-MR	12,700	4,76	0,80	5,16	4,00	0,50	6,60	0,30	0,15	0,50
TNMG 220412-MR	TNMG 433-MR	12,700	4,76	1,20	5,16	4,00	0,80	6,60	0,35	0,18	0,60
TNMG 220416-MR	TNMG 434-MR	12,700	4,76	1,60	5,16	4,00	1,00	6,60	0,40	0,23	0,70
TNMG 160404-PM	TNMG 331-PM	9,525	4,76	0,40	3,81	3,00	0,40	5,00	0,20	0,10	0,30
TNMG 160408-PM	TNMG 332-PM	9,525	4,76	0,80	3,81	3,00	0,50	5,00	0,30	0,15	0,50
TNMG 160412-PM	TNMG 333-PM	9,525	4,76	1,20	3,81	3,00	0,80	5,00	0,35	0,18	0,60
TNMG 160416-PM	TNMG 334-PM	9,525	4,76	1,60	3,81	3,00	1,00	5,00	0,40	0,23	0,65
TNMG 220404-PM	TNMG 431-PM	12,700	4,76	0,40	5,16	4,00	0,40	6,60	0,20	0,10	0,30
TNMG 220408-PM	TNMG 432-PM	12,700	4,76	0,80	5,16	4,00	0,50	6,60	0,30	0,15	0,50
TNMG 220412-PM	TNMG 433-PM	12,700	4,76	1,20	5,16	4,00	0,80	6,60	0,35	0,18	0,60
TNMG 220416-PM	TNMG 434-PM	12,700	4,76	1,60	5,16	4,00	1,00	6,60	0,40	0,23	0,60
TNMG 110308-ST	TNMG 222-ST	6,350	3,18	0,80	2,26	2,00	0,15	4,50	0,35	0,15	0,50
TNMG 160304-ST	TNMG 321-ST	9,525	3,18	0,40	3,81	3,00	0,20	5,50	0,22	0,15	0,30
TNMG 160308-ST	TNMG 322-ST	9,525	3,18	0,80	3,81	3,00	0,20	5,50	0,35	0,15	0,50
TNMG 160404-ST	TNMG 331-ST	9,525	4,76	0,40	3,81	3,00	0,20	5,50	0,22	0,15	0,30
TNMG 160408-ST	TNMG 332-ST	9,525	4,76	0,80	3,81	3,00	0,20	5,50	0,35	0,15	0,50
TNMG 160412-ST	TNMG 333-ST	9,525	4,76	1,20	3,81	3,00	0,30	5,50	0,40	0,15	0,60
TNMG 160416-ST	TNMG 334-ST	9,525	4,76	1,60	3,81	3,00	0,30	5,50	0,40	0,15	0,60
TNMG 220404-ST	TNMG 431-ST	12,700	4,76	0,40	5,16	4,00	0,20	8,00	0,22	0,15	0,30
TNMG 220408-ST	TNMG 432-ST	12,700	4,76	0,80	5,16	4,00	0,20	8,00	0,35	0,15	0,50
TNMG 220412-ST	TNMG 433-ST	12,700	4,76	1,20	5,16	4,00	0,30	8,00	0,40	0,15	0,60
TNMG 220416-ST	TNMG 434-ST	12,700	4,76	1,60	5,16	4,00	0,30	8,00	0,45	0,20	0,70

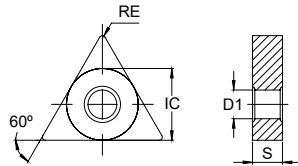
TN - TRIANGULAR 60° NEGATIVE

TRIANGULAR 60° NEGATIVA | TRIANGULAR 60° NEGATIVA

TURNING

			P							M							K			N	S					
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 TNMG-MW Medium Wiper	1121376	TNMG 160408-MW		⊗	⊗	⊗	○													⊗	⊗					
	1121343	TNMG 160412-MW			○		○														⊗	⊗				
 TNMG-SS Roughing to Medium	1121289	TNMG 160404-SS									⊗	⊗	⊗	⊗									⊗		⊗	
	1121271	TNMG 160408-SS									⊗	⊗	⊗												⊗	
	1121290	TNMG 160412-SS									⊗	⊗	⊗												⊗	
	1121330	TNMG 220408-SS									⊗	⊗	⊗												⊗	
	1121368	TNMG 220412-SS										⊗													⊗	
 TNMG-HR Roughing	1121270	TNMG 160408-HR	⊗	⊗	⊗	⊗	⊗		⊗											⊗	⊗					
	1121283	TNMG 160412-HR		⊗	○	⊗	⊗		⊗												⊗	⊗				
	1121306	TNMG 220408-HR	⊗	⊗	⊗	⊗	⊗		○												⊗	⊗	⊗			
	1121308	TNMG 220412-HR	⊗	⊗	○	⊗	⊗		⊗												⊗	⊗				⊗
	1121309	TNMG 220416-HR	⊗	○	⊗	⊗	○														⊗	⊗	⊗			
Heavy turning	1121567	TNMG 270612-HR					⊗		⊗																	
	1121570	TNMG 270616-HR					○		⊗																	
	1121631	TNMG 330924-HR				⊗	○		⊗																	
 TNMX-01 Medium to Finishing	1121004	TNMX 160404-L01	⊗	○	⊗	⊗						○														
	1120713	TNMX 160404-R01	⊗	○	⊗	⊗						○								○						
	1121005	TNMX 160408-L01			⊗	⊗	⊗	○																		
	1121006	TNMX 160408-R01			⊗	⊗	⊗	○																		
	1123822	TNMX 220404-R01					⊗																			
	1123823	TNMX 220404-L01					⊗																			
	1123824	TNMX 220408-R01					⊗																			
	1123825	TNMX 220408-L01					⊗																			

⊗ First choice | 1ª Escolha | 1ª Opción
 ○ Available under request | Disponível sob consulta | Disponible bajo consulta
 Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code
⊗ Stock Items | Itens de stock
 ⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock













ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TNMG 160408-MW	TNMG 332-MW	9,525	4,76	0,80	3,81	2,00	0,50	4,50	0,35	0,15	0,60
TNMG 160412-MW	TNMG 333-MW	9,525	4,76	1,20	3,81	2,50	0,50	5,00	0,50	0,25	0,90
TNMG 160404-SS	TNMG 331-SS	9,525	4,76	0,40	3,81	2,00	0,50	4,00	0,20	0,10	0,30
TNMG 160408-SS	TNMG 332-SS	9,525	4,76	0,80	3,81	3,00	0,50	4,80	0,25	0,12	0,45
TNMG 160412-SS	TNMG 333-SS	9,525	4,76	1,20	3,81	3,00	0,50	4,80	0,30	0,15	0,60
TNMG 220408-SS	TNMG 432-SS	12,700	4,76	0,80	5,16	4,00	0,50	6,60	0,25	0,12	0,45
TNMG 220412-SS	TNMG 433-SS	12,700	4,76	1,20	5,16	4,00	0,50	6,60	0,30	0,15	0,60
TNMG 160408-HR	TNMG 332-HR	9,525	4,76	0,80	3,81	3,00	0,80	6,00	0,35	0,20	0,55
TNMG 160412-HR	TNMG 333-HR	9,525	4,76	1,20	3,81	3,00	1,00	6,00	0,40	0,25	0,70
TNMG 220408-HR	TNMG 432-HR	12,700	4,76	0,80	5,16	4,00	0,80	6,50	0,35	0,20	0,55
TNMG 220412-HR	TNMG 433-HR	12,700	4,76	1,20	5,16	4,00	1,00	7,00	0,40	0,25	0,70
TNMG 220416-HR	TNMG 434-HR	12,700	4,76	1,60	5,16	4,00	1,50	7,00	0,60	0,25	0,90
TNMG 270612-HR	TNMG 543-HR	15,875	6,35	1,20	6,35	6,00	2,00	10,00	0,40	0,25	0,70
TNMG 270616-HR	TNMG 544-HR	15,875	6,35	1,60	6,35	6,00	2,00	10,00	0,60	0,35	0,90
TNMG 330924-HR	TNMG 666-HR	19,050	9,52	2,40	7,94	7,00	2,00	12,00	0,80	0,40	1,20
TNMX 160404-L01	TNMX 331-L01	9,525	4,76	0,40	3,81	2,50	1,00	3,50	0,15	0,12	0,30
TNMX 160404-R01	TNMX 331-R01	9,525	4,76	0,40	3,81	2,50	1,00	3,50	0,15	0,12	0,30
TNMX 160408-L01	TNMX 332-L01	9,525	4,76	0,80	3,81	2,50	1,30	3,50	0,30	0,15	0,50
TNMX 160408-R01	TNMX 332-R01	9,525	4,76	0,80	3,81	2,50	1,30	3,50	0,30	0,15	0,50
TNMX 220404-R01	TNMX 431-R01	12,700	4,76	0,40	5,16	4,00	1,50	7,00	0,20	0,15	0,30
TNMX 220404-L01	TNMX 431-L01	12,700	4,76	0,40	5,16	4,00	1,50	7,00	0,20	0,15	0,30
TNMX 220408-R01	TNMX 432-R01	12,700	4,76	0,80	5,16	4,00	1,50	7,00	0,30	0,18	0,55
TNMX 220408-L01	TNMX 432-L01	12,700	4,76	0,80	5,16	4,00	1,50	7,00	0,30	0,18	0,55

VN - RHOMBIC 35° NEGATIVE

RÔMBICA 35° NEGATIVA | RÓMBICA 35° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD							PVD	CVD			PVD				UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 VNMA Roughing	1120819	VNMA 160404																								
	1121077	VNMA 160408																								
 NEW VNMG-GSF Fine Finishing	1124861	VNMG 160402-GSF																								
	1123635	VNMG 160404-MF																								
 VNMG-MF Finishing	1123636	VNMG 160408-MF																								
	1124860	VNMG 160402-MS																								
 VNMG-MS Medium to Finishing	1121579	VNMG 160404-MS																								
	1121580	VNMG 160408-MS																								
	1123760	VNMG 160404-SF																								
 VNMG-SF Medium to Finishing	1123761	VNMG 160408-SF																								
	1123762	VNMG 160412-SF																								
	1123659	VNMG 160408-LC																								
 VNMG-GS Medium to Finishing	1124562	VNMG 160404-GS																								
	1124563	VNMG 160408-GS																								
	1124564	VNMG 160412-GS																								
 VNMG-MR Medium	1121278	VNMG 160404-MR																								
	1121279	VNMG 160408-MR																								
	1121581	VNMG 220408-MR																								
 VNMG-PM Medium	1124086	VNMG 160404-PM																								
	1124087	VNMG 160408-PM																								
	1124600	VNMG 160412-PM																								
 VNMG-ST Medium	1121276	VNMG 160404-ST																								
	1121277	VNMG 160408-ST																								
 VNMG-SS Roughing to Medium	1121367	VNMG 160404-SS																								
	1121295	VNMG 160408-SS																								

🔴 First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

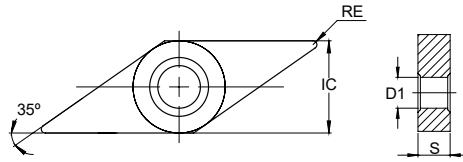
Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

🟡 Stock Items | Itens de stock

🟡 Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Spare Parts

Technical Data










ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
VNMA 160404	VNMA 331	9,525	4,76	0,40	3,81	0,20	0,10	3,30	0,15	0,08	0,25
VNMA 160408	VNMA 332	9,525	4,76	0,80	3,81	0,20	0,10	3,30	0,30	0,10	0,50
VNMG 160402-GSF	VNMG 330.5-GSF	9,525	4,76	0,20	3,81	1,10	0,20	2,00	0,15	0,05	0,25
VNMG 160404-MF	VNMG 331-MF	9,525	4,76	0,40	3,81	0,50	0,15	1,50	0,15	0,05	0,25
VNMG 160408-MF	VNMG 332-MF	9,525	4,76	0,80	3,81	0,80	0,20	1,50	0,20	0,10	0,40
VNMG 160404-MS	VNMG 330.5-MS	9,525	4,76	0,20	3,81	1,50	0,20	4,00	0,10	0,08	0,15
VNMG 160404-MS	VNMG 331-MS	9,525	4,76	0,40	3,81	2,00	0,20	4,00	0,15	0,10	0,20
VNMG 160408-MS	VNMG 332-MS	9,525	4,76	0,80	3,81	2,50	0,20	4,00	0,25	0,15	0,40
VNMG 160404-SF	VNMG 331-SF	9,525	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
VNMG 160408-SF	VNMG 332-SF	9,525	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
VNMG 160412-SF	VNMG 333-SF	9,525	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55
VNMG 160408-LC	VNMG 332-LC	9,525	4,76	0,80	3,81	1,00	0,35	2,00	0,12	0,08	0,35
VNMG 160404-GS	VNMG 331-GS	9,525	4,76	0,40	3,81	1,50	0,15	2,00	0,20	0,08	0,25
VNMG 160408-GS	VNMG 332-GS	9,525	4,76	0,80	3,81	2,00	0,20	2,50	0,25	0,10	0,30
VNMG 160412-GS	VNMG 333-GS	9,525	4,76	1,20	3,81	2,50	0,30	3,00	0,30	0,12	0,35
VNMG 160404-MR	VNMG 331-MR	9,525	4,76	0,40	3,81	3,00	1,00	4,00	0,25	0,10	0,30
VNMG 160408-MR	VNMG 332-MR	9,525	4,76	0,80	3,81	3,00	1,00	4,00	0,30	0,15	0,50
VNMG 220408-MR	VNMG 432-MR	12,700	4,76	0,80	5,16	4,00	1,50	5,00	0,35	0,15	0,50
VNMG 160404-PM	VNMG 331-PM	9,525	4,76	0,40	3,81	3,00	1,00	4,00	0,25	0,10	0,30
VNMG 160408-PM	VNMG 332-PM	9,525	4,76	0,80	3,81	3,00	1,00	4,00	0,30	0,15	0,50
VNMG 160412-PM	VNMG 333-PM	9,525	4,76	1,20	3,81	3,00	1,00	4,00	0,35	0,20	0,50
VNMG 160404-ST	VNMG 331-ST	9,525	4,76	0,40	3,81	2,00	0,20	3,50	0,30	0,15	0,40
VNMG 160408-ST	VNMG 332-ST	9,525	4,76	0,80	3,81	2,00	0,30	3,50	0,35	0,15	0,50
VNMG 160404-SS	VNMG 331-SS	9,525	4,76	0,40	3,81	1,50	0,50	4,00	0,20	0,10	0,30
VNMG 160408-SS	VNMG 332-SS	9,525	4,76	0,80	3,81	2,00	0,50	4,00	0,25	0,12	0,45

WN - TRIGON 80° NEGATIVE

TRIGONAL 80° NEGATIVA | TRIGONA 80° NEGATIVA

TURNING

			P							M							K				N	S					
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 WNMA Roughing	1122002	WNMA 060408																	⊗	⊗							
	1120834	WNMA 080404																	⊗	⊗							
	1120835	WNMA 080408																	⊗	⊗							
	1121076	WNMA 080412																	⊗	⊗							
	1121582	WNMA 080416																	⊗	⊗							
 NEW WNUMG-GSF Fine Finishing	1124859	WNUMG 080402-GSF													⊗		⊗							⊗		⊗	
 WNMG-MF Finishing	1121205	WNMG 06T304-MF			○		○																				
	1121206	WNMG 06T308-MF			○	⊗	○																				
	1121586	WNMG 06T312-MF			○		○																				
	1121207	WNMG 060404-MF		⊗	⊗	⊗	○																				
	1121208	WNMG 060408-MF			⊗		⊗																				
	1121583	WNMG 060412-MF		⊗	○	⊗	○																				
	1121213	WNMG 080404-MF		⊗	⊗	⊗	⊗																				
	1121214	WNMG 080408-MF	⊗		⊗	⊗	⊗																				
1121589	WNMG 080412-MF		⊗	○	⊗	○																					
 WNMG-MS Medium to Finishing	1121910	WNMG 060404-MS																			⊗					⊗	
	1121911	WNMG 060408-MS																			⊗					⊗	
	1124858	WNMG 080402-MS													⊗		⊗							⊗		⊗	
	1124574	WNMG 080404-MS													⊗		⊗					⊗		⊗		⊗	
	1121588	WNMG 080408-MS													⊗		⊗					⊗		⊗		⊗	
1121590	WNMG 080412-MS													⊗	⊗	⊗					⊗		⊗	⊗		⊗	
 WNMG-SF Medium to Finishing	1123763	WNMG 060404-SF									⊗	⊗		⊗	⊗	⊗	⊗						⊗	⊗	⊗	⊗	
	1123764	WNMG 060408-SF									⊗	⊗		⊗	○	⊗	⊗						⊗	⊗	⊗	⊗	
	1123765	WNMG 060412-SF									⊗	⊗		○			⊗							⊗	⊗	⊗	
	1123766	WNMG 080404-SF									⊗	⊗			⊗		⊗							⊗	⊗	⊗	
	1123721	WNMG 080408-SF									⊗	⊗			⊗		⊗							⊗	⊗	⊗	
	1123767	WNMG 080412-SF									⊗	⊗			⊗		⊗							⊗	⊗	⊗	
 WNMG-LC Medium to Finishing	1123658	WNMG 080408-LC	⊗	⊗		⊗																					
 WNMG-GS Medium to Finishing	1124690	WNMG 060404-GS																						⊗		⊗	
	1124691	WNMG 060408-GS																						⊗		⊗	
	1124559	WNMG 080404-GS																						⊗		⊗	
	1124560	WNMG 080408-GS																						⊗		⊗	
	1124561	WNMG 080412-GS																						⊗		⊗	

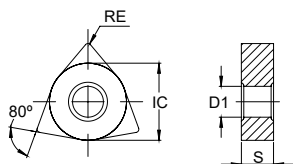
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
WNMA 060408	WNMA 332	9,525	4,76	0,80	3,81	2,50	0,20	4,00	0,35	0,15	0,60
WNMA 080404	WNMA 431	12,700	4,76	0,40	5,16	2,80	0,20	5,00	0,22	0,15	0,30
WNMA 080408	WNMA 432	12,700	4,76	0,80	5,16	3,00	0,20	5,00	0,35	0,15	0,60
WNMA 080412	WNMA 433	12,700	4,76	1,20	5,16	3,00	0,30	5,00	0,45	0,20	0,80
WNMA 080416	WNMA 434	12,700	4,76	1,60	5,16	3,00	0,30	5,00	0,55	0,20	1,00
WNMG 080402-GSF	WNMG 430.5-GSF	12,700	4,76	0,20	5,16	1,30	0,10	2,50	0,17	0,08	0,25
WNMG 06T304-MF	WNMG 32.51-MF	9,525	3,97	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,30
WNMG 06T308-MF	WNMG 32.52-MF	9,525	3,97	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
WNMG 06T312-MF	WNMG 32.53-MF	9,525	3,97	1,20	3,81	0,40	0,15	1,50	0,30	0,15	0,60
WNMG 060404-MF	WNMG 331-MF	9,525	4,76	0,40	3,81	0,40	0,10	1,50	0,15	0,05	0,30
WNMG 060408-MF	WNMG 332-MF	9,525	4,76	0,80	3,81	0,40	0,10	1,50	0,20	0,10	0,40
WNMG 060412-MF	WNMG 333-MF	9,525	4,76	1,20	3,81	0,40	0,15	1,50	0,30	0,15	0,60
WNMG 080404-MF	WNMG 431-MF	12,700	4,76	0,40	5,16	0,60	0,10	2,00	0,15	0,05	0,30
WNMG 080408-MF	WNMG 432-MF	12,700	4,76	0,80	5,16	0,60	0,10	2,00	0,20	0,10	0,40
WNMG 080412-MF	WNMG 433-MF	12,700	4,76	1,20	5,16	0,60	0,15	2,00	0,30	0,15	0,60
WNMG 060404-MS	WNMG 331-MS	9,525	4,76	0,40	3,81	1,20	0,30	2,20	0,15	0,10	0,20
WNMG 060408-MS	WNMG 332-MS	9,525	4,76	0,80	3,81	1,20	0,30	2,20	0,25	0,20	0,40
WNMG 080402-MS	WNMG 430.5-MS	12,700	4,76	0,20	5,16	2,00	0,20	4,00	0,10	0,08	0,20
WNMG 080404-MS	WNMG 431-MS	12,700	4,76	0,40	5,16	2,50	0,70	4,00	0,15	0,10	0,30
WNMG 080408-MS	WNMG 432-MS	12,700	4,76	0,80	5,16	2,50	0,70	4,00	0,25	0,20	0,40
WNMG 080412-MS	WNMG 433-MS	12,700	4,76	1,20	5,16	2,50	1,00	4,00	0,30	0,25	0,55
WNMG 060404-SF	WNMG 331-SF	9,525	4,76	0,40	3,81	1,50	0,60	3,00	0,15	0,10	0,23
WNMG 060408-SF	WNMG 332-SF	9,525	4,76	0,80	3,81	1,50	0,60	3,00	0,25	0,12	0,38
WNMG 060412-SF	WNMG 333-SF	9,525	4,76	1,20	3,81	1,50	0,60	3,00	0,35	0,15	0,55
WNMG 080404-SF	WNMG 431-SF	12,700	4,76	0,40	5,16	1,50	0,60	3,00	0,15	0,10	0,23
WNMG 080408-SF	WNMG 432-SF	12,700	4,76	0,80	5,16	1,50	0,60	3,00	0,25	0,12	0,38
WNMG 080412-SF	WNMG 433-SF	12,700	4,76	1,20	5,16	1,50	0,60	3,00	0,35	0,15	0,55
WNMG 080408-LC	WNMG 432-LC	12,700	4,76	0,40	5,16	1,50	0,40	2,50	0,15	0,10	0,35
WNMG 060404-GS	WNMG 331-GS	9,525	4,76	0,40	3,81	2,00	0,15	2,50	0,20	0,10	0,30
WNMG 060408-GS	WNMG 332-GS	9,525	4,76	0,80	3,81	2,50	0,25	3,00	0,25	0,10	0,35
WNMG 080404-GS	WNMG 431-GS	12,700	4,76	0,40	5,16	2,00	0,15	2,50	0,20	0,10	0,30
WNMG 080408-GS	WNMG 432-GS	12,700	4,76	0,80	5,16	2,50	0,25	3,00	0,25	0,10	0,35
WNMG 080412-GS	WNMG 433-GS	12,700	4,76	1,20	5,16	3,00	0,30	3,50	0,30	0,15	0,40

WN - TRIGON 80° NEGATIVE

TRIGONAL 80° NEGATIVA | TRIGONA 80° NEGATIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts










Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

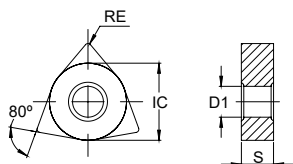
			P							M							K				N	S				
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 <p>WNNMG-MR Medium</p>	1121262	WNNMG 06T304-MR			○	⊗	⊗																			
	1121167	WNNMG 06T308-MR			○	⊗	⊗																			
	1121587	WNNMG 06T312-MR			○		○																			
	1121240	WNNMG 060404-MR			○	⊗	○																			
	1121168	WNNMG 060408-MR		⊗	○	⊗	⊗																			
	1121584	WNNMG 060412-MR		⊗	○	⊗	⊗																			
 <p>WNNMG-PM Medium</p>	1121356	WNNMG 080404-MR		⊗	⊗	⊗	⊗														⊗					
	1121327	WNNMG 080408-MR		⊗	⊗	⊗	⊗		⊗										⊗	⊗						
	1121261	WNNMG 080412-MR		⊗	○	⊗	○		⊗																	
	1121592	WNNMG 080416-MR		⊗	○		○															⊗				
	1124088	WNNMG 060404-PM		⊗	⊗	⊗	⊗	⊗																		
 <p>WNNMG-ST Medium</p>	1124089	WNNMG 060408-PM		⊗	⊗	⊗	⊗	⊗																		
	1123988	WNNMG 080404-PM		⊗	⊗	⊗	⊗	⊗																		
	1123918	WNNMG 080408-PM		⊗	⊗	⊗	⊗	⊗																		
	1123989	WNNMG 080412-PM		⊗	⊗	⊗	⊗	⊗		⊗																
	1123990	WNNMG 080416-PM		⊗	⊗	⊗	⊗	⊗																		
 <p>WNNMG-MW Medium Wiper</p>	1121162	WNNMG 080404-ST																	⊗	⊗						
	1121163	WNNMG 080408-ST																		⊗	⊗					
	1121164	WNNMG 080412-ST																		⊗	⊗					
	1121593	WNNMG 080416-ST																		⊗	⊗					
 <p>WNNMG-SS Roughing to Medium</p>	1121370	WNNMG 060408-MW		○		⊗			⊗											⊗	○					
	1121585	WNNMG 060412-MW		○		○															⊗	⊗				
	1121372	WNNMG 080408-MW			⊗		⊗														⊗	⊗				
	1121371	WNNMG 080412-MW			⊗		⊗														⊗	⊗				
 <p>WNNMG-SS Roughing to Medium</p>	1121321	WNNMG 06T304-SS									⊗	⊗				⊗									⊗	
	1121324	WNNMG 06T308-SS									⊗	⊗	⊗				⊗								⊗	
	1121322	WNNMG 060404-SS												⊗			⊗						⊗		⊗	
	1121325	WNNMG 060408-SS												⊗			⊗						⊗		⊗	
	1121323	WNNMG 080404-SS									⊗	⊗	⊗	⊗			⊗						⊗		⊗	
 <p>WNNMG-SS Roughing to Medium</p>	1121326	WNNMG 080408-SS									⊗	⊗	⊗			⊗								⊗		
	1121591	WNNMG 080412-SS									⊗	⊗	⊗			⊗									⊗	
	NEW WNNMG-PR																									
 <p>WNNMG-PR Roughing</p>	1124741	WNNMG 080416-PR			○		⊗																			
	WNNMG-HR																									
 <p>WNNMG-HR Roughing</p>	1121127	WNNMG 080408-HR		⊗	⊗	⊗	⊗	⊗		⊗										⊗	⊗					
	1121128	WNNMG 080412-HR		⊗	⊗	⊗	⊗	⊗		⊗											⊗	⊗				

⊗ First choice | 1ª Escolha | 1ª Opción
 ⊗ Stock Items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Insert Order Code: (1) Geometry code + (2) Grade code



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
WNMG 06T304-MR	WNMG 32.51-MR	9,525	3,97	0,40	3,81	2,00	0,50	3,00	0,22	0,10	0,30
WNMG 06T308-MR	WNMG 32.52-MR	9,525	3,97	0,80	3,81	2,00	0,50	3,00	0,30	0,15	0,50
WNMG 06T312-MR	WNMG 32.53-MR	9,525	3,97	1,20	3,81	2,00	0,80	3,00	0,35	0,18	0,60
WNMG 060404-MR	WNMG 331-MR	9,525	4,76	0,40	3,81	2,00	0,50	3,00	0,22	0,10	0,30
WNMG 060408-MR	WNMG 332-MR	9,525	4,76	0,80	3,81	2,00	0,50	3,00	0,30	0,15	0,50
WNMG 060412-MR	WNMG 333-MR	9,525	4,76	1,20	3,81	2,00	0,80	3,00	0,35	0,18	0,60
WNMG 080404-MR	WNMG 431-MR	12,700	4,76	0,40	5,16	2,50	0,50	4,00	0,22	0,10	0,30
WNMG 080408-MR	WNMG 432-MR	12,700	4,76	0,80	5,16	2,50	0,50	4,00	0,30	0,15	0,50
WNMG 080412-MR	WNMG 433-MR	12,700	4,76	1,20	5,16	2,50	0,80	4,00	0,35	0,18	0,60
WNMG 080416-MR	WNMG 434-MR	12,700	4,76	1,60	5,16	3,00	1,00	4,00	0,40	0,23	0,65
WNMG 060404-PM	WNMG 331-PM	9,525	4,76	0,40	3,81	2,50	0,50	3,00	0,22	0,10	0,30
WNMG 060408-PM	WNMG 332-PM	9,525	4,76	0,80	3,81	2,50	0,50	3,00	0,30	0,15	0,50
WNMG 080404-PM	WNMG 431-PM	12,700	4,76	0,40	5,16	2,50	0,50	4,00	0,22	0,10	0,30
WNMG 080408-PM	WNMG 432-PM	12,700	4,76	0,80	5,16	2,50	0,50	4,00	0,30	0,15	0,50
WNMG 080412-PM	WNMG 433-PM	12,700	4,76	1,20	5,16	2,50	0,80	4,00	0,35	0,18	0,60
WNMG 080416-PM	WNMG 434-PM	12,700	4,76	1,60	5,16	3,00	1,00	4,50	0,35	0,20	0,65
WNMG 080404-ST	WNMG 431-ST	12,700	4,76	0,40	5,16	2,50	0,20	5,00	0,22	0,15	0,30
WNMG 080408-ST	WNMG 432-ST	12,700	4,76	0,80	5,16	2,50	0,20	5,00	0,35	0,15	0,50
WNMG 080412-ST	WNMG 433-ST	12,700	4,76	1,20	5,16	2,50	0,30	5,00	0,40	0,15	0,60
WNMG 080416-ST	WNMG 434-ST	12,700	4,76	1,60	5,16	2,50	0,30	5,00	0,45	0,20	0,70
WNMG 060408-MW	WNMG 332-MW	9,525	4,76	0,80	3,81	1,50	0,50	3,50	0,30	0,15	0,60
WNMG 060412-MW	WNMG 333-MW	9,525	4,76	1,20	3,81	1,50	0,80	3,50	0,50	0,20	0,90
WNMG 080408-MW	WNMG 432-MW	12,700	4,76	0,80	5,16	3,00	0,50	5,00	0,30	0,15	0,60
WNMG 080412-MW	WNMG 433-MW	12,700	4,76	1,20	5,16	3,50	0,80	6,00	0,50	0,20	0,90
WNMG 06T304-SS	WNMG 32.51-SS	9,525	3,97	0,40	3,81	2,00	0,50	3,00	0,20	0,12	0,30
WNMG 06T308-SS	WNMG 32.52-SS	9,525	3,97	0,80	3,81	2,00	0,50	3,00	0,25	0,12	0,45
WNMG 060404-SS	WNMG 331-SS	9,525	4,76	0,40	3,81	2,00	0,50	3,00	0,20	0,12	0,30
WNMG 060408-SS	WNMG 332-SS	9,525	4,76	0,80	3,81	2,00	0,50	3,00	0,25	0,12	0,45
WNMG 080404-SS	WNMG 431-SS	12,700	4,76	0,40	5,16	2,00	0,50	3,00	0,20	0,12	0,30
WNMG 080408-SS	WNMG 432-SS	12,700	4,76	0,80	5,16	2,50	0,50	4,00	0,25	0,12	0,45
WNMG 080412-SS	WNMG 433-SS	12,700	4,76	1,20	5,16	2,50	0,50	4,00	0,30	0,15	0,60
WNMG 080416-PR	WNMG 434-PR	12,700	4,76	1,60	5,16	3,00	0,50	4,00	0,35	0,12	0,50
WNMG 080408-HR	WNMG 432-HR	12,700	4,76	0,80	5,16	4,00	0,80	5,00	0,35	0,20	0,55
WNMG 080412-HR	WNMG 433-HR	12,700	4,76	1,20	5,16	4,00	1,50	5,00	0,40	0,25	0,70

INSERTS

POSITIVE



Positive inserts feature positive clearance angles. Their significant advantage lies in the lower cutting forces they generate, consequently reducing vibration compared to negative inserts. This makes them ideal for internal turning, external turning of slender parts, and general finishing operations.

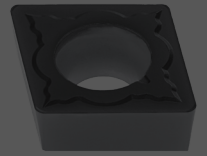
As pastilhas positivas possuem ângulos de alívio positivos. A sua vantagem significativa reside nas menores forças de corte que geram, reduzindo conseqüentemente a vibração em comparação com as pastilhas negativas. Isso torna-as ideais para torneamento interno, torneamento externo de peças delgadas e operações gerais de acabamento.

Las plaquitas positivas cuentan con ángulos de despeje positivos. Su ventaja significativa radica en las menores fuerzas de corte que generan, reduciendo así la vibración en comparación con las plaquitas negativas. Esto las hace ideales para el torneado interno, torneado externo de piezas delgadas y operaciones generales de acabado.

CC.. > page 544

- > Rhombic 80° inserts are very popular thanks to their versatility

Rhombic 80° inserts são muito populares devido à sua versatilidade | Las plaquitas de 80° róbicas son muy populares gracias a su versatilidad



DC.. > page 550

- > Rhombic 55° inserts offer balanced roughing and finishing capabilities

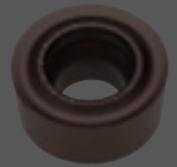
Pastilhas rômbricas de 55° oferecem capacidades equilibradas de desbaste e acabamento | Las plaquitas rômbricas de 55° ofrecen capacidades equilibradas para desbaste y acabado



RC.. > page 554

- > Round inserts are extremely tough, and well suited for high feed turning

Pastilhas redondas são extremamente resistentes e adequadas para torneare em alto avanço | Las plaquitas redondas son extremadamente resistentes y adecuadas para el torneado de alto avance



SC.. | SP.. > page 556 | 558

- > Square inserts excel in roughing, especially at a shallow angle

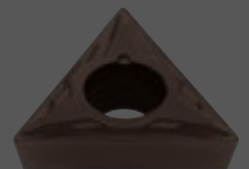
Pastilhas quadradas destacam-se no desbaste, especialmente a um ângulo raso | Plaquitas cuadradas destacan en el desbaste, especialmente a un ángulo bajo



TC.. | TP.. > page 560 | 568

- > Triangular inserts are versatile, suitable for both finishing and roughing

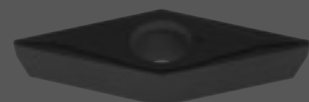
As pastilhas triangulares são versáteis, adequadas tanto para acabamento quanto para desbaste | Las plaquitas triangulares son versátiles, adecuadas tanto para acabado como para desbaste



VB.. | VC.. > page 570 | 572

- > Rhombic 35° inserts are best suited for finishing operations

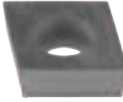

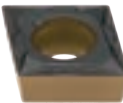



Pastilhas rômbricas de 35° são mais adequadas para operações de acabamento | Las plaquitas rômbricas de 35° son más adecuadas para operaciones de acabado



CC - RHOMBIC 80° POSITIVE

RÔMBICA 80° POSITIVA | RÓMBICA 80° POSITIVA

TURNING

			P											M					K				N		S				
			CVD							PVD				CVD		PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 Finishing	CCMW	1120206	CCMW 060204																										
		1120212	CCMW 09T304																										
		1120214	CCMW 120404																										
 Fine Finishing	NEW CCMT-FF	1124850	CCMT 09T302-FF																										
		1124669	CCMT 09T304-FF																										
		1124851	CCMT 09T308-FF																										
 Finishing	CCMT-FP	1121655	CCMT 060202-FP																										
		1121658	CCMT 060204-FP																										
		1121690	CCMT 09T302-FP																										
		1121666	CCMT 09T304-FP																										
		1121652	CCMT 09T308-FP																										
 Finishing	CCMT-BO	1121620	CCMT 060202-BO																										
		1121621	CCMT 060204-BO																										
		1124090	CCMT 060208-BO																										
		1124091	CCMT 09T302-BO																										
		1121601	CCMT 09T304-BO																										
		1121622	CCMT 09T308-BO																										
		1121624	CCMT 120404-BO																										
 Finishing	CCMT-FM	1121654	CCMT 060202-FM																										
		1121657	CCMT 060204-FM																										
		1121689	CCMT 09T302-FM																										
		1121692	CCMT 09T304-FM																										
		1121651	CCMT 09T308-FM																										
		1121664	CCMT 120404-FM																										
 Finishing	CCMT-FK	1121653	CCMT 060202-FK																										
		1121656	CCMT 060204-FK																										
		1121688	CCMT 09T302-FK																										
		1121691	CCMT 09T304-FK																										
		1121663	CCMT 120404-FK																										

🔴 First choice | 1ª Escolha | 1ª Opción

⊖ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

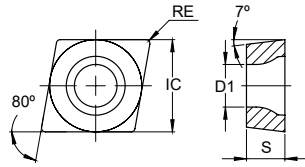
📦 Stock Items | Itens de stock

📦 Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Spare Parts

Technical Data

RELIEF ANGLE 7°







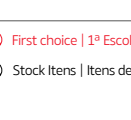


ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CCMW 060204	CCMW 21.51	6,350	2,38	0,40	2,80	1,50	0,05	3,00	0,20	0,08	0,26
CCMW 09T304	CCMW 32.51	9,525	3,97	0,40	4,40	2,30	0,05	4,50	0,20	0,08	0,26
CCMW 120404	CCMW 431	12,700	4,76	0,40	5,50	3,10	0,05	6,00	0,20	0,08	0,26
CCMT 09T302-FF	CCMT 32.50.5-FF	9,525	3,97	0,20	4,40	1,00	0,08	2,00	0,09	0,04	0,13
CCMT 09T304-FF	CCMT 32.51-FF	9,525	3,97	0,40	4,40	1,25	0,08	2,00	0,13	0,02	0,23
CCMT 09T308-FF	CCMT 32.52-FF	9,525	3,97	0,80	4,40	1,50	0,15	2,00	0,27	0,08	0,45
CCMT 060202-FP	CCMT 21.50.5-FP	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
CCMT 060204-FP	CCMT 21.51-FP	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
CCMT 09T302-FP	CCMT 32.50.5-FP	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
CCMT 09T304-FP	CCMT 32.51-FP	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
CCMT 09T308-FP	CCMT 32.52-FP	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,20	0,08	0,45
CCMT 120404-FP	CCMT 431-FP	12,700	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27
CCMT 060202-BO	CCMT 21.50.5-BO	6,350	2,38	0,20	2,80	0,50	0,30	1,00	0,08	0,05	0,13
CCMT 060204-BO	CCMT 21.51-BO	6,350	2,38	0,40	2,80	0,50	0,30	1,00	0,13	0,08	0,20
CCMT 060208-BO	CCMT 21.52-BO	6,350	2,38	0,80	2,80	0,50	0,30	1,00	0,20	0,10	0,30
CCMT 09T302-BO	CCMT 21.50.5-BO	9,525	3,97	0,20	4,40	0,80	0,40	1,20	0,12	0,07	0,20
CCMT 09T304-BO	CCMT 32.51-BO	9,525	3,97	0,40	4,40	0,80	0,50	1,20	0,13	0,08	0,20
CCMT 09T308-BO	CCMT 32.52-BO	9,525	3,97	0,80	4,40	0,80	0,50	1,20	0,20	0,10	0,30
CCMT 120404-BO	CCMT 431-BO	12,700	4,76	0,40	5,50	1,00	0,50	1,50	0,13	0,08	0,20
CCMT 120408-BO	CCMT 432-BO	12,700	4,76	0,80	5,50	1,00	0,50	1,50	0,20	0,10	0,30
CCMT 060202-FM	CCMT 21.50.5-FM	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
CCMT 060204-FM	CCMT 21.51-FM	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
CCMT 09T302-FM	CCMT 32.50.5-FM	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
CCMT 09T304-FM	CCMT 32.51-FM	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
CCMT 09T308-FM	CCMT 32.52-FM	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,20	0,08	0,45
CCMT 120404-FM	CCMT 431-FM	12,700	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27
CCMT 060202-FK	CCMT 21.50.5-FK	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,11
CCMT 060204-FK	CCMT 21.51-FK	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,08	0,05	0,17
CCMT 09T302-FK	CCMT 32.50.5-FK	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,13
CCMT 09T304-FK	CCMT 32.51-FK	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
CCMT 120404-FK	CCMT 431-FK	12,700	4,76	0,40	5,50	0,42	0,14	2,40	0,14	0,07	0,27

CC - RHOMBIC 80° POSITIVE

RÔMBICA 80° POSITIVA | RÓMBICA 80° POSITIVA

TURNING

			P											M					K			N	S								
			CVD							PVD				CVD		PVD			UNC	CVD		UNC	PVD								
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3			
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920			
 <p>CCMT-FW Finishing Wiper</p>	1121398	CCMT 060204-FW		⊗	○							⊗									⊗										
	1121743	CCMT 060208-FW		⊗	○							⊗										○									
	1121399	CCMT 09T304-FW			○							⊗										⊗						⊗			
	1121744	CCMT 09T308-FW			○							⊗										⊗						⊗			
 <p>CCMT-LM Medium to Finishing</p>	1123801	CCMT 060204-LM															⊗		⊗								⊗		⊗		
	1123773	CCMT 09T304-LM															⊗		⊗								⊗		⊗		
	1123804	CCMT 120404-LM															⊗		⊗								⊗		⊗		
 <p>CCMT-MW Medium to Finishing Wiper</p>	1121462	CCMT 060208-MW			○							⊗									⊗							⊗			
	1121400	CCMT 09T304-MW			○							⊗										⊗							⊗		
	1121411	CCMT 09T308-MW			○							⊗										⊗							⊗		
	1121412	CCMT 120404-MW			○																	⊗									
 <p>CCMT-MP Medium</p>	1121697	CCMT 060204-MP		⊗	○	⊗	⊗					⊗																			
	1121661	CCMT 060208-MP			⊗	⊗	⊗																								
	1121700	CCMT 09T304-MP		⊗	⊗	⊗	⊗					⊗																			
	1121687	CCMT 09T308-MP		⊗	⊗	⊗	⊗					⊗																			
	1121719	CCMT 120404-MP			⊗		⊗																								
 <p>CCMT-MM Medium</p>	1121722	CCMT 120408-MP		⊗	⊗	⊗	⊗					⊗																			
	1121724	CCMT 120412-MP		⊗	○	⊗	○																								
	1121696	CCMT 060204-MM												⊗			⊗	⊗	⊗								⊗	⊗	⊗		
	1121660	CCMT 060208-MM												⊗			⊗		⊗								⊗		⊗		
 <p>CCMT-MK Medium</p>	1121699	CCMT 09T304-MM											⊗			⊗	⊗	⊗								⊗	⊗	⊗			
	1121686	CCMT 09T308-MM												⊗			⊗	⊗	⊗							⊗	⊗	⊗			
	1121718	CCMT 120404-MM												⊗			⊗	⊗	⊗							⊗	⊗	⊗			
	1121721	CCMT 120408-MM												⊗			⊗	⊗	⊗							⊗	⊗	⊗			
	1121723	CCMT 120412-MM												⊗			⊗	⊗	⊗							⊗	⊗	⊗			
 <p>CCMT-MK Medium</p>	1121695	CCMT 060204-MK																			⊗	⊗									
	1121659	CCMT 060208-MK																				⊗	⊗								
	1121698	CCMT 09T304-MK																				⊗	⊗								
	1121685	CCMT 09T308-MK																				⊗	⊗								
	1121717	CCMT 120404-MK																				⊗	⊗								
1121720	CCMT 120408-MK																				⊗	⊗									

⊗ First choice | 1ª Escolha | 1ª Opción

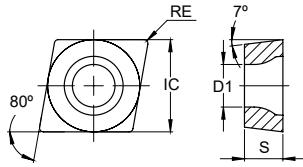
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°




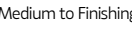


ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CCMT 060204-FW	CCMT 21.51-FW	6,350	2,38	0,40	2,80	0,80	0,30	2,00	0,12	0,05	0,30
CCMT 060208-FW	CCMT 21.52-FW	6,350	2,38	0,80	2,80	0,80	0,30	2,00	0,15	0,09	0,35
CCMT 09T304-FW	CCMT 32.51-FW	9,525	3,97	0,40	4,40	1,00	0,30	3,00	0,20	0,07	0,30
CCMT 09T308-FW	CCMT 32.52-FW	9,525	3,97	0,80	4,40	1,00	0,30	3,00	0,25	0,12	0,50
CCMT 060204-LM	CCMT 21.51-LM	6,350	2,38	0,40	2,80	0,50	0,20	2,00	0,10	0,08	0,20
CCMT 09T304-LM	CCMT 32.51-LM	9,525	3,97	0,40	4,40	0,50	0,25	2,50	0,15	0,10	0,30
CCMT 120404-LM	CCMT 431-LM	12,700	4,76	0,40	5,50	0,80	0,30	3,00	0,18	0,12	0,35
CCMT 060208-MW	CCMT 21.52-MW	6,350	2,38	0,80	2,80	1,20	0,50	2,50	0,20	0,10	0,40
CCMT 09T304-MW	CCMT 32.51-MW	9,525	3,97	0,40	4,40	1,50	0,50	4,00	0,25	0,12	0,40
CCMT 09T308-MW	CCMT 32.52-MW	9,525	3,97	0,80	4,40	1,50	0,70	4,00	0,30	0,15	0,50
CCMT 120404-MW	CCMT 431-MW	12,700	4,76	0,40	5,50	2,00	0,50	4,00	0,25	0,15	0,40
CCMT 120408-MW	CCMT 432-MW	12,700	4,76	0,80	5,50	2,00	0,70	4,00	0,30	0,15	0,50
CCMT 060204-MP	CCMT 21.51-MP	6,350	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
CCMT 060208-MP	CCMT 21.52-MP	6,350	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
CCMT 09T304-MP	CCMT 32.51-MP	9,525	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
CCMT 09T308-MP	CCMT 32.52-MP	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
CCMT 120404-MP	CCMT 431-MP	12,700	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
CCMT 120408-MP	CCMT 432-MP	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45
CCMT 120412-MP	CCMT 433-MP	12,700	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
CCMT 060204-MM	CCMT 21.51-MM	6,350	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
CCMT 060208-MM	CCMT 21.52-MM	6,350	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
CCMT 09T304-MM	CCMT 32.51-MM	9,525	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
CCMT 09T308-MM	CCMT 32.52-MM	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
CCMT 120404-MM	CCMT 431-MM	12,700	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
CCMT 120408-MM	CCMT 432-MM	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45
CCMT 120412-MM	CCMT 433-MM	12,700	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
CCMT 060204-MK	CCMT 21.51-MK	6,350	2,38	0,40	2,80	0,64	0,20	2,40	0,11	0,06	0,17
CCMT 060208-MK	CCMT 21.52-MK	6,350	2,38	0,80	2,80	0,64	0,40	2,40	0,18	0,08	0,35
CCMT 09T304-MK	CCMT 32.51-MK	9,525	3,97	0,40	4,40	0,64	0,25	3,00	0,15	0,08	0,23
CCMT 09T308-MK	CCMT 32.52-MK	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,20	0,10	0,40
CCMT 120404-MK	CCMT 431-MK	12,700	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
CCMT 120408-MK	CCMT 432-MK	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,24	0,12	0,45

CC - RHOMBIC 80° POSITIVE

RÔMBICA 80° POSITIVA | RÓMBICA 80° POSITIVA

TURNING

			P											M				K			N	S							
			CVD						PVD					CVD		PVD		UNC	CVD			UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH9910	PH7920	PH9920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
	CCGT-FS	1121725	CCGT 060201-FS																										
		1121726	CCGT 060202-FS																										
		1121727	CCGT 060204-FS																										
	Finishing to Fine Finishing	1121455	CCGT 09T301-FS																										
		1121456	CCGT 09T302-FS																										
		1121457	CCGT 09T304-FS																										
	CCGT-LN	1121884	CCGT 060202-LN																										
		1121885	CCGT 060204-LN																										
		1121886	CCGT 09T302-LN																										
		Medium to Finishing	1121887	CCGT 09T304-LN																									
			1121888	CCGT 09T308-LN																									
			1123679	CCGT 120402-LN																									
			1123681	CCGT 120404-LN																									
		1123682	CCGT 120408-LN																										

🔴 First choice | 1ª Escolha | 1ª Opción

⊖ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

🟡 Stock Items | Itens de stock

⚠️ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

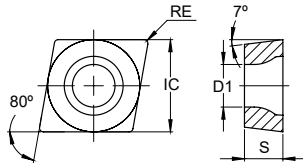
Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CCGT 060201-FS	CCGT 21.50.2-FS	6,350	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,06
CCGT 060202-FS	CCGT 21.50.5-FS	6,350	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
CCGT 060204-FS	CCGT 21.51-FS	6,350	2,38	0,40	2,80	0,80	0,15	1,50	0,20	0,08	0,25
CCGT 09T301-FS	CCGT 32.50.2-FS	9,525	3,97	0,10	4,40	0,50	0,10	1,50	0,03	0,01	0,06
CCGT 09T302-FS	CCGT 32.50.5-FS	9,525	3,97	0,20	4,40	1,00	0,10	2,00	0,07	0,02	0,12
CCGT 09T304-FS	CCGT 32.51-FS	9,525	3,97	0,40	4,40	1,25	0,15	2,50	0,15	0,08	0,25
CCGT 060202-LN	CCGT 21.50.5-LN	6,350	2,38	0,20	2,80	1,00	0,05	3,00	0,07	0,05	0,12
CCGT 060204-LN	CCGT 21.51-LN	6,350	2,38	0,40	2,80	1,55	0,10	3,00	0,15	0,10	0,20
CCGT 09T302-LN	CCGT 32.50.5-LN	9,525	3,97	0,20	4,40	1,53	0,05	3,00	0,07	0,05	0,12
CCGT 09T304-LN	CCGT 32.51-LN	9,525	3,97	0,40	4,40	2,55	0,10	5,00	0,16	0,10	0,22
CCGT 09T308-LN	CCGT 32.52-LN	9,525	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,45
CCGT 120402-LN	CCGT 430.5-LN	12,700	4,76	0,20	5,50	2,03	0,05	4,00	0,07	0,05	0,12
CCGT 120404-LN	CCGT 431-LN	12,700	4,76	0,40	5,50	2,55	0,10	5,00	0,17	0,10	0,26
CCGT 120408-LN	CCGT 432-LN	12,700	4,76	0,80	5,50	2,80	0,10	5,50	0,25	0,15	0,50

DC - RHOMBIC 55° POSITIVE

RÔMBICA 55° POSITIVA | RÓMBICA 55° POSITIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning









External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P											M					K			N	S						
			CVD							PVD				CVD		PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 DCMW Finishing	1120302	DCMW 070202																											
	1120303	DCMW 070204																											
	1121422	DCMW 070208																											
	1120304	DCMW 11T302																											
	1120305	DCMW 11T304																											
 NEW DCMT-FF Fine Finishing	1121389	DCMT 11T302-FF																											
	1121390	DCMT 11T304-FF																											
	1121391	DCMT 11T308-FF																											
 DCMT-FP Finishing	1121675	DCMT 070202-FP			○		⊗																						
	1121678	DCMT 070204-FP	⊗	⊗	⊗	⊗																							
	1121668	DCMT 11T302-FP					⊗				⊗																		
	1121711	DCMT 11T304-FP	⊗	⊗	⊗	⊗																							
 DCMT-FM Finishing	1121674	DCMT 070202-FM															⊗		⊗								⊗		⊗
	1121677	DCMT 070204-FM														⊗		⊗		⊗							⊗		⊗
	1121667	DCMT 11T302-FM															⊗		⊗								⊗		⊗
	1121710	DCMT 11T304-FM														⊗		⊗		⊗							⊗		⊗
	1121712	DCMT 11T308-FM														⊗	△	⊗		⊗					△		⊗		⊗
 DCMT-FK Finishing	1121673	DCMT 070202-FK																											
	1121676	DCMT 070204-FK																											
	1121714	DCMT 11T302-FK																											
 DCMT-FW Finishing Wiper	1121749	DCMT 070204-FW			○																								
	1121750	DCMT 070208-FW		⊗	○																								
	1121745	DCMT 11T304-FW			⊗																								
	1121755	DCMT 11T308-FW			⊗																								
 DCMT-LM Medium to Finishing	1123802	DCMT 11T304-LM																											
	1123803	DCMT 11T308-LM																											
 DCMT-MW Medium to Finishing Wiper	1121414	DCMT 11T304-MW			○																								
	1121756	DCMT 11T308-MW		⊗	○																								

⊗ First choice | 1ª Escolha | 1ª Opción

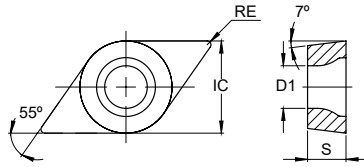
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

△ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DCMW 070202	DCMW 21.50.5	6,350	2,38	0,20	2,80	1,60	0,05	3,20	0,10	0,04	0,13
DCMW 070204	DCMW 21.51	6,350	2,38	0,40	2,80	1,60	0,05	3,20	0,20	0,08	0,26
DCMW 070208	DCMW 21.52	6,350	2,38	0,80	2,80	1,60	0,05	3,20	0,40	0,16	0,53
DCMW 11T302	DCMW 32.50.5	9,525	3,97	0,20	4,40	2,40	0,05	4,80	0,10	0,04	0,13
DCMW 11T304	DCMW 32.51	9,525	3,97	0,40	4,40	2,40	0,05	4,80	0,20	0,08	0,26
DCMW 11T308	DCMW 32.52	9,525	3,97	0,80	4,40	2,40	0,05	4,80	0,40	0,16	0,53
DCMW 150404	DCMW 431	12,700	4,76	0,40	5,50	2,80	0,10	5,50	0,20	0,10	0,26
DCMT 11T302-FF	DCMT 32.50.5-FF	9,525	3,97	0,20	4,40	0,30	0,08	2,00	0,08	0,04	0,15
DCMT 11T304-FF	DCMT 32.51-FF	9,525	3,97	0,40	4,40	0,50	0,11	2,00	0,11	0,06	0,23
DCMT 11T308-FF	DCMT 32.52-FF	9,525	3,97	0,80	4,40	0,80	0,15	2,00	0,15	0,08	0,30
DCMT 070202-FP	DCMT 21.50.5-FP	6,350	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
DCMT 070204-FP	DCMT 21.51-FP	6,350	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
DCMT 11T302-FP	DCMT 32.50.5-FP	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
DCMT 11T304-FP	DCMT 32.51-FP	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
DCMT 11T308-FP	DCMT 32.52-FP	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
DCMT 070202-FM	DCMT 21.50.5-FM	6,350	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
DCMT 070204-FM	DCMT 21.51-FM	6,350	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
DCMT 11T302-FM	DCMT 32.50.5-FM	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
DCMT 11T304-FM	DCMT 32.51-FM	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
DCMT 11T308-FM	DCMT 32.52-FM	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
DCMT 070202-FK	DCMT 21.50.5-FK	6,350	2,38	0,20	2,80	0,26	0,06	1,50	0,06	0,03	0,11
DCMT 070204-FK	DCMT 21.51-FK	6,350	2,38	0,40	2,80	0,26	0,08	1,50	0,08	0,05	0,17
DCMT 11T302-FK	DCMT 32.50.5-FK	9,525	3,97	0,20	4,40	0,35	0,08	2,00	0,08	0,04	0,15
DCMT 11T304-FK	DCMT 32.51-FK	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
DCMT 070204-FW	DCMT 21.51-FW	6,350	2,38	0,40	2,80	0,70	0,30	2,00	0,12	0,05	0,25
DCMT 070208-FW	DCMT 21.52-FW	6,350	2,38	0,80	2,80	0,70	0,30	2,00	0,15	0,09	0,35
DCMT 11T304-FW	DCMT 32.51-FW	9,525	3,97	0,40	4,40	1,00	0,30	3,00	0,20	0,07	0,30
DCMT 11T308-FW	DCMT 32.52-FW	9,525	3,97	0,80	4,40	1,00	0,30	3,00	0,25	0,12	0,40
DCMT 11T304-LM	DCMT 32.51-LM	9,525	3,97	0,40	4,40	0,50	0,15	2,50	0,15	0,08	0,25
DCMT 11T308-LM	DCMT 32.52-LM	9,525	3,97	0,80	4,40	0,50	0,20	2,50	0,20	0,10	0,35
DCMT 11T304-MW	DCMT 32.51-MW	9,525	3,97	0,40	4,40	1,50	0,50	4,00	0,25	0,12	0,40
DCMT 11T308-MW	DCMT 32.52-MW	9,525	3,97	0,80	4,40	1,50	0,50	4,00	0,30	0,15	0,50

DC - RHOMBIC 55° POSITIVE

RÔMBICA 55° POSITIVA | RÓMBICA 55° POSITIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning






External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P											M					K			N	S					
			CVD							PVD				CVD		PVD			UNC	CVD			UNC	PVD				
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 DCMT-MP Medium	1121681	DCMT 070204-MP		⊗	⊗	⊗	⊗					⊗																
	1121684	DCMT 070208-MP			⊗	⊗	⊗																					
	1121648	DCMT 11T304-MP			⊗		⊗					⊗																
	1121706	DCMT 11T308-MP		⊗	⊗	⊗	⊗					⊗																
	1121708	DCMT 11T312-MP		⊗	○		⊗																					
	1124783	DCMT 11T312-MP1			○		⊗																					
 DCMT-MM Medium	1121680	DCMT 070204-MM												⊗		⊗	⊗	⊗								⊗	⊗	⊗
	1121683	DCMT 070208-MM												⊗		⊗	⊗	⊗								⊗	⊗	⊗
	1121647	DCMT 11T304-MM												⊗		⊗	⊗	⊗								⊗	⊗	⊗
	1121705	DCMT 11T308-MM												⊗		⊗	⊗	⊗								⊗	⊗	⊗
	1121707	DCMT 11T312-MM												⊗		⊗	⊗	⊗								⊗	⊗	⊗
 DCMT-MK Medium	1121679	DCMT 070204-MK																			⊗	⊗						
	1121682	DCMT 070208-MK																				⊗	⊗					
	1121646	DCMT 11T304-MK																				⊗	⊗					
	1121704	DCMT 11T308-MK																				⊗	⊗					
	1121955	DCMT 11T312-MK																				⊗	⊗					
 DCGT-FS Finishing to Fine Finishing	1121747	DCGT 070201-FS															⊗		⊗							⊗		⊗
	1121748	DCGT 070202-FS															⊗		⊗							⊗		⊗
	1121872	DCGT 070204-FS															⊗		⊗							⊗		⊗
	1121873	DCGT 11T301-FS															⊗		⊗							⊗		⊗
	1121874	DCGT 11T302-FS															⊗		⊗							⊗		⊗
	1121875	DCGT 11T304-FS															⊗		⊗							⊗		⊗
	1124101	DCGT 11T308-FS															⊗		⊗							⊗		⊗
 DCGT-LN Medium to Finishing	1121900	DCGT 070202-LN															⊗		⊗					⊗		⊗		⊗
	1121901	DCGT 070204-LN															⊗		⊗					⊗		⊗		⊗
	1111540	DCGT 11T302-LN															⊗		⊗					⊗		⊗		⊗
	1111534	DCGT 11T304-LN															⊗		⊗					⊗		⊗		⊗
	1121904	DCGT 11T308-LN															⊗		⊗					⊗		⊗		⊗
	1124004	DCGT 11T312-LN															⊗		⊗					⊗		⊗		⊗

⊗ First choice | 1ª Escolha | 1ª Opción

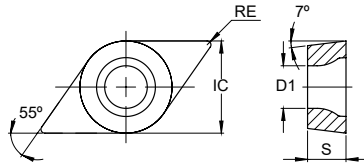
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
DCMT 070204-MP	DCMT 21.51-MP	6,350	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
DCMT 070208-MP	DCMT 21.52-MP	6,350	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
DCMT 11T304-MP	DCMT 32.51-MP	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
DCMT 11T308-MP	DCMT 32.52-MP	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
DCMT 11T312-MP	DCMT 32.53-MP	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
DCMT 11T312-MP1	DCMT 32.53-MP1	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
DCMT 070204-MM	DCMT 21.51-MM	6,350	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
DCMT 070208-MM	DCMT 21.52-MM	6,350	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
DCMT 11T304-MM	DCMT 32.51-MM	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
DCMT 11T308-MM	DCMT 32.52-MM	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
DCMT 11T312-MM	DCMT 32.53-MM	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
DCMT 070204-MK	DCMT 21.51-MK	6,350	2,38	0,40	2,80	0,60	0,19	2,25	0,11	0,06	0,17
DCMT 070208-MK	DCMT 21.52-MK	6,350	2,38	0,80	2,80	0,60	0,38	2,25	0,20	0,08	0,35
DCMT 11T304-MK	DCMT 32.51-MK	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
DCMT 11T308-MK	DCMT 32.52-MK	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
DCMT 11T312-MK	DCMT 32.53-MK	9,525	3,97	1,20	4,40	0,80	0,50	3,00	0,35	0,12	0,60
DCGT 070201-FS	DCGT 21.50.2-FS	6,350	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,06
DCGT 070202-FS	DCGT 21.50.5-FS	6,350	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
DCGT 070204-FS	DCGT 21.51-FS	6,350	2,38	0,40	2,80	0,80	0,15	1,50	0,15	0,08	0,25
DCGT 11T301-FS	DCGT 32.50.2-FS	9,525	3,97	0,10	4,40	0,50	0,10	1,50	0,03	0,01	0,06
DCGT 11T302-FS	DCGT 32.50.5-FS	9,525	3,97	0,20	4,40	1,00	0,10	2,00	0,07	0,02	0,12
DCGT 11T304-FS	DCGT 32.51-FS	9,525	3,97	0,40	4,40	1,50	0,15	3,00	0,15	0,08	0,25
DCGT 11T308-FS	DCGT 32.52-FS	9,525	3,97	0,80	4,40	2,00	0,20	3,50	0,18	0,10	0,30
DCGT 070202-LN	DCGT 21.50.5-LN	6,350	2,38	0,20	2,80	1,00	0,05	3,00	0,07	0,05	0,12
DCGT 070204-LN	DCGT 21.51-LN	6,350	2,38	0,40	2,80	2,05	0,10	4,00	0,15	0,10	0,20
DCGT 11T302-LN	DCGT 32.50.5-LN	9,525	3,97	0,20	4,40	2,03	0,05	4,00	0,07	0,05	0,12
DCGT 11T304-LN	DCGT 32.51-LN	9,525	3,97	0,40	4,40	2,55	0,10	5,00	0,16	0,10	0,22
DCGT 11T308-LN	DCGT 32.52-LN	9,525	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,50
DCGT 11T312-LN	DCGT 32.53-LN	9,525	3,97	1,20	4,40	2,70	0,15	5,00	0,35	0,15	0,70

RC - ROUND R° POSITIVE

REDONDA R° POSITIVA | REDONDA R° POSITIVA

TURNING

			P											M					K				N	S						
			CVD							PVD				CVD		PVD			UNC	CVD		UNC	PVD							
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
 Negative inserts Finishing to Fine Finishing	RCGT-LN	1124005	RCGT 0602M0-LN																											
		1124006	RCGT 0803M0-LN																											
		1124007	RCGT 1003M0-LN																											
		1123684	RCGT 1204M0-LN																											
 Positive inserts Medium to Finishing	RCMT-GS	1125011	RCMT 0602M0-GS																											
		1124495	RCMT 0803M0-GS																											
		1124496	RCMT 1003M0-GS																											
		1125010	RCMT 1204M0-GS																											
 PCBN & PCD inserts Medium	RCMT-CP	1120384	RCMT 0602M0-CP																											
		1120385	RCMT 0803M0-ST																											
 Heavy turning Roughing to Medium	RCMT-ST	1120386	RCMT 1003M0-ST																											
		1120387	RCMT 10T3M0-ST																											
		1120388	RCMT 1204M0-ST																											
		1120389	RCMT 1606M0-ST																											
 External Toolholders Roughing to Medium	RCMT-RF	1120390	RCMT 2006M0-ST																											
		1123848	RCMT 2507M0-RF																											
 Internal Toolholders Roughing to Medium	RCMT-RM	1123856	RCMT 2006M0-RM																											
		1121425	RCMX 1003M0-ST																											
 Automatic Lathes Roughing to Medium	RCMX-ST	1121426	RCMX 1204M0-ST																											
		1121427	RCMX 1606M0-ST																											
		1121428	RCMX 2006M0-ST																											
		1121429	RCMX 2507M0-ST																											
		1123910	RCMX 3009M0-ST																											
 Spare Parts Roughing to Medium	RCMX-RM	1121430	RCMX 3209M0-ST																											
		1123678	RCMX 3209M0-RM																											
 Technical Data Roughing to Medium	RCMX-RR	1123667	RCMX 2507M0-RR																											
		1123666	RCMX 3209M0-RR																											

⊕ First choice | 1ª Escolha | 1ª Opción

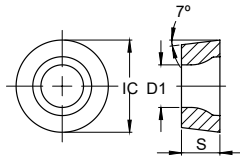
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊕ Stock items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
RCGT 0602M0-LN	RCGT 0602M0-LN	6,00	2,38	-	2,80	1,25	0,50	2,00	0,13	0,05	0,20
RCGT 0803M0-LN	RCGT 0803M0-LN	8,00	3,18	-	3,40	1,50	0,50	2,50	0,15	0,05	0,25
RCGT 1003M0-LN	RCGT 1003M0-LN	10,00	3,18	-	4,40	2,00	1,00	3,00	0,20	0,10	0,30
RCGT 1204M0-LN	RCGT 1204M0-LN	12,00	4,76	-	4,40	2,25	1,00	3,50	0,23	0,10	0,35
RCMT 0602M0-GS	RCMT 0602M0-GS	6,00	2,38	-	2,80	0,90	0,30	1,50	0,25	0,15	0,40
RCMT 0803M0-GS	RCMT 0803M0-GS	8,00	3,18	-	3,40	1,20	0,40	2,00	0,28	0,15	0,40
RCMT 1003M0-GS	RCMT 1003M0-GS	10,00	3,18	-	4,40	1,50	0,50	2,50	0,3	0,15	0,45
RCMT 1204M0-GS	RCMT 1204M0-GS	12,00	4,76	-	4,40	1,80	0,60	3,00	0,35	0,15	0,50
RCMT 0602M0-CP	RCMT 0602M0-CP	6,00	2,38	-	2,80	1,50	0,50	2,40	0,15	0,04	0,17
RCMT 0803M0-ST	RCMT 0803M0-ST	8,00	3,18	-	3,40	2,00	0,80	3,20	0,20	0,10	0,80
RCMT 1003M0-ST	RCMT 1003M0-ST	10,00	3,18	-	3,40	2,50	1,00	4,00	0,25	0,12	1,00
RCMT 10T3M0-ST	RCMT 10T3M0-ST	10,00	3,97	-	4,40	2,50	1,00	4,00	0,25	0,16	1,40
RCMT 1204M0-ST	RCMT 1204M0-ST	12,00	4,76	-	4,40	3,00	1,20	4,80	0,30	0,20	1,80
RCMT 1606M0-ST	RCMT 1606M0-ST	16,00	6,35	-	5,50	3,50	1,60	6,40	0,37	0,25	2,30
RCMT 2006M0-ST	RCMT 2006M0-ST	20,00	6,35	-	6,50	4,00	2,00	8,00	0,45	0,30	3,00
RCMT 2507M0-RF	RCMT 2507M0-RF	25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
RCMT 2006M0-RM	RCMT 2006M0-RM	20,00	6,35	-	6,50	4,00	2,00	8,00	0,45	0,13	0,63
RCMX 1003M0-ST	RCMX 1003M0-ST	10,00	3,18	-	3,60	2,50	1,00	4,00	0,32	0,10	1,00
RCMX 1204M0-ST	RCMX 1204M0-ST	12,00	4,76	-	4,20	3,00	1,20	4,80	0,38	0,12	1,20
RCMX 1606M0-ST	RCMX 1606M0-ST	16,00	6,35	-	5,20	4,00	1,60	6,40	0,51	0,16	1,60
RCMX 2006M0-ST	RCMX 2006M0-ST	20,00	6,35	-	6,50	5,00	2,00	8,00	0,63	0,20	2,00
RCMX 2507M0-ST	RCMX 2507M0-ST	25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
RCMX 3209M0-ST	RCMX 3209M0-ST	30,00	9,55	-	10,00	7,00	3,00	11,00	0,85	0,30	2,80
RCMX 3209M0-ST	RCMX 3209M0-ST	32,00	9,52	-	9,50	8,00	3,20	12,80	1,01	0,32	3,20
RCMX 3209M0-RM	RCMX 3209M0-RM	32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50
RCMX 2507M0-RR	RCMX 2507M0-RR	25,00	7,94	-	7,20	5,00	3,20	8,00	1,80	0,80	2,50
RCMX 3209M0-RR	RCMX 3209M0-RR	32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50

SC - SQUARE 90° POSITIVE

QUADRADA 90° POSITIVA | ESCUADRA 90° POSITIVA

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning









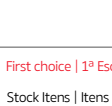
External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

			P											M					K			N	S						
			CVD						PVD					CVD		PVD			UNC	CVD		UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 SCMW Finishing	1120469	SCMW 09T304																											
	1120470	SCMW 09T308																											
	1120472	SCMW 120408																											
 SCMT-FP Finishing	1121759	SCMT 09T304-FP			⊗		⊗																						
	1121765	SCMT 09T308-FP			⊗		⊗																						
 SCMT-FM Finishing	1121758	SCMT 09T304-FM													⊗						⊗								⊗
	1121764	SCMT 09T308-FM													⊗							⊗							⊗
 SCMT-FK Finishing	1121757	SCMT 09T304-FK																											
	1121763	SCMT 09T308-FK																											
 SCMT-MP Medium	1121762	SCMT 09T304-MP			⊗		⊗	⊗																					
	1121768	SCMT 09T308-MP			⊗		⊗	⊗																					
	1121770	SCMT 120404-MP			⊗		⊗	⊗																					
	1121783	SCMT 120408-MP			⊗		⊗																						
 SCMT-MM Medium	1121785	SCMT 120412-MP			⊗		⊗	⊗																					
	1121761	SCMT 09T304-MM																											
	1121767	SCMT 09T308-MM																											
	1121769	SCMT 120404-MM																											
 SCMT-MK Medium	1121782	SCMT 120408-MM																											
	1121784	SCMT 120412-MM																											
	1121760	SCMT 09T304-MK																											
	1121766	SCMT 09T308-MK																											
 SCGT-LN Medium to Finishing	1121781	SCMT 120408-MK																											
	1124008	SCGT 09T304-LN																											
	1124009	SCGT 09T308-LN																											
 Medium to Finishing	1124743	SCGT 120402-LN																											
	1124010	SCGT 120404-LN																											
1123685	SCGT 120408-LN																												

⊗ First choice | 1ª Escolha | 1ª Opción

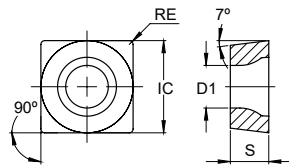
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SCMW 09T304	SCMW 32.51	9,525	3,97	0,40	4,40	2,40	0,05	4,70	0,20	0,08	0,26
SCMW 09T308	SCMW 32.52	9,525	3,97	0,80	4,40	2,40	0,05	4,70	0,40	0,16	0,53
SCMW 120408	SCMW 432	12,700	4,76	0,80	5,50	3,20	0,05	6,30	0,40	0,16	0,53
SCMT 09T304-FP	SCMT 32.51-FP	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
SCMT 09T308-FP	SCMT 32.52-FP	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
SCMT 09T304-FM	SCMT 32.51-FM	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
SCMT 09T308-FM	SCMT 32.52-FM	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
SCMT 09T304-FK	SCMT 32.51-FK	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
SCMT 09T308-FK	SCMT 32.52-FK	9,525	3,97	0,80	4,40	0,35	0,15	2,00	0,15	0,08	0,30
SCMT 09T304-MP	SCMT 32.51-MP	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
SCMT 09T308-MP	SCMT 32.52-MP	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
SCMT 120404-MP	SCMT 431-MP	12,700	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
SCMT 120408-MP	SCMT 432-MP	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
SCMT 120412-MP	SCMT 433-MP	12,700	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
SCMT 09T304-MM	SCMT 32.51-MM	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
SCMT 09T308-MM	SCMT 32.52-MM	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
SCMT 120404-MM	SCMT 431-MM	12,700	4,76	0,40	5,50	0,96	0,30	3,60	0,18	0,09	0,27
SCMT 120408-MM	SCMT 432-MM	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
SCMT 120412-MM	SCMT 433-MM	12,700	4,76	1,20	5,50	0,96	0,72	3,60	0,35	0,14	0,60
SCMT 09T304-MK	SCMT 32.51-MK	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
SCMT 09T308-MK	SCMT 32.52-MK	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,25	0,10	0,40
SCMT 120408-MK	SCMT 432-MK	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
SCGT 09T304-LN	SCGT 32.51-LN	9,525	3,97	0,40	4,40	2,05	0,10	4,00	0,16	0,10	0,26
SCGT 09T308-LN	SCGT 32.52-LN	9,525	3,97	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,40
SCGT 120402-LN	SCGT 430.5-LN	12,700	4,76	0,20	5,50	2,50	0,10	4,50	0,15	0,08	0,25
SCGT 120404-LN	SCGT 431-LN	12,700	4,76	0,40	5,50	2,55	0,10	5,00	0,20	0,10	0,26
SCGT 120408-LN	SCGT 432-LN	12,700	4,76	0,80	5,50	2,55	0,10	5,00	0,30	0,15	0,50

C SP - SQUARE 90° POSITIVE

QUADRADA 90° POSITIVA | ESCUADRA 90° POSITIVA

TURNING

			P							M					K				N	S					
			CVD				PVD			CVD		PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	L7	R2	L8	R3	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PH5115	PHG115	PH5125	PHG125	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 SPUN Negative inserts	1120580	SPUN 120304			⊗																				
	1120581	SPUN 120308	⊗		⊗																				
	Medium to Finishing 1120583	SPUN 120312			⊗																				
 SPMR-12 Positive inserts	1120561	SPMR 090308-12	⊗		⊗																				
	1120563	SPMR 120304-12	⊗																						
	Finishing to Fine Finishing 1120565	SPMR 120308-12	⊗																						
 SPMR-13 PCBN & PCD inserts	1120562	SPMR 090308-13	⊗																						
	1120564	SPMR 120304-13	⊗		⊗																				
	1120566	SPMR 120308-13	⊗		⊗																				
	Medium 1120567	SPMR 120312-13	⊗		⊗																				

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Heavy turning

External Toolholders

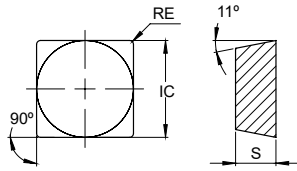
Internal Toolholders

Automatic Lathes

Spare Parts

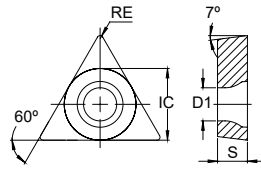
Technical Data

RELIEF ANGLE 11°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SPUN 120304	SPUN 421	12,700	3,18	0,40	-	3,00	1,00	5,00	0,20	0,10	0,30
SPUN 120308	SPUN 422	12,700	3,18	0,80	-	3,00	1,00	5,00	0,25	0,15	0,40
SPUN 120312	SPUN 423	12,700	3,18	1,20	-	3,00	1,00	5,00	0,35	0,20	0,50
SPMR 090308-12	SPMR 322-12	9,525	3,18	0,80	-	1,00	0,30	2,00	0,20	0,10	0,30
SPMR 120304-12	SPMR 421-12	12,700	3,18	0,40	-	1,30	0,50	2,00	0,15	0,08	0,25
SPMR 120308-12	SPMR 422-12	12,700	3,18	0,80	-	1,30	0,50	2,00	0,22	0,10	0,30
SPMR 090308-13	SPMR 322-13	9,525	3,18	0,80	-	2,20	1,00	3,50	0,25	0,10	0,40
SPMR 120304-13	SPMR 421-13	12,700	3,18	0,40	-	2,60	1,50	4,00	0,10	0,07	0,20
SPMR 120308-13	SPMR 422-13	12,700	3,18	0,80	-	2,60	1,50	4,00	0,30	0,20	0,40
SPMR 120312-13	SPMR-423-13	12,700	3,18	1,20	-	2,60	1,50	4,00	0,40	0,25	0,55

RELIEF ANGLE 7°






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TCMW 110204	TCMW 21.51	6,350	2,38	0,40	2,80	1,50	0,05	3,10	0,20	0,08	0,26
TCMW 16T304	TCMW 32.51	9,525	3,97	0,40	4,40	2,30	0,05	4,70	0,20	0,08	0,26
TCMW 16T308	TCMW 32.52	9,525	3,97	0,80	4,40	2,30	0,05	4,70	0,40	0,16	0,53
TCMT 220408	TCMT 432	12,700	4,76	0,80	5,50	2,30	0,05	6,30	0,33	0,15	0,53
TCMT 06T102-FP	TCMT 1.21.20.5-FP	3,970	1,98	0,20	2,15	0,26	0,06	1,50	0,06	0,03	0,11
TCMT 06T104-FP	TCMT 1.21.21-FP	3,970	1,98	0,40	2,15	0,26	0,08	1,50	0,08	0,05	0,17
TCMT 06T108-FP	TCMT 1.21.22-FP	3,970	1,98	0,80	2,15	0,26	0,11	1,50	0,11	0,06	0,23
TCMT 090202-FP	TCMT 1.81.50.5-FP	5,560	2,38	0,20	2,50	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 090204-FP	TCMT 1.81.51-FP	5,560	2,38	0,40	2,50	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110202-FP	TCMT 21.50.5-FP	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110204-FP	TCMT 21.51-FP	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110208-FP	TCMT 21.52-FP	6,350	2,38	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
TCMT 110302-FP	TCMT 220.5-FP	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110304-FP	TCMT 221-FP	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110308-FP	TCMT 222-FP	6,350	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
TCMT 16T304-FP	TCMT 32.51-FP	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
TCMT 06T102-FM	TCMT 1.21.20.5-FM	3,970	1,98	0,20	2,15	0,26	0,06	1,50	0,06	0,03	0,11
TCMT 06T104-FM	TCMT 1.21.21-FM	3,970	1,98	0,40	2,15	0,26	0,08	1,50	0,08	0,05	0,17
TCMT 06T108-FM	TCMT 1.21.22-FM	3,970	1,98	0,80	2,15	0,26	0,11	1,50	0,11	0,06	0,23
TCMT 090202-FM	TCMT 1.81.50.5-FM	5,560	2,38	0,20	2,50	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 090204-FM	TCMT 1.81.51-FM	5,560	2,38	0,40	2,50	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110202-FM	TCMT 21.50.5-FM	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110204-FM	TCMT 21.51-FM	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110208-FM	TCMT 21.52-FM	6,350	2,38	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
TCMT 110302-FM	TCMT 220.5-FM	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110304-FM	TCMT 221-FM	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110308-FM	TCMT 222-FM	6,350	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
TCMT 16T304-FM	TCMT 32.51-FM	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23

TC - TRIANGULAR 60° POSITIVE

TRIANGULAR 60° POSITIVA | TRIANGULAR 60° POSITIVA

TURNING

			P											M					K			N	S							
			CVD							PVD				CVD		PVD			UNC	CVD			UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
 TCMT-FK Finishing	1121786	TCMT 06T102-FK																												
	1121789	TCMT 06T104-FK																												
	1121800	TCMT 06T108-FK																												
	1123668	TCMT 090202-FK																												
	1121805	TCMT 090204-FK																												
	1121956	TCMT 110202-FK																												
	1121957	TCMT 110204-FK																												
	1121813	TCMT 110302-FK																												
	1121814	TCMT 110304-FK																												
1121830	TCMT 16T304-FK																													
 TCMT-FW Finishing Wiper	1121808	TCMT 090204-FW																												
	1121809	TCMT 090208-FW																												
	1121964	TCMT 110204-FW																												
	1121965	TCMT 110208-FW																												
	1121817	TCMT 110304-FW																												
	1121824	TCMT 110308-FW																												
	1121833	TCMT 16T304-FW																												
	1121837	TCMT 16T308-FW																												
 TCMT-MW Medium to Finishing Wiper	1121974	TCMT 110208-MW																												
	1121828	TCMT 110308-MW																												
	1121841	TCMT 16T308-MW																												

🔴 First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

🟡 Stock items | Itens de stock

🟢 Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

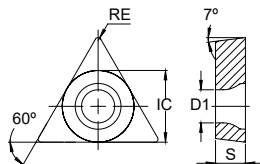
Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

RELIEF ANGLE 7°






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TCMT 06T102-FK	TCMT 1.21.20.5-FK	3,970	1,98	0,20	2,15	0,26	0,06	1,50	0,06	0,03	0,11
TCMT 06T104-FK	TCMT 1.21.21-FK	3,970	1,98	0,40	2,15	0,26	0,08	1,50	0,08	0,05	0,17
TCMT 06T108-FK	TCMT 1.21.22-FK	3,970	1,98	0,80	2,15	0,26	0,11	1,50	0,11	0,06	0,23
TCMT 090202-FK	TCMT 1.81.50.5-FK	5,560	2,38	0,20	2,50	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 090204-FK	TCMT 1.81.51-FK	5,560	2,38	0,40	2,50	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110202-FK	TCMT 21.50.5-FK	6,350	2,38	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110204-FK	TCMT 21.51-FK	6,350	2,38	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 110302-FK	TCMT 220.5-FK	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
TCMT 110304-FK	TCMT 221-FK	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
TCMT 16T304-FK	TCMT 32.51-FK	9,525	3,97	0,40	4,40	0,35	0,11	2,00	0,11	0,06	0,23
TCMT 090204-FW	TCMT 1.81.51-FW	5,560	2,38	0,40	2,50	0,70	0,30	2,00	0,12	0,05	0,30
TCMT 090208-FW	TCMT 1.81.52-FW	5,560	2,38	0,80	2,50	0,70	0,30	2,00	0,25	0,10	0,35
TCMT 110204-FW	TCMT 21.51-FW	6,350	2,38	0,40	2,80	1,00	0,30	2,50	0,20	0,07	0,30
TCMT 110208-FW	TCMT 21.52-FW	6,350	2,38	0,80	2,80	1,00	0,30	2,50	0,25	0,12	0,40
TCMT 110304-FW	TCMT 221-FW	6,350	3,18	0,40	2,80	1,00	0,30	2,50	0,20	0,07	0,30
TCMT 110308-FW	TCMT 222-FW	6,350	3,18	0,80	2,80	1,00	0,30	2,50	0,25	0,12	0,40
TCMT 16T304-FW	TCMT 32.51-FW	9,525	3,97	0,40	4,40	1,20	0,30	3,50	0,20	0,07	0,35
TCMT 16T308-FW	TCMT 32.52-FW	9,525	3,97	0,80	4,40	1,20	0,30	3,50	0,25	0,12	0,50
TCMT 110208-MW	TCMT 21.52-MW	6,350	2,38	0,80	2,80	1,20	0,50	3,00	0,30	0,15	0,50
TCMT 110308-MW	TCMT 222-MW	6,350	3,18	0,80	2,80	1,20	0,50	3,00	0,30	0,15	0,50
TCMT 16T308-MW	TCMT 32.52-MW	9,525	3,97	0,80	4,40	1,50	0,50	4,00	0,30	0,15	0,50

TC - TRIANGULAR 60° POSITIVE

TRIANGULAR 60° POSITIVA | TRIANGULAR 60° POSITIVA

TURNING

			P											M					K			N	S								
			CVD						PVD					CVD		PVD			UNC	CVD			UNC	PVD							
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3			
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920			
 <p>TCMT-MP Medium</p>	1121703	TCMT 090204-MP	⊕	⊕	⊕	⊕																									
	1121812	TCMT 090208-MP			○		⊕																								
	1121970	TCMT 110204-MP			⊕	⊕	⊕					⊕																			
	1121971	TCMT 110208-MP	⊕	⊕	⊕	⊕																									
	1121972	TCMT 110212-MP	⊕	○	⊕	○																									
	1121820	TCMT 110304-MP			○		⊕																								
	1121827	TCMT 110308-MP	⊕	○	⊕	⊕																									
	1121829	TCMT 110312-MP			○		○																								
	1121836	TCMT 16T304-MP		⊕	○	⊕	⊕																								
	1121840	TCMT 16T308-MP		⊕	⊕	⊕	⊕						⊕																		
	1121844	TCMT 16T312-MP		⊕	○	⊕	○																								
	1121849	TCMT 220408-MP		⊕	○	⊕	○		⊕																						
 <p>TCMT-MM Medium</p>	1121702	TCMT 090204-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121811	TCMT 090208-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121968	TCMT 110204-MM												⊕	⊕	⊕	⊕	⊕						⊕	⊕	⊕	⊕	⊕			
	1121969	TCMT 110208-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121819	TCMT 110304-MM												⊕		⊕	⊕	⊕									⊕	⊕			
	1121826	TCMT 110308-MM												⊕		⊕	⊕	⊕									⊕	⊕			
	1121835	TCMT 16T304-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121839	TCMT 16T308-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121843	TCMT 16T312-MM												⊕		⊕	⊕	⊕								⊕	⊕	⊕			
	1121848	TCMT 220408-MM												⊕		⊕	⊕	⊕									⊕	⊕			
 <p>TCMT-MK Medium</p>	1121701	TCMT 090204-MK																		⊕	⊕										
	1121810	TCMT 090208-MK																			⊕	⊕									
	1121966	TCMT 110204-MK																			⊕	⊕									
	1121967	TCMT 110208-MK																			⊕	⊕									
	1121818	TCMT 110304-MK																			⊕	⊕									
	1121825	TCMT 110308-MK																			⊕	⊕									
	1121834	TCMT 16T304-MK																			⊕	⊕									
	1121838	TCMT 16T308-MK																			⊕	⊕									
	1121842	TCMT 16T312-MK																			⊕	⊕									
	1121847	TCMT 220408-MK																			⊕	⊕									

⊕ First choice | 1ª Escolha | 1ª Opción

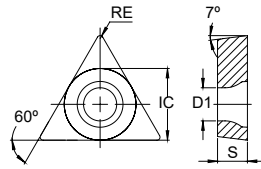
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊕ Stock Items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°





ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TCMT 090204-MP	TCMT 1.81.51-MP	5,560	2,38	0,40	2,50	0,60	0,19	2,25	0,11	0,06	0,17
TCMT 090208-MP	TCMT 1.81.52-MP	5,560	2,38	0,80	2,50	0,60	0,38	2,25	0,15	0,08	0,23
TCMT 110204-MP	TCMT 21.51-MP	6,350	2,38	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110208-MP	TCMT 21.52-MP	6,350	2,38	0,80	2,80	0,67	0,42	2,50	0,17	0,09	0,26
TCMT 110212-MP	TCMT 21.53-MP	6,350	2,38	1,20	2,80	0,67	0,50	2,50	0,20	0,10	0,40
TCMT 110304-MP	TCMT 221-MP	6,350	3,18	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110308-MP	TCMT 222-MP	6,350	3,18	0,80	2,80	0,67	0,42	2,50	0,20	0,09	0,40
TCMT 110312-MP	TCMT 223-MP	6,350	3,18	1,20	2,80	0,67	0,50	2,50	0,30	0,10	0,50
TCMT 16T304-MP	TCMT 32.51-MP	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,25
TCMT 16T308-MP	TCMT 32.52-MP	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,22	0,10	0,45
TCMT 16T312-MP	TCMT 32.53-MP	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
TCMT 220408-MP	TCMT 432-MP	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
TCMT 090204-MM	TCMT 1.81.51-MM	5,560	2,38	0,40	2,50	0,60	0,19	2,25	0,11	0,06	0,17
TCMT 090208-MM	TCMT 1.81.52-MM	5,560	2,38	0,80	2,50	0,60	0,38	2,25	0,15	0,08	0,23
TCMT 110204-MM	TCMT 21.51-MM	6,350	2,38	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110208-MM	TCMT 21.52-MM	6,350	2,38	0,80	2,80	0,67	0,42	2,50	0,17	0,09	0,26
TCMT 110304-MM	TCMT 221-MM	6,350	3,18	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110308-MM	TCMT 222-MM	6,350	3,18	0,80	2,80	0,67	0,42	2,50	0,20	0,09	0,40
TCMT 16T304-MM	TCMT 32.51-MM	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
TCMT 16T308-MM	TCMT 32.52-MM	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,22	0,10	0,45
TCMT 16T312-MM	TCMT 32.53-MM	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
TCMT 220408-MM	TCMT 432-MM	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45
TCMT 090204-MK	TCMT 1.81.51-MK	5,560	2,38	0,40	2,50	0,60	0,19	2,25	0,11	0,06	0,17
TCMT 090208-MK	TCMT 1.81.52-MK	5,560	2,38	0,80	2,50	0,60	0,38	2,25	0,15	0,08	0,23
TCMT 110204-MK	TCMT 21.51-MK	6,350	2,38	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110208-MK	TCMT 21.52-MK	6,350	2,38	0,80	2,80	0,67	0,42	2,50	0,17	0,09	0,26
TCMT 110304-MK	TCMT 221-MK	6,350	3,18	0,40	2,80	0,67	0,21	2,50	0,13	0,06	0,19
TCMT 110308-MK	TCMT 222-MK	6,350	3,18	0,80	2,80	0,67	0,42	2,50	0,20	0,09	0,40
TCMT 16T304-MK	TCMT 32.51-MK	9,525	3,97	0,40	4,40	0,80	0,25	3,00	0,15	0,08	0,23
TCMT 16T308-MK	TCMT 32.52-MK	9,525	3,97	0,80	4,40	0,80	0,50	3,00	0,22	0,10	0,45
TCMT 16T312-MK	TCMT 32.53-MK	9,525	3,97	1,20	4,40	0,80	0,60	3,00	0,35	0,12	0,60
TCMT 220408-MK	TCMT 432-MK	12,700	4,76	0,80	5,50	0,96	0,60	3,60	0,25	0,12	0,45

TC - TRIANGULAR 60° POSITIVE

TRIANGULAR 60° POSITIVA | TRIANGULAR 60° POSITIVA

TURNING

			P											M					K				N	S					
			CVD						PVD					CVD		PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 <p>Finishing to Fine Finishing</p>	1123865	TCGT 090202-FS														△	△		△						△	△		△	
	1123866	TCGT 090204-FS														△	△		△						△	△		△	
	1123867	TCGT 110201-FS														△	△	△	△						△	△	△	△	
	1123868	TCGT 110202-FS														△	△	△	△						△	△	△	△	
	1123869	TCGT 110204-FS															△	△	△	△						△	△	△	
	1123870	TCGT 110301-FS															△		△	△						△	△	△	
	1123871	TCGT 110302-FS															△		△	△						△	△	△	
	1123872	TCGT 110304-FS															△	△	△	△						△	△	△	
 <p>Medium to Finishing</p>	1124011	TCGT 090202-LN																						△					
	1123683	TCGT 090204-LN																							△				
	1121895	TCGT 110202-LN																							△				
	1121896	TCGT 110204-LN														△	○								△	○			
	1124012	TCGT 110208-LN																							△				
	1121897	TCGT 16T302-LN																							△				
	1121898	TCGT 16T304-LN																△							△		△		
	1121899	TCGT 16T308-LN																							△				
	1124013	TCGT 16T312-LN																						△					
	1124014	TCGT 16T316-LN																						△					

△ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

△ Stock Items | Itens de stock

△ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

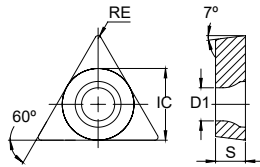
Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

RELIEF ANGLE 7°






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TCGT 090202-FS	TCGT 1.81.50.5-FS	5,560	2,38	0,20	2,50	0,50	0,10	1,50	0,07	0,02	0,12
TCGT 090204-FS	TCGT 1.81.51-FS	5,560	2,38	0,40	2,50	1,00	0,50	2,00	0,15	0,08	0,25
TCGT 110201-FS	TCGT 21.50.2-FS	6,350	2,38	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
TCGT 110202-FS	TCGT 21.50.5-FS	6,350	2,38	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
TCGT 110204-FS	TCGT 21.51-FS	6,350	2,38	0,40	2,80	1,30	0,30	2,50	0,15	0,08	0,25
TCGT 110301-FS	TCGT 220.2-FS	9,525	3,18	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
TCGT 110302-FS	TCGT 220.5-FS	9,525	3,18	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
TCGT 110304-FS	TCGT 221-FS	9,525	3,18	0,40	2,80	1,30	0,50	2,50	0,15	0,08	0,25
TCGT 090202-LN	TCGT 1.81.50.5-LN	5,560	2,38	0,20	2,50	1,00	0,05	2,50	0,10	0,07	0,15
TCGT 090204-LN	TCGT 1.81.51-LN	5,560	2,38	0,40	2,50	1,00	0,05	2,50	0,15	0,10	0,20
TCGT 110202-LN	TCGT 21.50.5-LN	6,350	2,38	0,20	2,80	2,03	0,05	4,00	0,12	0,07	0,15
TCGT 110204-LN	TCGT 21.51-LN	6,350	2,38	0,40	2,80	2,05	0,10	4,00	0,15	0,10	0,20
TCGT 110208-LN	TCGT 21.52-LN	6,350	2,38	0,80	2,80	2,05	0,10	4,00	0,25	0,15	0,50
TCGT 16T302-LN	TCGT 32.50.5-LN	9,525	3,97	0,20	4,40	2,53	0,05	5,00	0,10	0,07	0,15
TCGT 16T304-LN	TCGT 32.51-LN	9,525	3,97	0,40	4,40	2,80	0,10	5,50	0,15	0,10	0,20
TCGT 16T308-LN	TCGT 32.52-LN	9,525	3,97	0,80	4,40	2,80	0,10	5,50	0,25	0,15	0,50
TCGT 16T312-LN	TCGT 32.53-LN	9,525	3,97	1,20	4,40	3,00	0,15	5,50	0,45	0,15	0,70
TCGT 16T316-LN	TCGT 32.54-LN	9,525	3,97	1,60	4,40	3,00	0,15	5,50	0,65	0,20	0,90

TP - TRIANGULAR 60° POSITIVE

TRIANGULAR 60° POSITIVA | TRIANGULAR 60° POSITIVA

TURNING

			P											M						K				N		S			
			CVD					PVD						CVD		PVD				UNC	CVD			UNC	PVD				
		(2) Grade code	L7	R2	L8	R3	L9	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3			
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PH5115	PHG115	PH5125	PHG125	PH5740	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920			
 TPUN Medium to Finishing	1120765	TPUN 160304			⊗		⊗			⊗																			
	1120766	TPUN 160308			⊗		⊗			⊗																			
	1120770	TPUN 160312			⊗		⊗			⊗																			
	1120777	TPUN 220404			⊗		⊗																						
	1120779	TPUN 220408			⊗		⊗																						
	1120783	TPUN 220412			⊗		⊗				⊗																		
 TPMR-12 Finishing to Fine Finishing	1120740	TPMR 110304-12	⊗		⊗																								
	1120743	TPMR 110308-12	⊗		⊗																								
	1120745	TPMR 160304-12	⊗		⊗	⊗																							
	1120748	TPMR 160308-12	⊗		⊗	○																							
 TPMR-13 Medium	1120734	TPMR 090204-13	⊗		⊗																								
	1120741	TPMR 110304-13	⊗		⊗																								
	1120744	TPMR 110308-13	⊗		⊗																								
	1120746	TPMR 160304-13	⊗		⊗																								
	1120749	TPMR 160308-13	⊗		⊗																	○							
	1120752	TPMR 160312-13	⊗		⊗																								
	1120753	TPMR 220408-13	⊗		⊗																	○							

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

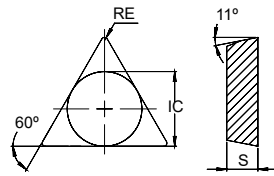
⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Automatic Lathes

Spare Parts

Technical Data

RELIEF ANGLE 11°











ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
TPUN 160304	TPUN 321	9,525	3,18	0,40	-	3,50	1,00	5,00	0,15	0,10	0,30
TPUN 160308	TPUN 322	9,525	3,18	0,80	-	3,50	1,00	5,00	0,30	0,15	0,40
TPUN 160312	TPUN 323	9,525	3,18	1,20	-	3,50	1,50	5,00	0,35	0,20	0,50
TPUN 220404	TPUN 431	12,700	4,76	0,40	-	4,50	1,50	7,00	0,15	0,10	0,30
TPUN 220408	TPUN 432	12,700	4,76	0,80	-	4,50	1,50	7,00	0,30	0,15	0,40
TPUN 220412	TPUN 433	12,700	4,76	1,20	-	4,50	1,50	7,00	0,35	0,20	0,50
TPMR 110304-12	TPMR 221-12	6,350	3,18	0,40	-	0,90	0,30	1,50	0,10	0,05	0,20
TPMR 110308-12	TPMR 222-12	6,350	3,18	0,80	-	0,90	0,30	1,50	0,20	0,05	0,35
TPMR 160304-12	TPMR 321-12	9,525	3,18	0,40	-	1,30	0,50	2,00	0,12	0,08	0,20
TPMR 160308-12	TPMR 322-12	9,525	3,18	0,80	-	1,50	0,50	3,00	0,22	0,08	0,35
TPMR 090204-13	TPMR 1.81.51-13	5,560	2,38	0,40	-	1,00	0,20	1,50	0,10	0,08	0,20
TPMR 110304-13	TPMR 221-13	6,350	3,18	0,40	-	2,00	1,00	3,00	0,12	0,10	0,20
TPMR 110308-13	TPMR 222-13	6,350	3,18	0,80	-	2,00	1,00	3,00	0,25	0,13	0,40
TPMR 160304-13	TPMR 321-13	9,525	3,18	0,40	-	3,00	1,00	5,00	0,15	0,10	0,20
TPMR 160308-13	TPMR 322-13	9,525	3,18	0,80	-	3,00	1,00	5,00	0,30	0,13	0,40
TPMR 160312-13	TPMR 323-13	9,525	3,18	1,20	-	3,00	1,00	5,00	0,40	0,15	0,55
TPMR 220408-13	TPMR 432-13	12,700	4,76	0,80	-	5,00	1,50	7,00	0,30	0,15	0,40

VB - RHOMBIC 35° POSITIVE

RÔMBICA 35° POSITIVA | RÓMBICA 35° POSITIVA

TURNING

			P										M					K			N	S							
			CVD					PVD					CVD		PVD			UNC	CVD			UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH9910	PH7920	PH9920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 VBMT Finishing	1120804	VBMT 160404																											
	1120805	VBMT 160408																											
NEW  VBMT-FF Fine Finishing	1124852	VBMT 160402-FF																											
	1124672	VBMT 160404-FF																											
	1124853	VBMT 160408-FF																											
 VBMT-FP Finishing	1121852	VBMT 110302-FP																											
	1121855	VBMT 110304-FP																											
	1121858	VBMT 110308-FP																											
	1121859	VBMT 110312-FP																											
PCBN & PCD inserts	1121862	VBMT 160402-FP																											
	1121865	VBMT 160404-FP																											
	1121670	VBMT 160408-FP																											
	1121793	VBMT 160412-FP																											
	 VBMT-FM Finishing	1121851	VBMT 110302-FM																										
1121854		VBMT 110304-FM																											
1121857		VBMT 110308-FM																											
1121861		VBMT 160402-FM																											
1121864		VBMT 160404-FM																											
1121870		VBMT 160408-FM																											
1121792		VBMT 160412-FM																											
 VBMT-FK Finishing	1121850	VBMT 110302-FK																											
	1121853	VBMT 110304-FK																											
	1121856	VBMT 110308-FK																											
	1121860	VBMT 160402-FK																											
	1121863	VBMT 160404-FK																											
Internal Toolholders	1121869	VBMT 160408-FK																											
	 VBMT-MP Medium	1121868	VBMT 160404-MP																										
		1121791	VBMT 160408-MP																										
1121796		VBMT 160412-MP																											
Automatic Lathes	 VBMT-MM Medium	1121867	VBMT 160404-MM																										
		1121790	VBMT 160408-MM																										
		1121795	VBMT 160412-MM																										
Spare Parts	 VBMT-MK Medium	1121866	VBMT 160404-MK																										
		1121871	VBMT 160408-MK																										
		1121794	VBMT 160412-MK																										

⊕ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

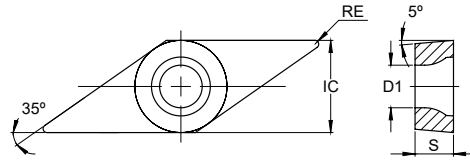
Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

⊗ Stock Items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Technical Data

RELIEF ANGLE 5°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
VBMT 160404	VBMT 331	9,525	4,76	0,40	4,40	2,30	0,05	4,70	0,20	0,10	0,26
VBMT 160408	VBMT 332	9,525	4,76	0,80	4,40	2,30	0,05	4,70	0,40	0,16	0,53
VBMT 160402-FF	VBMT 330.5-FF	9,525	4,76	0,20	4,40	1,00	0,07	1,80	0,09	0,04	0,14
VBMT 160404-FF	VBMT 331-FF	9,525	4,76	0,40	4,40	1,20	0,10	1,80	0,13	0,05	0,20
VBMT 160408-FF	VBMT 332-FF	9,525	4,76	0,80	4,40	1,60	0,14	1,80	0,17	0,07	0,27
VBMT 110302-FP	VBMT 220.5-FP	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
VBMT 110304-FP	VBMT 221-FP	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
VBMT 110308-FP	VBMT 222-FP	6,350	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
VBMT 110312-FP	VBMT 223-FP	6,350	3,18	1,20	2,80	0,30	0,13	1,70	0,15	0,08	0,31
VBMT 160402-FP	VBMT 330.5-FP	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VBMT 160404-FP	VBMT 331-FP	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VBMT 160408-FP	VBMT 332-FP	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VBMT 160412-FP	VBMT 333-FP	9,525	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
VBMT 110302-FM	VBMT 220.5-FM	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
VBMT 110304-FM	VBMT 221-FM	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
VBMT 110308-FM	VBMT 222-FM	6,350	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
VBMT 160402-FM	VBMT 330.5-FM	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VBMT 160404-FM	VBMT 331-FM	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VBMT 160408-FM	VBMT 332-FM	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VBMT 160412-FM	VBMT 333-FM	9,525	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
VBMT 110302-FK	VBMT 220.5-FK	6,350	3,18	0,20	2,80	0,30	0,06	1,70	0,06	0,03	0,13
VBMT 110304-FK	VBMT 221-FK	6,350	3,18	0,40	2,80	0,30	0,10	1,70	0,10	0,05	0,19
VBMT 110308-FK	VBMT 222-FK	6,350	3,18	0,80	2,80	0,30	0,13	1,70	0,13	0,07	0,26
VBMT 160402-FK	VBMT 330.5-FK	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VBMT 160404-FK	VBMT 331-FK	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VBMT 160408-FK	VBMT 332-FK	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VBMT 160404-MP	VBMT 331-MP	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VBMT 160408-MP	VBMT 332-MP	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VBMT 160412-MP	VBMT 333-MP	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
VBMT 160404-MM	VBMT 331-MM	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VBMT 160408-MM	VBMT 332-MM	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VBMT 160412-MM	VBMT 333-MM	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
VBMT 160404-MK	VBMT 331-MK	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VBMT 160408-MK	VBMT 332-MK	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VBMT 160412-MK	VBMT 333-MK	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32

VC - RHOMBIC 35° POSITIVE

RÔMBICA 35° POSITIVA | RÓMBICA 35° POSITIVA

TURNING

			P											M					K			N	S												
			CVD						PVD					CVD		PVD			UNC	CVD		UNC	PVD												
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3							
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920							
VCMW																																			
	1120816	VCMW 160404																																	
Finishing																																			
VCMT-FP																																			
	1121776	VCMT 110302-FP																																	
	1121779	VCMT 110304-FP	⊗	⊗	⊗	⊗	⊗	⊗																					⊗						
Finishing																																			
	1121977	VCMT 160402-FP																																	
	1121978	VCMT 160404-FP																																	
	1121979	VCMT 160408-FP	⊗	⊗	○	⊗	⊗																					⊗							
	1121980	VCMT 160412-FP																																	
VCMT-FM																																			
	1121775	VCMT 110302-FM																																	
	1121778	VCMT 110304-FM																																	
Finishing																																			
	1121981	VCMT 160402-FM																																	
	1121982	VCMT 160404-FM																																	
	1121983	VCMT 160408-FM																																	
	1121984	VCMT 160412-FM																																	
VCMT-FK																																			
	1121777	VCMT 110304-FK																																	
	1121985	VCMT 160402-FK																																	
Finishing																																			
	1121986	VCMT 160404-FK																																	
	1121987	VCMT 160408-FK																																	
VCMT-MP																																			
	1121754	VCMT 110304-MP	⊗	⊗	○																						⊗								
	1121752	VCMT 110308-MP	⊗	○	⊗	⊗																					⊗								
Medium																																			
	1121988	VCMT 160404-MP	⊗	⊗	⊗	⊗																					⊗								
	1121989	VCMT 160408-MP	⊗	⊗	⊗	⊗																					⊗								
	1121990	VCMT 160412-MP																																	
VCMT-MM																																			
	1121780	VCMT 110304-MM																																	
	1121751	VCMT 110308-MM																																	
Medium																																			
	1121991	VCMT 160404-MM																																	
	1121992	VCMT 160408-MM																																	
	1121993	VCMT 160412-MM																																	
VCMT-MK																																			
	1121753	VCMT 110308-MK																																	
	1121994	VCMT 160404-MK																																	
Medium																																			
	1121995	VCMT 160408-MK																																	
	1121996	VCMT 160412-MK																																	

⊗ First choice | 1ª Escolha | 1ª Opción

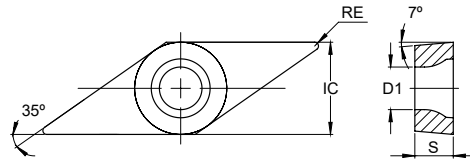
○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°





ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
VCMW 160404	VCMW 331	9,525	4,76	0,40	4,40	2,30	0,05	4,70	0,20	0,08	0,26
VCMT 110302-FP	VCMT 220.5-FP	6,350	3,18	0,20	2,80	0,30	0,07	1,50	0,07	0,03	0,13
VCMT 110304-FP	VCMT 221-FP	6,350	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
VCMT 160402-FP	VCMT 330.5-FP	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VCMT 160404-FP	VCMT 331-FP	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VCMT 160408-FP	VCMT 332-FP	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VCMT 160412-FP	VCMT 333-FP	9,525	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
VCMT 110302-FM	VCMT 220.5-FM	6,350	3,18	0,20	2,80	0,30	0,07	1,50	0,07	0,03	0,13
VCMT 110304-FM	VCMT 221-FM	6,350	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
VCMT 160402-FM	VCMT 330.5-FM	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VCMT 160404-FM	VCMT 331-FM	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VCMT 160408-FM	VCMT 332-FM	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VCMT 160412-FM	VCMT 333-FM	9,525	4,76	1,20	4,40	0,32	0,14	1,80	0,16	0,09	0,32
VCMT 110304-FK	VCMT 221-FK	6,350	3,18	0,40	2,80	0,30	0,10	1,50	0,10	0,05	0,20
VCMT 160402-FK	VCMT 330.5-FK	9,525	4,76	0,20	4,40	0,32	0,07	1,80	0,07	0,04	0,14
VCMT 160404-FK	VCMT 331-FK	9,525	4,76	0,40	4,40	0,32	0,10	1,80	0,10	0,05	0,20
VCMT 160408-FK	VCMT 332-FK	9,525	4,76	0,80	4,40	0,32	0,14	1,80	0,14	0,07	0,27
VCMT 110304-MP	VCMT 221-MP	6,350	3,18	0,40	2,80	0,77	0,31	2,55	0,15	0,10	0,25
VCMT 110308-MP	VCMT 222-MP	6,350	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
VCMT 160404-MP	VCMT 331-MP	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VCMT 160408-MP	VCMT 332-MP	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VCMT 160412-MP	VCMT 333-MP	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
VCMT 110304-MM	VCMT 221-MM	6,350	3,18	0,40	2,80	0,77	0,31	2,55	0,15	0,10	0,25
VCMT 110308-MM	VCMT 222-MM	6,350	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
VCMT 160404-MM	VCMT 331-MM	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VCMT 160408-MM	VCMT 332-MM	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VCMT 160412-MM	VCMT 333-MM	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32
VCMT 110308-MK	VCMT 222-MK	6,350	3,18	0,80	2,80	0,77	0,61	2,55	0,20	0,13	0,33
VCMT 160404-MK	VCMT 331-MK	9,525	4,76	0,40	4,40	0,72	0,23	2,70	0,14	0,07	0,20
VCMT 160408-MK	VCMT 332-MK	9,525	4,76	0,80	4,40	0,72	0,45	2,70	0,18	0,09	0,27
VCMT 160412-MK	VCMT 333-MK	9,525	4,76	1,20	4,40	0,72	0,54	2,70	0,22	0,11	0,32

VC - RHOMBIC 35° POSITIVE

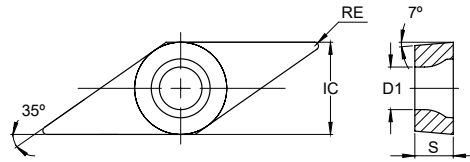
RÔMBICA 35° POSITIVA | RÓMBICA 35° POSITIVA

TURNING

			P											M					K				N	S					
			CVD							PVD				CVD		PVD			UNC	CVD		UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PH910	PH7920	PH920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 VCGT-FS Finishing to Fine Finishing	1123861	VCGT 110301-FS								△							△	⊗		⊗						△	⊗		⊗
	1123862	VCGT 110302-FS															⊗		⊗							⊗		⊗	
	1123863	VCGT 110304-FS								△							△	⊗		⊗					△	⊗	⊗		⊗
 VCGT-LN Medium to Finishing	1124779	VCGT 110204-LN																						⊗					
	1123689	VCGT 110301-LN																						⊗					
	1121889	VCGT 110302-LN																						⊗					
	1121890	VCGT 110304-LN																						⊗					
PCBN & PCD inserts	1121891	VCGT 110308-LN																						⊗					
	1124015	VCGT 130302-LN																						⊗					
	1124016	VCGT 130304-LN																						⊗					
Heavy turning	1124677	VCGT 130308-LN																						⊗					
	1111878	VCGT 160402-LN																						⊗		⊗			
	1111533	VCGT 160404-LN																						⊗		⊗			
	1121893	VCGT 160408-LN																						⊗	△	⊗			
External Toolholders	1121894	VCGT 160412-LN																						⊗		○			
	1121929	VCGT 220530-LN																						⊗					

⊗ First choice | 1ª Escolha | 1ª Opción
 ○ Available under request | Disponível sob consulta | Disponible bajo consulta
 Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code
⊗ Stock Items | Itens de stock
 △ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
VCGT 110301-FS	VCGT 220.2-FS	6,350	3,18	0,10	2,80	0,30	0,10	1,00	0,03	0,01	0,08
VCGT 110302-FS	VCGT 220.5-FS	6,350	3,18	0,20	2,80	0,50	0,10	1,50	0,07	0,02	0,12
VCGT 110304-FS	VCGT 221-FS	6,350	3,18	0,40	2,80	1,00	0,30	2,50	0,15	0,08	0,25
VCGT 110204-LN	VCGT 21.51-LN	6,350	2,42	0,40	2,80	1,53	0,05	3,00	0,15	0,10	0,25
VCGT 110301-LN	VCGT 220.2-LN	6,350	3,18	0,10	2,80	1,53	0,05	3,00	0,04	0,02	0,06
VCGT 110302-LN	VCGT 220.5-LN	6,350	3,18	0,20	2,80	1,53	0,05	3,00	0,07	0,05	0,12
VCGT 110304-LN	VCGT 221-LN	6,350	3,18	0,40	2,80	1,53	0,05	3,00	0,15	0,10	0,25
VCGT 110308-LN	VCGT 222-LN	6,350	3,18	0,80	2,80	1,53	0,05	3,00	0,22	0,15	0,45
VCGT 130302-LN	VCGT 2.520.5-LN	7,940	3,18	0,20	3,40	2,00	0,10	4,00	0,07	0,05	0,12
VCGT 130304-LN	VCGT 2.521-LN	7,940	3,18	0,40	3,40	2,00	0,10	4,00	0,15	0,10	0,25
VCGT 130308-LN	VCGT 2.522-LN	7,940	3,18	0,80	3,40	2,50	0,15	4,50	0,18	0,10	0,30
VCGT 160402-LN	VCGT 330.5-LN	9,525	4,76	0,20	4,40	2,30	0,10	5,00	0,07	0,05	0,12
VCGT 160404-LN	VCGT 331-LN	9,525	4,76	0,40	4,40	2,55	0,10	5,00	0,15	0,10	0,25
VCGT 160408-LN	VCGT 332-LN	9,525	4,76	0,80	4,40	2,55	0,10	5,00	0,22	0,15	0,45
VCGT 160412-LN	VCGT 333-LN	9,525	4,76	1,20	4,40	2,55	0,10	5,00	0,40	0,15	0,60
VCGT 220530-LN	VCGT 43.57.5-LN	12,700	5,56	3,00	5,50	3,55	0,10	7,00	0,80	0,15	1,60

INSERTS

PCBN



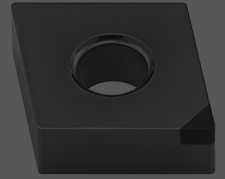
Polycrystalline Cubic Boron Nitride (PCBN) is extremely hard, surpassed only by diamond. However, unlike PCD, PCBN can safely be used for machining ferrous alloys. This material is unrivaled for finishing hardened steels and cast irons and can also be used for turning powder metal alloys and HRSA components.

O Nitreto de Boro Cúbico Policristalino (PCBN) é extremamente duro, apenas superado pelo diamante. No entanto, ao contrário do Diamante Policristalino (PCD), o PCBN pode ser usado com segurança para maquinar ligas ferrosas. Este material é incomparável para o acabamento de aços endurecidos e ferros fundidos, e também pode ser usado para torneamento de ligas de metal em pó e componentes de HRSA.

El Nitruro de Boro Cúbico Policristalino (PCBN) es extremadamente duro, solo superado por el diamante. Sin embargo, a diferencia del Diamante Policristalino (PCD), el PCBN se puede utilizar de manera segura para mecanizar aleaciones ferrosas. Este material es incomparable para el acabado de aceros endurecidos y hierros fundidos, y también se puede utilizar para el torneado de aleaciones de metal en polvo y componentes de HRSA.

SINGLE TIP > page 586

- > 1 cutting edge
1 aresta de corte | 1 arista de corte
- > Available in negative and positive inserts
Disponível em pastilhas negativas e positivas | Disponible en plaquitas negativas y positivas



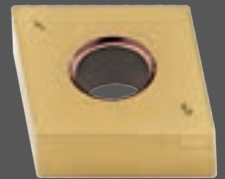
MULTIPLE TIPS > page 586 | 596

- > 2, 3, 4 or 6 cutting edges
2, 3, 4 ou 6 arestas de corte | 2, 3, 4 o 6 aristas de corte
- > Available in negative and positive inserts
Disponível em pastilhas negativas e positivas | Disponible en plaquitas negativas y positivas



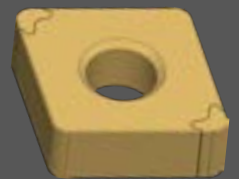
NEW INTEGRAL TIPS > under request

- > 2, 3, 4 or 6 CBN tips without carbide base cutting edges
2, 3, 4 ou 6 arestas de corte em CBN sem base de metal duro | 2, 3, 4 o 6 aristas de corte en CBN sin base de metal duro
- > Available in negative and positive inserts
Disponível em pastilhas negativas e positivas | Disponible en plaquitas negativas y positivas



NEW SOLID TIPS > page 590

- > 2, 3, 4 or 6 cutting edges
2, 3, 4 ou 6 arestas de corte | 2, 3, 4 o 6 aristas de corte
- > Available in negative and positive inserts
Disponível apenas em pastilhas negativas | Disponible solo en plaquitas negativas



SOLID CBN > page 592

- > Round inserts from size 06 to 12
Pastilhas redondas de tamanho 06 a 12 | Plaquitas redondas de talla 06 hasta 12
- > Possibility of regrinding
Possibilidade de retificação | Posibilidad de rectificación



C PCBN GRADES SELECTION

Seleção de graus | Selección de calidades

TURNING

PCBN (Polycrystalline-Cubic-Boron-Nitride) is not found in nature, it is a synthetic material which is the result of an high temperature and high pressure process (HTHP). When PCBN tips are brazed to a carbide insert a powerful cutting tool is born.

PCBN inserts excel in the finishing and semi-finishing process of hardened steels (45-68 HRC) as well as hard cast iron and heat-resistant super alloys (HRSA).

Negative inserts

Grades description Descrição de graus | Descripción de calidades

Positive inserts

Grade	Code	Characteristics	Application
PBY603	Y5	Low PCBN content grade with medium grain size and ceramic binder. Great wear and abrasion resistance.	<ul style="list-style-type: none"> For continuously and lightly interrupted cutting of Hardened Steel (H01-H10); Finishing abrasive high strength cast irons; Can also be used to machine HRSA (S01-S10);
PBY620	Y4	Low PCBN content grade with medium grain size which provides enhanced crater and flank wear resistance with an excellent balance of toughness.	<ul style="list-style-type: none"> For moderately to heavily interrupted turning of all hardened steels (H10-H20).
PBY625	4C	Low PCBN content grade with very fine grain size for improved toughness.	<ul style="list-style-type: none"> Heavily interrupted machining of hardened steels.
PBH920	S4	High PCBN content with excellent abrasion resistance.	<ul style="list-style-type: none"> For machining all types of cast iron (K01-K30); First choice for machining ferrous powder metals; Can also be used to machine HRSA (S20-S30);
PBY930	W3	High abrasive wear resistance; High impact toughness;	<ul style="list-style-type: none"> For Cast Iron with high Niquel and Chrome content (pumps and engine blocks).
PBY940	W4	High fracture toughness; High thermal conductivity;	<ul style="list-style-type: none"> For Alloy steels with high content of Cr, grey cast irons and hardened steels with Ni.

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data



GEOMETRY SELECTION

Seleção da geometria | Selección de la geometria

The insert geometry and edge preparation are extremely important in hard part turning since they have a significant influence on tool life and productivity. Palbit product range includes standard and wiper inserts. The standard nose radius generates the lowest cutting forces and has the lowest stability requirements while wiper gives an unbeatable combination of high productivity and excellent surface finish.

A large nose radius provides a greater edge strength and therefore extended tool life. For this reason, it is advised to use the largest allowed nose radius to each process requirements.

Wiper insert Pastilha wiper | Plaquita wiper

Wiper inserts provide two possibilities for process improvement:

- Improved surface finish with standard cutting data;
- Maintained surface finish at substantially higher feed rate;



	Standard (RE = 0,8mm)	Wiper (RE= 0,8mm)
Insert type		
Surface Roughness (Ra)	0,81 µm	0,42 µm

Note

This values were achieved with the next cutting conditions:

H Steel HRC60 | $v_c = 130$ m/min | $f_n = 0,12$ mm/rev | $a_p = 0,2$ mm | $\lambda = 2,5$ mm / ISO 4287

Formulas for surface roughness calculation

Fórmulas para calculo da rugosidade da superfície | Fórmulas para calcular la rugosidad de la superficie

$$R_a = 0,032 \times \frac{f_n^2}{r_\epsilon} \times 1000 \mu\text{m}$$

$$R_t = 3,91 \times R_a \mu\text{m}$$

R_a - Mean Surface Roughness (µm)

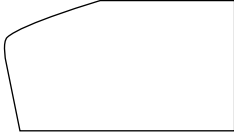
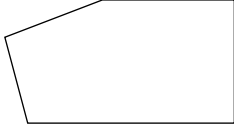


R_t - Roughness Total Height (µm)

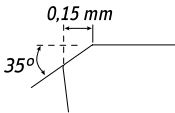

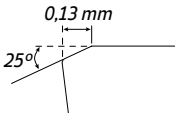

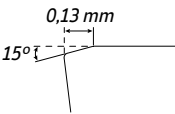

f_n - Feed Rate (mm/rev)

r_ϵ - Insert Radius (mm)

The most important criteria for the stability and cutting edge tool-life is to define the correct cutting edge preparation. Its choice is mainly required in order to achieve the best economical result.

Edge preparation Preparação de aresta | Preparación del filo

Cutting forces edge strength	+	S - Land 	S Preparation with chamfer and honing - Standard <ul style="list-style-type: none"> ▪ First choice for hard part turning; ▪ Stronger edge than T - land, with more resistance to chipping and fracture, resulting in more predictable tool life; ▪ Generates consistent surface finish; ▪ Critical in interrupted cutting and when using large depth of cut; ▪ Feed rate must be greater than hone size;
		T - Land 	T Preparation with chamfer <ul style="list-style-type: none"> ▪ T - land is a common edge preparation for PCBN; ▪ Preferred choice for cast iron; ▪ Good alternative to S - land in hard part turning when reduced cutting forces and tighter tolerances are required;
		E - Land 	E Preparation with edge honing <ul style="list-style-type: none"> ▪ Recommended for HRSA finishing operation; ▪ Honing helps strengthen the edge, giving resistance to chipping and fracturing; ▪ Feed rates must be greater than the hone size to allow actual cutting action to take place and prevent rubbing;
	-	F - Land 	F Preparation without honing <ul style="list-style-type: none"> ▪ Sharp cutting edge; ▪ F - Standard is a common edge preparation for PCD; ▪ Recommended for aluminium or other non-ferrous materials;

Honing Types	Specifications
S3515 For interrupted machining	  Difficult Conditions
S2513 For general purpose machining	  Average Conditions
S1513 For stable continuous machining	  Good Conditions

Note
Based on our experience sometimes it is necessary to define edge preparation during several tests to provide the best possible solution for each application.

CHIP BREAKER TAILOR-MADE

Quebra-aperas personalizados | Rompevirutas personalizados

Our laser machining and grinding machining technology can reach a wide range of tailor-made solutions. The chip breakers can be customized according to our customer's needs and still remain with a high cutting edge quality.

PCBN recommended cutting data

Condições de corte recomendadas para PCBN | Datos de corte recomendadas para PCBN

Workpiece material	Recommend grade for PCBN				VC (m/min)	
	PBH920	PBY603	PBY620	PBY625		
Hardened Steel (HRC 45-68) Tool-Steel, Case Hardened Steel, Continuous Cut (recommended without Coolants)		⊗			Semi-finish	80 - 200
					Finish	80 - 180
Hardened Steel (HRC 45-68) Tool-Steel, Case Hardened Steel, Interrupted Cut (recommended without Coolants)	○		⊗	NEW ⊗	Semi-finish	70 - 180
					Finish	70 - 160
Grey Cast Iron	⊗				Semi-finish	500 - 1000
					Finish	600 - 2000
High Temperature Alloys (Inconel, Waspoloy, Hasteloy) Exotic and High Nickel + Cobalt basis	⊗	⊗			Finish	50 - 300

⊗ Recommended ○ Second choice

H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1- Insert shape symbol

Symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

Detailed dimension of M class insert
Insert height Tolerances (mm)

Inscribed circle	T	S	C	D	V
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-

Inscribed circle Tolerances (mm)

Inscribed circle	T	S	C	D	V
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.

3 - Tolerances symbol

A	B	C	D	E
F	G	N	P	O
				Other clearance angle

2 - Normal clearance symbol



4 - Insert symbol									
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape
W	with hole	Round hole one countersink (40°-60°)	Without chip breaker		G	with hole	Round hole	Chip breaker on both sides	
T			Chip breaker on one side		N	without hole	-	Without chip breaker	
A	with hole	Round hole	Without chip breaker		R	without hole	-	Chip breaker on one side	
M			Chip breaker on one side		X	-	-	-	On request

TURNING PCBN INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificación ISO para pastillas de PCBN | Codificación ISO para plaquitas de PCBN

R's	35° V's	55° D's	80° C's	90° S's	60° T's	80° W's	IC		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only (Radius Designation is 00)

** Metric designation only (Radius Designation is M0)

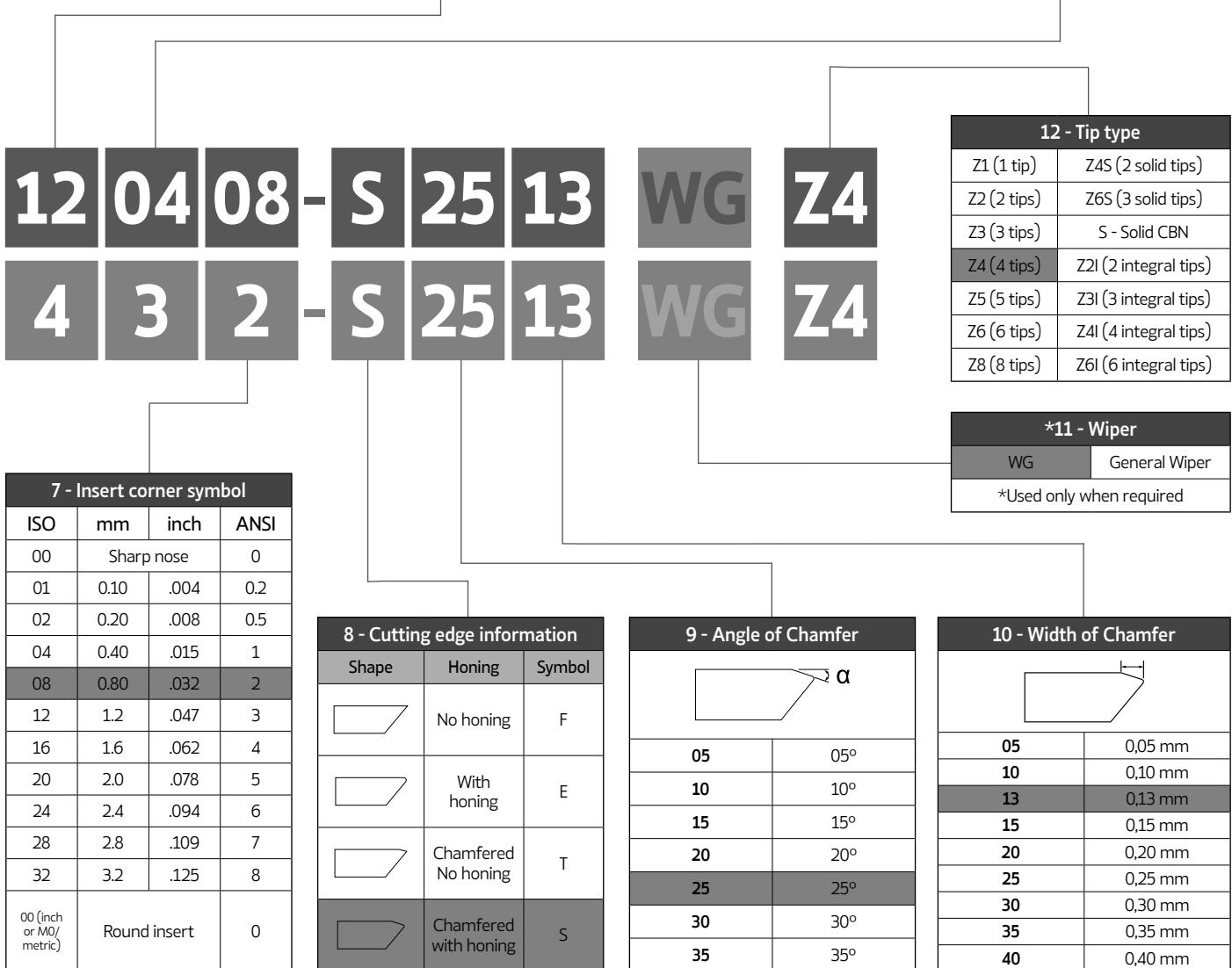
According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol



7 - Insert corner symbol			
ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
00 (inch or M0/metric)	Round insert		0

8 - Cutting edge information		
Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S

9 - Angle of Chamfer	
	α
05	05°
10	10°
15	15°
20	20°
25	25°
30	30°
35	35°

10 - Width of Chamfer	
05	0,05 mm
10	0,10 mm
13	0,13 mm
15	0,15 mm
20	0,20 mm
25	0,25 mm
30	0,30 mm
35	0,35 mm
40	0,40 mm

12 - Tip type	
Z1 (1 tip)	Z4S (2 solid tips)
Z2 (2 tips)	Z6S (3 solid tips)
Z3 (3 tips)	S - Solid CBN
Z4 (4 tips)	Z2I (2 integral tips)
Z5 (5 tips)	Z3I (3 integral tips)
Z6 (6 tips)	Z4I (4 integral tips)
Z8 (8 tips)	Z6I (6 integral tips)

*11 - Wiper	
WG	General Wiper
*Used only when required	

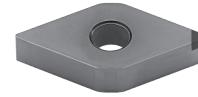
CNGA Z1
Single Tip



Size 12

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DNGA Z1
Single Tip



Size 15

Page C - 586

CNGA Z2 | Z4
Multiple Tips



Size 12

Page C - 586

DNGA Z2 | Z4
Multiple Tips



Size 11 | 15

Page C - 586

SNGA Z4
Multiple Tips



Size 12

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TNGA Z3 | Z6
Multiple Tips



Size 16

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VNGA Z2
Multiple Tips



Size 16

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WNGA Z3 | Z6
Multiple Tips

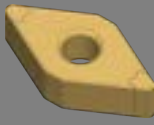
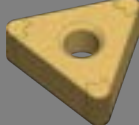
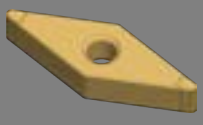


Size 08

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NEGATIVE PCBN INSERTS OVERVIEW

Vista genérica de pastilhas negativas PCBN | Visión general de plaquitas negativas de PCBN

CNGA Z4S Solid Tips	DNGA Z4S Solid Tips	TNGA Z6S Solid Tips	VNGA Z4S Solid Tips
NEW 	NEW 	NEW 	NEW 
Size 12	Size 11 15	Size 16	Size 16
Page C - 590	Page C - 590	Page C - 590	Page C - 590

RNGN S Solid CBN


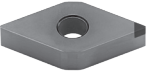








Size 06 | 09 | 12

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PCBN NEGATIVE INSERTS

TURNING

Inserts Pastilhas Plaquetas	(1) Geometry code	(2) Grade code		K	H	
		ISO Reference	ANSI Reference	S4	Y5	Y4
				PBH920	PBY603	PBY620
SINGLE TIP						
	CNGA Z1	1124300	CNGA 120404-S2513 Z1	CNGA 431-S2513 Z1	○	
		1124111	CNGA 120408-S2513 Z1	CNGA 432-S2513 Z1	⊗	
		1124301	CNGA 120412-S2513 Z1	CNGA 433-S2513 Z1	○	
		1124302	CNGA 120416-S2513 Z1	CNGA 434-S2513 Z1	○	
	DNGA Z1	1124306	DNGA 150404-S2513 Z1	DNGA 431-S2513 Z1	○	○
		1124112	DNGA 150408-S2513 Z1	DNGA 432-S2513 Z1	⊗	○
		1124536	DNGA 150412-S2513 Z1	DNGA 433-S2513 Z1	○	○
		1124307	DNGA 150608-S2513 Z1	DNGA 442-S2513 Z1	○	
		1124308	DNGA 150612-S2513 Z1	DNGA 443-S2513 Z1	○	
MULTIPLE TIP						
	CNGA Z2	1124343	CNGA 120402-S2513 Z2	CNGA 431.5-S2513 Z2	○	
		1124344	CNGA 120404-S2513 Z2	CNGA 431-S2513 Z2	⊗	⊗
		1124175	CNGA 120408-S2513 Z2	CNGA 432-S2513 Z2	⊗	⊗
		1124568	CNGA 120408-S3515 Z2	CNGA 432-S3515 Z2		⊗
		1124468	CNGA 120412-S2513 Z2	CNGA 433-S2513 Z2	⊗	⊗
	CNGA Z4	1124474	CNGA 120404-S2513 Z4	CNGA 431-S2513 Z4		⊗
		1124692	CNGA 120408-S1513 Z4	CNGA 432-S1513 Z4	○	○
		1124134	CNGA 120408-S2513 Z4	CNGA 432-S2513 Z4	○	⊗
		1124570	CNGA 120408-S3515 Z4	CNGA 432-S3515 Z4		○
		1124475	CNGA 120412-S2513 Z4	CNGA 433-S2513 Z4		⊗
 Wiper	CNGA WG Z4	1124534	CNGA 120404-S1513 WG Z4	CNGA 431-S1513 WG Z4		○
		1124535	CNGA 120404-S2513 WG Z4	CNGA 431-S2513 WG Z4		○
		1124517	CNGA 120408-S1513 WG Z4	CNGA 432-S1513 WG Z4		⊗
		1124518	CNGA 120408-S2513 WG Z4	CNGA 432-S2513 WG Z4		⊗
		1125024	CNGA 120412-S1513 WG Z4	CNGA 433-S1513 WG Z4		⊗
	DNGA Z2	1124616	DNGA 110404-S2513 Z2	DNGA 331-S2513 Z2		⊗
		1124615	DNGA 110408-S2513 Z2	DNGA 332-S2513 Z2		⊗
		1124617	DNGA 110412-S2513 Z2	DNGA 333-S2513 Z2		⊗
		1124482	DNGA 150404-S2513 Z2	DNGA 431-S2513 Z2		⊗
		1124483	DNGA 150408-S2513 Z2	DNGA 432-S2513 Z2		⊗
		1124537	DNGA 150412-S2513 Z2	DNGA 433-S2513 Z2	○	⊗
	DNGA Z4	1124348	DNGA 150604-S2513 Z2	DNGA 441-S2513 Z2	⊗	⊗
		1124177	DNGA 150608-S2513 Z2	DNGA 442-S2513 Z2	⊗	⊗
		1124572	DNGA 150608-S3515 Z2	DNGA 442-S3515 Z2		○
		1124377	DNGA 150612-S2513 Z2	DNGA 443-S2513 Z2	⊗	⊗
		1124573	DNGA 150612-S3515 Z2	DNGA 443-S3515 Z2		○
	DNGA Z4	1124479	DNGA 150604-S2513 Z4	DNGA 441-S2513 Z4		⊗
		1124133	DNGA 150608-S2513 Z4	DNGA 442-S2513 Z4	○	⊗
		1124575	DNGA 150608-S3515 Z4	DNGA 442-S3515 Z4		○
		1124480	DNGA 150612-S2513 Z4	DNGA 443-S2513 Z4		⊗
		1124576	DNGA 150612-S3515 Z4	DNGA 443-S3515 Z4		○

⊗ Stock Items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code







PCBN NEGATIVE INSERTS

Single tip | Multiple tips

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
CDEC	IC	S	RE	D1	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SINGLE TIP												
1	12,70	4,76	0,40	5,16	2,50	0,15	0,08	0,50	0,08	0,05	0,20	
1	12,70	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
1	12,70	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
1	12,70	4,76	1,60	5,16	2,20	0,30	0,05	0,50	0,15	0,08	0,30	
1	12,70	4,76	0,40	5,16	2,50	0,15	0,08	0,50	0,08	0,05	0,20	
1	12,70	4,76	0,80	5,16	2,50	0,20	0,08	0,50	0,10	0,08	0,30	
1	12,70	4,76	1,20	5,16	2,20	0,25	0,08	0,50	0,12	0,08	0,30	
1	12,70	6,35	0,80	5,16	2,50	0,20	0,08	0,50	0,10	0,08	0,30	
1	12,70	6,35	1,20	5,16	2,20	0,25	0,08	0,50	0,12	0,08	0,30	
MULTIPLE TIP												
2	12,70	4,76	0,20	5,16	2,60	0,15	0,08	0,38	0,05	0,05	0,20	
2	12,70	4,76	0,40	5,16	2,50	0,15	0,08	0,40	0,08	0,05	0,20	
2	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
2	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
2	12,70	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
2	12,70	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,70	4,76	0,40	5,16	2,50	0,15	0,08	0,40	0,08	0,05	0,20	
4	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,70	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,70	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,70	4,76	0,40	5,16	2,40	0,15	0,08	0,50	0,08	0,05	0,20	
4	12,70	4,76	0,40	5,16	2,40	0,15	0,08	0,50	0,08	0,05	0,20	
4	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,70	4,76	0,80	5,16	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,70	4,76	0,80	5,16	2,40	0,25	0,08	0,50	0,12	0,08	0,30	
2	9,525	4,76	0,40	3,81	2,50	0,10	0,08	0,40	0,08	0,05	0,20	
2	9,525	4,76	0,80	3,81	2,00	0,15	0,08	0,40	0,10	0,08	0,30	
2	9,525	4,76	1,20	3,81	2,00	0,20	0,08	0,40	0,15	0,08	0,30	
2	12,700	4,76	0,40	5,16	2,50	0,15	0,08	0,50	0,08	0,05	0,20	
2	12,700	4,76	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
2	12,700	4,76	1,20	5,16	2,20	0,25	0,08	0,50	0,12	0,08	0,30	
2	12,700	6,35	0,40	5,16	2,50	0,15	0,08	0,50	0,08	0,05	0,20	
2	12,700	6,35	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
2	12,700	6,35	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
2	12,700	6,35	1,20	5,16	2,00	0,25	0,08	0,50	0,12	0,08	0,30	
2	12,700	6,35	1,20	5,16	2,00	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	6,35	0,40	5,16	2,50	0,15	0,08	0,40	0,08	0,05	0,20	
4	12,700	6,35	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	6,35	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	6,35	1,20	5,16	1,70	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	6,35	1,20	5,16	1,70	0,25	0,08	0,50	0,12	0,08	0,30	

PCBN NEGATIVE INSERTS

TURNING

				K	H	
		(2) Grade code		S4	Y5	Y4
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	ANSI Reference	PBH920	PBY603	PBY620
MULTIPLE TIP						
	1124178	SNGA 120404-S2513 Z4	SNGA 431-S2513 Z4	○	○	⊗
	1124538	SNGA 120404-T2513 Z4	SNGA 431-T2513 Z4	○		
	1124354	SNGA 120408-S2513 Z4	SNGA 432-S2513 Z4	○	○	⊗
	1124577	SNGA 120408-S3515 Z4	SNGA 432-S3515 Z4			○
	1124433	SNGA 120408-T2513 Z4	SNGA 432-T2513 Z4	⊗		
	1124539	SNGA 120412-S2513 Z4	SNGA 433-S2513 Z4		○	⊗
	1124578	SNGA 120412-S3515 Z4	SNGA 433-S3515 Z4			○
	1124540	SNGA 120412-T2513 Z4	SNGA 433-T2513 Z4	○		
	1124357	TNGA 160404-S2513 Z3	TNGA 331-S2513 Z3	○	⊗	⊗
	1124179	TNGA 160408-S2513 Z3	TNGA 332-S2513 Z3	○	⊗	⊗
	1124579	TNGA 160408-S3515 Z3	TNGA 332-S3515 Z3			○
	1124469	TNGA 160412-S2513 Z3	TNGA 333-S2513 Z3	○	⊗	⊗
	1124746	TNGA 160412-S3515 Z3	TNGA 333-S3515 Z3			⊗
	1124603	TNGA 160416-S2513 Z3	TNGA 334-S2513 Z3		⊗	⊗
	1124604	TNGA 160420-S2513 Z3	TNGA 335-S2513 Z3		⊗	⊗
	1124477	TNGA 160404-S2513 Z6	TNGA 331-S2513 Z6	⊗	⊗	○
	1124097	TNGA 160408-S2513 Z6	TNGA 332-S2513 Z6	⊗	⊗	○
	1124581	TNGA 160408-S3515 Z6	TNGA 332-S3515 Z6			○
	1125023	TNGA 160412-S1513 Z6	TNGA 333-S1513 Z6		⊗	
	1124478	TNGA 160412-S2513 Z6	TNGA 333-S2513 Z6		⊗	○
	1124582	TNGA 160412-S3515 Z6	TNGA 333-S3515 Z6			○
	1124361	VNGA 160402-S2513 Z2	VNGA 331.5-S2513 Z2	○		
	1124163	VNGA 160404-S2513 Z2	VNGA 331-S2513 Z2	○	⊗	⊗
	1124098	VNGA 160408-S2513 Z2	VNGA 332-S2513 Z2	○	⊗	⊗
	1124470	VNGA 160412-S2513 Z2	VNGA 333-S2513 Z2	○	⊗	⊗
	1124471	WNGA 080404-S2513 Z3	WNGA 431-S2513 Z3	○	⊗	⊗
	1124472	WNGA 080408-S2513 Z3	WNGA 432-S2513 Z3	○	⊗	⊗
	1124583	WNGA 080408-S3515 Z3	WNGA 432-S3515 Z3			○
	1124473	WNGA 080412-S2513 Z3	WNGA 433-S2513 Z3	○	⊗	⊗
	1124584	WNGA 080412-S3515 Z3	WNGA 433-S3515 Z3			○
	1124589	WNGA 080404-S2513 Z6	WNGA 431-S2513 Z6		○	○
	1124588	WNGA 080408-S2513 Z6	WNGA 432-S2513 Z6		○	○
	1124585	WNGA 080408-S3515 Z6	WNGA 432-S3515 Z6			○
	1124587	WNGA 080412-S2513 Z6	WNGA 433-S2513 Z6		○	○
	1124586	WNGA 080412-S3515 Z6	WNGA 433-S3515 Z6			○

⊗ Stock Items | Itens de stock

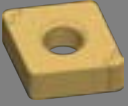
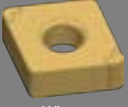
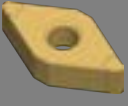


○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

PCBN NEGATIVE INSERTS

Multiple tips

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
CDEC	IC	S	RE	D1	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
MULTIPLE TIP												
4	12,700	4,76	0,40	5,16	2,40	0,15	0,08	0,40	0,08	0,05	0,20	
4	12,700	4,76	0,40	5,16	2,40	0,15	0,08	0,40	0,08	0,05	0,20	
4	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,30	0,25	0,08	0,50	0,12	0,08	0,30	
3	9,525	4,76	0,40	3,81	2,30	0,15	0,08	0,50	0,08	0,05	0,20	
3	9,525	4,76	0,80	3,81	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
3	9,525	4,76	0,80	3,81	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
3	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
3	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
3	9,525	4,76	1,60	3,81	3,00	0,30	0,08	0,70	0,14	0,10	0,35	
3	9,525	4,73	2,00	3,81	3,00	0,35	0,10	0,55	0,16	0,10	0,40	
6	9,525	4,76	0,40	3,81	2,30	0,15	0,08	0,50	0,08	0,05	0,20	
6	9,525	4,76	0,80	3,81	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
6	9,525	4,76	0,80	3,81	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
6	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
6	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
6	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
2	9,525	4,76	20,00	3,81	3,00	0,13	0,08	0,50	0,05	0,05	0,20	
2	9,525	4,76	0,40	3,81	2,80	0,15	0,08	0,50	0,08	0,05	0,20	
2	9,525	4,76	0,80	3,81	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	4,76	1,20	3,81	1,90	0,25	0,08	0,50	0,12	0,08	0,30	
3	12,700	4,76	0,40	5,16	2,30	0,15	0,08	0,40	0,08	0,05	0,20	
3	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
3	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
3	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
3	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
6	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,40	0,12	0,08	0,30	
6	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
6	12,700	4,76	0,80	5,16	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
6	12,700	4,76	0,40	5,16	2,30	0,15	0,08	0,60	0,08	0,05	0,20	
6	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,60	0,12	0,08	0,30	

Inserts Pastilhas Plaquitas	(1) Geometry code	(2) Grade code		H		
				Y5	Y4	4C
		ISO Reference	ANSI Reference	PBYG03	PBYG20	PBYG25
SOLID TIPS						
NEW CNGA Z4S 	1124982	CNGA 120404-S2515 Z4S	CNGA 431-S2515 Z4S			○
	1124983	CNGA 120408-S2515 Z4S	CNGA 432-S2515 Z4S			⊗
	1124804	CNGA 120412-S2513 Z4S	CNGA 433-S2513 Z4S			⊗
NEW CNGA WG Z4S  Wiper	1125025	CNGA 120412-S1513 WG Z4S	CNGA 433-S1513 WG Z4S	○		
NEW DNGA Z4S 	1124992	DNGA 110404-S2515 Z4S	DNGA 331-S2515 Z4S			○
	1124993	DNGA 110408-S2515 Z4S	DNGA 332-S2515 Z4S			⊗
	1124994	DNGA 110412-S2515 Z4S	DNGA 333-S2515 Z4S			⊗
	1124986	DNGA 150404-S2515 Z4S	DNGA 431-S2515 Z4S			○
	1124987	DNGA 150408-S2515 Z4S	DNGA 432-S2515 Z4S			⊗
	1124988	DNGA 150412-S2515 Z4S	DNGA 433-S2515 Z4S			⊗
NEW TNGA Z6S 	1124984	TNGA 160404-S2515 Z6S	TNGA 331-S2515 Z6S			○
	1124985	TNGA 160408-S2515 Z6S	TNGA 332-S2515 Z6S			⊗
	1124960	TNGA 160412-S1513 Z6S	TNGA 333-S1513 Z6S	⊗		
	1124836	TNGA 160412-S2513 Z6S	TNGA 333-S2513 Z6S			⊗
	1125026	TNGA 160420-S2513 Z6S	TNGA 335-S2513 Z6S	⊗	⊗	
NEW VNGA Z4S 	1124995	VNGA 160404-S2515 Z4S	VNGA 331-S2515 Z4S			○
	1124996	VNGA 160408-S2515 Z4S	VNGA 332-S2515 Z4S			⊗
	1124997	VNGA 160412-S2515 Z4S	VNGA 333-S2515 Z4S			⊗

⊗ Stock items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code


PCBN NEGATIVE INSERTS

Solid tips

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
CDEC	IC	S	RE	D1	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SOLID TIPS												
4	12,700	4,76	0,40	5,16	2,20	0,15	0,08	0,50	0,08	0,05	0,20	
4	12,700	4,76	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,50	0,12	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,10	0,25	0,08	0,50	0,12	0,08	0,30	
4	9,525	4,76	0,40	3,81	2,20	0,10	0,08	0,40	0,08	0,05	0,20	
4	9,525	4,76	0,80	3,81	2,10	0,15	0,08	0,40	0,10	0,08	0,30	
4	9,525	4,76	1,20	3,81	2,00	0,20	0,08	0,40	0,15	0,08	0,30	
4	12,700	4,76	0,40	5,16	2,20	0,15	0,08	0,50	0,08	0,05	0,20	
4	12,700	4,76	0,80	5,16	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
4	12,700	4,76	1,20	5,16	2,00	0,25	0,08	0,50	0,12	0,08	0,30	
6	9,525	4,76	0,40	3,81	2,20	0,15	0,08	0,50	0,08	0,05	0,20	
6	9,525	4,76	0,80	3,81	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
6	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
6	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,60	0,12	0,08	0,30	
6	9,525	4,76	2,00	3,81	2,50	0,35	0,10	0,70	0,16	0,10	0,40	
4	9,525	4,76	0,40	3,81	2,20	0,15	0,08	0,50	0,08	0,05	0,20	
4	9,525	4,76	0,80	3,81	2,10	0,20	0,08	0,50	0,10	0,08	0,30	
4	9,525	4,76	1,20	3,81	2,00	0,25	0,08	0,50	0,12	0,08	0,30	

				H	
		(2) Grade code		W3	W4
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	ANSI Reference	PBY930	PBY940

SOLID INSERT

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		1124630	RNGN 090300-S2020 S	RNGN 320-S2020 S	<input type="radio"/>	<input checked="" type="radio"/>
		1124629	RNGN 120300-S2020 S	RNGN 420-S2020 S	<input type="radio"/>	<input checked="" type="radio"/>
		1124699	RNGN 120400-S2020 S	RNGN 430-S2020 S	<input type="radio"/>	<input checked="" type="radio"/>

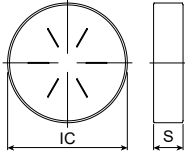
 Stock Items | Itens de stock Available under request | Disponível sob consulta | Disponible bajo consultaInsert Order Code: ⁽¹⁾Repair code + ⁽²⁾Grade code

			H	
		(2) Grade code	W3	W4
(1) Repair code	Reference Referência Referencia		PBY930	PBY940
3120072	RNGN 06 (2.18) 00-S2020S (0603)		<input type="radio"/>	<input type="radio"/>
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3120056	RNGN 120300-S2020 S (1204)		<input type="radio"/>	<input type="radio"/>

 Stock Items | Itens de stock Available under request | Disponível sob consulta | Disponible bajo consultaInsert Order Code: ⁽¹⁾Repair code + ⁽²⁾Grade code

CBN SOLID INSERTS

Reground Inserts

Dimensions (mm) Dimensões (mm) Dimensiones (mm)		Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
IC	S	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SOLID INSERT								
4	2,40	0,15	0,08	0,40	0,08	0,05	0,20	
4	2,40	0,15	0,08	0,40	0,08	0,05	0,20	
4	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
6	2,00	0,25	0,08	0,60	0,12	0,08	0,30	

Final Dimensions (mm) Dimensões Finais (mm) Dimensiones Finales (mm)		Raw Material Matéria-prima Materia prima
IC	S	
6,35	2,18	RNGN 060300-S2020 S
6,35	2,38	RNGN 090300-S2020 S
6,35	3,18	RNGN 090300-S2020 S
6,35	3,18	RNGN 120300-S2020 S
9,53	3,18	RNGN 120300-S2020 S
9,53	4,76	RNGN 120400-S2020 S
12,7	3,18	RNGN 120400-S2020 S

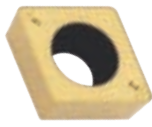
TPGW Z1
Single Tip



Size 11

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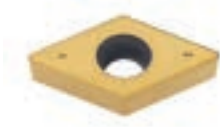
CCGW Z2
Multiple Tips



Size 06 | 09

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DCGW Z2
Multiple Tips



Size 07 | 11

Page C- 596

TCGW | TPGW Z3
Multiple Tips



Size 09 | 11

Page C- 598

POSITIVE PCBN INSERTS OVERVIEW

Vista genérica de pastilhas positivas PCBN | Visión general de plaquitas positivas de PCBN



TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

VBGW Z2
Multiple Tips



Size 11 | 16

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VCGW Z2
Multiple Tips





Size 16

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PCBN POSITIVE INSERTS

TURNING

Inserts Pastilhas Plaquitas	(1) Geometry code	(2) Grade code		H	
		ISO Reference	ANSI Reference	Y5 PBY603	Y4 PBY620
	1124605	CCGW 060202-S1513 Z2	CCGW 21.50.5-S1513 Z2	⊗	⊗
	1124635	CCGW 060202-S2513 Z2	CCGW 21.50.5-S2513 Z2	⊗	⊗
	1124606	CCGW 060204-S1513 Z2	CCGW 21.51-S1513 Z2	⊗	⊗
	1124555	CCGW 060204-S2513 Z2	CCGW 21.51-S2513 Z2	⊗	⊗
	1124607	CCGW 060208-S1513 Z2	CCGW 21.52-S1513 Z2	⊗	⊗
	1124636	CCGW 060208-S2513 Z2	CCGW 21.52-S2513 Z2	⊗	⊗
	1124638	CCGW 09T302-S2513 Z2	CCGW 32.50.5-S2513 Z2	⊗	⊗
	1124640	CCGW 09T304-S2513 Z2	CCGW 32.51-S2513 Z2	⊗	⊗
	1124632	CCGW 09T308-S2513 Z2	CCGW 32.52-S2513 Z2	⊗	⊗
	1124637	CCGW 09T302-S2513 WG Z2	CCGW 32.50.5-S2513 WG Z2	○	○
	1124639	CCGW 09T304-S2513 WG Z2	CCGW 32.51-S2513 WG Z2	⊗	⊗
	1124641	CCGW 09T308-S2513 WG Z2	CCGW 32.52-S2513 WG Z2	⊗	⊗
	1124608	CCGW 09T302-S1513 Z2	CCGW 32.50.5-S1513 Z2	⊗	⊗
	1124609	CCGW 09T304-S1513 Z2	CCGW 32.51-S1513 Z2	⊗	⊗
	1124610	CCGW 09T308-S1513 Z2	CCGW 32.52-S1513 Z2	⊗	⊗
	1124642	DCGW 070202-S1513 Z2	DCGW 21.50.5-S1513 Z2	⊗	○
	1124611	DCGW 070202-S2513 Z2	DCGW 21.50.5-S2513 Z2	⊗	⊗
	1124643	DCGW 070204-S1513 Z2	DCGW 21.51-S1513 Z2	⊗	○
	1124436	DCGW 070204-S2513 Z2	DCGW 21.51-S2513 Z2	⊗	⊗
	1124644	DCGW 070208-S1513 Z2	DCGW 21.52-S1513 Z2	○	○
1124612	DCGW 070208-S2513 Z2	DCGW 21.52-S2513 Z2	⊗	⊗	
1124613	DCGW 11T302-S2513 Z2	DCGW 32.50.5-S2513 Z2	⊗	⊗	
1124554	DCGW 11T304-S2513 Z2	DCGW 32.51-S2513 Z2	⊗	⊗	
1124744	DCGW 11T304-S3515 Z2	DCGW 32.51-S3515 Z2		⊗	
1124614	DCGW 11T308-S2513 Z2	DCGW 32.52-S2513 Z2	⊗	⊗	
1124745	DCGW 11T308-S3515 Z2	DCGW 32.52-S3515 Z2		⊗	
1124645	DCGW 11T302-S1513 Z2	DCGW 32.50.5-S1513 Z2	⊗	○	
1124647	DCGW 11T304-S1513 Z2	DCGW 32.51-S1513 Z2	⊗	⊗	
1124649	DCGW 11T308-S1513 Z2	DCGW 32.52-S1513 Z2	⊗	○	

⊗ Stock Items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

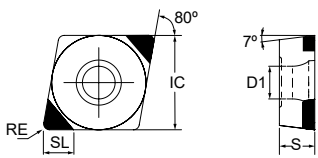
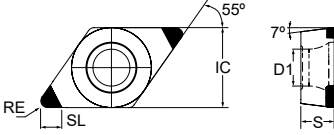
Automatic Lathes

Spare Parts

Technical Data






PCBN POSITIVE INSERTS

Multiple tips

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
CDEC	IC	S	RE	D1	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
2	6,350	2,38	0,20	2,80	2,00	0,15	0,05	0,20	0,08	0,05	0,20	
2	6,350	2,38	0,20	2,80	2,40	0,15	0,05	0,20	0,08	0,05	0,20	
2	6,350	2,38	0,40	2,80	2,00	0,15	0,05	0,40	0,08	0,05	0,25	
2	6,350	2,38	0,40	2,80	2,00	0,15	0,05	0,40	0,08	0,05	0,25	
2	6,350	2,38	0,80	2,80	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	6,350	2,38	0,80	2,80	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,20	4,40	2,50	0,15	0,05	0,20	0,08	0,05	0,20	
2	9,525	3,97	0,40	4,40	2,50	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,80	4,40	2,50	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,20	4,40	2,40	0,15	0,05	0,20	0,08	0,05	0,20	
2	9,525	3,97	0,40	4,40	2,40	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,80	4,40	2,40	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,20	4,40	2,00	0,15	0,05	0,20	0,08	0,05	0,20	
2	9,525	3,97	0,40	4,40	2,00	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	6,350	2,38	0,20	2,80	2,50	0,15	0,08	0,20	0,08	0,05	0,20	
2	6,350	2,38	0,20	2,80	2,00	0,15	0,08	0,20	0,08	0,05	0,20	
2	6,350	2,38	0,40	2,80	2,50	0,15	0,08	0,40	0,08	0,05	0,25	
2	6,350	2,38	0,40	2,80	2,40	0,15	0,08	0,40	0,08	0,05	0,25	
2	6,350	2,38	0,80	2,80	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	6,350	2,38	0,80	2,80	2,50	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,20	4,40	2,70	0,15	0,08	0,20	0,08	0,05	0,20	
2	9,525	3,97	0,40	4,40	2,50	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,40	4,40	2,50	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	3,97	0,20	4,40	2,70	0,15	0,08	0,20	0,08	0,05	0,20	
2	9,525	3,97	0,40	4,40	2,50	0,20	0,08	0,40	0,10	0,05	0,25	
2	9,525	3,97	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	

C PCBN POSITIVE INSERTS

TURNING

Inserts Pastilhas Plaquetas	(1) Geometry code	(2) Grade code		H	
		ISO Reference	ANSI Reference	PBY603 Y5	PBY620 Y4
	1124715	TCGW 110204-S2513 Z3	TCGW 21.51-S2513 Z3	○	
	1124434	TCGW 16T304-S2513 Z3	TCGW 32.51-S2513 Z3	⊗	⊗
	1124651	TCGW 16T308-S2513 Z3	TCGW 32.52-S2513 Z3	⊗	⊗
	1124657	TPGW 110302-S2513 Z1	TPGW 220.5-S2513 Z1	○	○
	1124660	TPGW 110304-S2513 Z1	TPGW 221-S2513 Z1	⊗	○
	1124598	TPGW 110308-S2513 Z1	TPGW 222-S2513 Z1	⊗	⊗
	1124653	TPGW 090202-S2513 Z3	TPGW 1.81.50.5-S2513 Z3	⊗	○
	1124655	TPGW 090204-S2513 Z3	TPGW 1.81.51-S2513 Z3	⊗	⊗
	1124652	TPGW 090202-S1513 Z3	TPGW 1.81.50.5-S1513 Z3	⊗	○
	1124654	TPGW 090204-S1513 Z3	TPGW 1.81.51-S1513 Z3	⊗	○
	1124658	TPGW 110302-S2513 Z3	TPGW 220.5-S2513 Z3	⊗	⊗
	1124661	TPGW 110304-S2513 Z3	TPGW 221-S2513 Z3	⊗	⊗
	1124663	TPGW 110308-S2513 Z3	TPGW 222-S2513 Z3	○	⊗
	1124656	TPGW 110302-S1513 Z3	TPGW 220.5-S1513 Z3	⊗	○
	1124659	TPGW 110304-S1513 Z3	TPGW 221-S1513 Z3	⊗	○
1124662	TPGW 110308-S1513 Z3	TPGW 222-S1513 Z3	○	○	
	1124664	VBGW 110302-S2513 Z2	VBGW 220.5-S2513 Z2	⊗	⊗
	1124665	VBGW 110304-S2513 Z2	VBGW 221-S2513 Z2	⊗	⊗
	1124666	VBGW 110308-S2513 Z2	VBGW 222-S2513 Z2	○	⊗
	1124618	VBGW 160402-S2513 Z2	VBGW 330.5-S2513 Z2	⊗	⊗
	1124619	VBGW 160404-S2513 Z2	VBGW 331-S2513 Z2	⊗	⊗
	1124620	VBGW 160408-S2513 Z2	VBGW 332-S2513 Z2	⊗	⊗
	1124621	VBGW 160402-S1513 Z2	VBGW 330.5-S1513 Z2	⊗	⊗
	1124622	VBGW 160404-S1513 Z2	VBGW 331-S1513 Z2	⊗	⊗
1124623	VBGW 160408-S1513 Z2	VBGW 332-S1513 Z2	⊗	⊗	
	1124667	VCGW 160404-S2513 Z2	VCGW 331-S2513 Z2	⊗	⊗
	1124668	VCGW 160408-S2513 Z2	VCGW 332-S2513 Z2	⊗	⊗

⊗ Stock Items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

Spare Parts

Technical Data

PCBN POSITIVE INSERTS

Multiple tips

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
CDEC	IC	S	RE	D1	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
3	6,350	2,38	0,20	4,40	2,50	0,15	0,08	0,40	0,08	0,05	0,20	
3	9,525	3,97	0,40	4,40	2,50	0,15	0,08	0,45	0,08	0,05	0,20	
3	9,525	3,97	0,80	4,40	2,00	0,20	0,08	0,45	0,10	0,08	0,30	
1	6,350	3,18	0,20	2,80	2,40	0,15	0,08	0,20	0,08	0,05	0,15	
1	6,350	3,18	0,40	2,80	2,30	0,15	0,08	0,40	0,08	0,05	0,20	
1	6,350	3,18	0,80	2,80	2,40	0,20	0,08	0,45	0,10	0,08	0,20	
3	5,560	2,38	0,20	2,50	2,50	0,10	0,05	0,20	0,08	0,05	0,15	
3	5,560	2,38	0,40	2,50	2,30	0,15	0,08	0,40	0,08	0,05	0,15	
3	5,560	2,38	0,20	2,50	2,50	0,10	0,08	0,20	0,08	0,05	0,15	
3	5,560	2,38	0,40	2,50	2,30	0,15	0,08	0,40	0,08	0,05	0,15	
3	6,350	3,18	0,20	2,80	2,40	0,15	0,08	0,20	0,08	0,05	0,15	
3	6,350	3,18	0,40	2,80	2,30	0,15	0,08	0,40	0,08	0,05	0,20	
3	6,350	3,18	0,80	2,80	2,00	0,20	0,08	0,50	0,10	0,08	0,20	
3	6,350	3,18	0,20	2,80	2,40	0,15	0,08	0,20	0,08	0,05	0,15	
3	6,350	3,18	0,40	2,80	2,30	0,15	0,08	0,40	0,08	0,05	0,20	
3	6,350	3,18	0,80	2,80	2,00	0,20	0,08	0,50	0,10	0,08	0,20	
2	6,350	3,18	0,20	2,80	3,20	0,10	0,08	0,20	0,05	0,05	0,15	
2	6,350	3,18	0,40	2,80	2,80	0,15	0,08	0,40	0,08	0,05	0,20	
2	6,350	3,18	0,80	2,80	2,00	0,15	0,08	0,50	0,10	0,08	0,25	
2	9,525	4,76	0,20	4,40	2,00	0,10	0,08	0,20	0,08	0,05	0,15	
2	9,525	4,76	0,40	4,40	2,00	0,15	0,08	0,40	0,08	0,05	0,20	
2	9,525	4,76	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	4,76	0,20	4,40	2,00	0,10	0,08	0,20	0,08	0,05	0,15	
2	9,525	4,76	0,40	4,40	2,00	0,15	0,08	0,40	0,08	0,05	0,20	
2	9,525	4,76	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	
2	9,525	4,76	0,40	4,40	2,80	0,15	0,08	0,40	0,08	0,05	0,20	
2	9,525	4,76	0,80	4,40	2,00	0,20	0,08	0,50	0,10	0,08	0,30	

INSERTS

PCD



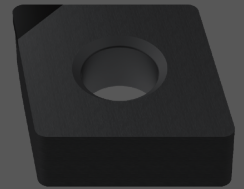
Polycrystalline Diamond is exceptionally hard and resistant to abrasion. It is most effective for machining non-ferrous materials, particularly aluminum and copper alloys, achieving unparalleled productivity and tool longevity. However, it is also the preferred option for machining composites and ceramics.

Polycrystalline Diamond é excepcionalmente duro e resistente à abrasão. É mais eficaz para a maquinação de materiais não ferrosos, especialmente ligas de alumínio e cobre, alcançando uma produtividade e longevidade da ferramenta incomparáveis. No entanto, também é a opção preferida para a maquinação de compósitos e cerâmicas.

Polycrystalline Diamond es excepcionalmente duro y resistente a la abrasión. Es más efectivo para mecanizar materiales no ferrosos, especialmente aleaciones de aluminio y cobre, logrando una productividad y longevidad de herramienta incomparables. Sin embargo, también es la opción preferida para mecanizar compuestos y cerámicas.

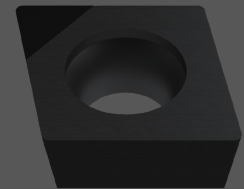
NEGATIVE INSERTS > page 608

- > 1 cutting edge
1 aresta de corte | 1 arista de corte
- > Neutral rake angle
Ângulo de ataque neutro | Ángulo de ataque neutro



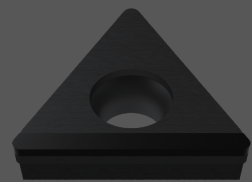
POSITIVE INSERTS > page 612

- > 1 cutting edge
1 aresta de corte | 1 arista de corte
- > Neutral or high positive rake angle
Ângulo de ataque neutro ou altamente positivo | Ángulo de ataque neutro o altamente positivo



FULL EDGE TIPS > page 620

- > 1 cutting edge
1 aresta de corte | 1 arista de corte
- > Neutral or high positive rake angle
Ângulo de ataque neutro ou altamente positivo | Ángulo de ataque neutro o altamente positivo
- > For higher depth of cut
Para uma maior profundidade de corte | Para mayor profundidad de corte



PCD (Polycrystalline Diamond) is a composite of diamond particles that are sintered with a metallic binder creating the hardest and one of the most abrasion resistant materials used in cutting tools.

Its development achieved an extremely significance for the machining of Non-Ferrous Materials, such as high-silicon aluminium, metal matrix composites (MMC) and carbon fibre reinforced plastics (CFRP).

Grades description Descrição de graus | Descripción de calidades

Grade	Code	Characteristics	Application
PDP410	D6	General purpose Fine surface finishing	<ul style="list-style-type: none"> • <14% silicon aluminium alloy - automotive industry • Graphite and graphite composites • Wood composites • Copper alloy
PDP403	I3	Highest abrasion resistance Bimodal grain structure for increased diamond percentage content	<ul style="list-style-type: none"> • >14% silicon aluminium alloy • Fiber glass, fiberboard • Wood laminates • Metal matrix composites • Stone sawing • Ceramics • Sintered tungsten carbide (10-16% Co)

PDP410

<14% silicon
aluminium
alloy

PDP403

>14% silicon
aluminium
alloy



GEOMETRY SELECTION

Seleção da geometria | Selección de la geometria

The insert geometry and nose radius are very important on turning operation having direct influence on the tool life and productivity.

Insert nose radius is an important performance parameter:

- For good chip breaking, must be used a small nose radius: 0,2-0,4mm (0,008-0,016inch);
- A large nose radius: 0,8-1,2mm (0,031-0,047inch) generates better surface finishing and produces thinner chips, which reduces the degree of crater wear in hard part turning operations
- The machining with large nose radius and small depth of cut results in reduced entry and exit forces..

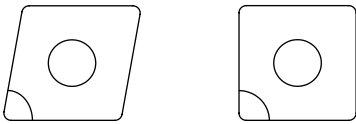
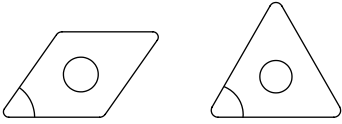
In general, a large nose radius provides greater edge strength and therefore extended tool life. For this reason, it is advised to use the largest and allowed nose radius based on the requirements of each process.

Finishing and semi-finishing:

In these cases, there are special requirements on the surface and tolerances.

Roughing:

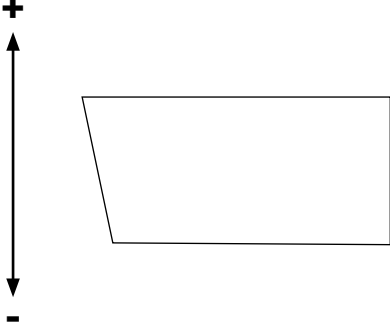
For the evaluation of the cutting edge radius in roughing operations it is recommended to use the following formula, in order to calculate the minimum radius vs feed:

Insert shape	Formula
	$\text{Radius} > 1,6 \times \text{feed per rev.}$
	$\text{Radius} > 2,5 \times \text{feed per rev.}$

The most important criteria for the stability and cutting edge tool-life is to define the correct cutting edge preparation. Its choice is mainly required in order to achieve the best economical result.

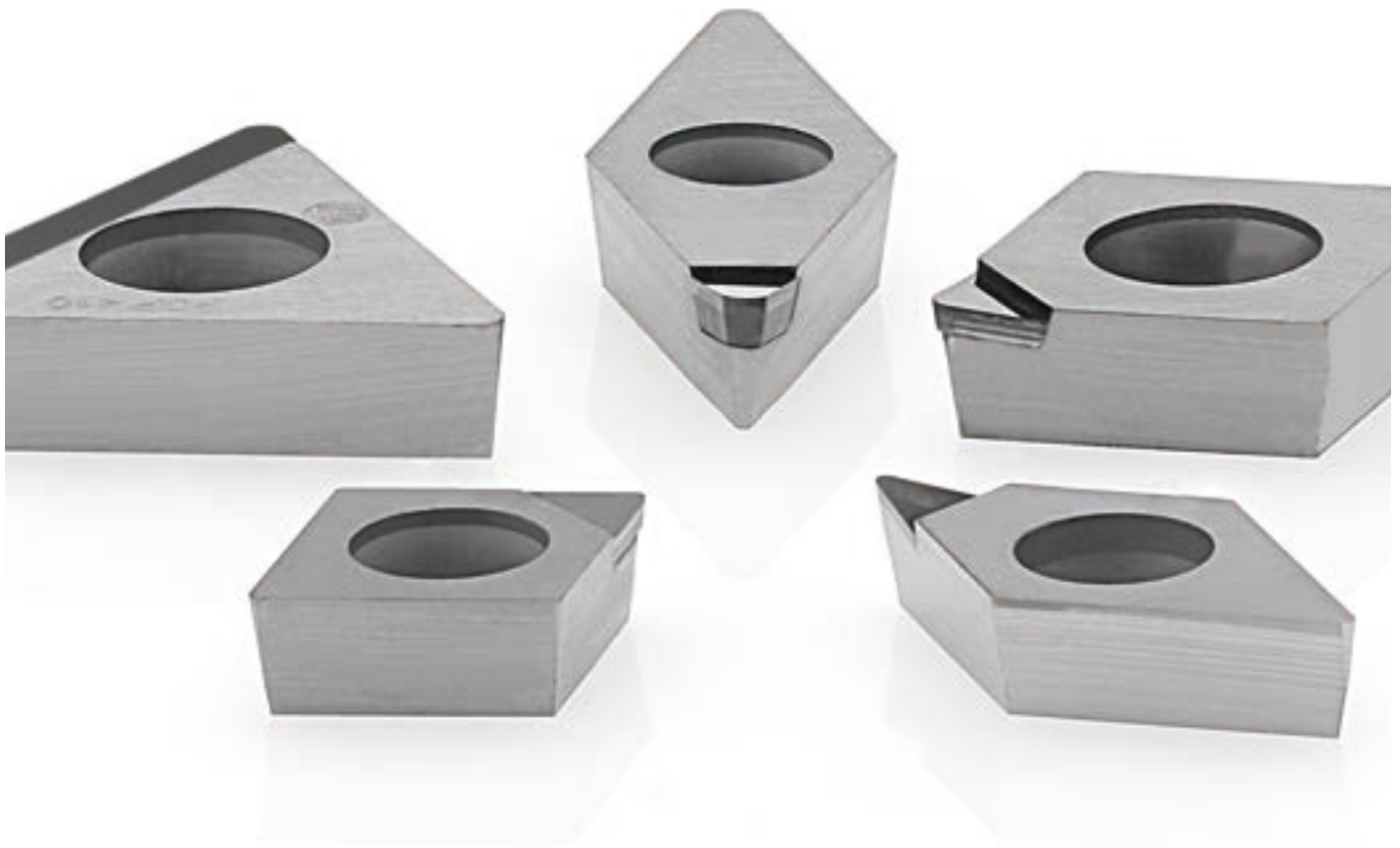
Edge preparation:

PCD: F type cutting edge preparation:

<p>Cutting forces Edge strength</p> 	<p>F – Standard preparation without honing - Standard</p> <ul style="list-style-type: none"> • Sharp cutting edge; • Standard and recommended edge preparation for aluminium or other non-ferrous materials.
---	---

Note:

Based on our experience sometimes is necessary to define edge preparation during several tests to provide the best possible solution for each application.



PCD RECOMMENDED CUTTING DATA

Condições de corte recomendadas para PCD | Datos de corte recomendadas para PCD

Workpiece material	VC (m/min)		Recommend grade for PCD	
			PDP 410	PDP 403
Aluminium alloys: Aluminium, Si<14%	Roughing Finishing	800-3000 800-3000	⊗ ⊗	
Aluminium: Aluminium, Si≥14%	Roughing Finishing	300-700 250-700	○ ○	⊗ ⊗
Copper alloys: Copper, Zinc, Brass	Roughing Finishing	600-1200 700-1500	⊗ ⊗	
Metal matrix composites: Al (10-20%) SiC	Roughing Finishing	300-1150 400-1260		⊗ ⊗
Tungsten carbide 10-16% Co: Unsintered	Roughing Finishing	50-200 60-220		⊗ ⊗
Tungsten carbide 10-16% Co: Sintered	Roughing Finishing	20-40 25-45		⊗ ⊗
Ebonite, Fiberglass, Plastic materials, Graphite, Glass.	Roughing Finishing	200-1500 300-2000	⊗ ⊗	⊗ ⊗
Ceramic: Unsintered	Roughing Finishing	50-150 50-200		⊗ ⊗
Ceramic: Sintered	Roughing Finishing	20-35 20-40		⊗ ⊗
Wood	Finishing	1000-4000	⊗	

⊗ Recommended ○ Second choice

TURNING PCD INSERTS ISO IDENTIFICATION SYSTEM

H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1- Insert shape symbol

Triangular inserts with a facet (secondary cutting edge)

Symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.

Detailed dimension of M class insert Insert height Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-

Inscribed circle Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

3 - Tolerances symbol

A	B	C	D	E
F	G	N	P	O
				Other clearance angle

2 - Normal clearance symbol



4 - Insert symbol									
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape
W	with hole	Round hole one countersink (40°-60°)	Without chip breaker		G	with hole	Round hole	Chip breaker on both sides	
T			Chip breaker on one side		N	without hole	-	Without chip breaker	
A	with hole	Round hole	Without chip breaker		R	without hole	-	Chip breaker on one side	
M			Chip breaker on one side		X	-	-	-	On request

TURNING PCD INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificação ISO para pastilhas de PCD | Codificación ISO para plaquetas de PCD

R's	35° V's	55° D's	80° C's	90° S's	60° T's	80° W's	IC		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only (Radius Designation is R0)

** Metric designation only (Radius Designation is M0)

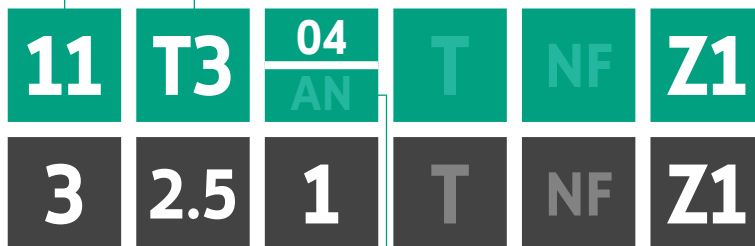
According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol



ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
⁰⁰ (inch or M0/ metric)	Round insert		0

For inserts having secondary edges two digits are used:			
1 st digit is secondary edge		2 nd digit is secondary edges relief angle	
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	special	F	25°
		G	30°
		N	0°
		P	11°
		Z	special






*only when required.

Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S

*only when required.

Z1 (1 tip)	Z6 (6 tips)
Z2 (2 tips)	Z8 (8 tips)
Z3 (3 tips)	FL (Full edge left)
Z4 (4 tips)	FR (Full edge right)
Z5 (5 tips)	O (other)

NF	Finishing
----	-----------

Inserts Pastilhas Plaquetas	(1) Geometry code	(2) Grade code		N	
		ISO Reference	ANSI Reference	D6 PDP410	B3 PDP403
SINGLE TIP					
	1124228	CNGA 120404 Z1	CNGA 431 Z1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1124110	CNGA 120408 Z1	CNGA 432 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	1124229	CNGA 120412 Z1	CNGA 433 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124230	CNGA 120416 Z1	CNGA 434 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124235	DNGA 150404 Z1	DNGA 431 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124236	DNGA 150408 Z1	DNGA 432 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124362	DNGA 150608 Z1	DNGA 442 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124363	DNGA 150612 Z1	DNGA 443 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124243	SNGA 090304 Z1	SNGA 321 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124244	SNGA 090308 Z1	SNGA 322 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124245	SNGA 120404 Z1	SNGA 431 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	1124246	SNGA 120408 Z1	SNGA 432 Z1	<input type="checkbox"/>	<input type="checkbox"/>
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	1124287	VNGA 160412 Z1	VNGA 333 Z1	<input type="checkbox"/>	<input type="checkbox"/>

Stock Items | Itens de stock

Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

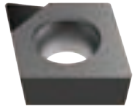
PCD NEGATIVE INSERTS

Single tip

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SINGLE TIP												
12,700	4,76	0,40	5,16	-	3,50	0,10	0,07	0,40	0,10	0,06	0,20	
12,700	4,76	0,80	5,16	-	3,50	0,15	0,07	0,80	0,15	0,08	0,30	
12,700	4,76	1,20	5,16	-	3,50	0,25	0,08	1,20	0,30	0,10	0,40	
12,700	4,76	1,60	5,16	-	3,50	0,50	0,08	1,60	0,35	0,10	0,50	
12,700	4,76	0,40	5,16	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
12,700	4,76	0,80	5,16	-	3,50	0,15	0,07	0,80	0,15	0,05	0,25	
12,700	6,35	0,80	5,16	-	3,50	0,15	0,07	0,80	0,15	0,05	0,25	
12,700	6,35	1,20	5,16	-	3,50	0,20	0,08	1,20	0,20	0,05	0,30	
9,525	3,18	0,40	3,81	-	3,50	0,10	0,07	0,40	0,10	0,07	0,20	
9,525	3,18	0,80	3,81	-	3,50	0,20	0,08	0,80	0,12	0,08	0,25	
12,700	4,76	0,40	5,16	-	3,50	0,10	0,07	0,40	0,12	0,07	0,25	
12,700	4,76	0,80	5,16	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
6,350	3,18	0,40	2,26	-	3,50	0,10	0,08	0,40	0,08	0,03	0,15	
6,350	3,18	0,80	2,26	-	3,50	0,15	0,10	0,80	0,10	0,05	0,25	
9,525	4,76	0,40	3,81	-	3,50	0,10	0,08	0,40	0,10	0,05	0,20	
9,525	4,76	0,80	3,81	-	3,50	0,20	0,10	0,80	0,15	0,08	0,30	
9,525	4,76	1,20	3,81	-	3,50	0,20	0,10	0,80	0,15	0,08	0,30	
9,525	4,76	0,40	3,81	-	3,50	0,10	0,07	0,40	0,10	0,07	0,20	
9,525	4,76	0,80	3,81	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	4,76	1,20	3,81	-	3,50	0,25	0,10	1,20	0,17	0,10	0,35	

SINGLE TIP

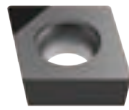
CCGT Z1



Size 06 | 09 | 12

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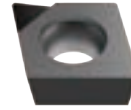
CCGW Z1



Size 06 | 09 | 12

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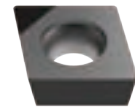
CPGT Z1



Size 06 | 09 | 12

Page C- 612

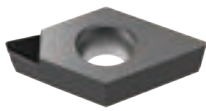
CPGW Z1



Size 06 | 09 | 12

Page C- 612

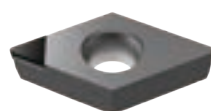
DCGT Z1



Size 07 | 11

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DCGW Z1



Size 07 | 11 | 15

Page C- 614

SCGT Z1



Size 06 | 09 | 12

Page C- 614

SCGW Z1



Size 06 | 09 | 12

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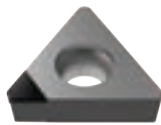
TCGT Z1



Size 09 | 11 | 16

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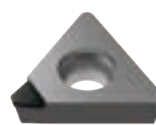
TCGW Z1



Size 09 | 11 | 16

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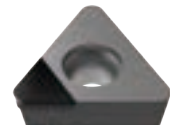
TPGT Z1



Size 11 | 16

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TPGW Z1



Size 11 | 16

Page C- 616

VCGT Z1



Size 07 | 11 | 16

Page C- 618

VCGW Z1



Size 07 | 11 | 16

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PCD POSITIVE INSERTS OVERVIEW

Vista genérica de pastilhas positivas PCD | Visión general de plaquitas positivas de PCD

FULL EDGE

CCGT FR/FL



Size 06 | 09 | 12

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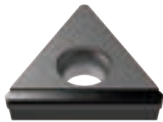
CCGW FR/FL



Size 06 | 09 | 12

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TCGT FL



Size 11 | 16

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TCGW FL



Size 11 | 16 | 22

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TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

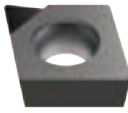


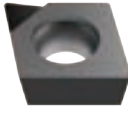
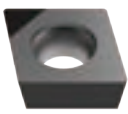
External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

				N	
		(2) Grade code		D6	B
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PDP410	PDP403
SINGLE TIP					
	1124113	CCGT 060202 Z1	CCGT 21.50.5 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124209	CCGT 060204 Z1	CCGT 21.51 Z1	<input type="radio"/>	<input type="radio"/>
	1124487	CCGT 060220 Z1	CCGT 21.55 Z1	<input type="radio"/>	<input type="radio"/>
	1112592	CCGT 09T304 Z1	CCGT 32.51 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124210	CCGT 09T308 Z1	CCGT 32.52 Z1	<input type="radio"/>	<input type="radio"/>
	1124211	CCGT 120404 Z1	CCGT 431 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1112630	CCGT 120408 Z1	CCGT 432 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124465	CCGT 09T304-NF Z1	CCGT 32.51-NF Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124726	CCGT 09T308-NF Z1	CCGT 32.52-NF Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124114	CCGW 060202 Z1	CCGW 21.50.5 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124218	CCGW 060204 Z1	CCGW 21.51 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124793	CCGW 060220 Z1	CCGW 21.55 Z1	<input checked="" type="radio"/>	<input type="radio"/>
	1124219	CCGW 09T302 Z1	CCGW 32.50.5 Z1	<input type="radio"/>	<input type="radio"/>
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1112631	CCGW 120408 Z1	CCGW 432 Z1	<input checked="" type="radio"/>	<input type="radio"/>	
	1124392	CPGT 060202 Z1	CCGT 21.50.5 Z1	<input type="radio"/>	<input type="radio"/>
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	1124395	CPGT 09T308 Z1	CCGT 32.52 Z1	<input type="radio"/>	<input type="radio"/>
	1124396	CPGT 120404 Z1	CCGT 431 Z1	<input type="radio"/>	<input type="radio"/>
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Stock Items | Itens de stock


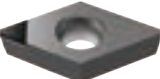


Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

PCD POSITIVE INSERTS

Single tip

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico	
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX		
SINGLE TIP													
6,350	2,38	0,20	2,80	7°	3,50	0,08	0,05	0,20	0,08	0,05	0,15		
6,350	2,38	0,40	2,80	7°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
6,350	2,38	2,00	2,80	10°	3,14	0,20	0,10	0,50	0,15	0,10	0,30		
9,525	3,97	0,40	4,40	10°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
9,525	3,97	0,80	4,40	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
12,700	4,76	0,40	5,50	10°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
12,700	4,76	0,80	5,50	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
9,525	3,97	0,40	4,40	-	4,00	0,12	0,07	0,40	0,15	0,07	0,25		
9,525	3,97	0,80	4,40	-	4,00	0,20	0,08	0,80	0,20	0,08	0,30		
6,350	2,38	0,20	2,80	-	3,50	0,08	0,05	0,20	0,08	0,05	0,13		
6,350	2,38	0,40	2,80	-	3,50	0,10	0,07	0,40	0,11	0,07	0,23		
6,350	2,38	2,00	2,80	-	3,20	0,80	0,40	2,00	0,15	0,10	0,40		
9,525	3,97	0,20	4,40	-	3,50	0,08	0,05	0,20	0,08	0,05	0,15		
9,525	3,97	0,40	4,40	-	3,50	0,10	0,07	0,40	0,12	0,06	0,25		
9,525	3,97	0,80	4,40	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
12,700	4,76	0,40	5,50	-	3,50	0,10	0,07	0,40	0,12	0,06	0,25		
12,700	4,76	0,80	5,50	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
6,350	2,38	0,20	2,80	7°	3,50	0,08	0,05	0,20	0,08	0,05	0,15		
6,350	2,38	0,40	2,80	7°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
9,525	3,97	0,40	4,40	10°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
9,525	3,97	0,80	4,40	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
12,700	4,76	0,40	5,50	10°	3,50	0,10	0,07	0,40	0,12	0,07	0,25		
12,700	4,76	0,80	5,50	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
6,350	2,38	0,20	2,80	-	3,50	0,08	0,05	0,20	0,08	0,05	0,13		
6,350	2,38	0,40	2,80	-	3,50	0,10	0,07	0,40	0,11	0,07	0,23		
9,525	3,97	0,20	4,40	-	3,50	0,08	0,05	0,20	0,08	0,05	0,15		
9,525	3,97	0,40	4,40	-	3,50	0,10	0,07	0,40	0,12	0,06	0,25		
9,525	3,97	0,80	4,40	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
12,700	4,76	0,40	5,50	-	3,50	0,10	0,07	0,40	0,12	0,06	0,25		
12,700	4,76	0,80	5,50	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30		

Inserts Pastilhas Plaquetas	(1) Geometry code	(2) Grade code		N		
		ISO Reference	ANSI Reference	PDP410	PDP403	
SINGLE TIP						
	DCGT Z1	1124116	DCGT 070202 Z1	DCGT 21.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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		1124380	DCGT 11T308 Z1	DCGT 32.52 Z1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		1124529	DCGT 150408 Z1	DCGT 432 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	DCGW Z1	1124232	DCGW 070202 Z1	DCGW 21.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124233	DCGW 070204 Z1	DCGW 21.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124458	DCGW 11T302 Z1	DCGW 32.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1112635	DCGW 11T304 Z1	DCGW 32.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124168	DCGW 11T308 Z1	DCGW 32.52 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124234	DCGW 150404 Z1	DCGW 431 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124117	DCGW 150408 Z1	DCGW 432 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SCGT Z1	1124386	SCGT 060202 Z1	SCGT 21.50.5 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124387	SCGT 060204 Z1	SCGT 21.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124388	SCGT 09T304 Z1	SCGT 32.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124389	SCGT 09T308 Z1	SCGT 32.52 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124390	SCGT 120404 Z1	SCGT 431 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124391	SCGT 120408 Z1	SCGT 432 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SCGW Z1	1124237	SCGW 060202 Z1	SCGW 21.50.5 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124238	SCGW 060204 Z1	SCGW 21.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124239	SCGW 09T304 Z1	SCGW 32.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124240	SCGW 09T308 Z1	SCGW 32.52 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124794	SCGW 09T312 Z1	SCGW 32.53 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124241	SCGW 120404 Z1	SCGW 431 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124242	SCGW 120408 Z1	SCGW 432 Z1	<input type="checkbox"/>	<input type="checkbox"/>

Stock Itens | Itens de stock


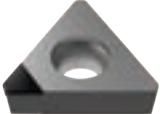

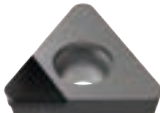
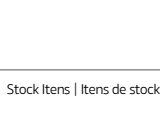

Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

PCD POSITIVE INSERTS

Single tip

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SINGLE TIP												
6,350	2,38	0,20	2,80	7°	3,50	0,08	0,05	0,20	0,08	0,05	0,15	
6,350	2,38	0,40	2,80	7°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,40	4,40	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,40	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
12,700	4,76	0,80	5,50	10°	3,50	0,60	0,10	1,20	0,25	0,10	0,40	
6,350	2,38	0,20	2,80	-	3,50	0,08	0,05	0,20	0,08	0,05	0,15	
6,350	2,38	0,40	2,80	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,20	4,40	-	3,50	0,10	0,05	0,35	0,10	0,05	0,15	
9,525	3,97	0,40	4,40	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,40	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
12,700	4,76	0,40	5,50	-	3,50	0,10	0,08	0,40	0,10	0,05	0,20	
12,700	4,76	0,80	5,50	-	3,50	0,20	0,10	0,80	0,15	0,08	0,30	
6,350	2,38	0,20	2,80	7°	3,50	0,08	0,05	0,20	0,07	0,05	0,15	
6,350	2,38	0,40	2,80	7°	3,50	0,10	0,05	0,40	0,09	0,05	0,20	
9,520	3,97	0,40	4,40	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,520	3,97	0,80	4,40	10°	3,50	0,20	0,08	0,80	0,15	0,07	0,30	
12,700	4,76	0,40	5,50	10°	3,50	0,12	0,07	0,40	0,10	0,05	0,20	
12,700	4,76	0,80	5,50	10°	3,50	0,22	0,08	0,80	0,15	0,08	0,30	
6,350	2,38	0,20	6,35	-	3,50	0,08	0,05	0,20	0,07	0,05	0,15	
6,350	2,38	0,40	6,35	-	3,50	0,10	0,05	0,40	0,09	0,05	0,20	
9,525	3,97	0,40	9,53	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	9,53	-	3,50	0,20	0,08	0,80	0,15	0,07	0,30	
6,350	3,96	1,20	6,35	-	3,50	0,30	0,09	1,20	0,20	0,10	0,40	
12,700	4,76	0,40	12,70	-	3,50	0,12	0,07	0,40	0,10	0,05	0,20	
12,700	4,76	0,80	12,70	-	3,50	0,22	0,08	0,80	0,15	0,08	0,30	

				N		
		(2) Grade code		D6	B	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PDP410	PDP403	
SINGLE TIP						
	TCGT Z1	1124186	TCGT 090202 Z1	TCGT 1.81.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124188	TCGT 090204 Z1	TCGT 1.81.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124501	TCGT 090208 Z1	TCGT 1.81.52 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124119	TCGT 110204 Z1	TCGT 21.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124190	TCGT 110208 Z1	TCGT 21.52 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	TCGW Z1	1124185	TCGW 090202 Z1	TCGW 1.81.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124187	TCGW 090204 Z1	TCGW 1.81.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124507	TCGW 110202 Z1	TCGW 21.50.5 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124192	TCGW 110204 Z1	TCGW 21.51 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124189	TCGW 110208 Z1	TCGW 21.52 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	TPGT Z1	1124260	TPGT 110302 Z1	TPGT 220.5 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124261	TPGT 110304 Z1	TPGT 221 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124262	TPGT 110308 Z1	TPGT 222 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124263	TPGT 16T304 Z1	TPGT 32.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124174	TPGT 16T308 Z1	TPGT 32.52 Z1	<input type="checkbox"/>	<input type="checkbox"/>
	TPGW Z1	1124264	TPGT 160404 Z1	TPGT 331 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124265	TPGT 160408 Z1	TPGT 332 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124266	TPGW 110202 Z1	TPGW 21.50.5 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124267	TPGW 110204 Z1	TPGW 21.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124268	TPGW 110208 Z1	TPGW 21.52 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124269	TPGW 110302 Z1	TPGW 220.5 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124270	TPGW 110304 Z1	TPGW 221 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124379	TPGW 110308 Z1	TPGW 222 Z1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		1124271	TPGW 16T304 Z1	TPGW 32.51 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124272	TPGW 16T308 Z1	TPGW 32.52 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124273	TPGW 160404 Z1	TPGW 331 Z1	<input type="checkbox"/>	<input type="checkbox"/>
		1124274	TPGW 160408 Z1	TPGW 332 Z1	<input type="checkbox"/>	<input type="checkbox"/>

Stock Items | Itens de stock



Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

PCD POSITIVE INSERTS

Single tip

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX	
SINGLE TIP												
5,560	2,38	0,20	2,50	7°	3,00	0,07	0,04	0,20	0,07	0,03	0,10	
5,560	2,38	0,40	2,50	7°	3,00	0,10	0,07	0,40	0,10	0,05	0,20	
7,540	2,38	0,80	2,50	7°	3,00	0,45	0,10	0,80	0,18	0,08	0,30	
6,350	2,38	0,40	2,80	7°	3,00	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	2,38	0,80	2,80	7°	3,00	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	3,97	0,40	4,40	10°	3,00	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,40	10°	3,00	0,20	0,08	0,80	0,15	0,08	0,30	
5,560	2,38	0,20	2,50	-	3,00	0,07	0,04	0,20	0,07	0,03	0,10	
5,560	2,38	0,40	2,50	-	3,00	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	2,38	0,20	2,80	-	3,00	0,07	0,04	0,20	0,07	0,03	0,10	
6,350	2,38	0,40	2,80	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	2,38	0,80	2,80	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	3,97	0,40	4,40	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,40	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
6,350	3,18	0,20	3,40	10°	3,50	0,07	0,04	0,20	0,07	0,05	0,10	
6,350	3,18	0,40	3,40	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	3,18	0,80	3,40	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	3,97	0,40	4,30	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,30	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	4,76	0,40	4,30	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	4,76	0,80	4,30	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
6,350	2,38	0,20	2,80	-	3,50	0,07	0,04	0,20	0,07	0,05	0,10	
6,350	2,38	0,40	2,80	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	2,38	0,80	2,80	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
6,350	3,18	0,20	2,80	-	3,50	0,07	0,04	0,20	0,07	0,05	0,10	
6,350	3,18	0,40	2,80	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
6,350	3,18	0,80	2,80	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	3,97	0,40	4,30	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	3,97	0,80	4,30	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	
9,525	4,76	0,40	4,30	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20	
9,525	4,76	0,80	4,30	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30	

Inserts Pastilhas Plaquitas	(1) Geometry code	(2) Grade code		N	
		ISO Reference	ANSI Reference	D6 PDP410	B3 PDP403
SINGLE TIP					
	1124275	VCGT 070202 Z1	VCGT 1.31.50.5 Z1	○	○
	1124276	VCGT 070204 Z1	VCGT 1.31.51 Z1	○	○
	1124277	VCGT 110302 Z1	VCGT 220.5 Z1	⊗	○
	1124071	VCGT 110304 Z1	VCGT 221 Z1	⊗	○
	1124278	VCGT 160404 Z1	VCGT 331 Z1	⊗	○
	1112640	VCGT 160408 Z1	VCGT 332 Z1	⊗	○
	1124279	VCGT 160412 Z1	VCGT 333 Z1	○	○
	1124280	VCGW 070202 Z1	VCGW 1.31.50.5 Z1	○	○
	1124281	VCGW 070204 Z1	VCGW 1.31.51 Z1	⊗	○
	1124796	VCGW 110302 Z1	VCGW 220.5 Z1	⊗	○
	1124378	VCGW 110304 Z1	VCGW 221 Z1	⊗	○
	1124282	VCGW 110308 Z1	VCGW 222 Z1	⊗	○
	1124795	VCGW 160402 Z1	VCGW 330.5 Z1	⊗	○
	1124283	VCGW 160404 Z1	VCGW 331 Z1	⊗	○
	1112641	VCGW 160408 Z1	VCGW 332 Z1	⊗	○
	1124284	VCGW 160412 Z1	VCGW 333 Z1	⊗	○

⊗ Stock Items | Itens de stock



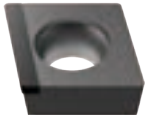
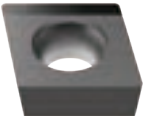
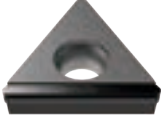

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

PCD POSITIVE INSERTS

Single tip

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico	
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX		
SINGLE TIP													
3,970	2,38	0,20	2,20	7°	3,00	0,08	0,05	0,20	0,08	0,03	0,10		
3,970	2,38	0,40	2,20	7°	3,00	0,10	0,07	0,40	0,10	0,05	0,20		
6,350	3,18	0,20	2,80	10°	3,50	0,08	0,05	0,20	0,08	0,03	0,10		
6,350	3,18	0,40	2,80	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20		
9,525	4,76	0,40	4,40	10°	3,50	0,10	0,07	0,40	0,10	0,05	0,20		
9,525	4,76	0,80	4,40	10°	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
9,525	4,76	1,20	4,40	10°	3,50	0,30	0,10	1,20	0,17	0,08	0,35		
3,970	2,38	0,20	2,20	-	3,00	0,08	0,05	0,20	0,08	0,03	0,10		
3,970	2,38	0,40	2,20	-	3,00	0,10	0,07	0,40	0,10	0,05	0,20		
6,350	3,18	0,20	2,80	-	3,50	0,13	0,05	0,20	0,10	0,05	0,15		
6,350	3,18	0,40	2,80	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20		
6,350	3,18	0,80	2,80	-	3,50	0,20	0,08	0,80	0,15	0,08	0,30		
9,525	4,76	0,20	4,40	-	3,50	0,18	0,05	0,30	0,10	0,05	0,15		
9,525	4,76	0,40	4,40	-	3,50	0,10	0,07	0,40	0,10	0,05	0,20		
9,525	4,76	0,80	4,40	-	4,00	0,20	0,08	0,80	0,15	0,08	0,30		
9,525	4,76	1,20	4,40	-	3,50	0,30	0,10	1,20	0,17	0,08	0,35		

				N	
		(2) Grade code		D6	I3
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	ANSI Reference	PDP410	PDP403
FULL EDGE					
	1124212	CCGT 09T302 FR	CCGT 32.50.5 FR	○	○
	1124165	CCGT 09T304 FR	CCGT 32.51 FR	⊗	○
	1124213	CCGT 120404 FR	CCGT 431 FR	○	○
	1124214	CCGT 120408 FR	CCGT 432 FR	○	○
	1124215	CCGT 09T302 FL	CCGT 32.50.5 FL	○	○
	1124166	CCGT 09T304 FL	CCGT 32.51 FL	⊗	○
	1124216	CCGT 120404 FL	CCGT 431 FL	⊗	○
	1124217	CCGT 120408 FL	CCGT 432 FL	⊗	○
	1124547	CCGW 060204 FR	CCGW 21.51 FR	⊗	○
	1124170	CCGW 09T304 FR	CCGW 32.51 FR	○	○
	1124222	CCGW 09T308 FR	CCGW 32.52 FR	○	○
	1124223	CCGW 120404 FR	CCGW 431 FR	○	○
	1124224	CCGW 120408 FR	CCGW 432 FR	○	○
	1124548	CCGW 060204 FL	CCGW 21.51 FL	⊗	○
	1124171	CCGW 09T304 FL	CCGW 32.51 FL	○	○
	1124225	CCGW 09T308 FL	CCGW 32.52 FL	○	○
	1124226	CCGW 120404 FL	CCGW 431 FL	○	○
	1124227	CCGW 120408 FL	CCGW 432 FL	⊗	○
	1124173	TCGT 110204 FL	TCGT 21.51 FL	⊗	○
	1124248	TCGT 110208 FL	TCGT 21.52 FL	○	○
	1124249	TCGT 16T304 FL	TCGT 32.51 FL	⊗	○
	1124250	TCGT 16T308 FL	TCGT 32.52 FL	⊗	○
	1124252	TCGW 110202 FL	TCGW 21.50.5 FL	○	○
	1112777	TCGW 110204 FL	TCGW 21.51 FL	⊗	○
	1124253	TCGW 16T304 FL	TCGW 32.51 FL	⊗	○
	1124254	TCGW 16T308 FL	TCGW 32.52 FL	⊗	○
	1124255	TCGW 220404 FL	TCGW 431 FL	○	○
	1124382	TCGW 220408 FL	TCGW 432 FL	⊗	○

⊗ Stock Items | Itens de stock

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

PCD POSITIVE INSERTS

Full edge

Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Cutting conditions Condições de corte Condiciones de corte						Technical drawing Desenho técnico Dibujo técnico	
IC	S	RE	D1	AN	SL	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX		
FULL EDGE													
9,525	3,97	0,20	4,40	10°	9,70	4,85	0,20	6,40	0,08	0,05	0,15		
9,525	3,97	0,40	4,40	10°	9,70	4,85	0,40	6,40	0,12	0,07	0,25		
12,700	4,76	0,40	5,50	10°	12,90	6,45	0,40	8,50	0,15	0,08	0,30		
12,700	4,76	0,80	5,50	10°	12,90	6,45	0,80	8,50	0,30	0,10	0,40		
9,525	3,97	0,20	4,40	10°	9,70	4,85	0,20	6,40	0,08	0,05	0,15		
9,525	3,97	0,40	4,40	10°	9,70	4,85	0,40	6,40	0,12	0,07	0,25		
12,700	4,76	0,40	5,50	10°	12,90	6,45	0,40	8,50	0,15	0,08	0,30		
12,700	4,76	0,80	5,50	10°	12,90	6,45	0,80	8,50	0,30	0,10	0,40		
9,525	3,97	0,40	4,40	-	9,70	4,85	0,40	6,40	0,12	0,07	0,25		
9,525	3,97	0,40	4,40	-	9,70	4,85	0,40	6,40	0,12	0,07	0,25		
9,525	3,97	0,80	4,40	-	9,70	4,85	0,80	6,40	0,16	0,10	0,35		
12,700	4,76	0,40	5,50	-	12,90	6,45	0,40	8,50	0,15	0,08	0,30		
12,700	4,76	0,80	5,50	-	12,90	6,45	0,80	8,50	0,30	0,10	0,40		
6,350	2,38	0,40	2,80	-	6,50	3,25	0,40	4,20	0,08	0,07	0,25		
9,525	3,97	0,40	4,40	-	9,70	4,85	0,40	6,40	0,12	0,07	0,25		
9,525	3,97	0,80	4,40	-	9,70	4,85	0,80	6,40	0,16	0,10	0,35		
12,700	4,76	0,40	5,50	-	12,90	6,45	0,40	8,50	0,15	0,08	0,30		
12,700	4,76	0,80	5,50	-	12,90	6,45	0,80	8,50	0,30	0,10	0,40		
6,350	2,38	0,40	2,80	7°	10,41	5,20	0,40	6,90	0,10	0,05	0,20		
6,350	2,38	0,80	2,80	7°	9,83	4,92	0,80	6,50	0,15	0,08	0,30		
9,525	3,97	0,40	4,40	10°	15,91	7,96	0,40	10,50	0,10	0,05	0,20		
9,525	3,97	0,80	4,40	10°	15,33	7,67	0,80	10,15	0,15	0,08	0,30		
6,350	2,38	0,20	2,80	-	10,71	5,20	0,40	6,90	0,10	0,05	0,20		
6,350	2,38	0,40	2,80	-	10,41	5,21	0,80	6,50	0,15	0,08	0,30		
9,525	3,97	0,40	4,40	-	15,91	7,96	0,40	10,50	0,10	0,05	0,20		
9,525	3,97	0,80	4,40	-	15,33	7,67	0,80	10,15	0,15	0,08	0,30		
12,700	4,76	0,40	5,50	-	21,40	8,00	0,40	10,70	0,10	0,08	0,20		
12,700	4,76	0,80	5,50	-	20,83	7,84	0,80	10,45	0,15	0,10	0,30		

INSERTS FOR **HEAVY TURNING**



Heavy turning entails precisely shaping large-scale components using robust machinery and specialized techniques. This process tackles formidable tasks such as shaping massive shafts, cylinders, and gears utilized in sectors like aerospace, energy, and transportation. It requires expertise, precision, and rigorous quality control.

O torneamento pesado envolve a modelagem precisa de componentes em grande escala usando maquinaria robusta e técnicas especializadas. Este processo enfrenta tarefas formidáveis, como moldar eixos, cilindros e engrenagens maciças utilizadas em setores como aeroespacial, energia e transporte. Exige experiência, precisão e rigoroso controle de qualidade.

El torneado pesado implica la modelación precisa de componentes a gran escala utilizando maquinaria robusta y técnicas especializadas. Este proceso aborda tareas formidables como la conformación de ejes, cilindros y engranajes masivos utilizados en sectores como el aeroespacial, energético y de transporte. Requiere experiencia, precisión y un riguroso control de calidad.

BAR PEELING > page 624

Inserts for refining blanks into polished bars, suitable for diverse applications. Versatile across materials, it streamlines production with specialized tools

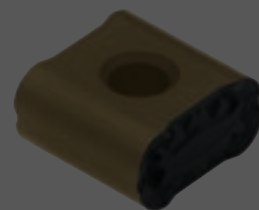
Pastilhas para refinar peças brutas em barras polidas, adequadas para diversas aplicações. Versátil em diferentes materiais, otimiza a produção com ferramentas especializadas | Plaquetas para refinar piezas en bruto en barras pulidas, adecuadas para diversas aplicaciones. Versátil en diferentes materiales, optimiza la producción con herramientas especializadas



RAILWAY > page 630

Inserts are designed to meet diverse railway machining needs, covering tasks such as handling new rails, re-profiling, managing crossings, joints, wheel-set production, and maintenance

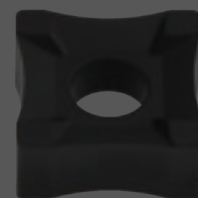
As pastilhas são projetadas para atender às diversas necessidades de maquinaria ferroviária, abrangendo tarefas como o manuseio de carris novos, o reperfilamento, a gestão de cruzamentos, juntas, produção de conjuntos de rodas e manutenção | As pastilhas están diseñados para satisfacer las diversas necesidades de mecanizado ferroviario, cubriendo tareas como el manejo de rieles nuevos, el reperfilado, la gestión de cruces, juntas, la producción de conjuntos de ruedas y mantenimiento



SCARFING > page 640

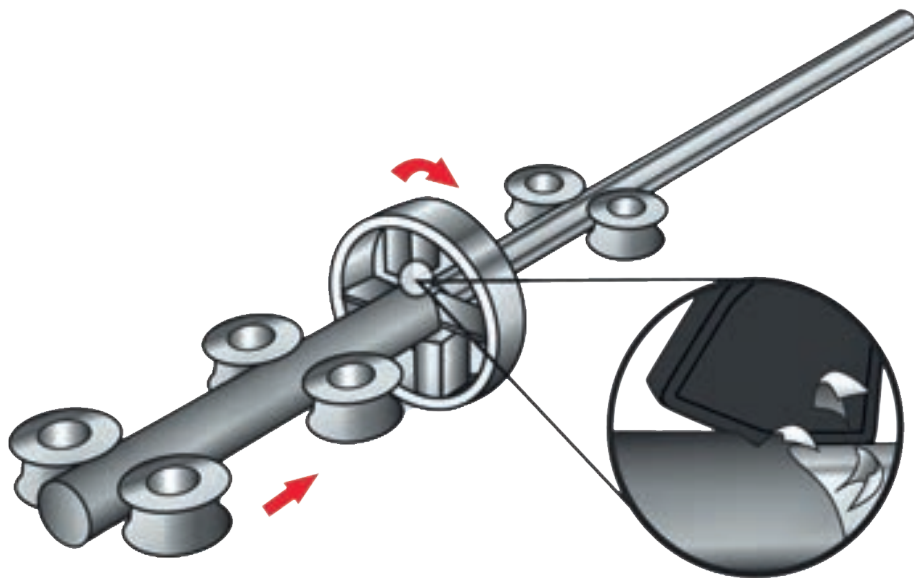
Scarfig is common in steel, pipeline, and metal industries for welded component quality. Inserts remove surface imperfections, ensuring smooth surfaces

Scarfig é comum nas indústrias de aço, tubulações e metalurgia para garantir a qualidade dos componentes soldados. As pastilhas removem imperfeições superficiais, garantindo superfícies lisas | Scarfig es común en las industrias del acero, tuberías y metalurgia para garantizar la calidad de los componentes soldados. Las pastillas eliminan imperfecciones superficiales, asegurando superficies lisas



BAR PEELING INSERTS

Bar Peeling is the machining process by which a raw forged blank is converted into a polished bar. During this peeling process, surface cracks and oxide layers are removed giving a perfect roundness with good surface and dimensional accuracy to the bar. The range of materials that can be machined with these tools is vast and goes from all kind of Steels to Cast Iron parts.



The size of blank bar can go from 4 mm (157 inch) to over 400 mm (15.75 inch) in diameter.

The surface quality and dimensional tolerances are also high, which leads to less machining at later stages.

Our aim is at the same time improving your productivity (by removing maximal chips volume) and, at the same time, matching or surpassing your surface quality requirements. This is why our Bar Peeling program is vast, comprising both standard tools and also special custom-made solutions to every customer needs. Please don't hesitate to contact us regarding other possible geometries that we may have although not presented in this catalogue.



BAR PEELING INSERTS IDENTIFICATION SYSTEM

Sistema de identificação para pastilhas de torneamento de barra | Codificación para plaquitas de torneado de barra

L	N	G	F	20	10	35	-	MP
1	2	3	4	5	6	7		8

1 - Insert Shape

I	J	L	R	S
T	U	W	X	

2 - Clearance Angle

N

5 - Length of Cutting Edge (LE)

The length of the secondary cutting edge is indicated in mm

13 mm	25 mm
14 mm	27 mm
15 mm	28 mm
17 mm	38 mm
20 mm	44 mm
22 mm	50 mm

3 - Tolerances

symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~0.25	±0.13

4 - Insert type

symbol	Type	Type of hole	Chip breaker	Shape
W	with hole	Round hole / one countersink (40°-60°)	Without chip breaker	
T	with hole		Chip breaker on one side	
Q	with hole	Round hole / one countersink (40°-60°)	Without chip breaker	
U	with hole		Chip breaker on both sides	
B	with hole	Round hole / one countersink (70°-90°)	Without chip breaker	
H	with hole		Chip breaker on one side	
C	with hole	Round hole / double countersink (70°-90°)	Without chip breaker	
J	with hole		Chip breaker on both sides	
A	with hole	Round hole	Without chip breaker	
M	with hole		Chip breaker on one side	
G	with hole		Chip breaker on both sides	
N	without hole	--	Without chip breaker	
R	without hole	--	Chip breaker on one side	
F	without hole	--	Chip breaker on both sides	
X	-	-	--	On request

6 - Thickness (S)

The length of the secondary cutting edge is indicated in mm

08 = 8,00 mm
09 = 9,52 mm
10 = 10,00 mm
12 = 12,00 mm
12 = 12,70 mm
13 = 13,00 mm
14 = 14,00 mm
18 = 18,00 mm

* As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of Class M, refer to the table on the right.

8 - Chip Breaker

Chip breaker according to Palbit geometries

FP	MH
ST	RP
MP	LH









7 - Depth of Cut (AP)

Maximum depth of cut

20 = 2,00 mm
25 = 2,50 mm
35 = 3,50 mm
40 = 4,00 mm
80 = 8,00 mm

BAR PEELING INSERTS RANGE

TURNING

			P									M						K					
			CVD									CVD						CVD					
		(2) Grade code	L7	R2	L8	R3	U5	P1	V8	N2	S9	L9	U4	L8	U5	N2	P1	V8	V6	L5	L6	L9	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO / ANSI Reference	PH5115	PHG115	PH5125	PHG125	PHS225	PH5228	PHS228	PH5135	PHG135	PH5740	PHS215	PH5125	PHS225	PH5135	PHS228	PHS228	PHS240	PH5705	PH5320	PH5740	
 INGR-MP Rectangular 90°	1123828	INGR 221240-MP	⊗	○	○									○									
	1123830	JNGF 201220-MP	○		⊗	○									⊗								
 JNGF-MP Rectangular 90°	1123996	JNGF 201220-MP SP1			○									○									
	1123997	JNGF 201220-MP SP2	⊗		⊗										⊗							○	
	1124043	JNGF 271220-MP			⊗										⊗								○
 JNGF-PM Rectangular 90°	1124452	JNGF 201220-PM		○										⊗									
	1124567	JNGF 201220-PM SP		○																			
 LNGF-MP Rectangular 90°	1123826	LNGF 201035-MP	○	⊗	○			○						○			○					⊗	
	1123827	LNGF 201235-MP	○	○	○										○								
 UNGF-MP Rectangular 90°	1123829	UNGF 171240-MP	○		○	⊗								○									
 TNMJ-MP Triangular 60°	1123838	TNMJ 201025-MP	⊗	⊗	⊗	⊗	⊗							⊗	⊗								
	1123843	TNMJ 201425-MP			⊗	○									⊗								
 TNGM-MP Triangular 60°	1124104	TNGM 220812-MP			⊗					⊗				⊗		⊗							
 TNMM-LH Triangular 60°	1124102	TNMM 441116-LH								○	⊗					○							

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code






⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

BAR PEELING INSERTS RANGE

Negative inserts | Pastilhas negativas | Plaquetas negativas

Dimensions (mm) Dimensões (mm) Dimensiones (mm)									Cutting Conditions Condições de Corte Condiciones de Corte					Technical Drawing Desenho Técnico Diseño Técnico		
INSL	IC	LE	W1	S1	D1	RE	APMX	KRINS	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX		
38,25	-	22,00	17,50	12,00	-	-	4,00	20	2,00	0,40	4,00	3,50	1,00	8,00		
36,90	-	20,00	18,00	12,35	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00		
36,30	-	20,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00		
36,50	-	20,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00		
36,90	-	27,00	18,00	12,45	-	-	2,00	20	1,50	1,00	2,00	3,50	1,50	6,00		
37,52	-	21,00	18,00	12,45	-	-	3,00	20	1,50	1,00	2,00	4,00	2,00	6,00		
37,52	-	21,00	18,00	12,45	-	-	3,00	20	1,50	1,00	2,00	4,00	2,00	6,00		
40,00	-	20,00	20,00	10,00	-	-	3,50	25	2,00	0,80	3,50	2,50	1,00	6,50		
40,00	-	20,00	20,00	12,00	-	-	3,50	25	2,00	0,80	3,50	2,50	1,00	6,50		
36,50	-	17,00	18,00	12,00	-	-	4,00	15	1,50	0,35	4,00	2,00	1,00	5,00		
-	28,60	20,00	-	10,00	7,00	-	2,50	20	1,00	0,70	2,50	3,00	1,00	5,50		
-	28,60	20,00	-	14,00	7,00	-	2,50	20	1,00	0,70	2,50	3,00	1,00	5,50		
-	19,05	22,00	-	8,00	7,96	-	1,20	15	0,70	0,20	1,30	14,00	5,00	18,00		
-	25,40	41,70	-	11,50	9,20	1,60	-	-	12,00	2,00	25,00	0,80	0,50	1,60		

			P									M						K					
			CVD									CVD						CVD					
		(2) Grade code	L7	R2	L8	R3	U5	P1	V8	N2	S9	L9	U4	L8	U5	N2	P1	V8	V6	L5	L6	L9	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO / ANSI Reference	PH5115	PHG115	PH5125	PHG125	PHS225	PH5228	PHS228	PH5135	PHG135	PH5740	PHS215	PH5125	PHS225	PH5135	PH5228	PHS228	PHS240	PH5705	PH5320	PH5740	
XNMJ-MP																							
	1123835	XNMJ 151380-MP	○	⊗				⊗		○				⊗		○	⊗						
Special 85°																							
XNMJ-MH																							
	1123836	XNMJ 151380-MH	○	○	⊗			⊗				○		⊗			⊗					○	
Special 85°																							
XNGF-FP																							
	1123837	XNGF 150980-FP			○					○				○		○	⊗						
Special 85°																							
XNGJ-RP																							
	1123834	XNGJ 151380-RP			○									○			⊗						
Special 85°																							
WNGJ-MP																							
	1124041	WNGJ 130950-MP			⊗	○		⊗						⊗			⊗			○	⊗		
Special 75°																							
RNMX-MP																							
	1123831	RNMX 381200-MP	○	○	⊗				○					○			⊗	○					
	1123832	RNMX 5018M0-MP	○	○					⊗					○			○	⊗					
Round R°																							
RNMX-RP																							
	1123833	RNMX 5018M0-RP	○	○					○					○			⊗	○					
Round R°																							

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

BAR PEELING INSERTS RANGE

Negative inserts | Pastilhas negativas | Plaquetas negativas

Dimensions (mm) Dimensões (mm) Dimensiones (mm)									Cutting Conditions Condições de Corte Condiciones de Corte					Technical Drawing Desenho Técnico Diseño Técnico		
INSL	IC	LE	W1	S1	D1	RE	APMX	KRINS	AP (mm)	MIN	MAX	FN (mm/r)	MIN	MAX		
-	31,75	15,00	-	13,00	9,00	-	8,00	25,00	3,00	1,00	6,50	6,00	4,00	12,00		
-	31,75	15,00	-	13,00	9,00	-	8,00	25,00	3,00	1,00	6,50	6,00	4,00	12,00		
-	28,58	15,00	-	8,88	-	-	8,00	30,00	3,00	1,00	4,50	6,00	4,00	12,00		
-	31,75	15,00	-	13,00	9,00	-	8,00	25,00	3,00	1,00	6,50	6,00	4,00	12,00		
-	22,23	13,00	-	9,56	7,93	-	5,00	15,00	3,00	0,50	5,00	6,00	3,00	11,00		
-	38,10	-	-	12,70	13,00	-	-	-	4,00	2,00	8,00	2,00	1,00	4,00		
-	50,00	-	-	18,00	12,70	-	-	-	6,00	2,00	12,00	3,50	2,50	6,50		
-	50,00	-	-	18,00	12,70	-	-	-	6,00	2,00	12,00	6,00	4,00	10,50		



RAILWAY TURNING

Palbit is constantly investing in new technologies, research and development of cutting tools for the railway industry.

We supply a complete range of tooling solutions based on a wide experience and know-how to achieve high efficiency machining on new rails and wheels as well as re-profiling, crossing rails, joints and more.

FACE TURNING

Inserts with MT-CVD coating grade and high wear resistance for the machining of forged steels providing longer tool file.

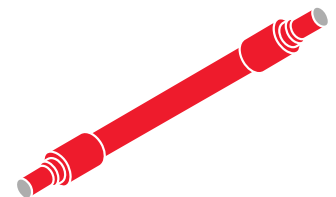


WHEEL TURNING

Inserts with special design geometry for wheel re-profiling providing productivity through a better chip evacuation. High built-up edge resistance and wear providing efficiency and increasing tool life.

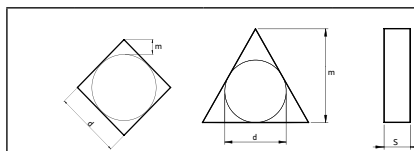
EXTERNAL TURNING

MT-CVD coating inserts with high wear resistance for turning long axle shafts.



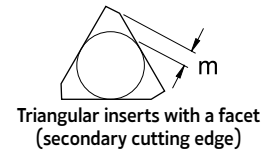
H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1- Insert shape symbol



Symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

*As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.



Detailed dimension of M class insert Insert height Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-

Inscribed circle Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

3 - Tolerances symbol

A	B	C	D	E
				Other clearance angle

2 - Normal clearance symbol



4 - Insert symbol															
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	
W	with hole	Round hole / one countersink (40°-60°)	Without chip breaker		H	with hole	Round hole / one countersink (70°-90°)	Chip breaker on one side		G	with hole	Round hole	Chip breaker on both sides		
T			Chip breaker on one side		C		Round hole / double countersink (70°-90°)	Without chip breaker		N		-	Without chip breaker		
Q		Round hole / double countersink (40°-60°)	Without chip breaker		J		Round hole	Round hole	Without chip breaker		R	without hole	-	Chip breaker on one side	
U			Chip breaker on both sides		A				Without chip breaker		F			Chip breaker on both sides	
B	Round hole / one countersink (70°-90°)	Without chip breaker		M	Chip breaker on one side		X	-	-	-	-	On request			

RAILWAY INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificação ISO para pastilhas para a indústria ferroviária | Codificación ISO para plaquitas para ferrocarril

R's	35° V's	55° D's	80° C's	90° S's	60° T's	80° W's	IC		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only (Radius Designation is R0)

** Metric designation only (Radius Designation is M0)

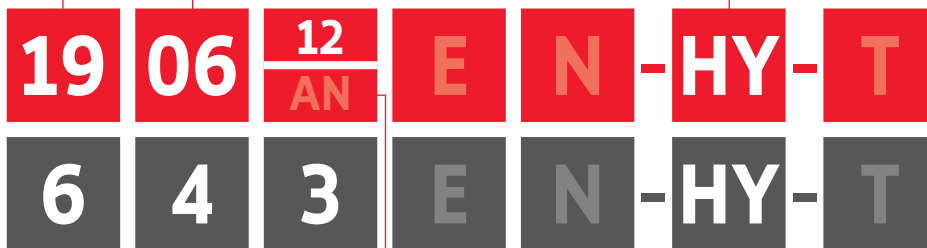
According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol



10 - Chip breaker geometries					
NEGATIVE Chip breakers	HY	HZ	RMM	RRM	RHR
POSITIVE Chip breakers	RM	RR	ST		

T	Tangential
*only when required.	

7 - Insert corner symbol			
ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
00 (inch or MO/ metric)	Round insert		0

7.1* - Insert edges symbol			
For inserts having secondary edges two digits are used:			
1 st digit is secondary edge		2 nd digit is secondary edges relief angle	
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	special	F	25°
		G	30°
		N	0°
		P	11°
		Z	special
*only when required.			



8* - Cutting edge information		
Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S
*only when required.		

9* - Cutting direction		
Shape	Hand	Symbol
	Right	R
	Left	L
	None	N
*only when required.		

CN - RHOMBIC 80° NEGATIVE

RÔMBICA 80° NEGATIVA | RÓMBICA 80° NEGATIVA

TURNING

			P							M							K				N	S				
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 CNMM-HY Heavy to Roughing	1121608	CNMM 190612-HY			○	⊗							⊗													
	1121252	CNMM 190616-HY		⊗	○	○							⊗													
	1121434	CNMM 190624-HY			○	⊗	○		⊗																	
 CNMM-HZ Heavy to Roughing	1121248	CNMM 250924-HY		⊗	○	⊗	○																			
	1121607	CNMM 190612-HZ			○	⊗	○													⊗	⊗					
	1121251	CNMM 190616-HZ		⊗	○	⊗	○													⊗	⊗					
	1121435	CNMM 190624-HZ		⊗	○	⊗	○		⊗											⊗	⊗					
1121247	CNMM 250924-HZ		⊗	○	⊗	○		⊗											⊗	⊗						

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts



Positive inserts

PCBN & PCD inserts

Heavy turning

SN - SQUARE 90° NEGATIVE

QUADRADA 90° NEGATIVA | ESQUADRA 90° NEGATIVA

			P							M							K				N	S				
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD			
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920
 SNMM-HY Heavy to Roughing	1121606	SNMM 190612-HY		⊗	○	⊗	○		⊗				⊗								⊗					
	1121250	SNMM 190616-HY		⊗	○	⊗	○						○													
	1121452	SNMM 190624-HY			○	○	○						○													
	1121160	SNMM 250724-HY			⊗	⊗	○		⊗				⊗													
1121161	SNMM 250924-HY			○	○	○		⊗				⊗														
 SNMM-HZ Heavy to Roughing	1121605	SNMM 190612-HZ		⊗	○	○	○													⊗	⊗					
	1121249	SNMM 190616-HZ			○	⊗	○		⊗											⊗	○					
	1121440	SNMM 190624-HZ			○	⊗	○	○												⊗	⊗					
	1121158	SNMM 250724-HZ		⊗	○	⊗	⊗		⊗											⊗	○					
	1123786	SNMM 250732-HZ			○	⊗	○														⊗	○				
1121159	SNMM 250924-HZ		⊗	○	⊗	○		⊗											⊗	○						

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

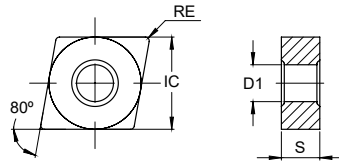
⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

External Toolholders

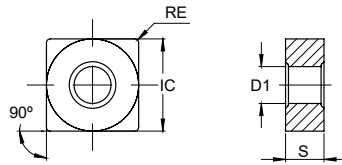
Internal Toolholders

Automatic Lathes

Spare Parts



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
CNMM 190612-HY	CNMM 643-HY	19,050	6,35	1,20	7,94	6,00	2,00	12,00	0,50	0,35	0,80
CNMM 190616-HY	CNMM 644-HY	19,050	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,00
CNMM 190624-HY	CNMM 646-HY	19,050	6,35	2,40	7,94	6,00	2,00	12,00	0,60	0,35	1,20
CNMM 250924-HY	CNMM 866-HY	25,400	9,52	2,40	9,12	8,00	2,50	15,00	0,70	0,40	1,40
CNMM 190612-HZ	CNMM 643-HZ	19,050	6,35	1,20	7,94	10,00	2,40	12,00	0,65	0,50	0,80
CNMM 190616-HZ	CNMM 644-HZ	19,050	6,35	1,60	7,94	10,00	2,40	12,00	0,80	0,50	1,10
CNMM 190624-HZ	CNMM 646-HZ	19,050	6,35	2,40	7,94	10,00	3,20	12,00	1,00	0,60	1,60
CNMM 250924-HZ	CNMM 866-HZ	25,400	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60






ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
SNMM 190612-HY	SNMM 643-HY	19,050	6,35	1,20	7,94	6,00	2,00	12,00	0,60	0,35	0,90
SNMM 190616-HY	SNMM 644-HY	19,050	6,35	1,60	7,94	6,00	2,00	12,00	0,60	0,35	1,20
SNMM 190624-HY	SNMM 646-HY	19,050	6,35	2,40	7,94	6,00	2,00	12,00	1,00	0,60	1,60
SNMM 250724-HY	SNMM 856-HY	25,400	7,94	2,40	9,12	8,50	2,50	15,00	1,00	0,60	1,60
SNMM 250924-HY	SNMM 866-HY	25,400	9,52	2,40	9,12	8,50	3,00	15,00	1,00	0,60	1,60
SNMM 190612-HZ	SNMM 643-HZ	19,050	6,35	1,20	7,94	10,00	2,40	13,00	0,60	0,35	0,90
SNMM 190616-HZ	SNMM 644-HZ	19,050	6,35	1,60	7,94	10,00	2,40	13,00	0,60	0,35	1,20
SNMM 190624-HZ	SNMM 646-HZ	19,050	6,35	2,40	7,94	10,00	3,20	13,00	1,00	0,60	1,60
SNMM 250724-HZ	SNMM 856-HZ	25,400	7,94	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60
SNMM 250732-HZ	SNMM 858-HZ	25,400	7,94	3,20	9,12	10,00	3,20	17,00	1,20	0,80	1,80
SNMM 250924-HZ	SNMM 866-HZ	25,400	9,52	2,40	9,12	10,00	3,20	17,00	1,00	0,60	1,60

LNUX - RECTANGULAR 90° NEGATIVE

RECTANGULAR 90° NEGATIVA | RETANGULAR 90° NEGATIVA

TURNING

			P							M							K				N	S						
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD					
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3		
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920		
LNUX-RMM  Medium			1123640	LNUX 321248-RMM		○	○																					
LNUX-RRM  Roughing			1123639	LNUX 321248-RRM		⊗	○	○																				
LNUX-RHR  Heavy Roughing			1123643	LNUX 321248-RHR		○	○																					

⊗ First choice | 1ª Escolha | 1ª Opción ○ Available under request | Disponível sob consulta | Disponible bajo consulta Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code
 ⊗ Stock Items | Itens de stock ⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

LNUX-T - TANGENTIAL 90° NEGATIVE

TANGENCIAL 90° NEGATIVA | TANGENCIAL 90° NEGATIVA




External Toolholders

Internal Toolholders

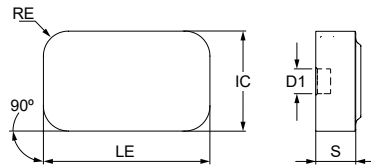
Automatic Lathes

Spare Parts

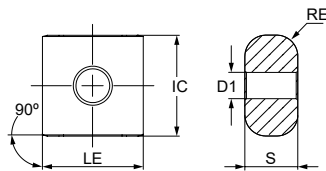
Technical Data

			P							M							K				N	S							
			CVD							PVD	CVD				PVD			UNC	CVD			UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	U4	U5	V6	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3			
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHS215	PHS225	PHS240	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920			
LNUX-RMM-T  Medium			1121953	LNUX 191940-RMM-T		⊗	○	⊗	○																				
			1122005	LNUX 301940-RMM-T		⊗	○	⊗	⊗																				
LNUX-RRM-T  Roughing			1120404	LNUX 191940-RRM-T		⊗	○	⊗	○																				
			1123985	LNUX 301940-RRM-T		⊗	○	⊗	⊗																				
LNUX-RHR-T  Heavy Roughing			1191628	LNUX 191940-RHR-T		⊗	○	⊗	⊗																				
			1191969	LNUX 301940-RHR-T		⊗	○	⊗	○																				

⊗ First choice | 1ª Escolha | 1ª Opción ○ Available under request | Disponível sob consulta | Disponible bajo consulta Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code
 ⊗ Stock Items | Itens de stock ⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)					Cutting Conditions Condições de Corte Condiciones de Corte					
		LE	IC	RE	S	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
LNUX 321248-RMM	LNUX 321248-RMM	31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	0,80	0,30	1,50
LNUX 321248-RRM	LNUX 321248-RRM	31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	1,00	0,80	1,50
LNUX 321248-RHR	LNUX 321248-RHR	31,75	19,05	4,76	12,70	7,87	3,00	1,50	18,00	1,20	0,50	1,80




ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)					Cutting Conditions Condições de Corte Condiciones de Corte					
		LE	IC	RE	S	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
LNUX 191940-RMM-T	LNUX 191940-RMM-T	19,05	19,05	4,00	10,00	6,35	2,50	1,60	8,00	0,80	0,30	1,50
LNUX 301940-RMM-T	LNUX 301940-RMM-T	30,00	19,05	4,00	12,00	6,35	3,00	1,60	12,00	0,80	0,30	1,50
LNUX 191940-RRM-T	LNUX 191940-RRM-T	19,05	19,05	4,00	10,00	6,35	5,50	2,50	10,00	1,00	0,80	1,50
LNUX 301940-RRM-T	LNUX 301940-RRM-T	30,00	19,05	4,00	12,00	6,35	4,50	2,50	13,00	1,00	0,50	2,00
LNUX 191940-RHR-T	LNUX 191940-RHR-T	19,05	19,05	4,00	10,00	6,35	5,50	2,50	10,00	1,20	0,50	1,80
LNUX 301940-RHR-T	LNUX 301940-RHR-T	30,00	19,05	4,00	12,00	6,35	6,50	3,00	15,00	1,20	0,50	1,80

RC - ROUND R° POSITIVE

REDONDA R° POSITIVA | REDONDA R° POSITIVA

TURNING

			P											M					K		N	S							
			CVD							PVD				CVD		PVD			UNC	CVD		UNC	PVD						
		(2) Grade code	T6	L7	5D	L8	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PH5115	PH2G115	PH5125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 RCMR-RR Roughing to Medium	1122009	RCMR 2507M0-RR		⊕		⊕																							
	1122008	RCMR 3209M0-RR		⊕		⊕																							

⊕ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊕ Stock Items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Negative inserts

Positive inserts




PCBN & PCD inserts

Heavy turning

RC - ROUND R° POSITIVE

REDONDA R° POSITIVA | REDONDA R° POSITIVA

External Toolholders

			P											M					K		N	S							
			CVD							PVD				CVD		PVD			UNC	CVD		UNC	PVD						
		(2) Grade code	T6	R2	5D	R3	1D	S9	V5	G1	X5	G4	T1	U4	U5	G1	X6	G4	Y3	25	L5	L6	L9	10	G1	X6	G4	Y3	
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	PHG105	PHG115	PH2G115	PHG125	PH2G125	PHG135	PHG140	PH7910	PHP910	PH7920	PHP920	PHS215	PHS225	PH7910	PHH910	PH7920	PHH920	PH0705	PH5705	PH5320	PH5740	PH0910	PH7910	PHH910	PH7920	PHH920	
 RCMX-ST Roughing to Medium	1121428	RCMX 2006M0-ST		⊕	○	⊕	○	⊕	⊕																				
	1121429	RCMX 2507M0-ST		⊕	⊕	○																							
	1123910	RCMX 3009M0-ST			○	○																							
	1121430	RCMX 3209M0-ST			○		⊕																						
 RCMX-RM Roughing to Medium	1123678	RCMX 3209M0-RM		⊕	○		⊕																						
	1123667	RCMX 2507M0-RR		⊕	○	⊕	○																						
 RCMX-RR Roughing to Medium	1123666	RCMX 3209M0-RR				⊕	⊕		⊕																				

⊕ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊕ Stock Items | Itens de stock

⊕ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

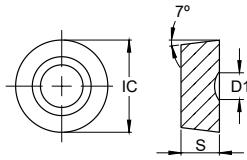
Internal Toolholders

Automatic Lathes

Spare Parts

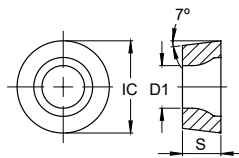
Technical Data

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
RCMR 2507M0-RR	RCMR 2507M0-RR	25,00	7,94	-	9,00	5,00	3,20	8,00	1,80	0,80	2,50
RCMR 3209M0-RR	RCMR 3209M0-RR	32,00	9,52	-	12,00	6,50	3,20	13,00	1,80	0,80	2,50

RELIEF ANGLE 7°



ISO Reference	ANSI Reference	Dimensions (mm) Dimensões (mm) Dimensiones (mm)				Cutting Conditions Condições de Corte Condiciones de Corte					
		IC	S	RE	D1	AP (mm)	MIN	MAX	FN (mm/rev)	MIN	MAX
RCMX 2006M0-ST	RCMX 2006M0-ST	20,00	6,35	-	6,50	5,00	2,00	8,00	0,63	0,20	2,00
RCMX 2507M0-ST	RCMX 2507M0-ST	25,00	7,94	-	7,20	6,30	2,50	10,00	0,79	0,25	2,50
RCMX 3209M0-ST	RCMX 3209M0-ST	30,00	9,55	-	10,00	7,00	3,00	11,00	0,85	0,30	2,80
RCMX 3209M0-ST	RCMX 3209M0-ST	32,00	9,52	-	9,50	8,00	3,20	12,80	1,01	0,32	3,20
RCMX 3209M0-RM	RCMX 3209M0-RM	32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50
RCMX 2507M0-RR	RCMX 2507M0-RR	25,00	7,94	-	7,20	5,00	3,20	8,00	1,80	0,80	2,50
RCMX 3209M0-RR	RCMX 3209M0-RR	32,00	9,52	-	9,50	6,50	3,20	13,00	1,80	0,80	2,50

H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1- Insert shape symbol

Symbol	m (mm)	d (mm)	s (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05~±0.13	±0.025
K*	±0.013	±0.05~±0.13	±0.025
L*	±0.025	±0.05~±0.13	±0.025
M*	±0.08~±0.20	±0.05~±0.13	±0.13
N*	±0.08~±0.20	±0.05~±0.13	±0.025
U*	±0.13~±0.38	±0.08~±0.25	±0.13

*As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.

Triangular inserts with a facet (secondary cutting edge)

Detailed dimension of M class insert Insert height Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.08	-	-	-	-
9.525	±0.08	±0.08	±0.11	±0.10	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	-
15.875	±0.15	±0.15	±0.15	±0.18	-
19.05	±0.15	±0.15	±0.15	±0.18	-
25.40	-	±0.18	-	-	-
31.75	-	±0.25	-	-	-

Inscribed circle Tolerances (mm)					
Inscribed circle	T	S	C	D	V
6.35	±0.05	-	-	-	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	±0.10
19.05	-	-	-	-	±0.10
25.40	-	±0.13	-	-	±0.10
31.75	-	±0.20	-	-	±0.12

3 - Tolerances symbol

A	B	C	D	E
F	G	N	P	O
				Other clearance angle

2 - Normal clearance symbol



4 - Insert symbol															
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	
W	with hole	Round hole / one countersink (40°-60°)	Without chip breaker		H	with hole	Round hole / one countersink (70°-90°)	Chip breaker on one side		G	with hole	Round hole	Chip breaker on both sides		
T			Chip breaker on one side		C		Round hole / double countersink (70°-90°)	Without chip breaker		N		-	Without chip breaker		
Q		Round hole / double countersink (40°-60°)	Without chip breaker		J		Round hole	Round hole	Chip breaker on both sides		R	without hole	-	Chip breaker on one side	
U			Chip breaker on both sides		A				Without chip breaker		F			Chip breaker on both sides	
B	Round hole / one countersink (70°-90°)	Without chip breaker		M	Chip breaker on one side		X	-	-	-	-	-	On request		

SCARFING INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificação ISO para pastilhas de Scarfing | Codificación ISO para plaquitas de Scarfing

R's	35° V's	55° D's	80° C's	90° S's	60° T's	80° W's	IC		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only (Radius Designation is R00)

** Metric designation only (Radius Designation is M0)

According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol



10 - Profiling Radius	
Example: R025	PRFRAD = 25

7 - Insert corner symbol			
ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
00 (inch or MO/ metric)	Round insert		0

7.1* - Insert edges symbol			
For inserts having secondary edges two digits are used:			
1 st digit is secondary edge		2 nd digit is secondary edges relief angle	
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	special	F	25°
		G	30°
		N	0°
		P	11°
		Z	special

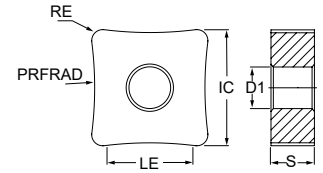
*only when required.


8* - Cutting edge information		
Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S

*only when required.

9* - Cutting direction		
Shape	Hand	Symbol
	Right	R
	Left	L
	None	N

*only when required.



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
				L8	L8							
(2) Grade code				PH5125	PH5125	IC	S	LE	RE	D1	PRFRAD	
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference									
	1123927	SNMA 150612-R020	SNMA 543-R020	○	○	15,88	6,35	10	1,2	6,35	20	23-29
	1123928	SNMA 150612-R022	SNMA 543-R022	○	○	15,88	6,35	10	1,2	6,35	22	25-32
	1123929	SNMA 150612-R025	SNMA 543-R025	○	○	15,88	6,35	10	1,2	6,35	25	29-36
	1123930	SNMA 150612-R027	SNMA 543-R027	○	○	15,88	6,35	10	1,2	6,35	27	31-39
	1123931	SNMA 150612-R030	SNMA 543-R030	○	○	15,88	6,35	10	1,2	6,35	30	35-44
	1123932	SNMA 150612-R035	SNMA 543-R035	○	○	15,88	6,35	10	1,2	6,35	35	40-51
	1123933	SNMA 150612-R040	SNMA 543-R040	○	○	15,88	6,35	10	1,2	6,35	40	46-58
	1123934	SNMA 150612-R050	SNMA 543-R050	○	○	15,88	6,35	10	1,2	6,35	50	58-73
	1123935	SNMA 150612-R060	SNMA 543-R060	○	○	15,88	6,35	10	1,2	6,35	60	69-87
	1123936	SNMA 150612-R070	SNMA 543-R070	○	○	15,88	6,35	10	1,2	6,35	70	80-95
SNMA  Roughing	1123937	SNMA 190612-R030	SNMA 643-R030	○	○	19,05	6,35	12	1,2	7,94	30	35-44
	1123938	SNMA 190612-R040	SNMA 643-R040	○	○	19,05	6,35	12	1,2	7,94	40	46-58
	1123939	SNMA 190612-R050	SNMA 643-R050	○	○	19,05	6,35	12	1,2	7,94	50	58-73
	1123940	SNMA 190612-R060	SNMA 643-R060	○	○	19,05	6,35	12	1,2	7,94	60	69-87
	1123941	SNMA 190612-R070	SNMA 643-R070	○	○	19,05	6,35	12	1,2	7,94	70	80-95
	1123942	SNMA 190612-R080	SNMA 643-R080	○	○	19,05	6,35	12	1,2	7,94	80	92-116
	1123943	SNMA 190612-R090	SNMA 643-R090	○	○	19,05	6,35	12	1,2	7,94	90	104-131
	1123944	SNMA 250924-R000	SNMA 866-R000	○	○	25,40	9,52	17	2,4	9,12	0	-
	1123945	SNMA 250924-R060	SNMA 866-R060	○	○	25,40	9,52	17	2,4	9,12	60	69-87
	1123946	SNMA 250924-R070	SNMA 866-R070	○	○	25,40	9,52	17	2,4	9,12	70	80-95
	1123947	SNMA 250924-R080	SNMA 866-R080	○	○	25,40	9,52	17	2,4	9,12	80	92-116
	1123948	SNMA 250924-R100	SNMA 866-R100	○	○	25,40	9,52	17	2,4	9,12	100	115-145
	1123949	SNMA 250924-R150	SNMA 866-R150	○	○	25,40	9,52	17	2,4	9,12	150	165-215
	1123950	SNMA 250924-R200	SNMA 866-R200	○	○	25,40	9,52	17	2,4	9,12	200	230-290

🔴 First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

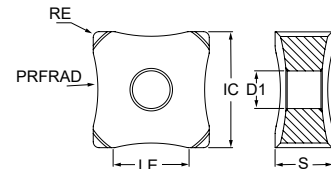
Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code


🟢 Stock Items | Itens de stock

🟡 Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

SCARFING - SNMX

NEGATIVE INSERTS | PASTILHAS NEGATIVAS | PLAQUITAS NEGATIVAS



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
		(2) Grade code		L8	L8							
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PH5125	PH5125	IC	S	LE	RE	D1	PRFRAD	
	1123879	SNMX 150708-R000	SNMX 552-R000	○	○	15,88	7,94	10	0,8	5,16	0	-
	1123880	SNMX 150708-R007	SNMX 552-R007	○	○	15,88	7,94	10	0,8	5,16	7	08-10
	1123881	SNMX 150708-R009	SNMX 552-R009	○	○	15,88	7,94	10	0,8	5,16	9	10-13
	1123882	SNMX 150708-R011	SNMX 552-R011	○	○	15,88	7,94	10	0,8	5,16	11	13-16
	1123883	SNMX 150708-R013	SNMX 552-R013	○	○	15,88	7,94	10	0,8	5,16	13	15-19
	1123884	SNMX 150708-R015	SNMX 552-R015	○	○	15,88	7,94	10	0,8	5,16	15	17-22
	1123885	SNMX 150708-R018	SNMX 552-R018	○	○	15,88	7,94	10	0,8	5,16	18	21-26
	1123886	SNMX 150708-R020	SNMX 552-R020	⊗	⊗	15,88	7,94	10	0,8	5,16	20	23-29
	1123887	SNMX 150708-R022	SNMX 552-R022	○	○	15,88	7,94	10	0,8	5,16	22	25-32
	1123888	SNMX 150708-R025	SNMX 552-R025	○	○	15,88	7,94	10	0,8	5,16	25	29-36
	1123889	SNMX 150708-R027	SNMX 552-R027	○	○	15,88	7,94	10	0,8	5,16	27	31-39
	1123890	SNMX 150708-R030	SNMX 552-R030	○	○	15,88	7,94	10	0,8	5,16	30	35-44
	1123891	SNMX 150708-R035	SNMX 552-R035	○	○	15,88	7,94	10	0,8	5,16	35	40-51
	1123892	SNMX 150708-R040	SNMX 552-R040	○	○	15,88	7,94	10	0,8	5,16	40	46-58
	1123893	SNMX 150708-R045	SNMX 552-R045	○	○	15,88	7,94	10	0,8	5,16	45	52-65
	1123894	SNMX 150708-R050	SNMX 552-R050	○	○	15,88	7,94	10	0,8	5,16	50	58-73
	1123895	SNMX 150708-R060	SNMX 552-R060	○	○	15,88	7,94	10	0,8	5,16	60	69-87
SNMX 	1124461	SNMX 150708-R070	SNMX 552-R070	○	○	15,88	7,94	10	0,8	5,16	70	80-95
	1124462	SNMX 150708-R075	SNMX 552-R075	○	○	15,88	7,94	10	0,8	5,16	75	86-102
Medium to Finishing	1123896	SNMX 190912-R000	SNMX 663-R000	○	○	19,05	9,12	12	1,2	6,35	0	-
	1122012	SNMX 190912-R020	SNMX 663-R020	⊗	⊗	19,05	9,12	12	1,2	6,35	20	23-29
	1123897	SNMX 190912-R030	SNMX 663-R030	⊗	⊗	19,05	9,12	12	1,2	6,35	30	35-44
	1123898	SNMX 190912-R040	SNMX 663-R040	⊗	⊗	19,05	9,12	12	1,2	6,35	40	46-58
	1123899	SNMX 190912-R050	SNMX 663-R050	⊗	⊗	19,05	9,12	12	1,2	6,35	50	58-73
	1122013	SNMX 190912-R060	SNMX 663-R060	○	○	19,05	9,12	12	1,2	6,35	60	69-87
	1123900	SNMX 190912-R070	SNMX 663-R070	○	○	19,05	9,12	12	1,2	6,35	70	80-95
	1123901	SNMX 190912-R080	SNMX 663-R080	○	○	19,05	9,12	12	1,2	6,35	80	92-116
	1123902	SNMX 190912-R090	SNMX 663-R090	○	○	19,05	9,12	12	1,2	6,35	90	104-131
	1123903	SNMX 190912-R100	SNMX 663-R100	○	○	19,05	9,12	12	1,2	6,35	100	115-145
	1123864	SNMX 251216-R000	SNMX 884-R000	⊗	⊗	25,40	12,70	17	1,6	9,12	0	-
	1123904	SNMX 251216-R050	SNMX 884-R050	⊗	⊗	25,40	12,70	17	1,6	9,12	50	58-73
	1122015	SNMX 251216-R080	SNMX 884-R080	⊗	⊗	25,40	12,70	17	1,6	9,12	80	92-116
	1123905	SNMX 251216-R090	SNMX 884-R090	⊗	⊗	25,40	12,70	17	1,6	9,12	90	104-131
	1123906	SNMX 251216-R100	SNMX 884-R100	⊗	⊗	25,40	12,70	17	1,6	9,12	100	115-145
	1122016	SNMX 251216-R120	SNMX 884-R120	⊗	⊗	25,40	12,70	17	1,6	9,12	120	138-174
	1123907	SNMX 251216-R150	SNMX 884-R150	⊗	⊗	25,40	12,70	17	1,6	9,12	150	165-215
	1123908	SNMX 251216-R200	SNMX 884-R200	⊗	⊗	25,40	12,70	17	1,6	9,12	200	230-290
	1123909	SNMX 251216-R250	SNMX 884-R250	⊗	⊗	25,40	12,70	17	1,6	9,12	250	275-315

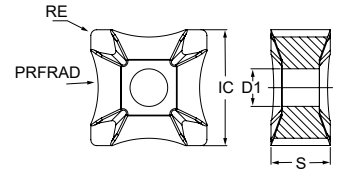
⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: (1) Geometry code + (2) Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
				L7	L8							
		(2) Grade code										
Inserts Pastilhas Plaquitas	(1) Geometry code	ISO Reference	ANSI Reference	PH5L15	PH5L25	IC	S	A	Re	D1	PRFRAD	
	1123951	SNMG 15M808-R000	SNMG 55.12-R000	○	○	15,88	8,15	10	0,8	5,16	0	-
	1123952	SNMG 15M808-R007	SNMG 55.12-R007	○	○	15,88	8,15	10	0,8	5,16	7	08-10
	1123953	SNMG 15M808-R009	SNMG 55.12-R009	○	○	15,88	8,15	10	0,8	5,16	9	10-13
	1123954	SNMG 15M808-R011	SNMG 55.12-R011	⊗	○	15,88	8,15	10	0,8	5,16	11	13-16
	1123955	SNMG 15M808-R013	SNMG 55.12-R013	⊗	○	15,88	8,15	10	0,8	5,16	13	15-19
	1123956	SNMG 15M808-R015	SNMG 55.12-R015	⊗	○	15,88	8,15	10	0,8	5,16	15	17-22
	1123957	SNMG 15M808-R018	SNMG 55.12-R018	⊗	○	15,88	8,15	10	0,8	5,16	18	21-26
	1123958	SNMG 15M808-R020	SNMG 55.12-R020	⊗	○	15,88	8,15	10	0,8	5,16	20	23-29
	1123959	SNMG 15M808-R022	SNMG 55.12-R022	○	○	15,88	8,15	10	0,8	5,16	22	25-32
	1123960	SNMG 15M808-R025	SNMG 55.12-R025	⊗	○	15,88	8,15	10	0,8	5,16	25	29-36
	1123961	SNMG 15M808-R027	SNMG 55.12-R027	⊗	○	15,88	8,15	10	0,8	5,16	27	31-39
	1123962	SNMG 15M808-R030	SNMG 55.12-R030	⊗	○	15,88	8,15	10	0,8	5,16	30	35-44
	1123963	SNMG 15M808-R035	SNMG 55.12-R035	⊗	○	15,88	8,15	10	0,8	5,16	35	40-51
	1123964	SNMG 15M808-R040	SNMG 55.12-R040	⊗	○	15,88	8,15	10	0,8	5,16	40	46-58
	1123965	SNMG 15M808-R045	SNMG 55.12-R045	⊗	○	15,88	8,15	10	0,8	5,16	45	52-65
	1123966	SNMG 15M808-R050	SNMG 55.12-R050	○	○	15,88	8,15	10	0,8	5,16	50	58-73
	1123967	SNMG 15M808-R060	SNMG 55.12-R060	⊗	○	15,88	8,15	10	0,8	5,16	60	69-87
	1123968	SNMG 19M808-R000	SNMG 65.13-R000	○	○	19,05	8,15	12	0,8	8,00	20	-
	1123969	SNMG 19M808-R010	SNMG 65.13-R010	○	○	19,05	8,15	12	0,8	8,00	10	12-15
	1123970	SNMG 19M808-R020	SNMG 65.13-R020	⊗	○	19,05	8,15	12	0,8	8,00	20	23-29
	1123971	SNMG 19M808-R030	SNMG 65.13-R030	⊗	○	19,05	8,15	12	0,8	8,00	30	35-44
	1123972	SNMG 19M808-R040	SNMG 65.13-R040	○	○	19,05	8,15	12	0,8	8,00	40	46-58
	1123973	SNMG 19M808-R050	SNMG 65.13-R050	○	○	19,05	8,15	12	0,8	8,00	50	58-73
	1123974	SNMG 19M808-R060	SNMG 65.13-R060	○	○	19,05	8,15	12	0,8	8,00	60	69-87
	1123975	SNMG 19M808-R070	SNMG 65.13-R070	○	○	19,05	8,15	12	0,8	8,00	70	80-95
	1123976	SNMG 19M808-R080	SNMG 65.13-R080	○	○	19,05	8,15	12	0,8	8,00	80	92-116
	1123977	SNMG 19M808-R090	SNMG 65.13-R090	○	○	19,05	8,15	12	0,8	8,00	90	104-131
	1123978	SNMG 19M808-R100	SNMG 65.13-R100	○	○	19,05	8,15	12	0,8	8,00	100	115-145



SNMG

Finishing

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

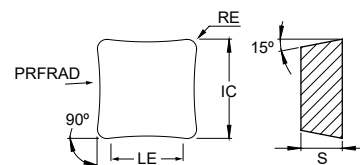
⊗ Stock Items | Itens de stock


⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

SCARFING - SDM_X

POSITIVE INSERTS | PASTILHAS POSITIVAS | PLAQUITAS POSITIVAS

RELIEF ANGLE 15°



Inserts Pastilhas Plaquetas	(1) Geometry code	(2) Grade code		P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD	IC	S	LE	RE	D1	PRFRAD	
				L8	9B							
		ISO Reference	ANSI Reference	PH5125	PHY125							
 Medium to Finishing	1124752	SDMX 250616-R000	SDMX 250616-R000	○	○	25,40	6,35	20	1,60	-	0	-
	1124822	SDMX 250616-R080	SDMX 250616-R080	○	⊗	25,40	6,35	20	1,60	-	80	92-116
	1124753	SDMX 250616-R180	SDMX 250616-R180	○	○	25,40	6,35	20	1,60	-	180	210-270
	1124754	SDMX 250616-R300	SDMX 250616-R300	○	⊗	25,40	6,35	20	1,60	-	300	340-410
	1124755	SDMX 250616-R400	SDMX 250616-R400	○	○	25,40	6,35	20	1,60	-	400	440-520
	1124756	SDMX 250616-R550	SDMX 250616-R550	○	○	25,40	6,35	20	1,60	-	550	600-700
	1124757	SDMX 350900-R000	SDMX 350900-R000	○	○	35,00	9,60	30	-	-	0	-
	1124758	SDMX 350900-R105	SDMX 350900-R105	○	○	35,00	9,60	30	-	-	105	115-145
	1124759	SDMX 350900-R145	SDMX 350900-R145	○	○	35,00	9,60	30	-	-	145	160-210
	1124760	SDMX 350900-R300	SDMX 350900-R300	○	○	35,00	9,60	30	-	-	300	340-410
	1124761	SDMX 350900-R400	SDMX 350900-R400	○	○	35,00	9,60	30	-	-	400	440-520
	1124762	SDMX 350900-R550	SDMX 350900-R550	○	○	35,00	9,60	30	-	-	550	600-700

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

TOOLHOLDERS

EXTERNAL



These external turning toolholders offer various fixing styles to meet the diverse needs of the industry. Thanks to their robustness and versatility, they ensure reliability and high productivity. They enable precise finishes and tight tolerances, directly contributing to manufacturing efficiency.

Estes suportes de torneamento externo oferecem estilos de fixação variados para as mais diversas necessidades da indústria. Graças à sua robustez e versatilidade, garantem fiabilidade e elevada produtividade. Permitem acabamentos precisos e tolerâncias apertadas, contribuindo diretamente para a eficiência dos processos de fabrico.

Estos porta herramienta de torneado externo ofrecen una variedad de estilos de fijación para satisfacer las diversas necesidades de la industria. Gracias a su robustez y versatilidad, garantizan confiabilidad y alta productividad. Permiten acabados precisos y tolerancias ajustadas, contribuyendo directamente a la eficiencia de los procesos de fabricación.

Top Clamp Toolholders (C) > page 652

- > Highly rigid top clamp with shim

Grampo altamente rígido com calço | Brida altamente rígida con calzo



Dimple Lock Toolholders (D) > page 667

- > Stable and rigid top clamp for negative inserts with a through hole

Grampo estável e rígido para pastilhas negativas com furo passante | Brida estable y rígida para plaquitas negativos con agujero pasante

- > With or without directional coolant

Com ou sem refrigeração direcional | Con o sin refrigeración direccional



Wedge Clamp (M) &

Double Lock (M-K) Toolholders > page 679

- > Double security clamping with eccentric pin, common for negative inserts

Dupla fixação de segurança com pino excêntrico, comum para pastilhas negativas | Doble sujeción de seguridad con pasador excéntrico, común para plaquitas negativas



Lever Lock Toolholders (P) > page 694

- > Locking design for negative inserts, avoiding chip interference

Design de bloqueio para pastilhas negativas, evitando interferência de aparas | Diseño de bloqueo para plaquitas negativas, evitando interferencia de virutas



Center Screw Toolholders (S) > page 717

- > Solution for ensuring easy insert exchange without interference

Solução ideal para garantir a troca fácil da pastilha sem interferência | Solución para garantizar un intercambio fácil de la plaquita sin interferencias

- > With or without directional coolant

Com ou sem refrigeração direcional | Con o sin refrigeración direccional



PSC System (PSC) > page 743

- > Fast, easy tool changing

Troca rápida de ferramenta | Cambio rápido de herramienta





Enhance productivity
with external toolholders

CODE KEY FOR EXTERNAL TURNING TOOLHOLDERS

Sistema de codificação para suportes de torneamento externo (ISO) | Codificación de herramientas de torneado exterior (ISO)

PSC40	P	C	L	N	R	25	25	M	12	-	A
1	2	3	4	5	6	7	8	9	10	-	11

1 - Modular System and Size (Only for PSC system)
PSC - Polygonal Shank Coupling | **Size:** 32 - 40 - 50 - 63

2 - Inserts Clamping System

C	D	M	P	S

3 - Insert Shape

C	D	E	K
R	S	T	V
W			

5 - Inserts Clearance Angle

B	C	N	P

6 - Tool Hand

L	N	R

4 - Toolholder Leading Angle

A	B	C
D	E	F
G	H	J
K	L	M
N	Q	R
S	T	V
X	Z	

7 - Height of Shank (mm)

8 - Width of Shank (mm)

9 - Length of Holder (mm)

	D	60	P	170
	E	70	R	200
	F	80	S	250
	G	90	T	300
	H	100	U	350
	K	125	V	400
	L	140	X	Special
	M	150		

10 - Length of Inserts Cutting Edge (mm)

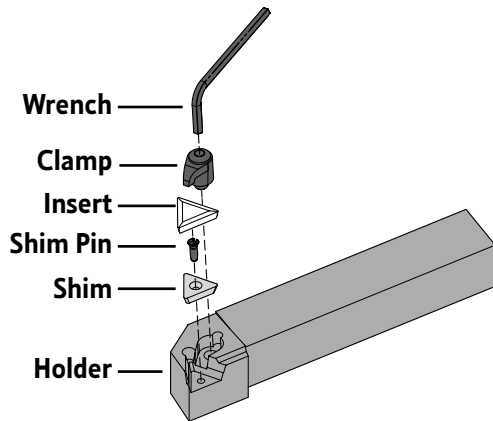
11 - Bar Type (Suppressed when without internal coolant)

A	Steel shank with internal coolant	
----------	-----------------------------------	--

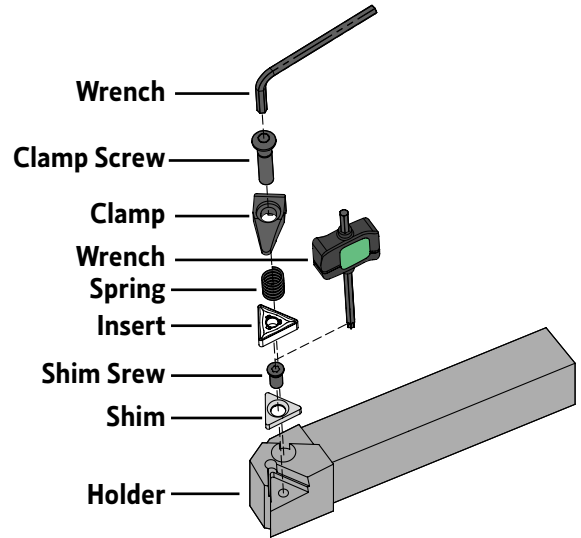
CLAMPING SYSTEMS FOR EXTERNAL TOOLHOLDERS

Sistemas de fixação para ferramentas de torneamento externo | Sistemas de fijación para herramientas de torneado exterior

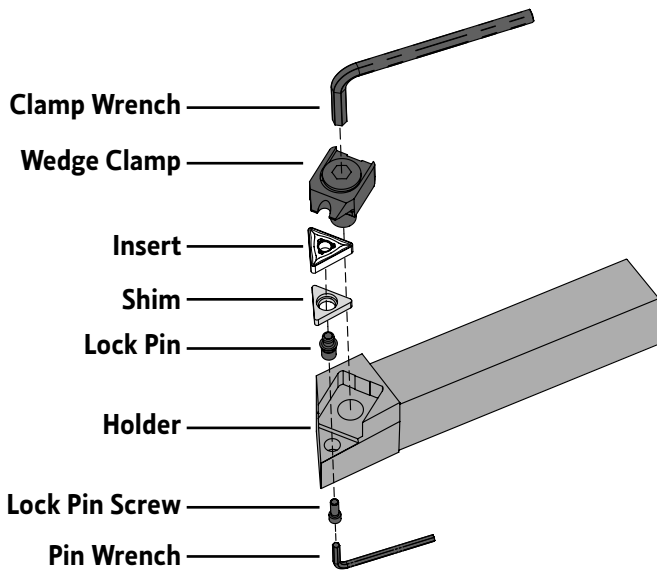
(C) TOP CLAMP SYSTEM



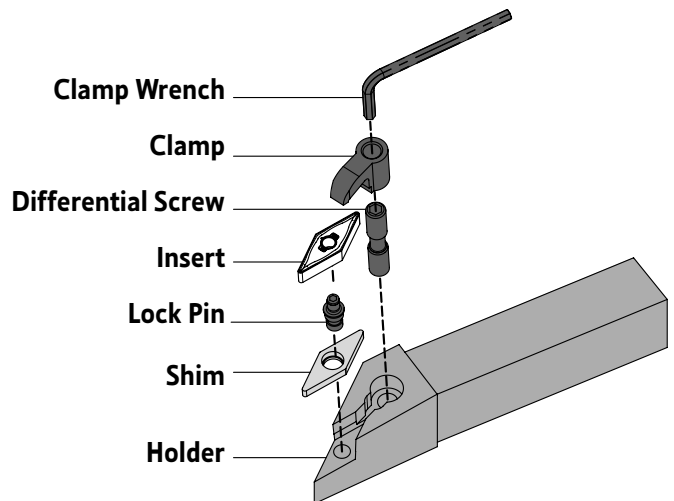
(D) DIMPLE LOCK SYSTEM



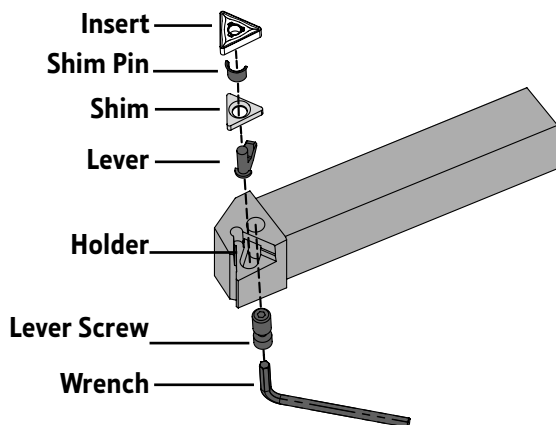
(M) WEDGE CLAMP SYSTEM



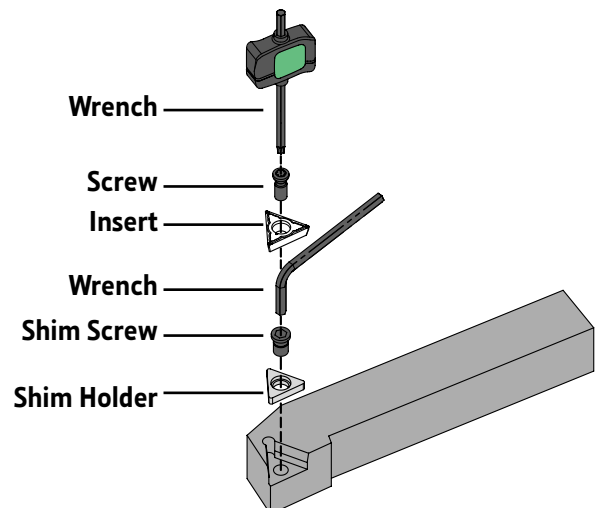
(M-K) DOUBLE LOCK SYSTEM



(P) LEVER LOCK SYSTEM

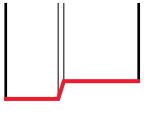
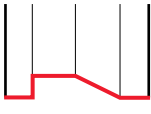
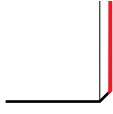
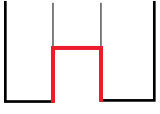


(S) CENTER SCREW SYSTEM



SUITABLE CLAMPING SYSTEM DEFINITION

Definição do sistema de fixação | Definición del sistema de Fijación

Operation		Longitudinal turning	Profiling	Facing	Plunging
					
Negative inserts	(C) TOP CLAMP SYSTEM	●	●	●	●
	(D) DIMPLE LOCK SYSTEM	● ●	● ●	● ●	
	(M) WEDGE CLAMP SYSTEM - (M-K) DOUBLE LOCK SYSTEM	●	●	●	
	(P) LEVER LOCK SYSTEM	●	●	●	
Positive inserts	(C) TOP CLAMP SYSTEM	●	●	●	●
	(P) LEVER LOCK SYSTEM		●		
	(S) CENTER SCREW SYSTEM	● ●	● ●	● ●	

● ● Recommended Insert Shape ● Alternative Insert Shape

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

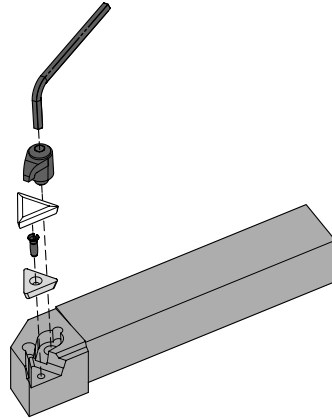
External Toolholders

Internal Toolholders

Automatic Lathes

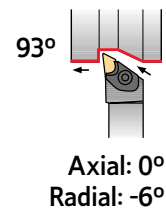
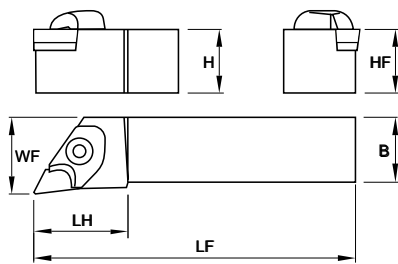
Spare Parts

Technical Data



<p>CKJN 93°</p> <p>PAGE C - 653 KNUX 1604...</p>	<p>CKNN 63°</p> <p>PAGE C - 654 KNUX 1604...</p>	<p>CSBP 75°</p> <p>PAGE C - 655 SP. 0903.. SP. 1203.. SP. 1904..</p>	<p>CSDP 45°</p> <p>PAGE C - 656 SP. 0903.. SP. 1203..</p>	<p>CSKP 75°</p> <p>PAGE C - 657 SP. 0903.. SP. 1203.. SP. 1904..</p>	<p>CSSP 45°</p> <p>PAGE C - 658 SP. 0903.. SP. 1203.. SP. 1904..</p>
<p>CSTP 60°</p> <p>PAGE C - 659 SP.0903.. SP.1203..</p>	<p>CTBP 75°</p> <p>PAGE C - 660 TP. 1103.. TP. 1603.. TP. 2204..</p>	<p>CTCP N 90°</p> <p>PAGE C - 661 TP. 1103.. TP. 1603.. TP. 2204..</p>	<p>CTCP 90°</p> <p>PAGE C - 662 TP. 1103.. TP. 1603.. TP. 2204..</p>	<p>CTDP 45°</p> <p>PAGE C - 663 TP. 1103.. TP. 1603.. TP. 2204..</p>	<p>CTFP 90°</p> <p>PAGE C - 664 TP. 1103.. TP. 1603.. TP. 2204..</p>
<p>CTGP 90°</p> <p>PAGE C - 665 TP. 1103.. TP. 1603.. TP. 2204..</p>	<p>CTTP 60°</p> <p>PAGE C - 666 TP. 0902.. TP. 1103.. TP. 2204..</p>				

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212034800	212034900	CKJN R/L 2020 K16	20	20	125	34	30	KNUX 1604..	0,390	⊗	⊗
212026300	212035000	CKJN R/L 2525 M16	25	25	150	34	32	KNUX 1604..	0,700	⊗	⊗
212010300	212260400	CKJN R/L 3225 P16	32	25	170	34	32	KNUX 1604..	1,000	⊗	⊗
212260500	212260600	CKJN R/L 3232 P16	32	32	170	34	40	KNUX 1604..	1,250	⊗	⊗
212260700	212260800	CKJN R/L 4025 R16	40	25	200	34	32	KNUX 1604..	1,500	⊗	⊗

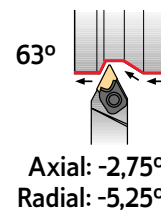
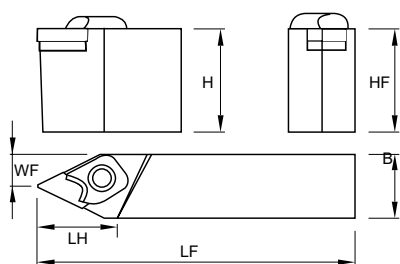
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						
	Shim	Shim Pin	Shim Pin Punch	Spring	Clamp	Screw	Wrench
CKJN R 2020 K16	CK160500	BE03000	BF04813	M09513	GAW1400	DW142600	SS40
CKJN R 2525 M16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKJN R 3225 P16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKJN R 3232 P16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKJN R 4025 R16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKJN L 2020 K16	CK160501	BE03000	BF04813	M09513	GAW1401	DW142600	SS40
CKJN L 2525 M16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
CKJN L 3225 P16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
CKJN L 3232 P16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
CKJN L 4025 R16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212260900	212261000	CKNN R/L 4025 R16	40	25	200	37	14,3	KNUX 1604..	1,500		
212261100	212261200	CKNN R/L 5032 S16	50	32	250	37	16,8	KNUX 1604..	3,000		

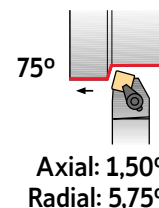
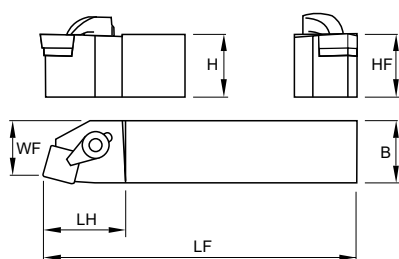
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						
	Shim	Shim Pin	Shim Pin Punch	Spring	Clamp	Screw	Wrench
CKNN R 4025 R16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKNN R 5032 S16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
CKNN L 4025 R16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
CKNN L 5032 S16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212042000	212261300	CSBP R/L 1212 F09	12	12	80	22	11	SP.0903..	0,070		
212261400	212261500	CSBP R/L 1616 H09	16	16	100	22	13	SP.0903..	0,200		
212261600	212261700	CSBP R/L 2020 K09	20	20	125	22	17	SP.0903..	0,400		
212261800	212033900	CSBP R/L 2020 K12	20	20	125	34	17	SP..1203..	0,400		
212034000	212034100	CSBP R/L 2525 M12	25	25	150	34	22	SP..1203..	0,700		
212261900	212262000	CSBP R/L 3225 P12	32	25	170	34	22	SP..1203..	1,000		
212262100	212262200	CSBP R/L 3232 P19	32	32	170	40	27	SP.1904..	1,250		
212262300	212262400	CSBP R/L 4040 S19	40	40	250	40	35	SP.1904..	3,000		
212262500	212262600	CSBP R/L 5050 T19	50	50	300	40	43	SP.1904..	5,650		

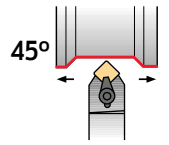
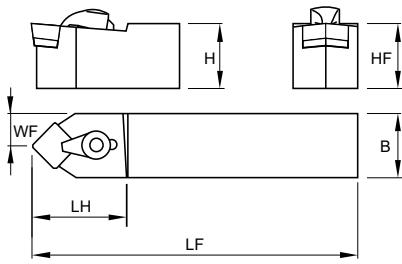
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CSBP R/L 1212 F09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSBP R/L 1616 H09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSBP R/L 2020 K09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSBP R/L 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSBP R/L 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSBP R/L 3225 P12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSBP R/L 3232 P19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901
CSBP R/L 4040 S19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901
CSBP R/L 5050 T19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901

(C) TOP CLAMP TOOLHOLDERS



Axial: 4,25°
Radial: 4,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212262700	212262800	CSDP R/L 1010 E09	10	10	70	22	5,6	SP.. 0903..	0,030		
212262900	212263000	CSDP R/L 1212 F09	12	12	80	22	7,6	SP.. 0903..	0,070		
212263100	212263200	CSDP R/L 1616 H09	16	16	100	22	11,6	SP.. 0903..	0,200		
212263300	212263400	CSDP R/L 2020 K12	20	20	125	28	14,0	SP.. 1203..	0,400		
212263500	212263600	CSDP R/L 2525 M12	25	25	150	28	19,0	SP.. 1203..	0,700		
212263700		CSDP N 1010 E09	10	10	70	22	5,0	SP.. 0903..	0,030		
212263800		CSDP N 1212 F09	12	12	80	22	6,0	SP.. 0903..	0,070		
212263900		CSDP N 1616 H09	16	16	100	22	8,0	SP.. 0903..	0,200		
212018400		CSDP N 2020 K12	20	20	125	28	10,0	SP.. 1203..	0,400		
212264000		CSDP N 2525 M12	25	25	150	28	12,5	SP.. 1203..	0,700		

Stock item | Produto de stock | Itens de stock

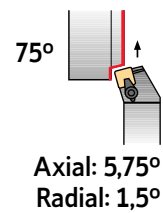
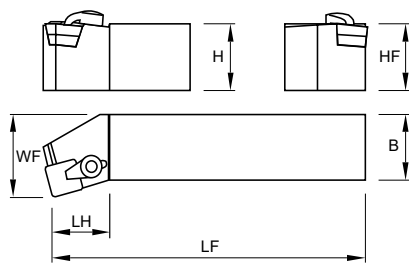
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CSDP R/L 1010 E09	-	-	GS05000	SS25	-	QCS0901	QCS0902
CSDP R/L 1212 F09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0901	QCS0902
CSDP R/L 1616 H09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0901	QCS0902
CSDP R/L 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSDP R/L 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSDP N 1010 E09	-	-	GS05000	SS25	-	QCS0901	QCS0902
CSDP N 1212 F09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0901	QCS0902
CSDP N 1616 H09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0901	QCS0902
CSDP N 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSDP N 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212042100	212264100	CSKP R/L 1212 F09	12	12	80	18	16	SP..0903..	0,070	⊗	⊗
212264200	212264300	CSKP R/L 1616 H09	16	16	100	22	20	SP..0903..	0,200	⊗	⊗
212264400	212264500	CSKP R/L 2020 K09	20	20	125	22	25	SP..0903..	0,400	⊗	⊗
212034200	212034300	CSKP R/L 2020 K12	20	20	125	28	25	SP..1203..	0,400	⊗	⊗
212036000	212034400	CSKP R/L 2525 M12	25	25	150	28	32	SP..1203..	0,700	⊗	⊗
212264600	212264700	CSKP R/L 3225 P12	32	25	170	28	32	SP..1203..	1,000	⊗	⊗
212264800	212264900	CSKP R/L 3232 P19	32	32	170	42	40	SP..1904..	1,250	⊗	⊗
212265000	212265100	CSKP R/L 4040 S19	40	40	250	42	50	SP..1904..	3,000	⊗	⊗
212265200	212265300	CSKP R/L 5050 T19	50	50	300	42	60	SP..1904..	5,650	⊗	⊗

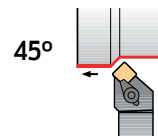
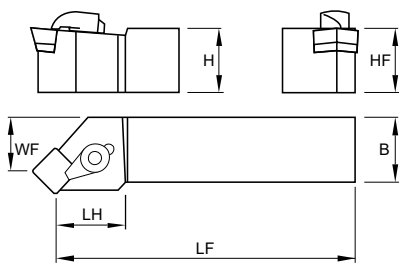
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CSKP R/L 1212 F09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSKP R/L 1616 H09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSKP R/L 2020 K09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSKP R/L 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSKP R/L 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSKP R/L 3225 P12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSKP R/L 3232 P19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901
CSKP R/L 4040 S19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901
CSKP R/L 5050 T19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901

(C) TOP CLAMP TOOLHOLDERS



Axial: 4,25°
Radial: 4,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212019000	212018800	CSSP R/L 1212 F09	12	12	80	22	16	SP.. 0903..	0,070		
212265400	212265500	CSSP R/L 1616 H09	16	16	100	22	20	SP.. 0903..	0,200		
212034500	212034600	CSSP R/L 2020 K12	20	20	125	22	25	SP.. 1203..	0,400		
212036100	212034700	CSSP R/L 2525 M12	25	25	150	28	32	SP.. 1203..	0,700		
212265600	212265700	CSSP R/L 3225 P12	32	25	170	28	32	SP.. 1203..	1,000		
212265800	212265900	CSSP R/L 3232 P19	32	32	170	42	40	SP.. 1904..	1,250		
212266000	212266100	CSSP R/L 4040 S19	40	40	250	42	50	SP.. 1904..	3,000		

Stock item | Produto de stock | Itens de stock

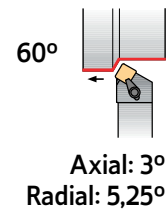
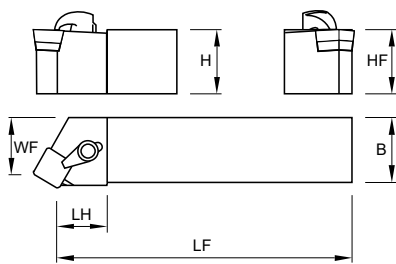
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
	CSSP R/L 1212 F09						
CSSP R/L 1616 H09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0901	QCS0902
CSSP R/L 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSSP R/L 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSSP R/L 3225 P12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1202	QCS1203
CSSP R/L 3232 P19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1902	QCS1903
CSSP R/L 4040 S19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1902	QCS1903

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212266200	212266300	CSTP R/L 1616 H09	16	16	100	22	13	SP.0903..	0,200		
212266400	212266500	CSTP R/L 2020 K09	20	20	125	22	17	SP.0903..	0,350		
212266600	212266700	CSTP R/L 2020 K12	20	20	125	28	17	SP.1203..	0,400		
212266800	212266900	CSTP R/L 2525 M12	25	25	150	28	22	SP.1203..	0,700		

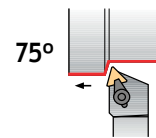
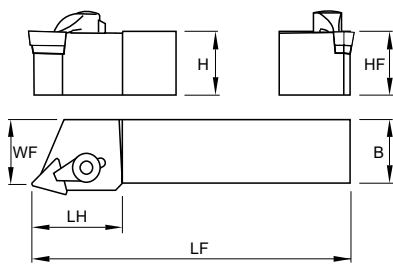
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CSTP R/L 1616 H09							
CSTP R/L 2020 K09	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSTP R/L 2020 K12	CS090300	BE02100	GS05001	SS25	GS05004	QCS0900	-
CSTP R/L 2020 K12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201
CSTP R/L 2525 M12	CS120300	BE02100	GS06000	SS30	GS05005	QCS1200	QCS1201

(C) TOP CLAMP TOOLHOLDERS



Axial: 1,5°
Radial: 5,75°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212267000	212267100	CTBP R/L 1212 F11	12	12	80	18	11	TP.. 1103..	0,070		
212267200	212267300	CTBP R/L 1616 H11	16	16	100	22	13	TP.. 1103..	0,200		
212267400	212267500	CTBP R/L 2020 K16	20	20	125	28	17	TP.. 1603..	0,400		
212267600	212267700	CTBP R/L 2525 M16	25	25	150	28	22	TP.. 1603..	0,700		

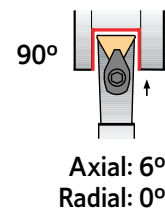
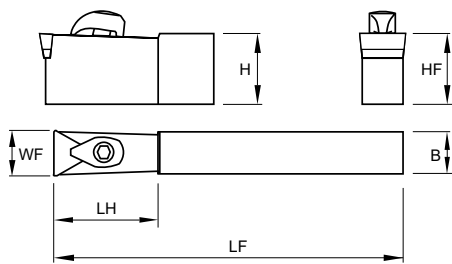
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CTBP R/L 1212 F11	-	-	GS05001	SS25	GS05004	QCT1100	-
CTBP R/L 1616 H11	-	-	GS05001	SS25	GS05004	QCT1100	-
CTBP R/L 2020 K16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTBP R/L 2525 M16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601

(C) TOP CLAMP TOOLHOLDERS



TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212267800	CTCP N 1009 E11	10	9	70	22	11	TP.. 1103..	0,040	
212267900	CTCP N 2009 K11	20	9	125	22	11	TP.. 1103..	0,150	
212268000	CTCP N 2509 R11	25	9	200	22	11	TP.. 1103..	0,350	
212268100	CTCP N 2513 R16	25	13	200	28	16	TP.. 1603..	0,500	
212268200	CTCP N 2518 R22	25	18	200	34	22	TP.. 2204..	0,650	
212268300	CTCP N 4018 R22	40	18	200	34	22	TP.. 2204..	1,100	

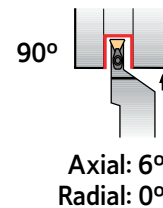
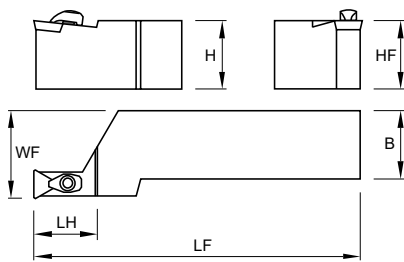
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts					
	Shim	Shim Pin	Clamp	Wrench	Chip Breaker 1	Chip Breaker 2
CTCP N 1009 E11						
CTCP N 2009 K11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP N 2509 R11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP N 2513 R16	CT160301	BE02100	GS05002	SS30	QCT1600	QCT1601
CTCP N 2518 R22	CT220301	BE03000	GS08000	SS40	QCT2200	QCT2201
CTCP N 4018 R22	CT220301	BE03000	GS08000	SS40	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212268400	212268500	CTCP R/L 1212 F11	12	12	80	22	16	TP.. 1103..	0,070		
212268600	212268700	CTCP R/L 1616 H11	16	16	100	22	20	TP.. 1103..	0,200		
212268800	212268900	CTCP R/L 2020 K11	20	20	125	22	25	TP.. 1103..	0,400		
212269000	212269100	CTCP R/L 2525 M11	25	25	150	22	32	TP.. 1103..	0,700		
212269200	212269300	CTCP R/L 3225 P16	32	25	170	28	32	TP.. 1603..	1,000		
212269400	212269500	CTCP R/L 3232 P16	32	32	170	28	40	TP.. 1603..	1,250		
212269600	212269700	CTCP R/L 3225 P22	32	25	170	34	32	TP.. 2204..	1,000		
212269800	212269900	CTCP R/L 3232 P22	32	32	170	34	40	TP.. 2204..	1,250		

Stock item | Produto de stock | Itens de stock

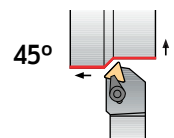
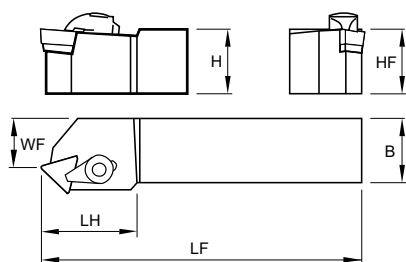
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Chip Breaker 1	Chip Breaker 2
CTCP R/L 1212 F11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP R/L 1616 H11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP R/L 2020 K11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP R/L 2525 M11	-	-	GS04000	SS25	QCT1100	QCT1101
CTCP R/L 3225 P16	CT160301	BE02100	GS05002	SS30	QCT1600	QCT1601
CTCP R/L 3232 P16	CT160301	BE02100	GS05002	SS30	QCT1600	QCT1601
CTCP R/L 3225 P22	CT220301	BE03000	GS08000	SS40	QCT2200	QCT2201
CTCP R/L 3232 P22	CT220301	BE03000	GS08000	SS40	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Axial: 4,25°
Radial: 4,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212270000	212270100	CTDP R/L 1212 F11	12	12	80	20	6,3	TP.. 1103..	0,070		
212019400	212270200	CTDP R/L 1616 H11	16	16	100	22	10,3	TP.. 1103..	0,200		
212270300	212270400	CTDP R/L 2020 K16	20	20	125	28	12,2	TP.. 1603..	0,400		
212270500	212019300	CTDP R/L 2525 M16	25	25	150	28	17,2	TP.. 1603..	0,700		
212270600	212270700	CTDP R/L 3232 P16	32	32	170	28	23,5	TP.. 1603..	1,250		
212270800	212270900	CTDP R/L 3232 P22	32	32	170	34	20,5	TP.. 2204..	1,250		

Stock item | Produto de stock | Itens de stock

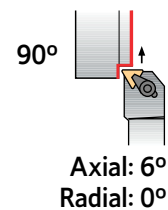
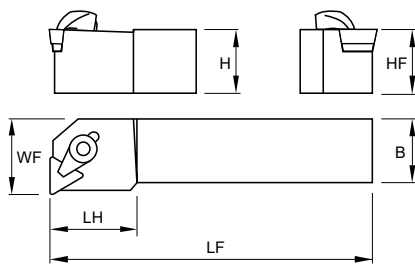
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CTDP R/L 1212 F11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTDP R/L 1616 H11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTDP R/L 2020 K16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTDP R/L 2525 M16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTDP R/L 3232 P16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTDP R/L 3232 P22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212271000	212271100	CTFP R/L 1010 E11	10	10	70	16	12	TP.. 1103..	0,030	⊗	⊗
212019800	212271200	CTFP R/L 1212 F11	12	12	80	18	16	TP.. 1103..	0,070	⊗	⊗
212019900	212271300	CTFP R/L 1616 H11	16	16	100	22	20	TP.. 1103..	0,200	⊗	⊗
212033600	212019500	CTFP R/L 2020 K11	20	20	125	22	25	TP.. 1103..	0,400	⊗	⊗
212033700	212024000	CTFP R/L 2020 K16	20	20	125	22	25	TP.. 1603..	0,400	⊗	⊗
212035900	212033800	CTFP R/L 2525 M16	25	25	150	22	32	TP.. 1603..	0,700	⊗	⊗
212271400	212271500	CTFP R/L 3225 P16	32	25	170	22	32	TP.. 1603..	1,000	⊗	⊗
212271600	212271700	CTFP R/L 3232 P16	32	32	170	28	40	TP.. 1603..	1,250	⊗	⊗
212271800	212271900	CTFP R/L 4040 S16	40	40	250	34	50	TP.. 1603..	3,000	⊗	⊗
212272000	212272100	CTFP R/L 5050 T16	50	50	300	34	60	TP.. 1603..	5,650	⊗	⊗
212272200	212272300	CTFP R/L 3232 P22	32	32	170	34	40	TP.. 2204..	1,250	⊗	⊗
212272400	212272500	CTFP R/L 4040 S22	40	40	250	34	50	TP.. 2204..	3,000	⊗	⊗
212272600	212272700	CTFP R/L 5050 T22	50	50	300	34	60	TP.. 2204..	5,650	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

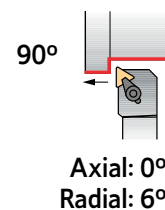
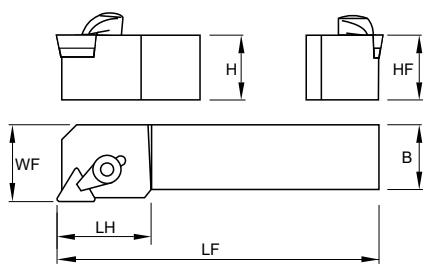
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CTFP R/L 1010 E11	-	-	GS03000	SS15	-	-	-
CTFP R/L 1212 F11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTFP R/L 1616 H11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTFP R/L 2020 K11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTFP R/L 2020 K16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 2525 M16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 3225 P16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 3232 P16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 4040 S16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 5050 T16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTFP R/L 3232 P22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
CTFP R/L 4040 S22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
CTFP R/L 5050 T22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212272800	212272900	CTGP R/L 1010 E11	10	10	70	16	12	TP.. 1103..	0,030		
212273000	212020200	CTGP R/L 1212 F11	12	12	80	18	16	TP.. 1103..	0,070		
212273100	212273200	CTGP R/L 1616 H11	16	16	100	22	20	TP.. 1103..	0,200		
212033100	212033200	CTGP R/L 2020 K11	20	20	125	22	25	TP.. 1103..	0,400		
212033300	212033400	CTGP R/L 2020 K16	20	20	125	28	25	TP.. 1603..	0,400		
212035800	212033500	CTGP R/L 2525 M16	25	25	150	28	32	TP.. 1603..	0,700		
212273300	212273400	CTGP R/L 3225 P16	32	25	170	28	32	TP.. 1603..	1,000		
212273500	212273600	CTGP R/L 3232 P22	32	32	170	34	40	TP.. 2204..	1,250		
212273700	212273800	CTGP R/L 4040 S22	40	40	250	34	50	TP.. 2204..	3,000		
212273900	212274000	CTGP R/L 5050 T22	50	50	300	34	60	TP.. 2204..	5,650		

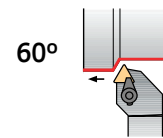
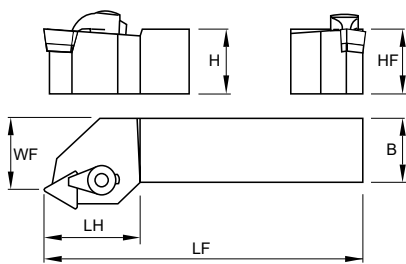
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CTGP R/L 1010 E11	-	-	GS03000	SS15	-	-	-
CTGP R/L 1212 F11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTGP R/L 1616 H11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTGP R/L 2020 K11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTGP R/L 2020 K16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTGP R/L 2525 M16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTGP R/L 3225 P16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTGP R/L 3232 P22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
CTGP R/L 4040 S22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
CTGP R/L 5050 T22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Axial: 3°
Radial: 5,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212249500	212274100	CTTP R/L 0808 D09	8	8	60	16	7	TP.. 0902..	0,020		
212274200	212274300	CTTP R/L 1010 E09	10	10	70	16	9	TP.. 0902..	0,030		
212274400	212274500	CTTP R/L 1010 E11	10	10	70	16	9	TP.. 1103..	0,030		
212274600	212274700	CTTP R/L 1212 F11	12	12	80	18	11	TP.. 1103..	0,070		
212274800	212274900	CTTP R/L 1616 H11	16	16	100	22	13	TP.. 1103..	0,200		
212275000	212275100	CTTP R/L 2020 K11	20	20	125	22	17	TP.. 1103..	0,400		
212275200	212275300	CTTP R/L 2020 K16	20	20	125	28	17	TP.. 1603..	0,400		
212247400	212275400	CTTP R/L 2525 M16	25	25	150	28	22	TP.. 1603..	0,700		

Stock item | Produto de stock | Itens de stock

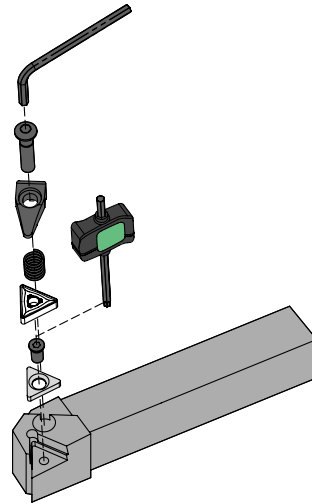
Available under request | Disponível sobre consulta | Disponible bajo consulta

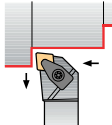
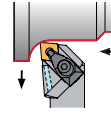
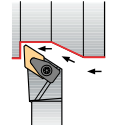
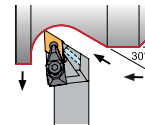
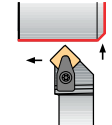
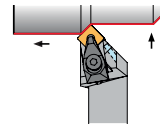
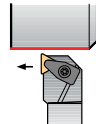
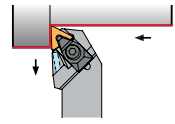
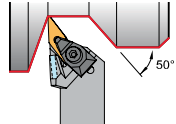
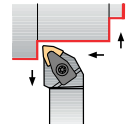
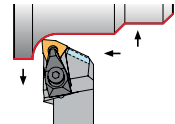
SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

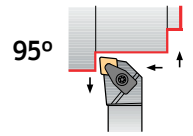
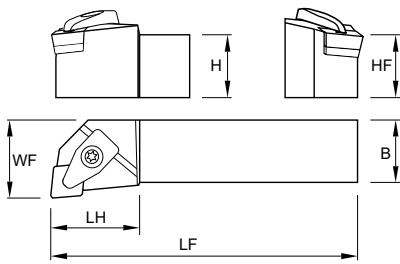
Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
CTTP R/L 0808 D09	-	-	GS03000	SS15	-	-	-
CTTP R/L 1010 E09	-	-	GS03000	SS15	-	-	-
CTTP R/L 1010 E11	-	-	GS03000	SS15	GS05004	QCT1100	QCT1101
CTTP R/L 1212 F11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTTP R/L 1616 H11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTTP R/L 2020 K11	-	-	GS05001	SS25	GS05004	QCT1100	QCT1101
CTTP R/L 2020 K16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
CTTP R/L 2525 M16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601

(D) DIMPLE LOCK SYSTEM



<p>DCLN 95°</p>  <p>PAGE C - 668 CN.. 1204.. CN.. 1906..</p>	<p>NEW DCLN 95°-A</p>  <p>PAGE C - 669 CN.. 1204.. CN.. 1606..</p>	<p>DDJN 93°</p>  <p>PAGE C - 670 DN.. 1104.. DN.. 1506..</p>	<p>NEW DDJN 93°-A</p>  <p>PAGE C - 671 DN.. 1104.. DN.. 1506..</p>	<p>DSSN 45°</p>  <p>PAGE C - 672 SN.. 1204.. SN.. 1906..</p>	<p>NEW DSSN 45°-A</p>  <p>PAGE C - 673 SN.. 1204.. SN.. 1906..</p>
<p>DTGN 90°</p>  <p>PAGE C - 674 TN.. 1604.. TN.. 2204..</p>	<p>NEW DTJN 90°-A</p>  <p>PAGE C - 675 TN.. 1604.. TN.. 2204..</p>	<p>NEW DVJN 93°-A</p>  <p>PAGE C - 676 VN.. 1604..</p>	<p>DWLN 95°</p>  <p>PAGE C - 677 WN.. 0604.. WN.. 0804..</p>	<p>NEW DWLN 95°-A</p>  <p>PAGE C - 678 WN.. 0604.. WN.. 0804..</p>	

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6,5°
Radial: -6,5°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212275500	212275600	DCLN R/L 2020 K12	20	20	125	28	25	CN.. 1204..	0,400		
212219600	212246600	DCLN R/L 2525 M12	25	25	150	28	32	CN.. 1204..	0,750		
212275700	212249200	DCLN R/L 3232 P12	32	32	170	28	40	CN.. 1204..	1,300		
212275800	212275900	DCLN R/L 3232 P19	32	32	170	42	40	CN.. 1906..	1,300		
212276000	212276100	DCLN R/L 4040 S19	40	40	250	45	50	CN.. 1906..	3,050		

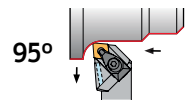
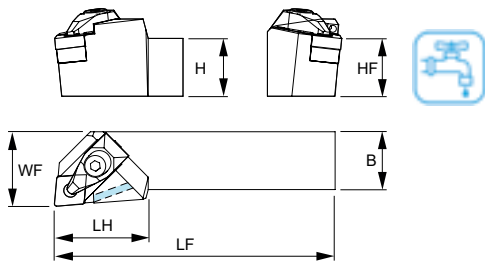
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
DCLN R/L 2020 K12	CC120600	T06010000	M09513	GA07002	D0602900	SS40
DCLN R/L 2525 M12	CC120600	T06010000	M09513	GA07002	D0602900	SS40
DCLN R/L 3232 P12	CC120600	T06010000	M09513	GA07002	D0602900	SS40
DCLN R/L 3232 P19	CC190502	T06015000	M09513	GA07003	D0602900	SS40
DCLN R/L 4040 S19	CC190502	T06015000	M09513	GA07003	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6,5°
Radial: -6,5°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212428600	212428700	DCLN R/L 2020 K12-A	20	20	125	34	25	CN.. 1204..	0,400	<input type="radio"/>	<input type="radio"/>
212428800	212428900	DCLN R/L 2525 M12-A	25	25	150	34	32	CN.. 1204..	0,750	<input type="radio"/>	<input type="radio"/>
212429000	212429100	DCLN R/L 3232 P12-A	32	32	170	34	40	CN.. 1204..	1,300	<input type="radio"/>	<input type="radio"/>
212429200	212429300	DCLN R/L 3232 P16-A	32	32	170	42	40	CN.. 1606..	1,250	<input type="radio"/>	<input type="radio"/>

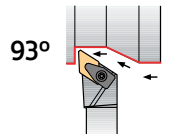
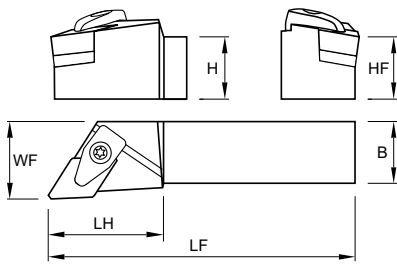
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DCLN R/L 2020 K12-A	CC120600	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DCLN R/L 2525 M12-A	CC120600	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DCLN R/L 3232 P12-A	CC120600	T06010000	M09513	GA07002	D0602900	SS40	-	H1000875	-
DCLN R/L 3232 P16-A	CC160501	T0601575	M09513	GA07004	D0602900	SS40	-	H1000875	-

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6,25°
Radial: -6,75°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212422900	212423000	DDJN R/L 2020 K11	20	20	125	34	25	DN.. 1104..	0,400		
212065900	212276200	DDJN R/L 2020 K15	20	20	125	34	25	DN.. 1506..	0,400		
212219300	212168000	DDJN R/L 2525 M15	25	25	150	34	32	DN.. 1506..	0,750		
212276300	212249400	DDJN R/L 3232 P15	32	32	170	34	40	DN.. 1506..	1,300		

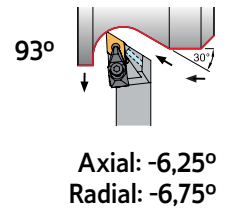
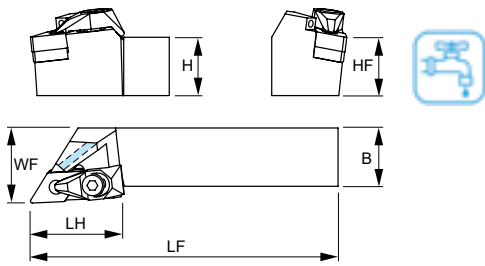
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
DDJN R/L 2020 K11	CD110302	T05008000	M06511	GA05001	D0500801	SS40
DDJN R/L 2020 K15	CD150501	T06010000	M09513	GA07002	D0602900	SS40
DDJN R/L 2525 M15	CD150501	T06010000	M09513	GA07002	D0602900	SS40
DDJN R/L 3232 P15	CD150501	T06010000	M09513	GA07002	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212429400	212429500	DDJN R/L 2020 K11-A	20	20	125	34	25	DN.. 1104..	0,400	○	○
212429600	212429700	DDJN R/L 2020 K15-A	20	20	125	42	25	DN.. 1506..	0,400	⊗	⊗
212429800	212429900	DDJN R/L 2525 M15-A	25	25	150	42	32	DN.. 1506..	0,750	⊗	⊗
212430000	212430100	DDJN R/L 3232 P15-A	32	32	170	42	40	DN.. 1506..	1,300	⊗	⊗

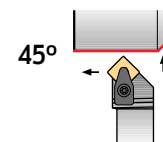
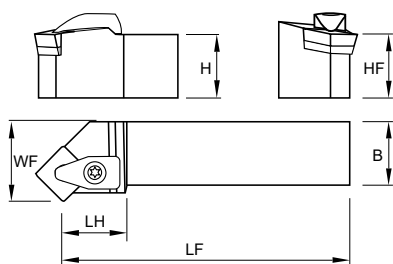
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DDJN R/L 2020 K11-A	CD110302	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875
DDJN R/L 2020 K15-A	CD150501	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DDJN R/L 2525 M15-A	CD150501	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DDJN R/L 3232 P15-A	CD150501	T06010000	M09513	GA07002	D0602900	SS40	-	H1000875	-

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -5,75°
Radial: -5,75°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212066000	212276400	DSSN R/L 2020 K12	20	20	125	28	25	SN.. 1204..	0,400	⊗	⊗
212245800	212276500	DSSN R/L 2525 M12	25	25	150	28	32	SN.. 1204..	0,750	⊗	⊗
212276600	212276700	DSSN R/L 3225 P12	32	25	170	28	32	SN.. 1204..	1,050	○	⊗
212276800	212276900	DSSN R/L 3232 P19	32	32	170	42	40	SN.. 1906..	1,300	⊗	⊗
212277000	212277100	DSSN R/L 4040 S19	40	40	250	45	50	SN.. 1906..	3,050	○	○

⊗ Stock Items | Itens de stock

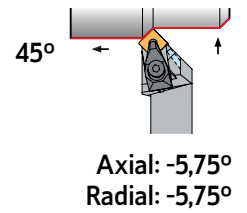
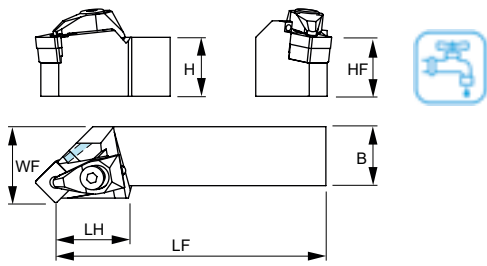
○ Available under request | Disponível sob consulta | Disponible bajo consulta

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
DSSN R/L 2020 K12	CS120600	T06010000	M09513	GA07002	D0602900	SS40
DSSN R/L 2525 M12	CS120600	T06010000	M09513	GA07002	D0602900	SS40
DSSN R/L 3225 P12	CS120600	T06010000	M09513	GA07002	D0602900	SS40
DSSN R/L 3232 P19	CS190501	T06015000	M09513	GA07003	D0602900	SS40
DSSN R/L 4040 S19	CS190501	T06015000	M09513	GA07003	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212430200	212430300	DSSN R/L 2020 K12-A	20	20	125	28	25	SN.. 1204..	0,400	<input type="radio"/>	<input type="radio"/>
212430400	212430500	DSSN R/L 2525 M12-A	20	20	150	28	32	SN.. 1204..	0,750	<input type="radio"/>	<input type="radio"/>
212430600	212430700	DSSN R/L 3232 P19-A	32	32	170	38	40	SN.. 1906..	1,300	<input type="radio"/>	<input type="radio"/>

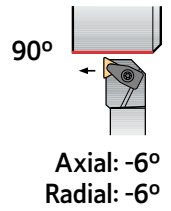
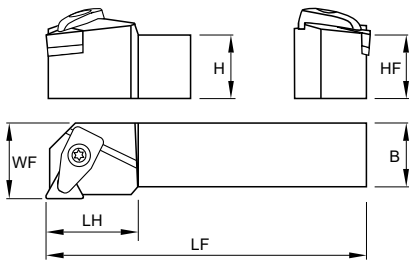
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DSSN R/L 2020 K12-A	CS120600	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DSSN R/L 2525 M12-A	CS120600	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DSSN R/L 3232 P19-A	CS190501	T06015000	M09513	GA07003	D0602900	SS40	-	H1000875	-

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212277200	212277300	DTGN R/L 2020 K16	20	20	125	28	25	TN.. 1604..	0,400		
212219500	212277400	DTGN R/L 2525 M16	25	25	150	28	32	TN.. 1604..	0,750		
212277500	212277600	DTGN R/L 2525 M22	25	25	150	34	32	TN.. 2204..	0,750		
212277700	212277800	DTGN R/L 3232 P22	32	32	170	34	40	TN.. 2204..	1,300		

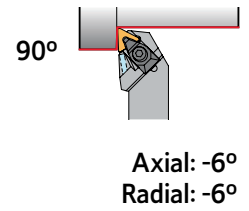
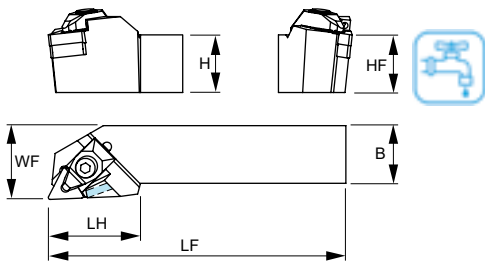
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
DTGN R/L 2020 K16	CT160600	T05008000	M06511	GA05001	D0500801	SS40
DTGN R/L 2525 M16	CT160600	T05008000	M06511	GA05001	D0500801	SS40
DTGN R/L 2525 M22	CT220600	T06010000	M09513	GA07002	D0602900	SS40
DTGN R/L 3232 P22	CT220600	T06010000	M09513	GA07002	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212430800	212430900	DTJN R/L 2020 K16-A	20	20	125	32	25	TN.. 1604..	0,400	○	○
212431000	212431100	DTJN R/L 2525 M16-A	20	20	150	32	32	TN.. 1604..	0,700	○	○

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

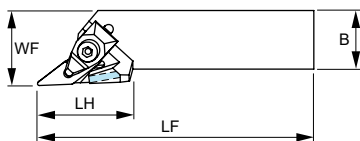
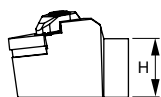
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DTJN R/L 2020 K16-A	CT160600	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875
DTJN R/L 2525 M16-A	CT160600	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212432000	212432100	DVJN R/L 2020 K16-A	20	20	125	34	25	VN..1604..	0,400	<input type="radio"/>	<input type="radio"/>
212432200	212432300	DVJN R/L 2525 M16-A	25	25	150	34	32	VN..1604..	0,700	<input type="radio"/>	<input type="radio"/>
212432400	212432500	DVJN R/L 3232 P16-A	32	32	170	34	40	VN..1604..	1,250	<input type="radio"/>	<input type="radio"/>

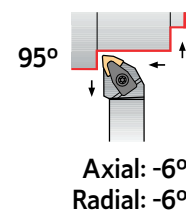
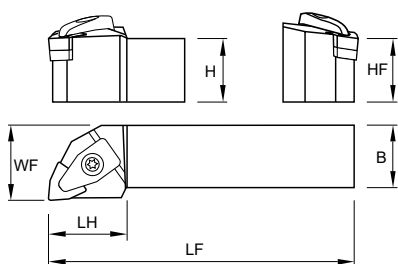
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DVJN R/L 2020 K16-A	CV160301	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875
DVJN R/L 2525 M16-A	CV160301	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875
DVJN R/L 3232 P16-A	CV160301	T05008000	M06511	GA05001	D0500801	SS40	-	H1000875	-

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212425100	212425200	DWLN R/L 2020 K06	20	20	125	34	25	WN.. 0604..	0,400		
212425300	212425400	DWLN R/L 2525 M06	25	25	150	34	25	WN.. 0604..	0,400		
212277900	212278000	DWLN R/L 2020 K08	20	20	125	34	25	WN.. 0804..	0,400		
212219400	212246300	DWLN R/L 2525 M08	25	25	150	34	32	WN.. 0804..	0,750		
212278100	212278200	DWLN R/L 3232 P08	32	32	170	34	40	WN.. 0804..	1,300		

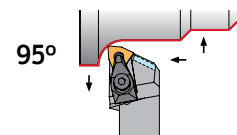
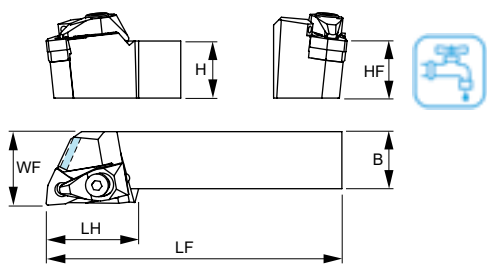
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
DWLN R/L 2020 K06	CW060302	T05008000	M06511	GA05001	D0500801	SS40
DWLN R/L 2525 M06	CW060302	T05008000	M06511	GA05001	D0500801	SS40
DWLN R/L 2020 K08	CW080500	T06010000	M09513	GA07002	D0602900	SS40
DWLN R/L 2525 M08	CW080500	T06010000	M09513	GA07002	D0602900	SS40
DWLN R/L 3232 P08	CW080500	T06010000	M09513	GA07002	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212431200	212431300	DWLN R/L 2020 K06-A	20	20	125	32	25	WN.. 0604..	0,400	○	○
212431400	212431500	DWLN R/L 2020 K08-A	20	20	125	32	25	WN.. 0804..	0,400	○	○
212431600	212431700	DWLN R/L 2525 M08-A	25	25	150	32	32	WN.. 0804..	0,700	○	○
212431800	212431900	DWLN R/L 3232 P08-A	32	32	170	32	38	WN.. 0804..	1,250	○	○

⊗ Stock item | Produto de stock | Itens de stock

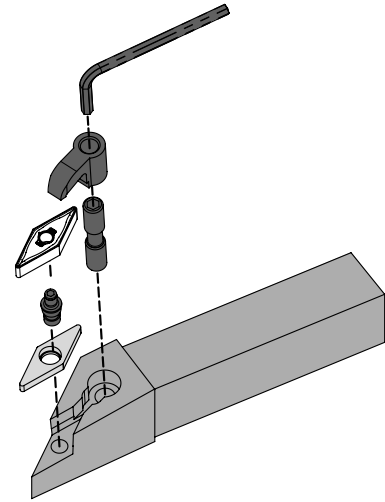
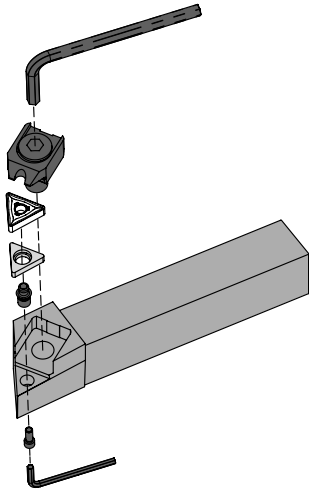
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

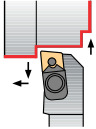
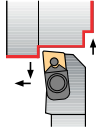
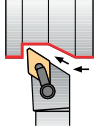
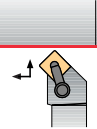
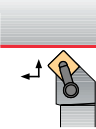
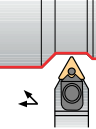
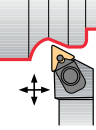
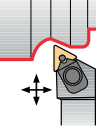
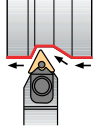
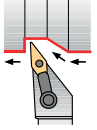
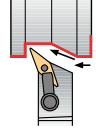
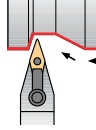
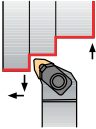
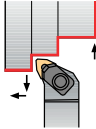
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
DWLN R/L 2020 K06-A	CW060302	T05008000	M06511	GA05001	D0500801	SS40	H0600475	H1000875	T1000875
DWLN R/L 2020 K08-A	CW080500	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DWLN R/L 2525 M08-A	CW080500	T06010000	M09513	GA07002	D0602900	SS40	H0600475	H1000875	T1000875
DWLN R/L 3232 P08-A	CW080500	T06010000	M09513	GA07002	D0602900	SS40	-	H1000875	-

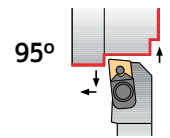
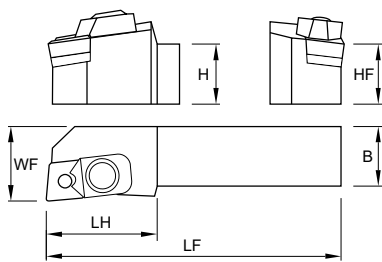
(M) WEDGE CLAMP SYSTEM

(M-K) DOUBLE LOCK SYSTEM



<p>MCLN 95°</p>  <p>PAGE C - 680 CN.. 1204.. CN.. 1906..</p>	<p>MCLN-K 95°</p>  <p>PAGE C - 681 CN.. 1204.. CN.. 1906..</p>	<p>MDJN-K 93°</p>  <p>PAGE C - 682 DN.. 1506..</p>	<p>MSSN-K 45°</p>  <p>PAGE C - 683 SN.. 1204..</p>	<p>MSSN 45°</p>  <p>PAGE C - 684 SN.. 1204.. SN.. 1906..</p>	<p>MTEN 60°</p>  <p>PAGE C - 685 TN.. 1604.. TN.. 2204..</p>
<p>MTJN 93°</p>  <p>PAGE C - 686 TN.. 1604.. TN.. 2204..</p>	<p>MTJN-K 93°</p>  <p>PAGE C - 687 TN.. 1604.. TN.. 2204..</p>	<p>MTNN 63°</p>  <p>PAGE C - 688 TN.. 1604.. TN.. 2204..</p>	<p>MVJN-K 93°</p>  <p>PAGE C - 689 VN.. 1604..</p>	<p>MVQN-K 117°30'</p>  <p>PAGE C - 690 VN.. 1604..</p>	<p>MVVN-K 72°30'</p>  <p>PAGE C - 691 VN.. 1604..</p>
<p>MWLN 95°</p>  <p>PAGE C - 692 WN.. 0604.. WN.. 0804..</p>	<p>MWLN-K 95°</p>  <p>PAGE C - 693 WN.. 0804..</p>				

(M) WEDGE CLAMP SYSTEM



Axial: -8°
Radial: -6,5°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212245900	212278300	MCLN R/L 2020 K12	20	20	125	34	25	CN.. 1204..	0,450		
212246000	212010500	MCLN R/L 2525 M12	25	25	150	34	32	CN.. 1204..	0,800		
212278400	212278500	MCLN R/L 3225 P12	32	25	170	34	32	CN.. 1204..	1,200		
212278600	212278700	MCLN R/L 2525 M19	25	25	150	42	32	CN.. 1906..	0,800		
212278800	212278900	MCLN R/L 3225 P19	32	25	170	42	32	CN.. 1906..	1,200		
212279000	212279100	MCLN R/L 4040 S19	40	40	250	42	50	CN.. 1906..	3,100		

Stock item | Produto de stock | Itens de stock

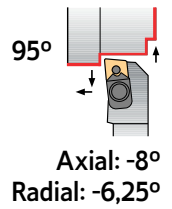
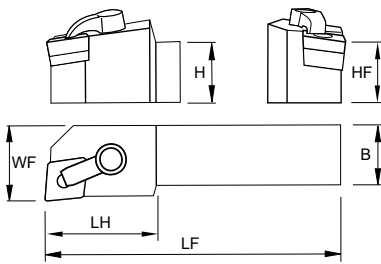
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	lock Pin Screw	Wedge Clamp	Wrench
MCLN R/L 2020 K12	CC120500	BC06000	D0400900	GW08002	SS50
MCLN R/L 2525 M12	CC120500	BC06000	D0400900	GW08002	SS50
MCLN R/L 3225 P12	CC120500	BC06000	D0400900	GW08002	SS50
MCLN R/L 2525 M19	CC190500	BC08000	D0602200	GW08003	SS50
MCLN R/L 3225 P19	CC190500	BC08000	D0602200	GW08003	SS50
MCLN R/L 4040 S19	CC190500	BC08000	D0602200	GW08003	SS50

MCLN-K 95° Toolholders | Ferros de torno | Herramientas de torneado

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212286200	212286300	MCLN R/L 2020 K12-K	20	20	125	28	25	CN.. 1204..	0,450		
212286400	212286500	MCLN R/L 2525 M12-K	25	25	150	28	32	CN.. 1204..	0,800		
212286600	212286700	MCLN R/L 3225 P12-K	32	25	170	28	32	CN.. 1204..	1,200		
212286800	212286900	MCLN R/L 2525 M19-K	25	25	150	42	32	CN.. 1906..	0,800		
212287000	212287100	MCLN R/L 3232 P19-K	32	32	170	42	40	CN.. 1906..	1,400		

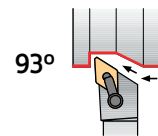
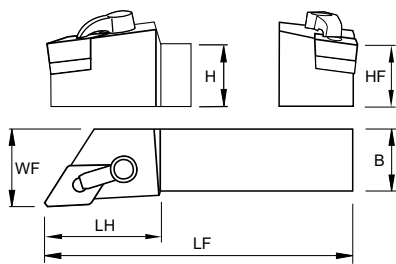
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MCLN R/L 2020 K12-K	CC120500	BS1-400	SS25	GA06000	F0602900	SS30
MCLN R/L 2525 M12-K	CC120500	BS1-400	SS25	GA06000	F0602900	SS30
MCLN R/L 3225 P12-K	CC120500	BS1-400	SS25	GA06000	F0602900	SS30
MCLN R/L 2525 M19-K	CC190502	BS3-800	SS40	GA06003	F0802900	SS40
MCLN R/L 3232 P19-K	CC190502	BS3-800	SS40	GA06003	F0802900	SS40

(M-K) DOUBLE LOCK SYSTEM



Axial: -6°
Radial: -7°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212287200	212287300	MDJN R/L 2020 K15-K	20	20	125	34	25	DN.. 1506..	0,450		
212287400	212287500	MDJN R/L 2525 M15-K	25	25	150	34	32	DN.. 1506..	0,800		
212287600	212287700	MDJN R/L 3225 P15-K	32	25	170	34	32	DN.. 1506..	1,200		

Stock item | Produto de stock | Itens de stock

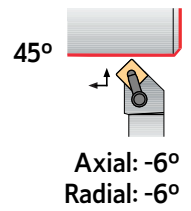
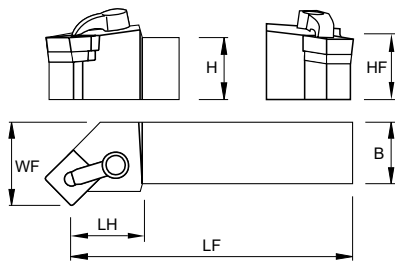
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MDJN R/L 2020 K15-K	CD150501	BS1-401	SS25	GA06001	F0602900	SS30
MDJN R/L 2525 M15-K	CD150501	BS1-401	SS25	GA06001	F0602900	SS30
MDJN R/L 3225 P15-K	CD150501	BS1-401	SS25	GA06001	F0602900	SS30

MSSN-K 45° Toolholders | Ferros de torno | Herramientas de torneado

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212287800	212287900	MSSN R/L 2020 K12-K	20	20	125	28	27	SN.. 1204..	0,450	⊗	⊗
212288000	212288100	MSSN R/L 2525 M12-K	25	25	150	28	32	SN.. 1204..	0,800	⊗	⊗

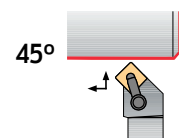
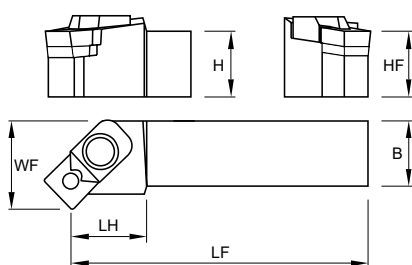
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MSSN R/L 2020 K12-K	CS120500	BS1-400	SS25	GA06000	F0602900	SS30
MSSN R/L 2525 M12-K	CS120500	BS1-400	SS25	GA06000	F0602900	SS30

(M) WEDGE CLAMP SYSTEM



Axial: -6°
Radial: -6°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212279200	212279300	MSSN R/L 2020 K12	20	20	125	34	27	SN.. 1204..	0,450		
212279400	212279500	MSSN R/L 2525 M12	25	25	150	34	32	SN.. 1204..	0,800		
212279600	212279700	MSSN R/L 3225 P12	32	25	170	34	32	SN.. 1204..	1,200		
212279800	212279900	MSSN R/L 2525 M19	25	25	150	42	32	SN.. 1906..	0,800		
212280000	212280100	MSSN R/L 3225 P19	32	25	170	42	32	SN.. 1906..	1,200		
212280200	212280300	MSSN R/L 3232 P19	32	32	170	42	40	SN.. 1906..	1,400		
212280400	212280500	MSSN R/L 4040 S19	40	40	250	42	50	SN.. 1906..	3,100		

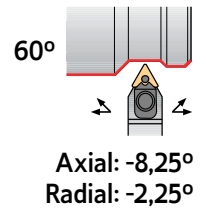
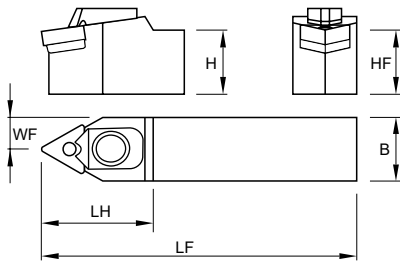
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MSSN R/L 2020 K12	CS120400	BC06000	D0400900	GW08001	SS50
MSSN R/L 2525 M12	CS120400	BC06000	D0400900	GW08001	SS50
MSSN R/L 3225 P12	CS120400	BC06000	D0400900	GW08001	SS50
MSSN R/L 2525 M19	CS190400	BC08000	D0601400	GW08003	SS50
MSSN R/L 3225 P19	CS190400	BC08000	D0601400	GW08003	SS50
MSSN R/L 3232 P19	CS190400	BC08000	D0601400	GW08003	SS50
MSSN R/L 4040 S19	CS190400	BC08000	D0601400	GW08003	SS50

(M) WEDGE CLAMP SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212280600	212280700	MTEN R/L 2020 K16	20	20	125	34	10,5	TN.. 1604..	0,450	⊗	⊗
212054800	212280900	MTEN R/L 2525 M16	25	25	150	34	13,0	TN.. 1604..	0,800	⊗	⊗
212281000	212281100	MTEN R/L 3225 P16	32	25	170	34	13,0	TN.. 1604..	1,200	⊗	⊗
212168800	212281300	MTEN R/L 2525 M22	25	25	150	42	13,0	TN.. 2204..	0,800	⊗	⊗
212281500	212281600	MTEN R/L 3225 P22	32	25	170	42	13,0	TN.. 2204..	1,200	⊗	⊗
212281800	212281900	MTEN R/L 3232 P22	32	32	170	42	16,5	TN.. 2204..	1,400	⊗	⊗
212282100	212282200	MTEN R/L 4025 R22	40	25	200	42	13,0	TN.. 2204..	1,500	⊗	⊗
212282400	212282500	MTEN R/L 5032 S22	50	32	250	45	16,5	TN.. 2204..	2,950	⊗	⊗
212280800		MTEN N 2020 K16	20	20	125	34	10,5	TN.. 1604..	0,450	⊗	
212169700		MTEN N 2525 M16	25	25	150	34	13,0	TN.. 1604..	0,800	⊗	
212281200		MTEN N 3225 P16	32	25	170	34	13,0	TN.. 1604..	1,200	⊗	
212281400		MTEN N 2525 M22	25	25	150	42	13,0	TN.. 2204..	0,800	⊗	
212281700		MTEN N 3225 P22	32	25	170	42	13,0	TN.. 2204..	1,200	⊗	
212282000		MTEN N 3232 P22	32	32	170	42	16,5	TN.. 2204..	1,400	⊗	
212282300		MTEN N 4025 R22	40	25	200	42	13,0	TN.. 2204..	1,500	⊗	
212282600		MTEN N 5032 S22	50	32	250	45	16,5	TN.. 2204..	2,950	⊗	

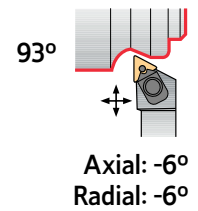
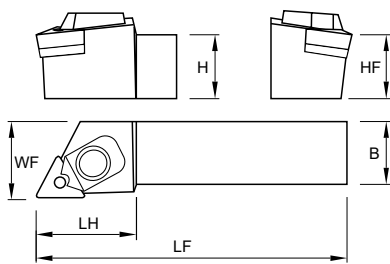
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MTEN R/L/N 2020 K16	CT160302	BC04500	D0300700	GW08001	SS50
MTEN R/L/N 2525 M16	CT160302	BC04500	D0300700	GW08001	SS50
MTEN R/L/N 3225 P16	CT160302	BC04500	D0300700	GW08001	SS50
MTEN R/L/N 2525 M22	CT220500	BC06000	D0400900	GW08003	SS50
MTEN R/L/N 3225 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTEN R/L/N 3232 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTEN R/L/N 4025 R22	CT220500	BC06000	D0400900	GW08003	SS50
MTEN R/L/N 5032 S22	CT220500	BC06000	D0400900	GW08003	SS50

(M) WEDGE CLAMP SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212054100	212282700	MTJN R/L 2020 K16	20	20	125	34	25	TN.. 1604..	0,450		
212026100	212047700	MTJN R/L 2525 M16	25	25	150	34	32	TN.. 1604..	0,800		
212010600	212282800	MTJN R/L 3225 P16	32	25	170	34	32	TN.. 1604..	1,200		
212282900	212283000	MTJN R/L 2525 M22	25	25	150	42	32	TN.. 2204..	0,800		
212283100	212283200	MTJN R/L 3225 P22	32	25	170	42	32	TN.. 2204..	1,200		
212283300	212283400	MTJN R/L 3232 P22	32	32	170	42	40	TN.. 2204..	1,400		
212283500	212283600	MTJN R/L 4025 R22	40	25	200	42	32	TN.. 2204..	1,500		
212010700	212283700	MTJN R/L 5032 S22	50	32	250	45	40	TN.. 2204..	2,950		

Stock item | Produto de stock | Itens de stock

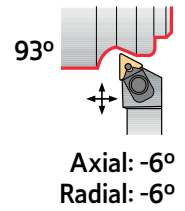
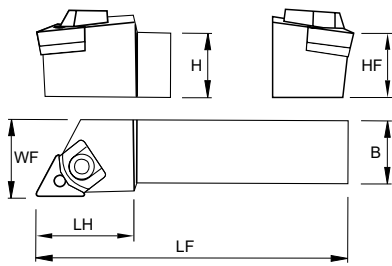
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MTJN R/L 2020 K16	CT160302	BC04500	D0300700	GW08001	SS50
MTJN R/L 2525 M16	CT160302	BC04500	D0300700	GW08001	SS50
MTJN R/L 3225 P16	CT160302	BC04500	D0300700	GW08001	SS50
MTJN R/L 2525 M22	CT220500	BC06000	D0400900	GW08003	SS50
MTJN R/L 3225 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTJN R/L 3232 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTJN R/L 4025 R22	CT220500	BC06000	D0400900	GW08003	SS50
MTJN R/L 5032 S22	CT220500	BC06000	D0400900	GW08003	SS50

MTJN-K 93° Toolholders | Ferros de torno | Herramientas de torneado

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212289300	212289400	MTJN R/L 2020 K16-K	20	20	125	22	25	TN.. 1604..	0,450		
212228600	212289500	MTJN R/L 2525 M16-K	25	25	150	22	32	TN.. 1604..	0,800		
212169600	212289600	MTJN R/L 2525 M22-K	25	25	150	28	32	TN.. 2204..	0,800		
212289700	212289800	MTJN R/L 3225 P22-K	32	25	170	28	32	TN.. 2204..	1,200		
212289900	212290000	MTJN R/L 3232 P22-K	32	32	170	28	40	TN.. 2204..	1,400		
212290100	212290200	MTJN R/L 4025 R22-K	40	25	200	34	32	TN.. 2204..	1,500		
212290300	212290400	MTJN R/L 5032 S22-K	50	32	250	34	40	TN.. 2204..	2,950		

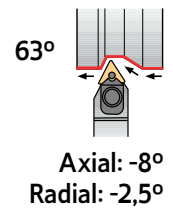
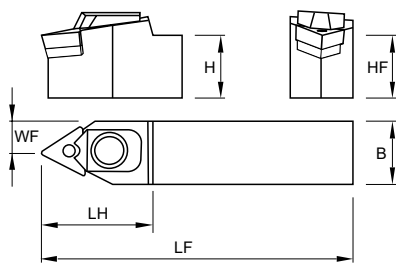
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MTJN R/L 2020 K16-K	CT160302	BC04500	D0300700	GW05001	SS25
MTJN R/L 2525 M16-K	CT160302	BC04500	D0300700	GW05001	SS25
MTJN R/L 2525 M22-K	CT220500	BC06000	D0400900	GW06001	SS30
MTJN R/L 3225 P22-K	CT220500	BC06000	D0400900	GW06001	SS30
MTJN R/L 3232 P22-K	CT220500	BC06000	D0400900	GW06001	SS30
MTJN R/L 4025 R22-K	CT220500	BC06000	D0400900	GW06001	SS30
MTJN R/L 5032 S22-K	CT220500	BC06000	D0400900	GW06001	SS30

(M) WEDGE CLAMP SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212283800	212283900	MTNN R/L 2020 K16	20	20	125	34	10,0	TN.. 1604..	0,450		
212284000	212043900	MTNN R/L 2525 M16	25	25	150	34	12,5	TN.. 1604..	0,800		
212284100	212284200	MTNN R/L 3225 P16	32	25	170	34	12,5	TN.. 1604..	1,200		
212284300	212284400	MTNN R/L 2525 M22	25	25	150	42	12,5	TN.. 2204..	0,800		
212284500	212284600	MTNN R/L 3225 P22	32	25	170	42	12,5	TN.. 2204..	1,200		
212284700	212284800	MTNN R/L 3232 P22	32	32	170	42	16,0	TN.. 2204..	1,400		
212284900	212285000	MTNN R/L 4025 R22	40	25	200	42	12,5	TN.. 2204..	1,500		
212285100	212285200	MTNN R/L 5032 S22	50	32	250	45	16,0	TN.. 2204..	2,950		

Stock item | Produto de stock | Itens de stock

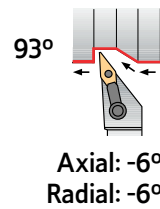
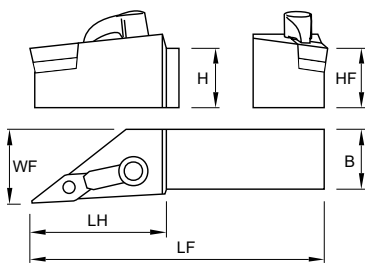
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MTNN R/L 2020 K16	CT160302	BC04500	D0300700	GW08001	SS50
MTNN R/L 2525 M16	CT160302	BC04500	D0300700	GW08001	SS50
MTNN R/L 3225 P16	CT160302	BC04500	D0300700	GW08001	SS50
MTNN R/L 2525 M22	CT220500	BC06000	D0400900	GW08003	SS50
MTNN R/L 3225 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTNN R/L 3232 P22	CT220500	BC06000	D0400900	GW08003	SS50
MTNN R/L 4025 R22	CT220500	BC06000	D0400900	GW08003	SS50
MTNN R/L 5032 S22	CT220500	BC06000	D0400900	GW08003	SS50

MVJN-K 93° Toolholders | Ferros de torno | Herramientas de torneado

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212050100	212057700	MVJN R/L 2020 K16-K	20	20	125	43	25	VN.. 1604..	0,450	⊗	⊗
212246100	212288200	MVJN R/L 2525 M16-K	25	25	150	43	32	VN.. 1604..	0,800	⊗	⊗
212288300	212288400	MVJN R/L 3225 P16-K	32	25	170	43	32	VN.. 1604..	1,200	⊗	⊗

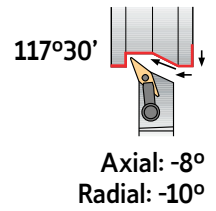
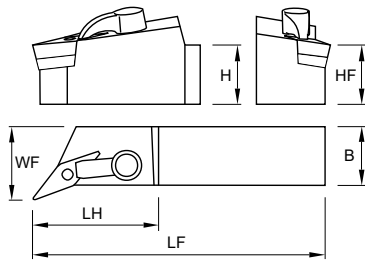
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MVJN R/L 2020 K16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30
MVJN R/L 2525 M16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30
MVJN R/L 3225 P16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212288500	212288600	MVQN R/L 2020 K16-K	20	20	125	43	25	VN..1604..	0,450		
212288700	212288800	MVQN R/L 2525 M16-K	25	25	150	43	32	VN..1604..	0,800		
212288900	212289000	MVQN R/L 3225 P16-K	32	25	170	43	32	VN..1604..	1,200		

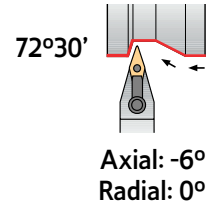
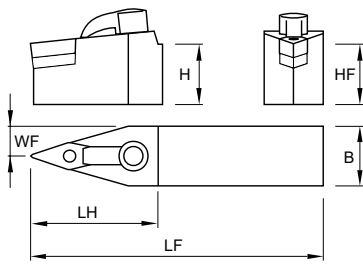
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MVQN R/L 2020 K16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30
MVQN R/L 2525 M16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30
MVQN R/L 3225 P16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30

(M-K) DOUBLE LOCK SYSTEM



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock	
		HF = H	B	LF	LH	WF			R	L
212289100	MVVN N 2020 K16-K	20	20	125	43	10,0	VN..1604..	0,450	⊗	⊗
212289200	MVVN N 2525 M16-K	25	25	150	43	12,5	VN..1604..	0,800	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

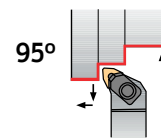
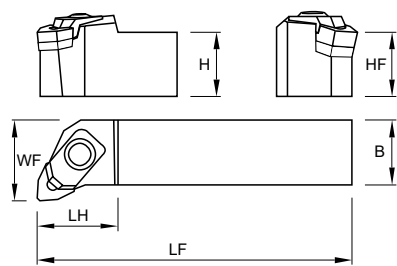
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS

Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
MVVN N 2020 K16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30
MVVN N 2525 M16-K	CV160301	BS05000	SS20	GA06002	F0602900	SS30

(M) WEDGE CLAMP SYSTEM



Axial: -6,5°
Radial: -6,5°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212285300	212285400	MWLN R/L 1616 H06	16	16	100	15	20	WN.. 0604..	0,200		
212048200	212285500	MWLN R/L 2020 K06	20	20	125	25	25	WN.. 0604..	0,450		
212285600	212285700	MWLN R/L 2525 M06	25	25	150	25	32	WN.. 0604..	0,800		
212246200	212285800	MWLN R/L 2020 K08	20	20	125	34	25	WN.. 0804..	0,450		
212054000	212042400	MWLN R/L 2525 M08	25	25	150	34	32	WN.. 0804..	0,800		
212285900	212286000	MWLN R/L 3225 P08	32	25	170	34	32	WN.. 0804..	1,200		
212010800	212286100	MWLN R/L 3232 P08	32	32	170	34	40	WN.. 0804..	1,400		

Stock item | Produto de stock | Itens de stock

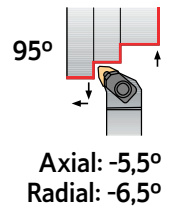
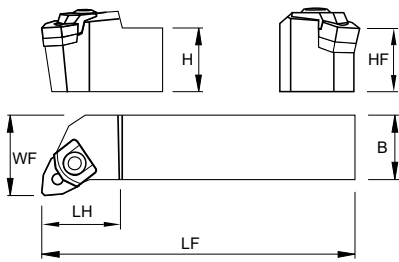
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MWLN R/L 1616 H06	CW060300	BC04501	D0300700	GW05000	SS25
MWLN R/L 2020 K06	CW060300	BC04500	D0300700	GW05000	SS25
MWLN R/L 2525 M06	CW060300	BC04500	D0300700	GW05000	SS25
MWLN R/L 2020 K08	CW080500	BC06000	D0400900	GW08000	SS50
MWLN R/L 2525 M08	CW080500	BC06000	D0400900	GW08000	SS50
MWLN R/L 3225 P08	CW080500	BC06000	D0400900	GW08000	SS50
MWLN R/L 3232 P08	CW080500	BC06000	D0400900	GW08000	SS50

MWLN-K 95° Toolholders | Ferros de torno | Herramientas de torneado

(M-K) DOUBLE LOCK SYSTEM



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212290500	212290600	MWLN R/L 2020 K08-K	20	20	125	34	25	WN.. 0804..	0,450	⊗	⊗
212250200	212290700	MWLN R/L 2525 M08-K	25	25	150	34	32	WN.. 0804..	0,800	⊗	⊗
212290800	212290900	MWLN R/L 3232 P08-K	32	32	170	34	40	WN.. 0804..	1,400	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
MWLN R/L 2020 K08-K	CW080500	BC06000	D0400900	GW06000	SS25
MWLN R/L 2525 M08-K	CW080500	BC06000	D0400900	GW06000	SS25
MWLN R/L 3232 P08-K	CW080500	BC06000	D0400900	GW06000	SS25

C (P) LEVER LOCK SYSTEM

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

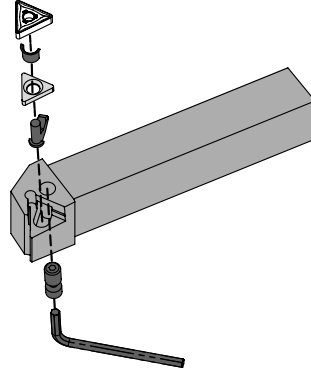
External Toolholders

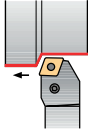
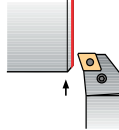
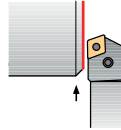
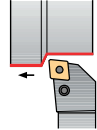
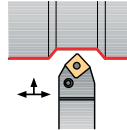
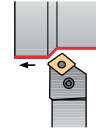
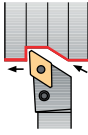
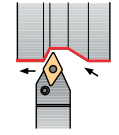
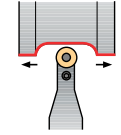
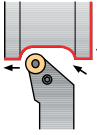
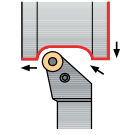
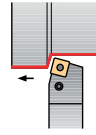
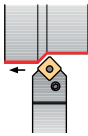
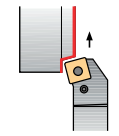
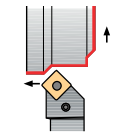
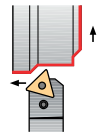
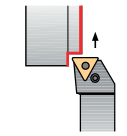
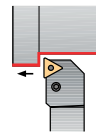
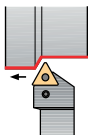
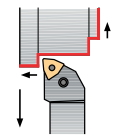
Internal Toolholders

Automatic Lathes

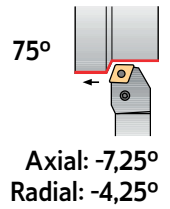
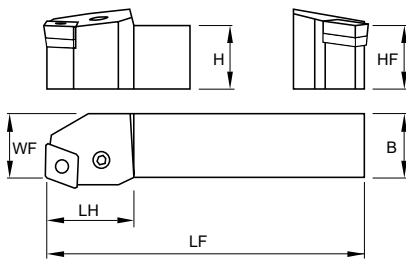
Spare Parts

Technical Data



<p>PCBN 75°</p>  <p>PAGE C - 695 CN.. 1204.. CN.. 1606.. CN.. 1906.. CN..2509..</p>	<p>PCFN 90°</p>  <p>PAGE C - 696 CN.. 1204.. CN.. 1606.. CN.. 1906..</p>	<p>PCKN 75°</p>  <p>PAGE C - 697 CN.. 1204... CN.. 1906.. CN.. 2506..</p>	<p>PCLN 95°</p>  <p>PAGE C - 698 CN..0903.. ... CN..2509..</p>	<p>PCMN 50°</p>  <p>PAGE C - 700 SN.. 1204.. SN.. 1906..</p>	<p>PCSN 45°</p>  <p>PAGE C - 701 CN.. 1204.. CN.. 1606.. CN.. 1906..</p>
<p>PDJN 93°</p>  <p>PAGE C - 702 DN.. 1104.. DN.. 1504.. DN.. 1506..</p>	<p>PDNN 63°</p>  <p>PAGE C - 703 DN.. 1504.. DN.. 1506..</p>	<p>PRDC</p>  <p>PAGE C - 704 RC.. 1003M0 ... RC.. 3209M0</p>	<p>PRSC</p>  <p>PAGE C - 706 RC.. 10..32</p>	<p>PRSN</p>  <p>PAGE C - 707 RN.. 09..25</p>	<p>PSBN 75°</p>  <p>PAGE C - 708 SN.. 0903.. ... SN.. 2507..</p>
<p>PSDN 45°</p>  <p>PAGE C - 709 SN.. 0903.. ... SN.. 2507..</p>	<p>PSKN 75°</p>  <p>PAGE C - 710 SN.. 0903.. ... SN.. 2507..</p>	<p>PSSN 45°</p>  <p>PAGE C - 711 SN.. 0903.. ... SN.. 2507..</p>	<p>PTDN 45°</p>  <p>PAGE C - 712 TN.. 2204..</p>	<p>PTFN 90°</p>  <p>PAGE C - 713 TN.. 1604.. TN.. 2204.. TN.. 2706..</p>	<p>PTGN 90°</p>  <p>PAGE C - 714 TN.. 1604.. ... TN.. 3307..</p>
<p>PTTN 60°</p>  <p>PAGE C - 715 TN.. 1604.. TN.. 2204..</p>	<p>PWLN 95°</p>  <p>PAGE C - 716 WN.. 0604.. WN.. 0804..</p>				

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212291000	212291100	PCBN R/L 2020 K12	20	20	125	28	17	CN.. 1204..	0,400		
212011200	212010900	PCBN R/L 2525 M12	25	25	150	28	22	CN.. 1204..	0,750		
212423100	212423200	PCBN R/L 3225 P12	32	25	170	34	22,0	CN.. 1204..	0,750		
212291200	212291300	PCBN R/L 2525 M16	25	25	150	34	22	CN.. 1606..	0,750		
212291400	212291500	PCBN R/L 3225 P16	32	25	170	34	22	CN.. 1606..	1,050		
212291600	212291700	PCBN R/L 3232 P16	32	32	170	34	27	CN.. 1606..	1,300		
212291800	212291900	PCBN R/L 3225 P19	32	25	170	42	22	CN.. 1906..	1,050		
212011300	212011000	PCBN R/L 3232 P19	32	32	170	42	27	CN.. 1906..	1,300		
212011400	212011100	PCBN R/L 4040 S19	40	40	250	45	35	CN.. 1906..	3,050		
212387900	212388000	PCBN R/L 4040 P25	40	40	250	48	41	CN.. 2509..	3,100		
212388100	212388200	PCBN R/L 5050 T25	50	50	300	50	51	CN.. 2509..	4,000		

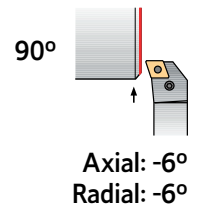
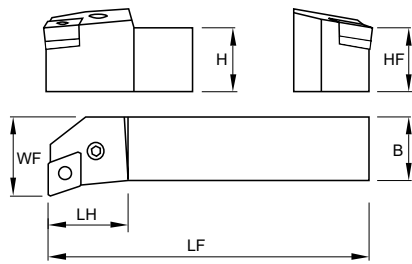
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCBN R/L 2020 K12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCBN R/L 2525 M12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCBN R/L 3225 P12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCBN R/L 2525 M16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCBN R/L 3225 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCBN R/L 3232 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCBN R/L 3225 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCBN R/L 3232 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCBN R/L 4040 S19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCBN R/L 4040 S25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50
PCBN R/L 5050 T25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212292000	212292100	PCFN R/L 2525 M12	25	25	150	28	32	CN.. 1204..	0,750		
212292200	212292300	PCFN R/L 2525 M16	25	25	150	34	32	CN.. 1606..	0,750		
212292400	212292500	PCFN R/L 3225 P16	32	25	170	34	32	CN.. 1606..	1,050		
212292600	212292700	PCFN R/L 3232 P16	32	32	170	34	40	CN.. 1606..	1,300		
212292800	212292900	PCFN R/L 3225 P19	32	25	170	42	32	CN.. 1906..	1,050		
212293000	212293100	PCFN R/L 3232 P19	32	32	170	42	40	CN.. 1906..	1,300		
212293200	212293300	PCFN R/L 4040 S19	40	40	250	45	50	CN.. 1906..	3,050		

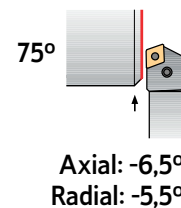
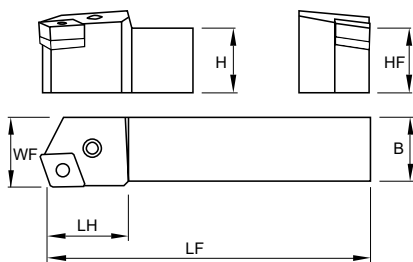
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCFN R/L 2525 M12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCFN R/L 2525 M16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCFN R/L 3225 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCFN R/L 3232 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCFN R/L 3225 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCFN R/L 3232 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCFN R/L 4040 S19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212011600	212293400	PCKN R/L 2020 K12	20	20	125	28	25	CN.. 1204..	0,400		
212011700	212293500	PCKN R/L 2525 M12	25	25	150	28	32	CN.. 1204..	0,750		
212293600	212011500	PCKN R/L 3225 P12	32	25	170	28	32	CN.. 1204..	1,050		
212293800	212293900	PCKN R/L 3232 P19	32	32	170	34	40	CN.. 1906..	1,300		
212294000	212294100	PCKN R/L 4040 S19	40	40	250	45	50	CN.. 1906..	3,050		
212294200	212294300	PCKN R/L 4040 S25	40	40	250	45	50	CN.. 2509..	3,050		
212294400	212294500	PCKN R/L 5050 T25	50	50	300	45	60	CN.. 2509..	5,850		

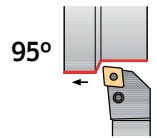
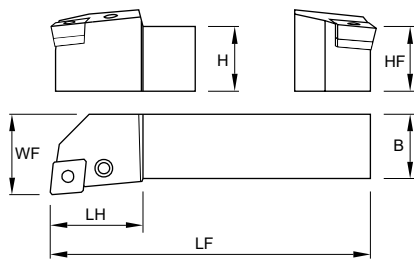
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCKN R/L 2020 K12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCKN R/L 2525 M12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCKN R/L 3225 P12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCKN R/L 3232 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCKN R/L 4040 S19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCKN R/L 4040 S25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50
PCKN R/L 5050 T25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



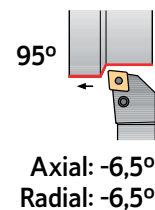
Axial: -6,5°
Radial: -6,5°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212294600	212294700	PCLN R/L 1616 H09	16	16	100	25	20	CN.. 0903..	0,250	⊗	⊗
212294800	212294900	PCLN R/L 2020 K09	20	20	125	27	25	CN.. 0903..	0,400	⊗	⊗
212295000	212295100	PCLN R/L 2525 M09	25	25	150	27	32	CN.. 0903..	0,750	⊗	⊗
212012300	212011800	PCLN R/L 1616 H12	16	16	100	26	20	CN.. 1204..	0,250	⊗	⊗
212012400	212011900	PCLN R/L 2020 K12	20	20	125	28	25	CN.. 1204..	0,400	⊗	⊗
212044800	212031500	PCLN R/L 2525 M12	25	25	150	28	32	CN.. 1204..	0,750	⊗	⊗
212295200	212295300	PCLN R/L 3225 P12	32	25	170	28	32	CN.. 1204..	1,050	⊗	⊗
212058200	212295400	PCLN R/L 3232 P12	32	32	170	28	40	CN.. 1204..	1,300	⊗	⊗
212036400	212168100	PCLN R/L 2525 M16	25	25	150	34	32	CN.. 1606..	0,750	⊗	⊗
212295500	212295600	PCLN R/L 3225 P16	32	25	170	34	32	CN.. 1606..	1,050	⊗	⊗
212295700	212012100	PCLN R/L 3232 P16	32	32	170	34	40	CN.. 1606..	1,300	⊗	⊗
212295800	212012200	PCLN R/L 4040 S16	40	40	250	34	50	CN.. 1606..	3,050	⊗	⊗
212058100	212295900	PCLN R/L 2525 M19	25	25	150	42	32	CN.. 1906..	0,750	⊗	⊗
212296000	212296100	PCLN R/L 3225 P19	32	25	170	42	32	CN.. 1906..	1,050	⊗	⊗
212058300	212296200	PCLN R/L 3232 P19	32	32	170	42	40	CN.. 1906..	1,300	⊗	⊗
212058400	212296300	PCLN R/L 4040 S19	40	40	250	45	50	CN.. 1906..	3,050	⊗	⊗
212422700	212422800	PCLN R/L 5050 T19	50	50	300	50	60	CN.. 1906..	3,050	⊗	⊗
212296400	212296500	PCLN R/L 4040 S25	40	40	250	45	50	CN.. 2509..	3,050	⊗	⊗
212296600	212296700	PCLN R/L 5050 T25	50	50	300	45	60	CN.. 2509..	5,850	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

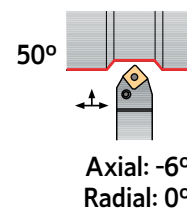
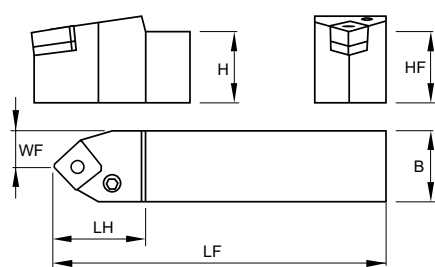
(P) LEVER LOCK TOOLHOLDERS



SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCLN R/L 1616 H09	CC090300	BE04400	BF40009	AN01200	PA0601700	SS25
PCLN R/L 2020 K09	CC090300	BE04400	BF40009	AN01200	PA0601700	SS25
PCLN R/L 2525 M09	CC090300	BE04400	BF40009	AN01200	PA0601700	SS25
PCLN R/L 1616 H12	CC120301	BE05500	BF47509	AC13200	PA0801700	SS30
PCLN R/L 2020 K12	CC120301	BE05500	BF47509	AC13200	PA0802100	SS30
PCLN R/L 2525 M12	CC120301	BE05500	BF47509	AC13200	PA0802100	SS30
PCLN R/L 3225 P12	CC120301	BE05500	BF47509	AC13200	PA0802100	SS30
PCLN R/L 3232 P12	CC120301	BE05500	BF47509	AC13200	PA0802100	SS30
PCLN R/L 2525 M16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCLN R/L 3225 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCLN R/L 3232 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCLN R/L 4040 S16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCLN R/L 2525 M19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCLN R/L 3225 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCLN R/L 3232 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCLN R/L 4040 S19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCLN R/L 5050 T19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCLN R/L 4040 S25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50
PCLN R/L 5050 T25	CC250700	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212296800	PCMN N 2020 K12	20	20	125	34	10,0	CN.. 1204..	0,400	⊗
212296900	PCMN N 2525 M12	25	25	150	34	12,5	CN.. 1204..	0,750	⊗
212297000	PCMN N 3225 P12	32	25	170	34	12,5	CN.. 1204..	1,050	⊗
212297100	PCMN N 3232 P19	32	32	170	42	16,0	CN.. 1906..	1,300	⊗
212297200	PCMN N 4040 S19	40	40	250	42	20,0	CN.. 1906..	3,050	⊗

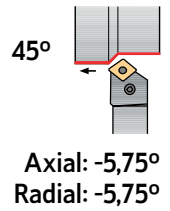
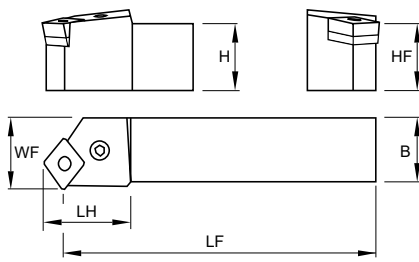
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCMN N 2020 K12	CC120301	BE05500	BF47509	AN13100	A0802100	SS30
PCMN N 2525 M12	CC120301	BE05500	BF47509	AN13100	A0802100	SS30
PCMN N 3225 P12	CC120301	BE05500	BF47509	AN13100	A0802100	SS30
PCMN N 3232 P19	CC190500	BE08500	BF80012	AN20800	A1002700	SS40
PCMN N 4040 S19	CC190500	BE08500	BF80012	AN20800	A1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212297300	212297400	PCSN R/L 2020 K12	20	20	125	28	25	CN.. 1204..	0,400	⊗	⊗
212297500	212012800	PCSN R/L 2525 M12	25	25	150	28	32	CN.. 1204..	0,750	⊗	⊗
212297600	212297700	PCSN R/L 2525 M16	25	25	150	34	32	CN.. 1606..	0,750	⊗	⊗
212297800	212297900	PCSN R/L 3225 P16	32	25	170	34	32	CN.. 1606..	1,050	⊗	⊗
212013100	212298000	PCSN R/L 3232 P16	32	32	170	34	40	CN.. 1606..	1,300	⊗	⊗
212298100	212298200	PCSN R/L 3225 P19	32	25	170	42	32	CN.. 1906..	1,050	⊗	⊗
212298300	212298400	PCSN R/L 3232 P19	32	32	170	42	40	CN.. 1906..	1,300	⊗	⊗
212298500	212298600	PCSN R/L 4040 S19	40	40	250	45	50	CN.. 1906..	3,050	⊗	⊗

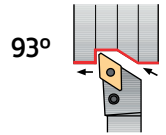
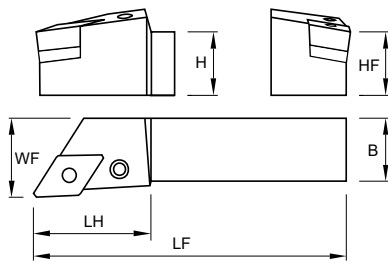
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PCSN R/L 2020 K12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCSN R/L 2525 M12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
PCSN R/L 2525 M16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCSN R/L 3225 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCSN R/L 3232 P16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
PCSN R/L 3225 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCSN R/L 3232 P19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
PCSN R/L 4040 S19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



Axial: 6,25°
Radial: -6,75°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212057800	212298700	PDJN R/L 1616 H11	16	16	100	28	20	DN.. 1104..	0,250		
212246900	212246800	PDJN R/L 2020 K11	20	20	125	28	25	DN.. 1104..	0,400		
212247500	212247600	PDJN R/L 2525 M11	25	25	150	28	32	DN.. 1104..	0,750		
212298800	212298900	PDJN R/L 3225 P11	32	25	170	28	32	DN.. 1104..	1,050		
212013600	212013200	PDJN R/L 2020 K15	20	20	125	34	25	DN.. 1506..	0,400		
212037300	212031600	PDJN R/L 2525 M15	25	25	150	34	32	DN.. 1506..	0,750		
212299000	212013400	PDJN R/L 3225 P15	32	25	170	34	32	DN.. 1506..	1,050		
212013800	212013500	PDJN R/L 3232 P15	32	32	170	34	40	DN.. 1506..	1,300		
212299100	212299200	PDJN R/L 4025 R15	40	25	200	34	32	DN.. 1506..	1,850		
212299300	212299400	PDJN R/L 5032 S15	50	32	250	34	40	DN.. 1506..	2,900		

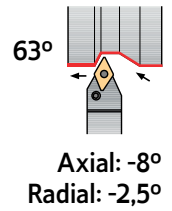
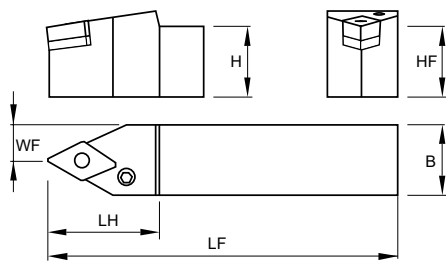
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						for inserts DN.. 1504..	
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench	Shim	Shim Pin
PDJN R/L 1616 H11							-	-
PDJN R/L 2020 K11							-	-
PDJN R/L 2525 M11							-	-
PDJN R/L 3225 P11							-	-
PDJN R/L 2020 K15							CD150500	BE05401
PDJN R/L 2525 M15							CD150500	BE05401
PDJN R/L 3225 P15							CD150500	BE05401
PDJN R/L 3232 P15							CD150500	BE05401
PDJN R/L 4025 R15							CD150500	BE05401
PDJN R/L 5032 S15							CD150500	BE05401

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212299500	212299600	PDNN R/L 2020 K15	20	20	125	34	10,0	DN.. 1506..	0,400	⊗	⊗
212299800	212299900	PDNN R/L 2525 M15	25	25	150	34	12,5	DN.. 1506..	0,750	⊗	⊗
212300100	212300200	PDNN R/L 3225 P15	32	25	170	34	12,5	DN.. 1506..	1,050	⊗	⊗
212300300	212300400	PDNN R/L 3232 P15	32	32	170	34	16,0	DN.. 1506..	1,300	⊗	⊗
212300600	212300700	PDNN R/L 4025 S15	40	25	250	34	12,5	DN.. 1506..	1,850	⊗	⊗
212300900	212301000	PDNN R/L 5032 S15	50	32	250	34	16,0	DN.. 1506..	2,900	⊗	⊗
212299700		PDNN N 2020 K15	20	20	125	34	10,0	DN.. 1506..	0,400	⊗	
212300000		PDNN N 2525 M15	25	25	150	34	12,5	DN.. 1506..	0,750	⊗	
212250000		PDNN N 3225 P15	32	25	170	34	12,5	DN.. 1506..	1,050	⊗	
212300500		PDNN N 3232 P15	32	32	170	34	16,0	DN.. 1506..	1,300	⊗	
212300800		PDNN N 4025 S15	40	25	250	34	12,5	DN.. 1506..	1,850	⊗	
212301100		PDNN N 5032 S15	50	32	250	34	16,0	DN.. 1506..	2,900	⊗	

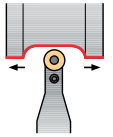
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

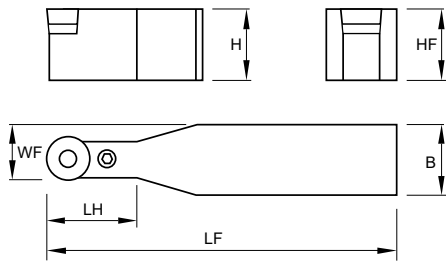
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						for inserts DN.. 1504..	
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench	Shim	Shim Pin
PDNN R/L/N 2020 K15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
PDNN R/L/N 2525 M15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
PDNN R/L/N 3225 P15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
PDNN R/L/N 3232 P15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
PDNN R/L/N 4025 S15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
PDNN R/L/N 5032 S15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401

(P) LEVER LOCK TOOLHOLDERS



Axial: 0°
Radial: 0°

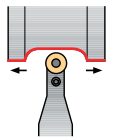


Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212051100	PRDC N 2020 K10	20	20	125	22	15,0	RC.. 1003M0	0,400	⊗
212169000	PRDC N 2525 M10	25	25	150	22	18,5	RC.. 1003M0	0,750	⊗
212301200	PRDC N 3225 P10	32	25	170	22	18,5	RC.. 1003M0	1,050	⊗
212301300	PRDC N 2020 K12	20	20	125	28	16,0	RC.. 1204M0	0,400	⊗
212042800	PRDC N 2525 M12	25	25	150	28	18,5	RC.. 1204M0	0,750	⊗
212301400	PRDC N 3225 P12	32	25	170	28	18,5	RC.. 1204M0	1,050	⊗
212422400	PRDC N 3232 P12	32	32	170	28	22,0	RC.. 1204M0	1,300	○
212301500	PRDC N 4025 S12	40	25	250	28	18,5	RC.. 1204M0	1,850	⊗
212020600	PRDC N 3225 P16	32	25	170	34	20,5	RC.. 1606M0	1,050	⊗
212301600	PRDC N 3232 P16	32	32	170	34	24,0	RC.. 1606M0	1,300	⊗
212301700	PRDC N 3232 P20	32	32	170	42	26,0	RC.. 2006M0	1,300	⊗
212301800	PRDC N 4040 S20	40	40	250	42	30,0	RC.. 2006M0	3,050	⊗
212301900	PRDC N 4040 S25	40	40	250	45	32,5	RC.. 2507M0	3,050	⊗
212293700	PRDC N 4040 U25	40	40	350	45	32,5	RC.. 2507M0	3,050	○
212302000	PRDC N 5050 U25	50	50	350	45	37,5	RC.. 2507M0	5,850	○
212302100	PRDC N 5050 V32	50	50	400	52	41,0	RC.. 3209M0	5,850	○

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

(P) LEVER LOCK TOOLHOLDERS

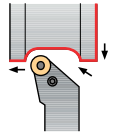
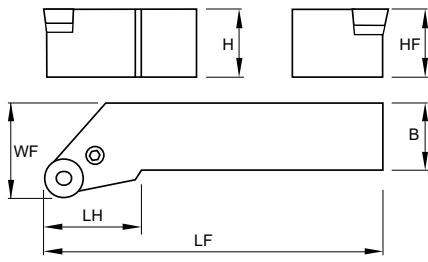


Axial: 0°
Radial: 0°

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PRDC N 2020 K10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRDC N 2525 M10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRDC N 3225 P10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRDC N 2020 K12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRDC N 2525 M12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRDC N 3225 P12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRDC N 3232 P12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRDC N 4025 S12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRDC N 3225 P16	CR160500	BE05400	BF47509	AC18000	PA0602100	SS25
PRDC N 3232 P16	CR160500	BE05400	BF47509	AC18000	PA0602100	SS25
PRDC N 3232 P20	CR200500	BE07000	BF65012	AC18700	PA0802400	SS30
PRDC N 4040 S20	CR200500	BE07000	BF65012	AC18700	PA0802400	SS30
PRDC N 4040 S25	CR250600	BE08500	BF80012	AC23000	PA1003000	SS40
PRDC N 4040 U25	CR250600	BE08500	BF80012	AC23000	PA1003000	SS40
PRDC N 5050 U25	CR250600	BE08500	BF80012	AC23000	PA1003000	SS40
PRDC N 5050 V32	CR320600	BE10500	BF12520	AC26700	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212302200	212302300	PRSC R/L 2020 K10	20	20	125	28	25	RC.. 1003M0	0,400		
212302400	212302500	PRSC R/L 2525 M10	25	25	150	28	32	RC.. 1003M0	0,750		
212302600	212302700	PRSC R/L 3225 P10	32	25	170	28	32	RC.. 1003M0	1,050		
212302800	212302900	PRSC R/L 2020 K12	20	20	125	28	25	RC.. 1204M0	0,400		
212303000	212303100	PRSC R/L 2525 M12	25	25	150	28	32	RC.. 1204M0	0,750		
212303200	212303300	PRSC R/L 3225 P12	32	25	170	28	32	RC.. 1204M0	1,050		
212303500	212303400	PRSC R/L 2525 M16	25	25	150	34	32	RC.. 1606M0	0,750		
212020800	212020700	PRSC R/L 3225 P16	32	25	170	34	32	RC.. 1606M0	1,050		
212303700	212303600	PRSC R/L 3232 P20	32	32	170	42	40	RC.. 2006M0	1,300		
212303900	212303800	PRSC R/L 4040 S20	40	40	250	42	50	RC.. 2006M0	3,050		
212304100	212304000	PRSC R/L 4040 S25	40	40	250	45	50	RC.. 2507M0	3,050		
212020900	212304200	PRSC R/L 5050 T32	50	50	300	45	63	RC.. 3209M0	5,850		

Stock item | Produto de stock | Itens de stock

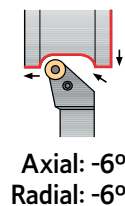
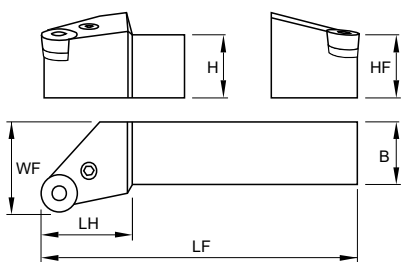
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Order separately

Cutter Reference	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PRSC R/L 2020 K10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRSC R/L 2525 M10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRSC R/L 3225 P10	CR100300	BE03800	BF40009	AC11700	PA0501400	SS20
PRSC R/L 2020 K12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRSC R/L 2525 M12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRSC R/L 3225 P12	CR120300	BE03800	BF40009	AC13300	PA0601700	SS25
PRSC R/L 2525 M16	CR160500	BE05400	BF47509	AC18000	PA0602100	SS25
PRSC R/L 3225 P16	CR160500	BE05400	BF47509	AC18000	PA0602100	SS25
PRSC R/L 3232 P20	CR200500	BE07000	BF65012	AC18700	PA0802400	SS30
PRSC R/L 4040 S20	CR200500	BE07000	BF65012	AC18700	PA0802400	SS30
PRSC R/L 4040 S25	CR250600	BE08500	BF80012	AC23000	PA0802400	SS40
PRSC R/L 5050 T32	CR320600	BE10500	BF12520	AC26700	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212046800	212304300	PRSN R/L 2020 K09	20	20	125	22	25	RNMG 090300	0,400		
212046900	212304400	PRSN R/L 2525 M12	25	25	150	28	32	RNMG 120400	0,750		
212047000	212304500	PRSN R/L 3225 P15	32	25	170	34	32	RNMG 150600	1,050		
212304600	212304700	PRSN R/L 3232 P19	32	32	170	42	40	RNMG 190600	1,300		
212304800	212304900	PRSN R/L 4040 S25	40	40	250	45	50	RNMG 250900	3,050		

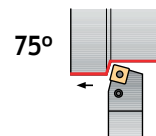
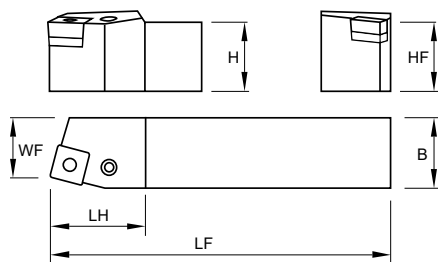
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PRSN R/L 2020 K09	CR090300	BE03800	BF40009	AN01200	PA0601700	SS25
PRSN R/L 2525 M12	CR120302	BE05500	BF47509	AN13100	PA0802100	SS30
PRSN R/L 3225 P15	CR150500	BE07000	BF65012	AN17200	PA0802400	SS30
PRSN R/L 3232 P19	CR190500	BE08500	BF80012	AN20800	PA1002700	SS40
PRSN R/L 4040 S25	CR250601	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Axial: -7,25°
Radial: -4,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212305000	212305100	PSBN R/L 1212 F09	12	12	80	18	11	SN.. 0903..	0,100		
212305200	212305300	PSBN R/L 1616 H09	16	16	100	22	13	SN.. 0903..	0,250		
212305400	212305500	PSBN R/L 2020 K09	20	20	125	22	17	SN.. 0903..	0,400		
212032200	212032300	PSBN R/L 2020 K12	20	20	125	28	17	SN.. 1204..	0,400		
212014300	212032400	PSBN R/L 2525 M12	25	25	150	28	22	SN.. 1204..	0,750		
212305600	212305700	PSBN R/L 3225 P12	32	25	170	28	22	SN.. 1204..	1,050		
212014400	212305800	PSBN R/L 2525 M15	25	25	150	34	22	SN.. 1506..	0,750		
212305900	212306000	PSBN R/L 3232 P15	32	32	170	34	27	SN.. 1506..	1,300		
212306100	212306200	PSBN R/L 3232 P19	32	32	170	42	27	SN.. 1906..	1,300		
212306300	212306400	PSBN R/L 4040 S19	40	40	250	45	35	SN.. 1906..	3,050		
212422500	212422600	PSBN R/L 5050 T19	50	50	300	50	43	SN.. 1906..	3,050		
212306500	212014100	PSBN R/L 4040 S25	40	40	250	45	35	SN.. 2507..	3,050		
212306600	212306700	PSBN R/L 5050 T25	50	50	300	45	43	SN.. 2507..	5,850		

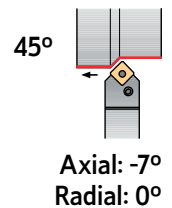
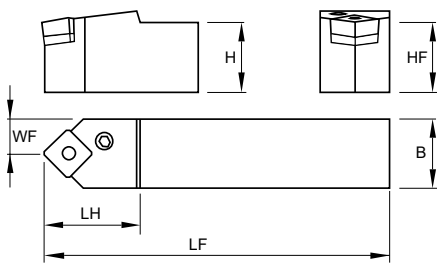
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PSBN R/L 1212 F09	-	-	-	AN07800	PA0501000	SS20
PSBN R/L 1616 H09	CS090301	BE03800	-	AN01200	PA0601700	SS25
PSBN R/L 2020 K09	CS090301	BE03800	-	AN01200	PA0601700	SS25
PSBN R/L 2020 K12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSBN R/L 2525 M12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSBN R/L 3225 P12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSBN R/L 2525 M15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSBN R/L 3232 P15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSBN R/L 3232 P19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSBN R/L 4040 S19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSBN R/L 5050 T19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSBN R/L 4040 S25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50
PSBN R/L 5050 T25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212306800	PSDN N 1010 E09	10	10	70	16	5,0	SN.. 0903..	0,070	☉
212306900	PSDN N 1212 F09	12	12	80	18	6,0	SN.. 0903..	0,100	☉
212307000	PSDN N 1616 H09	16	16	100	22	8,0	SN.. 0903..	0,250	☉
212056700	PSDN N 2020 K12	20	20	125	28	10,0	SN.. 1204..	0,400	☉
212307100	PSDN N 2525 M12	25	25	150	28	12,5	SN.. 1204..	0,750	☉
212307200	PSDN N 3225 P12	32	25	170	28	12,5	SN.. 1204..	1,050	☉
212307300	PSDN N 3232 P12	32	32	170	28	16,0	SN.. 1204..	1,300	☉
212307400	PSDN N 3225 P19	32	25	170	42	12,5	SN.. 1906..	1,050	☉
212249100	PSDN N 3232 P19	32	32	170	42	16,0	SN.. 1906..	1,300	☉
212307500	PSDN N 4040 S25	40	40	250	45	20,0	SN.. 2507..	3,050	☉
212307600	PSDN N 5050 T25	50	50	300	45	25,0	SN.. 2507..	5,850	☉

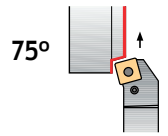
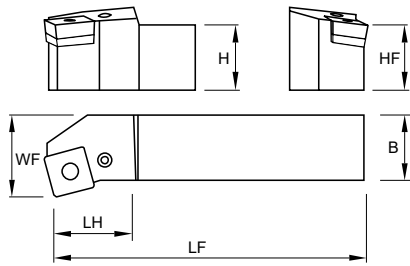
☉ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PSDN N 1010 E09	-	-	-	AN07800	PA0501000	SS20
PSDN N 1212 F09	-	-	-	AN07800	PA0501000	SS20
PSDN N 1616 H09	CS090301	BE03800	BF40009	AN01200	PA0601700	SS25
PSDN N 2020 K12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSDN N 2525 M12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSDN N 3225 P12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSDN N 3232 P12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSDN N 3225 P19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSDN N 3232 P19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSDN N 4040 S25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50
PSDN N 5050 T25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Axial: -4,25°
Radial: -7,25°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212307700	212307800	PSKN R/L 1616 H09	16	16	100	22	20	SN.. 0903..	0,250		
212307900	212308000	PSKN R/L 2020 K09	20	20	125	22	25	SN.. 0903..	0,400		
212032500	212032600	PSKN R/L 2020 K12	20	20	125	28	25	SN.. 1204..	0,400		
212032700	212032800	PSKN R/L 2525 M12	25	25	150	28	32	SN.. 1204..	0,750		
212308100	212308200	PSKN R/L 3225 P12	32	25	170	28	32	SN.. 1204..	1,050		
212308300	212308400	PSKN R/L 2525 M15	25	25	150	34	32	SN.. 1506..	0,750		
212308500	212308600	PSKN R/L 3232 P15	32	32	170	34	40	SN.. 1506..	1,300		
212308700	212308800	PSKN R/L 3232 P19	32	32	170	42	40	SN.. 1906..	1,300		
212308900	212309000	PSKN R/L 4040 S19	40	40	250	45	50	SN.. 1906..	3,050		
212309100	212309200	PSKN R/L 4040 S25	40	40	250	45	50	SN.. 2507..	3,050		
212309300	212309400	PSKN R/L 5050 T25	50	50	300	45	60	SN.. 2507..	5,850		

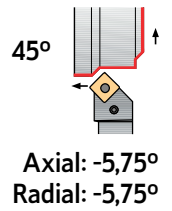
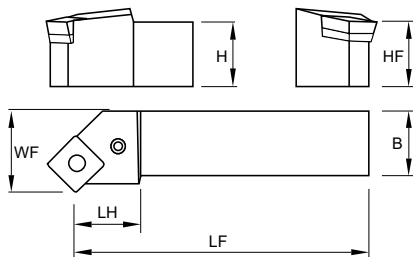
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PSKN R/L 1616 H09	CS090301	BE03800	BF40009	AN01200	PA0601700	SS25
PSKN R/L 2020 K09	CS090301	BE03800	BF40009	AN01200	PA0601700	SS25
PSKN R/L 2020 K12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSKN R/L 2525 M12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSKN R/L 3225 P12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSKN R/L 2525 M15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSKN R/L 3232 P15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSKN R/L 3232 P19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSKN R/L 4040 S19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSKN R/L 4040 S25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50
PSKN R/L 5050 T25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212066500	212309500	PSSN R/L 1616 H09	16	16	100	22	20	SN.. 0903..	0,250	⊗	⊗
212066600	212309600	PSSN R/L 2020 K09	20	20	125	22	25	SN.. 0903..	0,400	⊗	⊗
212032900	212033000	PSSN R/L 2020 K12	20	20	125	28	25	SN.. 1204..	0,400	⊗	⊗
212026600	212026700	PSSN R/L 2525 M12	25	25	150	28	32	SN.. 1204..	0,750	⊗	⊗
212309700	212309800	PSSN R/L 3225 P12	32	25	170	28	32	SN.. 1204..	1,050	⊗	⊗
212066700	212309900	PSSN R/L 2525 M15	25	25	150	34	32	SN.. 1506..	0,750	⊗	⊗
212420500	212420600	PSSN R/L 3225 P15	32	25	170	42	32	SN.. 1506..	1,050	○	○
212066800	212015400	PSSN R/L 3232 P15	32	32	170	34	40	SN.. 1506..	1,300	⊗	⊗
212066900	212310000	PSSN R/L 3232 P19	32	32	170	42	40	SN.. 1906..	1,300	⊗	⊗
212067000	212310100	PSSN R/L 4040 S19	40	40	250	45	50	SN.. 1906..	3,050	⊗	⊗
212310200	212310300	PSSN R/L 5050 T19	50	50	300	45	60	SN.. 1906..	5,850	⊗	⊗
212310400	212310500	PSSN R/L 4040 S25	40	40	250	45	50	SN.. 2507..	3,050	⊗	⊗
212310600	212310700	PSSN R/L 5050 T25	50	50	300	45	60	SN.. 2507..	5,850	⊗	⊗

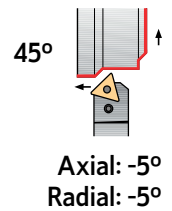
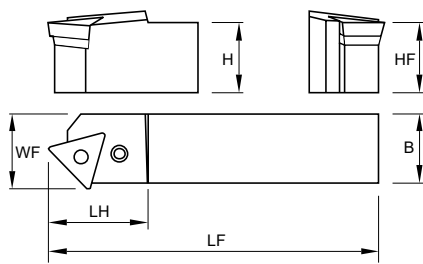
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PSSN R/L 1616 H09	CS090301	BE03800	BF40009	AN01200	PA0601700	SS25
PSSN R/L 2020 K09	CS090301	BE03800	BF40009	AN01200	PA0601700	SS25
PSSN R/L 2020 K12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSSN R/L 2525 M12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSSN R/L 3225 P12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
PSSN R/L 2525 M15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSSN R/L 3225 P15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSSN R/L 3232 P15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
PSSN R/L 3232 P19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSSN R/L 4040 S19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSSN R/L 5050 T19	CS190400	BE08500	BF80012	AN20800	PA1002700	SS40
PSSN R/L 4040 S25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50
PSSN R/L 5050 T25	CS250600	BE10500	BF12520	AN25200	PA1203600	SS50

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212310800	212310900	PTDN R/L 2525 M22	25	25	150	34	27	TN., 2204..	0,750		
212311000	212311100	PTDN R/L 3225 P22	32	25	170	34	27	TN., 2204..	1,050		

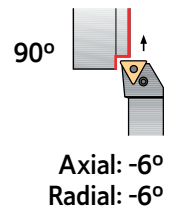
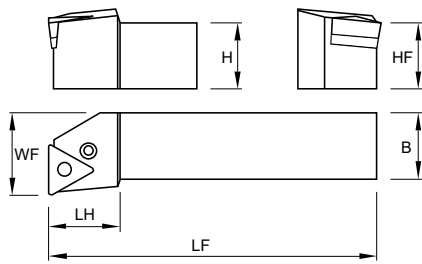
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PTDN R/L 2525 M22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTDN R/L 3225 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212056500	212311200	PTFN R/L 1616 H16	16	16	100	22	20	TN.. 1604..	0,250		
212031700	212015800	PTFN R/L 2020 K16	20	20	125	22	25	TN.. 1604..	0,400		
212036500	212015900	PTFN R/L 2525 M16	25	25	150	22	32	TN.. 1604..	0,750		
212311300	212311400	PTFN R/L 3225 P16	32	25	170	22	32	TN.. 1604..	1,050		
212031800	212311500	PTFN R/L 2525 M22	25	25	150	28	32	TN.. 2204..	0,750		
212016300	212311600	PTFN R/L 3225 P22	32	25	170	28	32	TN.. 2204..	1,050		
212311700	212311800	PTFN R/L 3232 P22	32	32	170	28	40	TN.. 2204..	1,300		
212311900	212312000	PTFN R/L 3232 P27	32	32	170	42	40	TN.. 2706..	1,300		
212312100	212312200	PTFN R/L 4040 S27	40	40	250	45	50	TN.. 2706..	3,050		

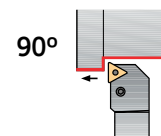
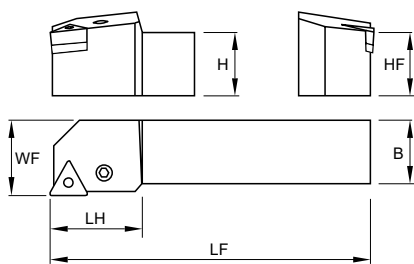
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PTFN R/L 1616 H16						
PTFN R/L 2020 K16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTFN R/L 2525 M16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTFN R/L 3225 P16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTFN R/L 2525 M22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTFN R/L 3225 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTFN R/L 3232 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTFN R/L 3232 P27	CT270500	BE05500	BF65012	AN17200	PA0802400	SS30
PTFN R/L 4040 S27	CT270500	BE05500	BF65012	AN17200	PA0802400	SS30

(P) LEVER LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212052700	212312300	PTGN R/L 1616 H16	16	16	100	22	20	TN.. 1604..	0,250		
212031900	212016500	PTGN R/L 2020 K16	20	20	125	22	25	TN.. 1604..	0,400		
212026500	212037400	PTGN R/L 2525 M16	25	25	150	22	32	TN.. 1604..	0,750		
212312400	212312500	PTGN R/L 3225 P16	32	25	170	22	32	TN.. 1604..	1,050		
212032000	212032100	PTGN R/L 2525 M22	25	25	150	28	32	TN.. 2204..	0,750		
212312600	212312700	PTGN R/L 3225 P22	32	25	170	28	32	TN.. 2204..	1,050		
212058500	212312800	PTGN R/L 3232 P22	32	32	170	28	40	TN.. 2204..	1,300		
212058600	212312900	PTGN R/L 4040 S22	40	40	250	34	50	TN.. 2204..	3,050		
212066100	212313000	PTGN R/L 3232 P27	32	32	170	42	40	TN.. 2706..	1,300		
212313100	212313200	PTGN R/L 4040 S27	40	40	250	45	50	TN.. 2706..	3,050		
212250300	212313300	PTGN R/L 5050 T33	50	50	300	45	60	TN.. 3307..	5,850		

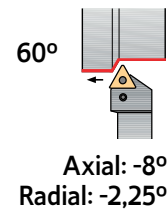
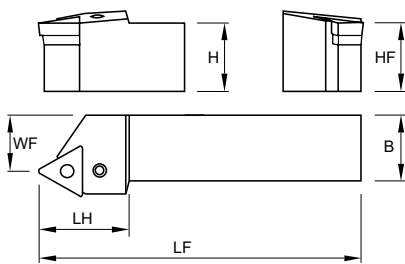
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PTGN R/L 1616 H16						
PTGN R/L 1616 H16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTGN R/L 2020 K16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTGN R/L 2525 M16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTGN R/L 3225 P16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTGN R/L 2525 M22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTGN R/L 3225 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTGN R/L 3232 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTGN R/L 4040 S22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTGN R/L 3232 P27	CT270500	BE07000	BF65012	AN17200	PA0802400	SS30
PTGN R/L 4040 S27	CT270500	BE07000	BF65012	AN17200	PA0802400	SS30
PTGN R/L 5050 T33	CT330500	BE08301	BF80012	AN20800	PA1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212313400	212313500	PTTN R/L 1616 H16	16	16	100	25	13	TN.. 1604..	0,250		
212313600	212313700	PTTN R/L 2020 K16	20	20	125	28	17	TN.. 1604..	0,400		
212313800	212313900	PTTN R/L 2525 M16	25	25	150	28	22	TN.. 1604..	0,750		
212314000	212314100	PTTN R/L 2525 M22	25	25	150	34	22	TN.. 2204..	0,750		
212314200	212314300	PTTN R/L 3225 P22	32	25	170	34	22	TN.. 2204..	1,050		

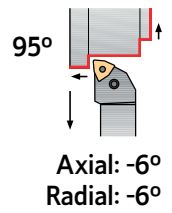
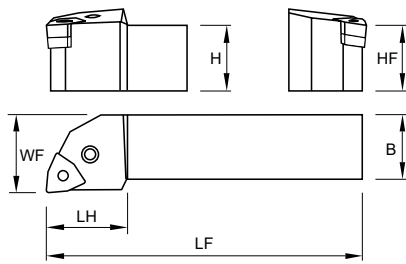
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PTTN R/L 1616 H16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTTN R/L 2020 K16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTTN R/L 2525 M16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
PTTN R/L 2525 M22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
PTTN R/L 3225 P22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS

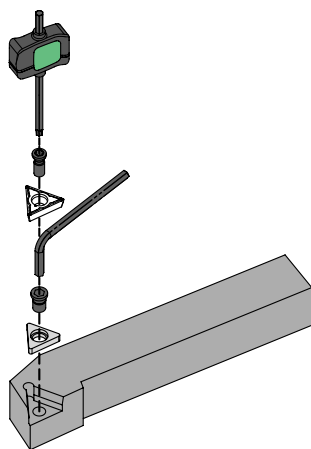


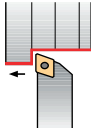
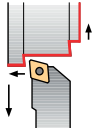
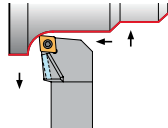
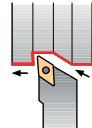
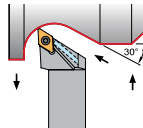
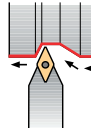
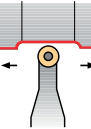
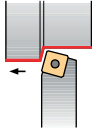
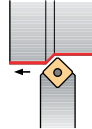
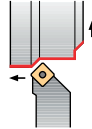
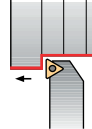
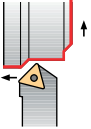
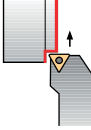
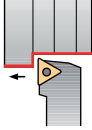
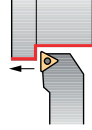
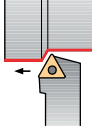
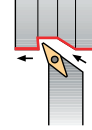
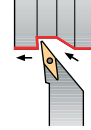
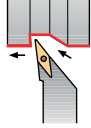
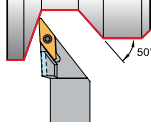
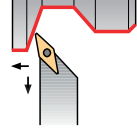
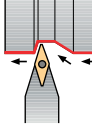
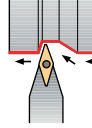
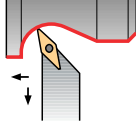
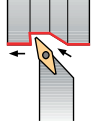
Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212314400	212314500	PWLN R/L 1616 H06	16	16	100	15	20	WN.. 0604..	0,250	⊗	⊗
212314600	212046500	PWLN R/L 2020 K06	20	20	125	25	25	WN.. 0604..	0,400	⊗	⊗
212314700	212314800	PWLN R/L 2525 M06	25	25	150	25	32	WN.. 0604..	0,750	⊗	⊗
212049300	212314900	PWLN R/L 2020 K08	20	20	125	34	25	WN.. 0804..	0,400	⊗	⊗
212052800	212079100	PWLN R/L 2525 M08	25	25	150	34	32	WN.. 0804..	0,750	⊗	⊗
212046600	212315000	PWLN R/L 3225 P08	32	25	170	34	32	WN.. 0804..	1,050	⊗	⊗
212058000	212315100	PWLN R/L 3232 P08	32	32	170	34	40	WN.. 0804..	1,300	⊗	⊗

SPARE PARTS Acessórios | Repuestos

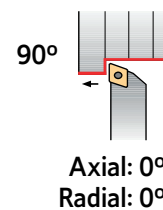
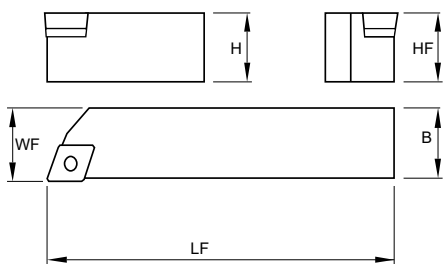
Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
PWLN R/L 1616 H06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
PWLN R/L 2020 K06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
PWLN R/L 2525 M06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
PWLN R/L 2020 K08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30
PWLN R/L 2525 M08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30
PWLN R/L 3225 P08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30
PWLN R/L 3232 P08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30

(S) CENTER SCREW SYSTEM



<p>SCAC 90°</p>  <p>PAGE C - 718 CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>SCLC 95°</p>  <p>PAGE C - 719 CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>NEW SCLC 95°-A</p>  <p>PAGE C - 720 CC.. 09T3..</p>	<p>SDJC 93°</p>  <p>PAGE C - 721 DC.. 0702.. DC.. 11T3..</p>	<p>NEW SDJC 93°-A</p>  <p>PAGE C - 722 DC.. 11T3..</p>	<p>SDNC 62°30'</p>  <p>PAGE C - 723 DC.. 0702.. DC.. 11T3..</p>
<p>SRDC</p>  <p>PAGE C - 724 RC.. 0602M0.. ... RC.. 1204M0..</p>	<p>SSBC 75°</p>  <p>PAGE C - 725 SC.. 09T3.. SC.. 1204..</p>	<p>SSDC 45°</p>  <p>PAGE C - 726 SC.. 09T3.. SC.. 1204..</p>	<p>SSSC 45°</p>  <p>PAGE C - 727 SC.. 09T3.. SC.. 1204..</p>	<p>STAC 90°</p>  <p>PAGE C - 728 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>STDC 45°</p>  <p>PAGE C - 729 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>
<p>STFC 90°</p>  <p>PAGE C - 730 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>STGC 90°</p>  <p>PAGE C - 731 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>STJC 93°</p>  <p>PAGE C - 732 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>STTC 60°</p>  <p>PAGE C - 733 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>SVHC 107°30'</p>  <p>PAGE C - 734 VC.. 1604..</p>	<p>SVJB 93°</p>  <p>PAGE C - 734 VB.. 1604..</p>
<p>SVJC 93°</p>  <p>PAGE C - 736 VC.. 1103.. VC.. 1604..</p>	<p>NEW SVJC 93°-A</p>  <p>PAGE C - 737 VC.. 1604..</p>	<p>SVLC 95°</p>  <p>PAGE C - 738 VC.. 1303..</p>	<p>SVVB 72°30'</p>  <p>PAGE C - 739 VB.. 1604..</p>	<p>SVVC 72°30'</p>  <p>PAGE C - 740 VC.. 1103.. VC.. 1604..</p>	<p>SVXC 113°</p>  <p>PAGE C - 741 VC.. 1803..</p>
<p>SVZC 100°</p>  <p>PAGE C - 742 VC.. 1604..</p>					

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)				Insert	WT	Stock	
R	L		HF = H	B	LF	WF			R	L
212139500	212139400	SCAC R/L 0808 D06	8	8	60	8,5	CC.. 0602..	0,050		
212139700	212139600	SCAC R/L 1010 E06	10	10	70	10,5	CC.. 0602..	0,070		
212139900	212139800	SCAC R/L 1212 F09	12	12	80	12,5	CC.. 09T3..	0,100		
212140100	212140000	SCAC R/L 1616 H09	16	16	100	16,5	CC.. 09T3..	0,200		
212140300	212140200	SCAC R/L 2020 K12	20	20	125	20,5	CC.. 1204..	0,400		
212140500	212140400	SCAC R/L 2525 M12	25	25	150	25,5	CC.. 1204..	0,700		

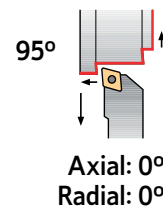
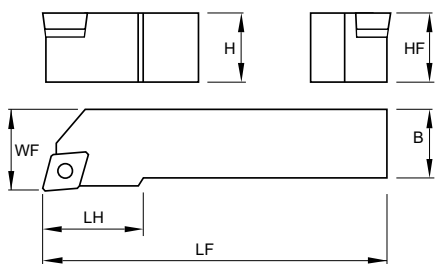
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SCAC R/L 0808 D06	-	-	P0250700	XT07
SCAC R/L 1010 E06	-	-	P0250700	XT07
SCAC R/L 1212 F09	-	-	P0401100	XT15-S35
SCAC R/L 1616 H09	-	-	P0401100	XT15-S35
SCAC R/L 2020 K12	CC120401	T06004000	P0401400	XT15-S40
SCAC R/L 2525 M12	CC120401	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212140700	212140600	SCLC R/L 0808 D06	8	8	60	10	10	CC.. 0602..	0,050		
212045400	212140800	SCLC R/L 1010 E06	10	10	70	10	12	CC.. 0602..	0,070		
212037100	212140900	SCLC R/L 1212 F09	12	12	80	16	16	CC.. 09T3..	0,100		
212047600	212141000	SCLC R/L 1616 H09	16	16	100	18	20	CC.. 09T3..	0,200		
212037500	212141100	SCLC R/L 2020 K09	20	20	125	22	25	CC.. 09T3..	0,400		
212037700	212141200	SCLC R/L 2020 K12	20	20	125	25	25	CC.. 1204..	0,400		
212037900	212141300	SCLC R/L 2525 M12	25	25	150	25	32	CC.. 1204..	0,700		

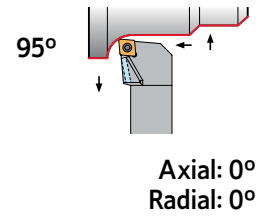
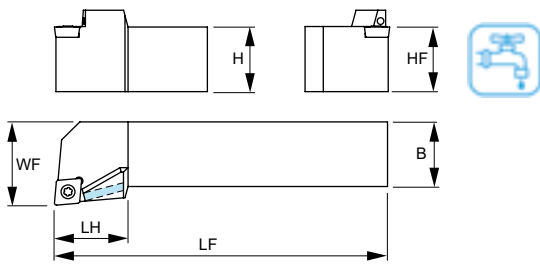
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SCLC R/L 0808 D06	-	-	P0250700	XT07
SCLC R/L 1010 E06	-	-	P025070	XT07
SCLC R/L 1212 F09	-	-	P0401100	XT15-S35
SCLC R/L 1616 H09	-	-	P0401100	XT15-S35
SCLC R/L 2020 K09	-	-	P0401100	XT15-S35
SCLC R/L 2020 K12	CC120401	T06004000	P0401400	XT15-S40
SCLC R/L 2525 M12	CC120401	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212471300	212471100	SCLC R/L 2020 K09-A	20	20	125	22	25	CC.. 09T3..	0,400	○	○
212471400	212471200	SCLC R/L 2525 M09-A	25	25	150	28	32	CC.. 09T3..	0,750	○	○

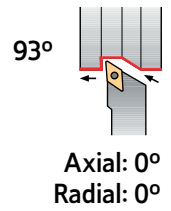
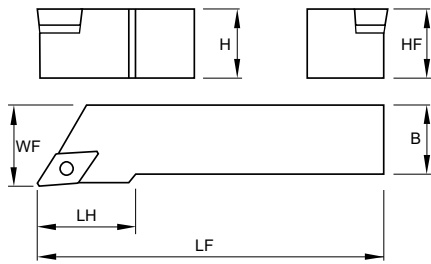
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
SCLC R/L 2020 K09-A	P0401100	XT15-S35	H0600475	H1000875	T1000875
SCLC R/L 2525 M09-A	P0401100	XT15-S35	H0600475	H1000875	T1000875

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212143800	212143700	SDJC R/L 1010 E07	10	10	70	16	12	DC.. 0702..	0,070		
212021500	212143900	SDJC R/L 1212 F07	12	12	80	18	16	DC.. 0702..	0,100		
212420700	212420800	SDJC R/L 1616 H07	16	16	100	16	20	DC.. 0702..	0,150		
212021600	212144000	SDJC R/L 1212 F11	12	12	80	20	16	DC.. 11T3..	0,100		
212035100	212035200	SDJC R/L 1616 H11	16	16	100	18	20	DC.. 11T3..	0,200		
212036200	212035300	SDJC R/L 2020 K11	20	20	125	23	25	DC.. 11T3..	0,400		
212042600	212144100	SDJC R/L 2525 M11	25	25	150	22	32	DC.. 11T3..	0,700		

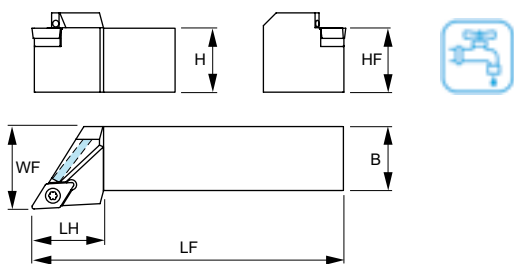
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

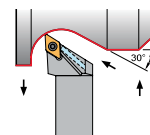
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SDJC R/L 1010 E07	-	-	P0250700	XT07
SDJC R/L 1212 F07	-	-	P0250700	XT07
SDJC R/L 1616 H07	-	-	P0250700	XT07
SDJC R/L 1212 F11	-	-	P0401100	XT15-S35
SDJC R/L 1616 H11	CD110301	T05003500	P0351500	XT15-S35
SDJC R/L 2020 K11	CD110301	T05003500	P0351500	XT15-S35
SDJC R/L 2525 M11	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



93°



Axial: 0°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212471700	212471500	SDJC R/L 2020 K11-A	20	20	125	22	25	DC.. 11T3..	0,400	○	○
212471800	212471600	SDJC R/L 2525 M11-A	25	25	150	28	32	DC.. 11T3..	0,750	○	○

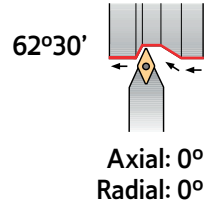
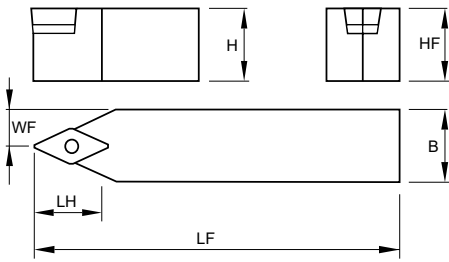
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
SDJC R/L 2020 K11-A	CD110301	T05003500	P0351500	XT15-S35	H0600475	H1000875	T1000875
SDJC R/L 2525 M11-A	CD110301	T05003500	P0351500	XT15-S35	H0600475	H1000875	T1000875

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212144200	SDNC N 0808 D07	8	8	60	16	4,0	DC.. 0702..	0,050	
212144300	SDNC N 1010 E07	10	10	70	16	5,0	DC.. 0702..	0,070	
212144400	SDNC N 1212 F07	12	12	80	18	6,0	DC.. 0702..	0,100	
212259700	SDNC N 1616 H11	16	16	100	22	8,0	DC.. 11T3..	0,200	
212144500	SDNC N 2020 K11	20	20	125	22	10,0	DC.. 11T3..	0,400	
212259800	SDNC N 2525 M11	25	25	150	22	12,5	DC.. 11T3..	0,700	

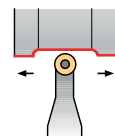
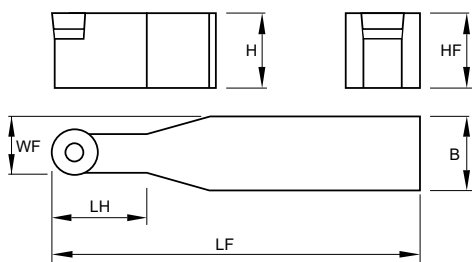
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SDNC N 0808 D07	-	-	P0250700	XT07
SDNC N 1010 E07	-	-	P0250700	XT07
SDNC N 1212 F07	-	-	P0250700	XT07
SDNC N 1616 H11	CD110301	T05003500	P0351500	XT15-S35
SDNC N 2020 K11	CD110301	T05003500	P0351500	XT15-S35
SDNC N 2525 M11	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code	Reference	Dimensions (mm)					Insert	Kg	Stock
		HF = H	B	LF	LH	WF			
212148500	SRDC N 1010 E06	10	10	70	10	8,0	RC.. 0602M0	0,070	☉
212148600	SRDC N 1212 F06	12	12	80	12	11,0	RC.. 0602M0	0,100	☉
212058700	SRDC N 1616 H06	16	16	100	16	13,0	RC.. 0602M0	0,200	☉
212053400	SRDC N 2020 K06	20	20	125	20	15,0	RC.. 0602M0	0,400	☉
212040000	SRDC N 2525 M06	25	25	150	25	17,5	RC.. 0602M0	0,700	☉
212148700	SRDC N 1616 H08	16	16	100	16	13,0	RC.. 0803M0	0,200	☉
212024400	SRDC N 2020 K08	20	20	125	20	15,0	RC.. 0803M0	0,400	☉
212148800	SRDC N 2525 M08	25	25	150	25	17,5	RC.. 0803M0	0,700	☉
212049500	SRDC N 2020 K10	20	20	125	22	15,0	RC.. 10T3M0	0,400	☉
212040100	SRDC N 2525 M10	25	25	150	22	17,5	RC.. 10T3M0	0,700	☉
212259900	SRDC N 2020 K12	20	20	125	28	16,0	RC.. 1204M0	0,400	☉
212050800	SRDC N 2525 M12	25	25	150	28	18,5	RC.. 1204M0	0,700	☉
212058800	SRDC N 3225 P12	32	25	170	28	18,5	RC.. 1204M0	0,900	☉
212148900	SRDC N 3232 P12	32	32	170	28	22,0	RC.. 1204M0	1,200	☉

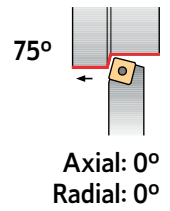
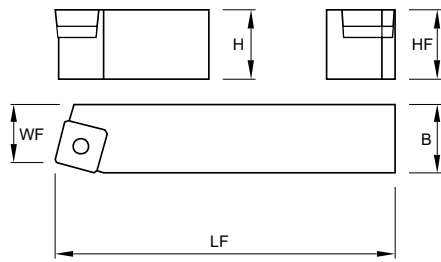
☉ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SRDC N 1010 E06	-	-	P0250700	XT07
SRDC N 1212 F06	-	-	P0250700	XT07
SRDC N 1616 H06	-	-	P0250700	XT07
SRDC N 2020 K06	-	-	P0250700	XT07
SRDC N 2525 M06	-	-	P0250700	XT07
SRDC N 1616 H08	-	-	P0300900	XT08
SRDC N 2020 K08	-	-	P0300900	XT08
SRDC N 2525 M08	-	-	P0300900	XT08
SRDC N 2020 K10	CR100301	T05003500	P0351500	XT15-S35
SRDC N 2525 M10	CR100301	T05003500	P0351500	XT15-S35
SRDC N 2020 K12	CR120301	T05003500	P0351500	XT15-S35
SRDC N 2525 M12	CR120301	T05003500	P0351500	XT15-S35
SRDC N 3225 P12	CR120301	T05003500	P0351500	XT15-S35
SRDC N 3232 P12	CR120301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)				Insert	WT	Stock	
R	L		HF = H	B	LF	WF			R	L
212149100	212149000	SSBC R/L 1212 F09	12	12	80	11	SC.. 09T3..	0,100		
212045700	212149200	SSBC R/L 1616 H09	16	16	100	13	SC.. 09T3..	0,200		
212149400	212149300	SSBC R/L 2020 K12	20	20	125	17	SC.. 1204..	0,400		
212149600	212149500	SSBC R/L 2525 M12	25	25	150	22	SC.. 1204..	0,700		

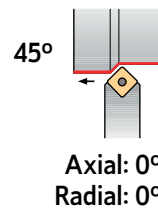
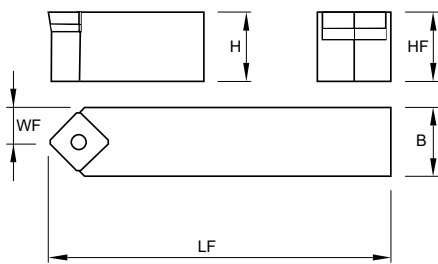
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SSBC R/L 1212 F09	-	-	P0401100	XT15-S35
SSBC R/L 1616 H09	-	-	P0401100	XT15-S35
SSBC R/L 2020 K12	CS120400	T06004000	P0401400	XT15-S40
SSBC R/L 2525 M12	CS120400	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)				Insert	WT	Stock
		HF = H	B	LF	WF			
212149700	SSDC N 1212 F09	12	12	80	6,0	SC.. 09T3..	0,100	⊗
212050900	SSDC N 1616 H09	16	16	100	8,0	SC.. 09T3..	0,200	⊗
212046000	SSDC N 2020 K12	20	20	125	10,0	SC.. 1204..	0,400	⊗
212076800	SSDC N 2525 M12	25	25	150	12,5	SC.. 1204..	0,700	⊗

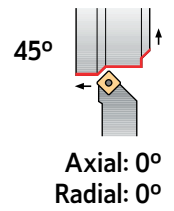
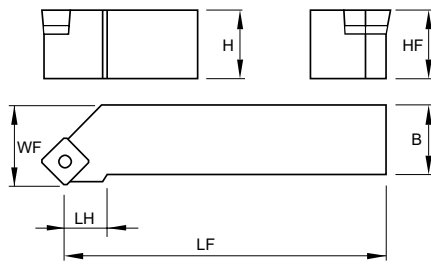
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SSDC N 1212 F09	-	-	P0401100	XT15-S35
SSDC N 1616 H09	-	-	P0401100	XT15-S35
SSDC N 2020 K12	CS120400	T06004000	P0401400	XT15-S40
SSDC N 2525 M12	CS120400	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS

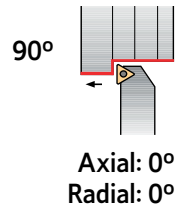
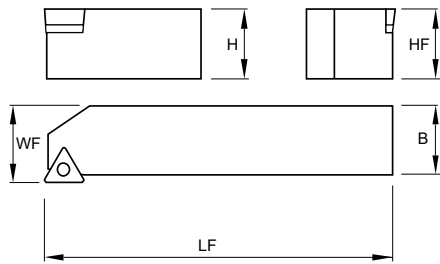


Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212149900	212149800	SSSC R/L 1212 F09	12	12	80	11	16	SC.. 09T3..	0,100		
212150100	212150000	SSSC R/L 1616 H09	16	16	100	22	20	SC.. 09T3..	0,200		
212021900	212150200	SSSC R/L 2020 K12	20	20	125	22	25	SC.. 1204..	0,400		
212042700	212021800	SSSC R/L 2525 M12	25	25	150	22	32	SC.. 1204..	0,700		

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SSSC R/L 1212 F09	-	-	P0401100	XT15-S35
SSSC R/L 1616 H09	-	-	P0401100	XT15-S35
SSSC R/L 2020 K12	CS120400	T06004000	P0401400	XT15-S40
SSSC R/L 2525 M12	CS120400	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)				Insert	WT	Stock	
R	L		HF = H	B	LF	WF			R	L
212151400	212151300	STAC R/L 0808 D09	8	8	60	8,5	TC.. 0902..	0,050		
212151600	212151500	STAC R/L 1010 E09	10	10	70	10,5	TC.. 0902..	0,070		
212151800	212151700	STAC R/L 1212 F11	12	12	80	12,5	TC.. 1102..	0,100		
212152000	212151900	STAC R/L 1616 H11	16	16	100	16,5	TC.. 1102..	0,200		
212152200	212152100	STAC R/L 1616 H16	16	16	100	16,5	TC.. 16T3..	0,200		
212260000	212260100	STAC R/L 2020 K16	20	20	125	20,5	TC.. 16T3..	0,400		
212152600	212152400	STAC R/L 2525 M16	25	25	150	25,5	TC.. 16T3..	0,700		

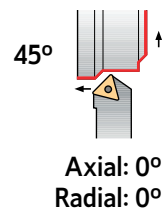
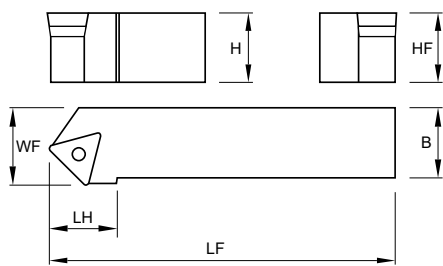
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STAC R/L 0808 D09	-	-	P0220600	XT06
STAC R/L 1010 E09	-	-	P0220600	XT06
STAC R/L 1212 F11	-	-	P0250700	XT07
STAC R/L 1616 H11	-	-	P0250700	XT07
STAC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STAC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STAC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212152800	212152700	STDC R/L 0808 D09	8	8	60	11	10	TC.. 0902..	0,050		
212153000	212152900	STDC R/L 1010 E09	10	10	70	11	11	TC.. 0902..	0,070		
212153200	212153100	STDC R/L 1212 F11	12	12	80	16	13	TC.. 1102..	0,100		
212153400	212153300	STDC R/L 1616 H11	16	16	100	16	17	TC.. 1102..	0,200		
212153600	212153500	STDC R/L 1212 F16	12	12	80	21	17	TC.. 16T3..	0,100		
212153800	212153700	STDC R/L 1616 H16	16	16	100	21	17	TC.. 16T3..	0,200		
212154000	212153900	STDC R/L 2020 K16	20	20	125	21	22	TC.. 16T3..	0,400		
212154200	212154100	STDC R/L 2525 M16	25	25	150	21	27	TC.. 16T3..	0,700		

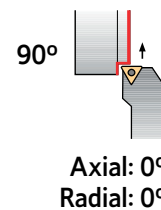
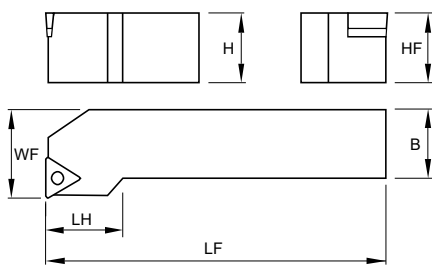
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STDC R/L 0808 D09	-	-	P0220600	XT06
STDC R/L 1010 E09	-	-	P0220600	XT06
STDC R/L 1212 F11	-	-	P0250700	XT07
STDC R/L 1616 H11	-	-	P0250700	XT07
STDC R/L 1212 F16	-	-	P0401100	XT15-S35
STDC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STDC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STDC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212154400	212154300	STFC R/L 0808 D09	8	8	60	16	10	TC.. 0902..	0,050		
212154600	212154500	STFC R/L 1010 E09	10	10	70	16	12	TC.. 0902..	0,070		
212154800	212154700	STFC R/L 1212 F11	12	12	80	18	16	TC.. 1102..	0,100		
212065800	212154900	STFC R/L 1616 H11	16	16	100	22	20	TC.. 1102..	0,200		
212155100	212155000	STFC R/L 1212 F16	12	12	80	18	16	TC.. 16T3..	0,100		
212056800	212155200	STFC R/L 1616 H16	16	16	100	22	20	TC.. 16T3..	0,200		
212056600	212155300	STFC R/L 2020 K16	20	20	125	22	25	TC.. 16T3..	0,400		
212155500	212155400	STFC R/L 2525 M16	25	25	150	22	32	TC.. 16T3..	0,700		

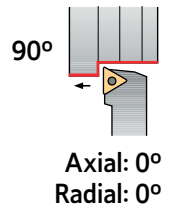
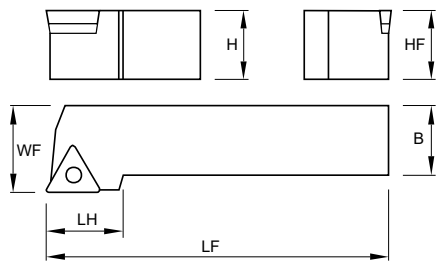
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STFC R/L 0808 D09	-	-	P0220600	XT06
STFC R/L 1010 E09	-	-	P0220600	XT06
STFC R/L 1212 F11	-	-	P0250700	XT07
STFC R/L 1616 H11	-	-	P0250700	XT07
STFC R/L 1212 F16	-	-	P0401100	XT15-S35
STFC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STFC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STFC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212155700	212155600	STGC R/L 0808 D09	8	8	60	16	10	TC.. 0902..	0,050		
212155900	212155800	STGC R/L 1010 E09	10	10	70	16	12	TC.. 0902..	0,070		
212156100	212156000	STGC R/L 1212 F11	12	12	80	18	16	TC.. 1102..	0,100		
212046100	212156200	STGC R/L 1616 H11	16	16	100	22	20	TC.. 1102..	0,200		
212156400	212156300	STGC R/L 1212 F16	12	12	80	18	16	TC.. 16T3..	0,100		
212156600	212156500	STGC R/L 1616 H16	16	16	100	22	20	TC.. 16T3..	0,200		
212156800	212156700	STGC R/L 2020 K16	20	20	125	22	25	TC.. 16T3..	0,400		
212157000	212156900	STGC R/L 2525 M16	25	25	150	22	32	TC.. 16T3..	0,700		

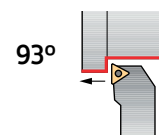
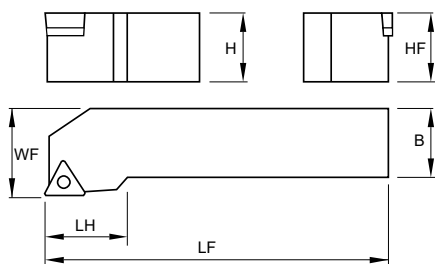
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STGC R/L 0808 D09	-	-	P0220600	XT06
STGC R/L 1010 E09	-	-	P0220600	XT06
STGC R/L 1212 F11	-	-	P0250700	XT07
STGC R/L 1616 H11	-	-	P0250700	XT07
STGC R/L 1212 F16	-	-	P0401100	XT15-S35
STGC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STGC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STGC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212157200	212157100	STJC R/L 0808 D09	8	8	60	16	10	TC.. 0902..	0,050		
212157400	212157300	STJC R/L 1010 E09	10	10	70	16	12	TC.. 0902..	0,070		
212157600	212157500	STJC R/L 1212 F11	12	12	80	18	16	TC.. 1102..	0,100		
212035400	212035500	STJC R/L 1616 H11	16	16	100	22	20	TC.. 1102..	0,200		
212157800	212157700	STJC R/L 1212 F16	12	12	80	18	16	TC.. 16T3..	0,100		
212035600	212035700	STJC R/L 1616 H16	16	16	100	22	20	TC.. 16T3..	0,200		
212036300	212031000	STJC R/L 2020 K16	20	20	125	22	25	TC.. 16T3..	0,400		
212038600	212038700	STJC R/L 2525 M16	25	25	150	22	32	TC.. 16T3..	0,700		

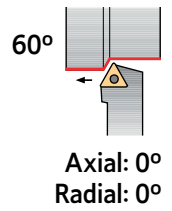
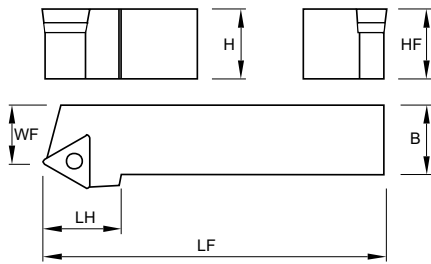
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STJC R/L 0808 D09	-	-	P0220600	XT06
STJC R/L 1010 E09	-	-	P0220600	XT06
STJC R/L 1212 F11	-	-	P0250700	XT07
STJC R/L 1616 H11	-	-	P0250700	XT07
STJC R/L 1212 F16	-	-	P0401100	XT15-S35
STJC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STJC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STJC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212158000	212157900	STTC R/L 0808 D09	8	8	60	16	7	TC.. 0902..	0,050		
212158200	212158100	STTC R/L 1010 E09	10	10	70	16	9	TC.. 0902..	0,070		
212158400	212158300	STTC R/L 1212 F11	12	12	80	18	11	TC.. 1102..	0,100		
212047500	212158500	STTC R/L 1616 H11	16	16	100	18	13	TC.. 1102..	0,200		
212158700	212158600	STTC R/L 1212 F16	12	12	80	22	11	TC.. 16T3..	0,100		
212158900	212158800	STTC R/L 1616 H16	16	16	100	22	13	TC.. 16T3..	0,200		
212159100	212159000	STTC R/L 2020 K16	20	20	125	22	17	TC.. 16T3..	0,400		
212159300	212159200	STTC R/L 2525 M16	25	25	150	22	22	TC.. 16T3..	0,700		

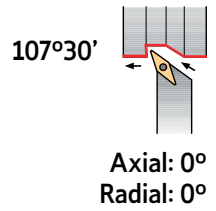
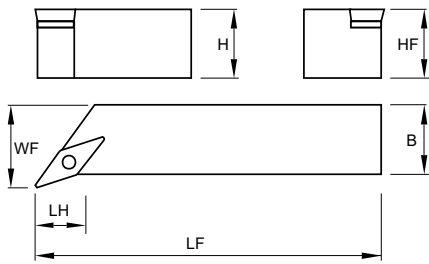
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
STTC R/L 0808 D09	-	-	P0220600	XT06
STTC R/L 1010 E09	-	-	P0220600	XT06
STTC R/L 1212 F11	-	-	P0250700	XT07
STTC R/L 1616 H11	-	-	P0250700	XT07
STTC R/L 1212 F16	-	-	P0401100	XT15-S35
STTC R/L 1616 H16	CT160302	T05003500	P0351500	XT15-S35
STTC R/L 2020 K16	CT160302	T05003500	P0351500	XT15-S35
STTC R/L 2525 M16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212161000	212160900	SVHC R/L 2020 K16	20	20	125	15,4	25	VC.. 1604..	0,400		
212161200	212161100	SVHC R/L 2525 M16	25	25	150	21,0	32	VC.. 1604..	0,700		
212161400	212161300	SVHC R/L 3225 P16	32	25	170	21,0	32	VC.. 1604..	0,900		
212161500	212161600	SVHC R/L 2525 M22	25	25	150	19,6	32	VC.. 2205..	0,700		
212161700	212161800	SVHC R/L 3225 P22	32	25	170	19,6	32	VC.. 2205..	0,900		

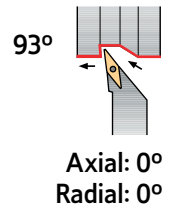
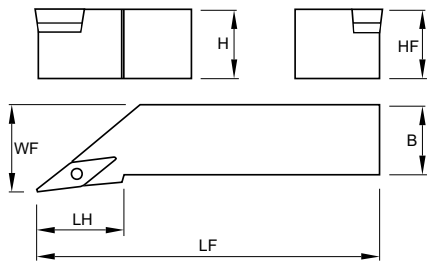
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVHC R/L 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVHC R/L 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVHC R/L 3225 P16	CV160300	T05003500	P0351500	XT15-S35
SVHC R/L 2525 M22	CV220400	T06004000	P0401400	XT20-S40
SVHC R/L 3225 P22	CV220400	T06004000	P0401400	XT20-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212055300	212363000	SVJB R/L 2020 K16	20	20	125	37	25	VB.. 1604..	0,400		
212022200	212022000	SVJB R/L 2525 M16	25	25	150	37	32	VB.. 1604..	0,700		
212022300	212022100	SVJB R/L 3225 P16	32	25	170	37	32	VB.. 1604..	0,900		

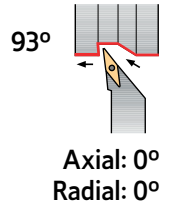
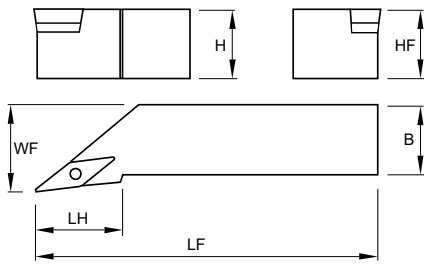
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVJB R/L 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVJB R/L 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVJB R/L 3225 P16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212161900	212162000	SVJC R/L 1212 F11	12	12	80	20	16	VC.. 1103..	0,100		
212056400	212162100	SVJC R/L 1616 H11	16	16	100	25	20	VC.. 1103..	0,200		
212162200	212162300	SVJC R/L 2020 K11	20	20	125	28	25	VC.. 1103..	0,400		
212392400	212420900	SVJC R/L 2525 M11	25	25	150	34	32	VC.. 1103..	0,700		
212031100	212031200	SVJC R/L 2020 K16	20	20	125	37	25	VC.. 1604..	0,400		
212031300	212031400	SVJC R/L 2525 M16	25	25	150	37	32	VC.. 1604..	0,700		
212162500	212162400	SVJC R/L 3225 P16	32	25	170	37	32	VC.. 1604..	0,900		

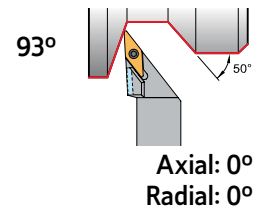
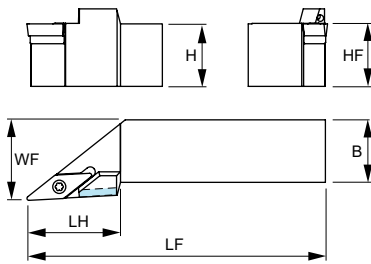
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVJC R/L 1212 F11	-	-	P0250700	XT07
SVJC R/L 1616 H11	-	-	P0250700	XT07
SVJC R/L 2020 K11	-	-	P0250700	XT07
SVJC R/L 2525 M11	-	-	P0250700	XT07
SVJC R/L 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVJC R/L 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVJC R/L 3225 P16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212472100	212471900	SVJC R/L 2020 K11-A	20	20	125	28	25	VC.. 1103..	0,400	○	○
212472200	212472000	SVJC R/L 2525 M16-A	25	25	150	34	32	VC.. 1604..	0,700	○	○

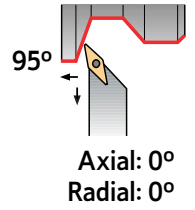
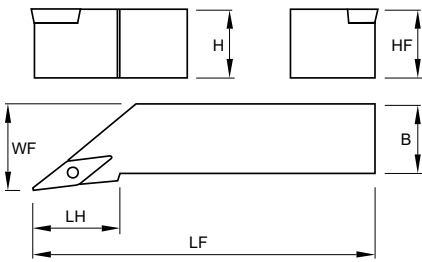
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench	Cooling Screw 1	Cooling Screw 2	Cooling Screw 3
SVJC R/L 2020 K11-A	-	-	P0250700	XT07	H0600475	H1000875	T1000875
SVJC R/L 2525 M16-A	CV160300	T05003500	P0351500	XT15-35	H0600475	H1000875	T1000875

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212041900	212162600	SVLC R/L 1212 G13	12	12	90	25	16	VCGT 1303..	0,100		
212162800	212162700	SVLC R/L 1616 H13	16	16	100	25	20	VCGT 1303..	0,200		
212163000	212162900	SVLC R/L 2020 K13	20	20	125	28	25	VCGT 1303..	0,400		
212163200	212163100	SVLC R/L 2525 M13	25	25	150	30	32	VCGT 1303..	0,700		

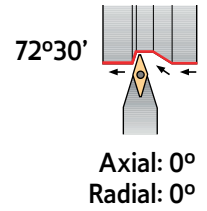
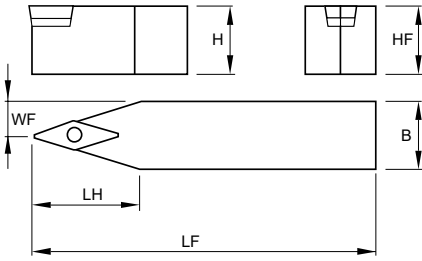
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SVLC R/L 1212 G13	P0300900	XT08
SVLC R/L 1616 H13	P0300900	XT08
SVLC R/L 2020 K13	P0300900	XT08
SVLC R/L 2525 M13	P0300900	XT08

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212260200	SVVB N 2020 K16	20	20	125	37	10,6	VB.. 1604..	0,400	⊗
212169500	SVVB N 2525 M16	25	25	150	37	13,1	VB.. 1604..	0,700	⊗
212260300	SVVB N 3225 P16	32	25	170	37	13,1	VB.. 1604..	0,900	⊗

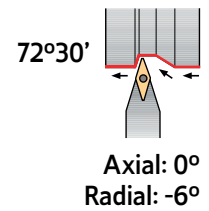
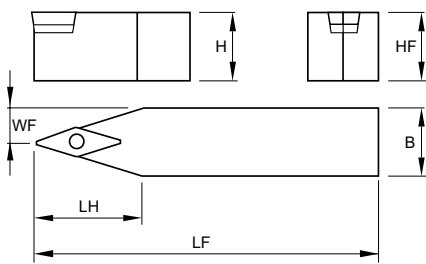
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVVB N 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVVB N 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVVB N 3225 P16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212163300	SVVC N 1212 F11	12	12	80	25	6,6	VC.. 1103..	0,100	☉
212163400	SVVC N 1616 H11	16	16	100	25	8,6	VC.. 1103..	0,200	☉
212163500	SVVC N 2020 K11	20	20	125	25	10,6	VC.. 1103..	0,400	☉
212042500	SVVC N 2020 K16	20	20	125	37	10,6	VC.. 1604..	0,400	☉
212163600	SVVC N 2525 M16	25	25	150	37	13,1	VC.. 1604..	0,700	☉
212022400	SVVC N 3225 P16	32	25	170	37	13,1	VC.. 1604..	0,900	☉

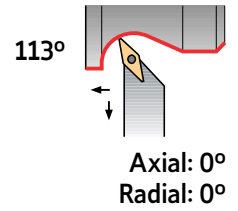
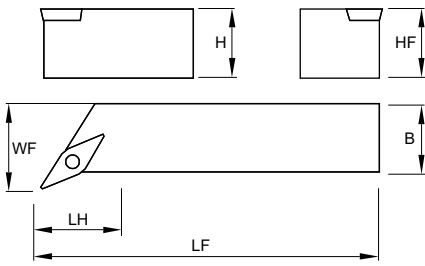
☉ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVVC N 1212 F11	-	-	P0250700	XT07
SVVC N 1616 H11	-	-	P0250700	XT07
SVVC N 2020 K11	-	-	P0250700	XT07
SVVC N 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVVC N 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVVC N 3225 P16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212163800	212163700	SVXC R/L 1212 G13	12	12	90	11,5	16	VCGT 1303..	0,100		
212164000	212163900	SVXC R/L 1616 H13	16	16	100	13,8	20	VCGT 1303..	0,200		
212164200	212164100	SVXC R/L 2020 K13	20	20	125	10,4	25	VCGT 1303..	0,400		
212164400	212164300	SVXC R/L 2525 M13	25	25	150	20,2	32	VCGT 1303..	0,700		

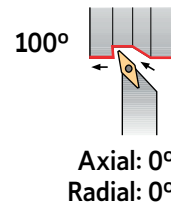
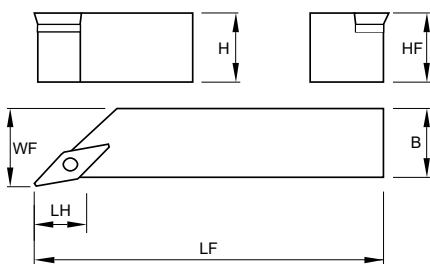
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SVXC R/L 1212 G13	P0300900	XT08
SVXC R/L 1616 H13	P0300900	XT08
SVXC R/L 2020 K13	P0300900	XT08
SVXC R/L 2525 M13	P0300900	XT08

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212164600	212164500	SVZC R/L 2020 K16	20	20	125	25,7	25	VC..1604..	0,400		
212164700	212044500	SVZC R/L 2525 M16	25	25	150	28,5	32	VC..1604..	0,700		
212164900	212164800	SVZC R/L 3225 P16	32	25	170	28,5	32	VC..1604..	0,900		

Stock item | Produto de stock | Itens de stock

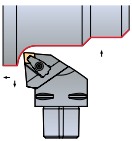
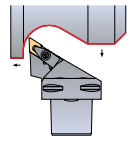
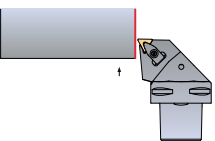
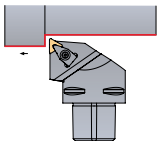
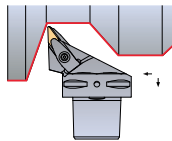
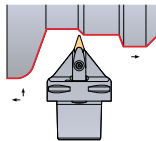
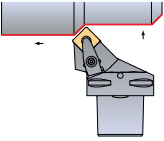
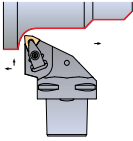
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

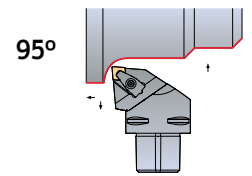
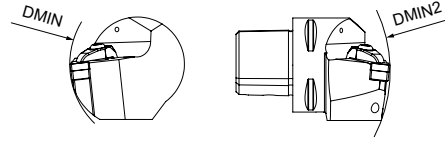
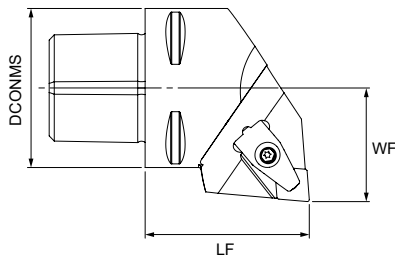
Cutter Reference	Shim	Shim Screw	Screw	Wrench
SVZC R/L 2020 K16	CV160300	T05003500	P0351500	XT15-S35
SVZC R/L 2525 M16	CV160300	T05003500	P0351500	XT15-S35
SVZC R/L 3225 P16	CV160300	T05003500	P0351500	XT15-S35

NEW PSC SYSTEM - (D) DIMPLE LOCK SYSTEM



<p>NEW DCLN 95°</p>  <p>CN.. 0903.. CN.. 1204.. CN.. 1606.. CN.. 1906.. PAGE C - 744</p>	<p>NEW DDJN 93°</p>  <p>PAGE C - 745 DN.. 1104.. DN.. 1506..</p>	<p>NEW DTFN 90°</p>  <p>PAGE C - 746 TN.. 1604.. TN.. 2204..</p>	<p>NEW DTGN 90°</p>  <p>PAGE C - 747 TNM.. 1604.. TNM.. 2204..</p>	<p>NEW DVJN93°</p>  <p>PAGE C - 748 VN.. 1604..</p>	<p>NEW DVVN 72°30'</p>  <p>PAGE C - 749 VN.. 1604..</p>
<p>NEW DSSN 45°</p>  <p>PAGE C - 750 SNM.. 1204.. SNM.. 1506.. SNM.. 1906..</p>	<p>NEW DWLN 95°</p>  <p>PAGE C - 751 WNMG.. 0604.. WNMG.. 0806..</p>				

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212432600	212432700	PSC32-DCLN R/L 22040-09	32	60	116	22	40	CN.. 0903..	0,210	○	○
212432800	212432900	PSC40-DCLN R/L 27050-09	40	60	140	27	50	CN.. 0903..	0,420	○	○
212433000	212433100	PSC32-DCLN R/L 22045-12	32	60	121	22	45	CN.. 1204..	0,240	○	○
212433200	212433300	PSC40-DCLN R/L 27050-12	40	110	140	27	50	CN.. 1204..	0,420	○	○
212433400	212433500	PSC50-DCLN R/L3 5060-12	50	110	165	35	60	CN.. 1204..	0,800	○	○
212433600	212433700	PSC63-DCLN R/L 45065-12	63	110	190	45	65	CN.. 1204..	1,100	○	○
212433800	212433900	PSC80-DCLN R/L 55080-12	80	110	250	55	80	CN.. 1204..	2,740	○	○
212434000	212434100	PSC40-DCLN R/L 27055-16	40	125	145	27	55	CN.. 1606..	0,430	○	○
212434200	212434300	PSC50-DCLN R/L 35060-16	50	125	165	35	60	CN.. 1606..	0,800	○	○
212434400	212434500	PSC63-DCLN R/L 45065-16	63	125	190	45	65	CN.. 1606..	1,100	○	○
212434600	212434700	PSC80-DCLN R/L 55080-16	80	125	250	55	80	CN.. 1606..	2,740	○	○
212434800	212434900	PSC50-DCLN R/L 35060-19	50	125	165	35	60	CN.. 1906..	0,800	○	○
212435000	212435100	PSC63-DCLN R/L 45065-19	63	125	190	45	65	CN.. 1906..	1,100	○	○
212435000	212435300	PSC80-DCLNR/L 55080-19	80	125	250	55	80	CN.. 1906..	2,740	○	○

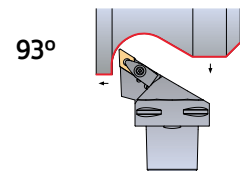
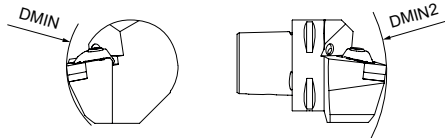
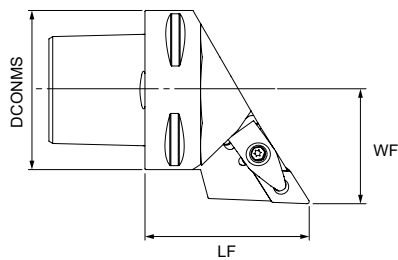
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC32-DCLN R/L 22040-09	T05008000	CC090500	D0500801	GA05001	SS40	M06511	3,5
PSC40-DCLN R/L 27050-09	T05008000	CC090500	D0500801	GA05001	SS40	M06511	3,5
PSC32-DCLN R/L 22045-12	T06010000	CC120600	D0602900	GA07002	SS40	M09513	3,5
PSC40-DCLN R/L 27050-12	T06010000	CC120600	D0602900	GA07002	SS40	M09513	3,5
PSC50-DCLN R/L 35060-12	T06010000	CC120600	D0602900	GA07002	SS40	M09513	3,5
PSC63-DCLN R/L 45065-12	T06010000	CC120600	D0602900	GA07002	SS40	M09513	3,5
PSC80-DCLN R/L 55080-12	T06010000	CC120600	D0602900	GA07002	SS40	M09513	3,5
PSC40-DCLN R/L 27055-16	T0601575	CC160501	D0602900	GA07004	SS40	M09513	3,5
PSC50-DCLN R/L 35060-16	T0601575	CC160501	D0602900	GA07004	SS40	M09513	3,5
PSC63-DCLN R/L 45065-16	T0601575	CC160501	D0602900	GA07004	SS40	M09513	3,5
PSC80-DCLN R/L 55080-16	T0601575	CC160501	D0602900	GA07004	SS40	M09513	3,5
PSC50-DCLN R/L 35060-19	T06015000	CC190502	D0602900	GA07003	SS40	M09513	3,5
PSC63-DCLN R/L 45065-19	T06015000	CC190502	D0602900	GA07003	SS40	M09513	3,5
PSC80-DCLN R/L 55080-19	T06015000	CC190502	D0602900	GA07003	SS40	M09513	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -7°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212435400	212435500	PSC32-DDJN R/L 22045-11	32	60	121	22	45	DN.. 1104..	0,240	○	○
212435600	212435700	PSC40-DDJN R/L 27050-11	40	60	140	27	50	DN.. 1104..	0,420	○	○
212435800	212435900	PSC50-DDJN R/L 35060-11	50	65	165	35	60	DN.. 1104..	0,800	○	○
212436000	212436100	PSC63-DDJN R/L 45065-11	63	81	190	45	65	DN.. 1104..	1,100	○	○
212436200	212436300	PSC40-DDJN R/L 27055-15	40	110	145	27	55	DN.. 1506..	0,420	⊗	⊗
212436400	212436500	PSC50-DDJN R/L 35060-15	50	110	165	35	60	DN.. 1506..	0,800	⊗	⊗
212436600	212436700	PSC63-DDJN R/L 45065-15	63	110	190	45	65	DN.. 1506..	1,100	⊗	⊗
212436800	212436900	PSC80-DDJN R/L 55080-15	80	110	250	55	80	DN.. 1506..	2,740	⊗	⊗

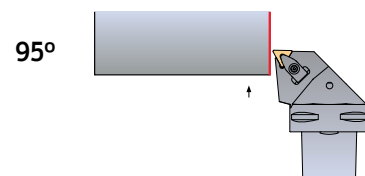
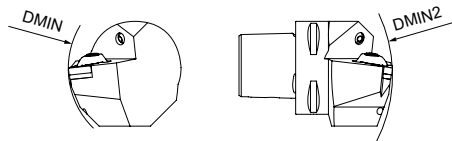
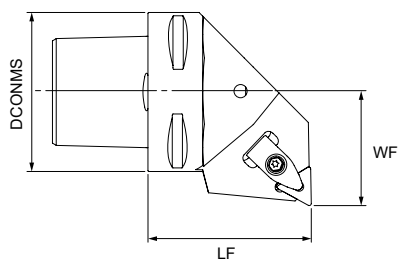
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC32-DDJN R/L 22045-11	T05008000	CD110302	D0500801	GA05001	SS40	M06511	3,5
PSC40-DDJN R/L 27050-11	T05008000	CD110302	D0500801	GA05001	SS40	M06511	3,5
PSC50-DDJN R/L 35060-11	T05008000	CD110302	D0500801	GA05001	SS40	M06511	3,5
PSC63-DDJN R/L 45065-11	T05008000	CD110302	D0500801	GA05001	SS40	M06511	3,5
PSC40-DDJN R/L 27055-15	T06010000	CD150501	D0602900	GA07002	SS40	M09513	3,5
PSC50-DDJN R/L 35060-15	T06010000	CD150501	D0602900	GA07002	SS40	M09513	3,5
PSC63-DDJN R/L 45065-15	T06010000	CD150501	D0602900	GA07002	SS40	M09513	3,5
PSC80-DDJN R/L 55080-15	T06010000	CD150501	D0602900	GA07002	SS40	M09513	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212439000	212439100	PSC40-DTFN R/L 27050-16	40	110	140	27	50	TNM.. 1604..	0,420	○	○
212439200	212439300	PSC50-DTFN R/L 35060-16	50	110	165	35	60	TNM.. 1604..	0,800	○	○
212439400	212439500	PSC63-DTFN R/L 45065-16	63	110	190	45	65	TNM.. 1604..	1,100	○	○
212439600	212439700	PSC40-DTFN R/L 27050-22	40	110	140	27	50	TNM.. 2204..	0,420	○	○
212439800	212439900	PSC50-DTFN R/L 35060-22	50	110	165	35	60	TNM.. 2204..	0,800	○	○
212440000	212440100	PSC63-DTFN R/L 45065-22	63	110	190	45	65	TNM.. 2204..	1,100	○	○

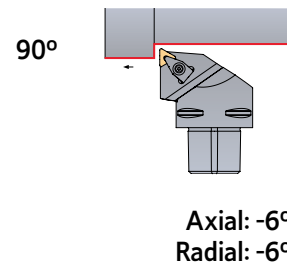
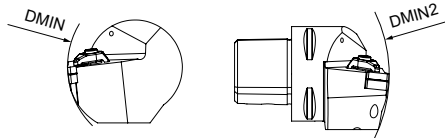
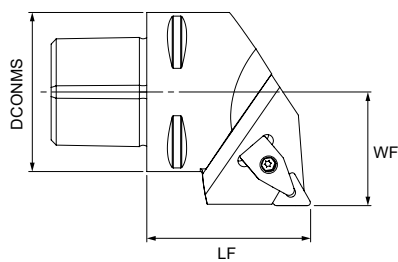
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC40-DTFN R/L 27050-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC50-DTFN R/L 35060-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC63-DTFN R/L 45065-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC40-DTFN R/L 27050-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5
PSC50-DTFN R/L 35060-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5
PSC63-DTFN R/L 45065-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212440200	212440300	PSC40-DTGN R/L 27050-16	40	110	140	27	50	TNM.. 1604..	0,420	○	○
212440400	212440500	PSC50-DTGN R/L 35060-16	50	110	165	35	60	TNM.. 1604..	0,800	○	○
212440600	212440700	PSC63-DTGN R/L 45065-16	63	110	190	45	65	TNM.. 1604..	1,100	○	○
212440800	212440900	PSC40-DTGN R/L 27050-22	40	110	140	27	50	TNM.. 2204..	0,420	○	○
212441000	212441100	PSC50-DTGN R/L 35060-22	50	110	165	35	60	TNM.. 2204..	0,800	○	○
212441200	212441300	PSC63-DTGN R/L 45065-22	63	110	190	45	65	TNM.. 2204..	1,100	○	○

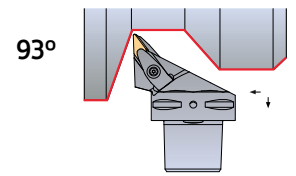
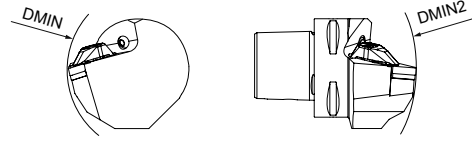
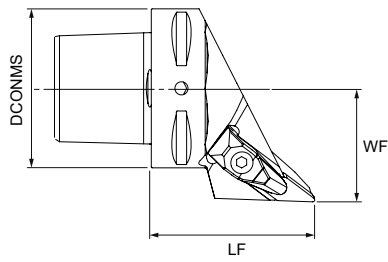
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC40-DTGN R/L 27050-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC50-DTGN R/L 35060-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC63-DTGN R/L 45065-16	T05008000	CT160600	D0500801	GA05001	SS40	M06511	3,5
PSC40-DTGN R/L 27050-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5
PSC50-DTGN R/L 35060-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5
PSC63-DTGN R/L 45065-22	T06010000	CT220500	D0602900	GA07002	SS40	M09513	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -4°
Radial: -13°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212441400	212441500	PSC40-DVJN R/L 27062-16	40	60	152	27	62	VN..1604..	0,450	○	○
212441600	212441700	PSC50-DVJN R/L 35065-16	50	65	170	35	65	VN..1604..	0,790	○	○
212441800	212441900	PSC63-DVJN R/L 45065-16	63	81	190	45	65	VN..1604..	1,100	○	○
212442000	212442100	PSC80-DVJN R/L 55080-16	80	100	250	55	80	VN..1604..	2,740	○	○

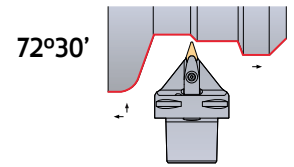
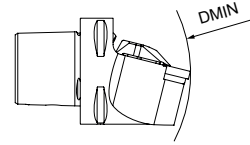
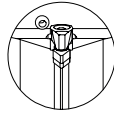
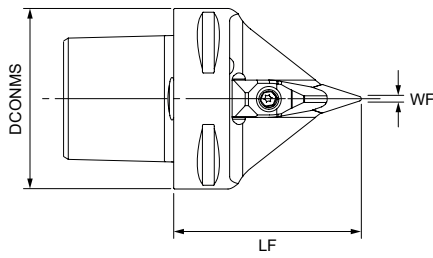
☑ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC40-DVJN R/L 27062-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC50-DVJN R/L 35065-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC63-DVJN R/L 45065-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC80-DVJN R/L 55080-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

Order Code	Reference	Dimensions (mm)				Insert	WT	Stock
		DCONMS	DMIN	WF	LF			
212442200	PSC40-DVVN N 00062-16	40	152	0,6	62	VN.. 1604..	0,430	○
212442300	PSC50-DVVN N 00065-16	50	170	0,6	65	VN.. 1604..	0,800	○
212442400	PSC63-DVVN N 00065-16	63	190	0,6	65	VN.. 1604..	1,070	○
212442500	PSC80-DVVN N 00080-16	80	250	0,6	80	VN.. 1604..	2,320	○

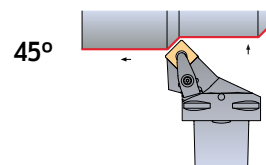
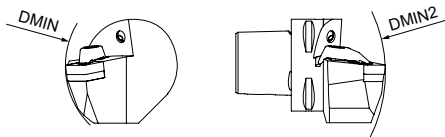
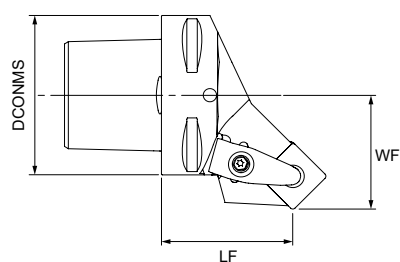
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC40-DVVN N 00062-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC50-DVVN N 00065-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC63-DVVN N 00065-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5
PSC80-DVVN N 00080-16	T05008000	CV160301	D0500801	GA05001	SS40	M06511	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -8°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212437000	212437100	PSC32-DSSN R/L 22040-12	32	60	124	22	40	SNM..1204..	0,210	○	○
212437200	212437300	PSC40-DSSN R/L 27042-12	40	110	140	27	42	SNM..1204..	0,350	○	○
212437400	212437500	PSC50-DSSN R/L 35052-12	50	110	165	35	52	SNM..1204..	0,700	○	○
212437600	212437700	PSC63-DSSN R/L 45056-12	63	110	190	45	56	SNM..1204..	1,120	○	○
212437800	212437900	PSC40-DSSN R/L 27045-15	40	125	145	27	45	SNM..1506..	0,400	○	○
212438000	212438100	PSC50-DSSN R/L 35050-15	50	125	165	35	50	SNM..1506..	0,680	○	○
212438200	212438300	PSC63-DSSN R/L 45054-15	63	125	190	45	54	SNM..1506..	1,140	○	○
212438400	212438500	PSC50-DSSN R/L 35048-19	50	125	165	35	48	SNM..1906..	0,700	○	○
212438600	212438700	PSC63-DSSN R/L 45052-19	63	125	190	45	52	SNM..1906..	1,130	○	○

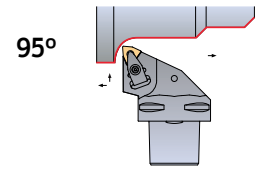
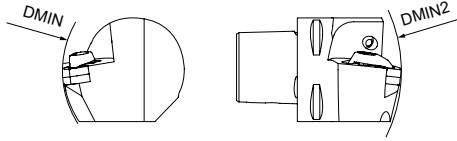
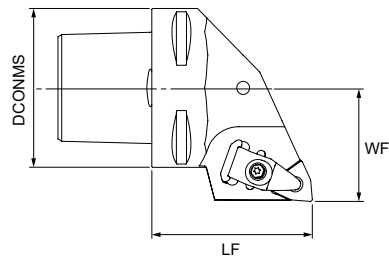
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC32-DSSN R/L 22040-12	T06010000	CS120600	D0602900	GA07002	SS40	M09513	3,5
PSC40-DSSN R/L 27042-12	T06010000	CS120600	D0602900	GA07002	SS40	M09513	3,5
PSC50-DSSN R/L 35052-12	T06010000	CS120600	D0602900	GA07002	SS40	M09513	3,5
PSC63-DSSN R/L 45056-12	T06010000	CS120600	D0602900	GA07002	SS40	M09513	3,5
PSC40-DSSN R/L 27045-15	T0601575	CS150500	D0602900	GA07004	SS40	M09513	3,5
PSC50-DSSN R/L 35050-15	T0601575	CS150500	D0602900	GA07004	SS40	M09513	3,5
PSC63-DSSN R/L 45054-15	T0601575	CS150500	D0602900	GA07004	SS40	M09513	3,5
PSC50-DSSN R/L 35048-19	T06015000	CS190501	D0602900	GA07003	SS40	M09513	3,5
PSC63-DSSN R/L 45052-19	T06015000	CS190501	D0602900	GA07003	SS40	M09513	3,5

(D) DIMPLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -6°

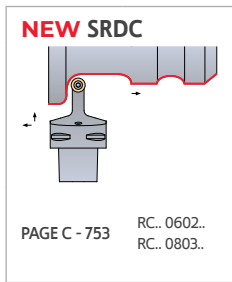
Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		DCONMS	DMIN	DMIN2	WF	LF			R	L
212442600	212442700	PSC32-DWLN R/L 22040-06	32	60	116	22	40	WNMG 0604..	0,210	○	○
212442800	212442900	PSC40-DWLN R/L 27050-06	40	60	140	27	50	WNMG 0604..	0,420	○	○
212443000	212443100	PSC50-DWLN R/L 35060-06	50	65	165	35	60	WNMG 0604..	0,800	○	○
212443200	212443300	PSC63-DWLN R/L 45065-06	63	81	190	45	65	WNMG 0604..	1,100	○	○
212443400	212443500	PSC40-DWLN R/L 27050-08	40	110	140	27	50	WNMG 0804..	0,420	○	○
212443600	212443700	PSC50-DWLN R/L 35060-08	50	110	165	35	60	WNMG 0804..	0,800	○	○
212443800	212443900	PSC63-DWLN R/L 45065-08	63	110	190	45	65	WNMG 0804..	1,100	○	○
212444000	212444100	PSC80-DWLN R/L 55080-08	80	110	250	55	80	WNMG 0804..	2,740	○	○

⊗ Stock item | Produto de stock | Itens de stock

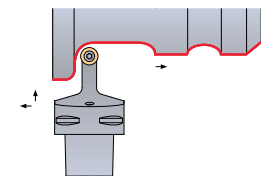
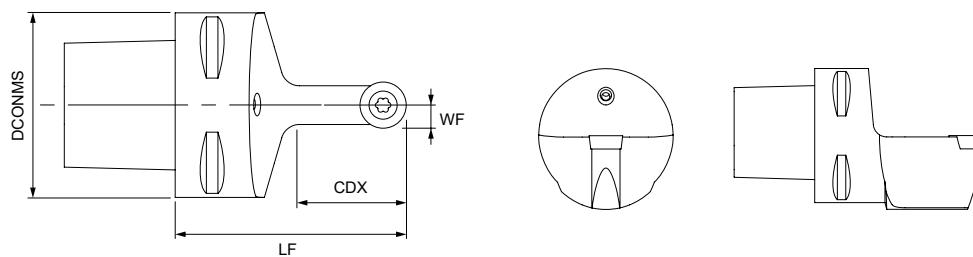
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Shim	Clamp Screw	Clamp	Wrench	Spring	Torque Value
PSC32-DWLN R/L 22040-06	T05008000	CW060302	D0500801	GA05001	SS40	M06511	3,5
PSC40-DWLN R/L 27050-06	T05008000	CW060302	D0500801	GA05001	SS40	M06511	3,5
PSC50-DWLN R/L 35060-06	T05008000	CW060302	D0500801	GA05001	SS40	M06511	3,5
PSC63-DWLN R/L 45065-06	T05008000	CW060302	D0500801	GA05001	SS40	M06511	3,5
PSC40-DWLN R/L 27050-08	T06010000	CW080500	D0602900	GA07002	SS40	M09513	3,5
PSC50-DWLN R/L 35060-08	T06010000	CW080500	D0602900	GA07002	SS40	M09513	3,5
PSC63-DWLN R/L 45065-08	T06010000	CW080500	D0602900	GA07002	SS40	M09513	3,5
PSC80-DWLN R/L 55080-08	T06010000	CW080500	D0602900	GA07002	SS40	M09513	3,5



(S) CENTER SCREW TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code	Reference	Dimensions (mm)				Insert	Kg	Stock
		DCONMS	WF	LF	CDX			
212444300	PSC32-SRDC N 00040-06	32	3	40	12	RC.. 0602..	0,160	○
212462200	PSC40-SRDC N 00050-06	40	3	50	12	RC.. 0602..	0,350	○
212462300	PSC50-SRDC N 00060-06	50	3	60	12	RC.. 0602..	0,750	○
212462400	PSC32-SRDC N 00040-08	32	4	40	16	RC.. 0803..	0,160	○
212470900	PSC40-SRDC N00050-08	40	4	50	16	RC.. 0803..	0,35	○
212471000	PSC50-SRDC N00060-08	50	4	60	16	RC.. 0803..	0,35	○

⊗ Stock item | Produto de stock | Itens de stock

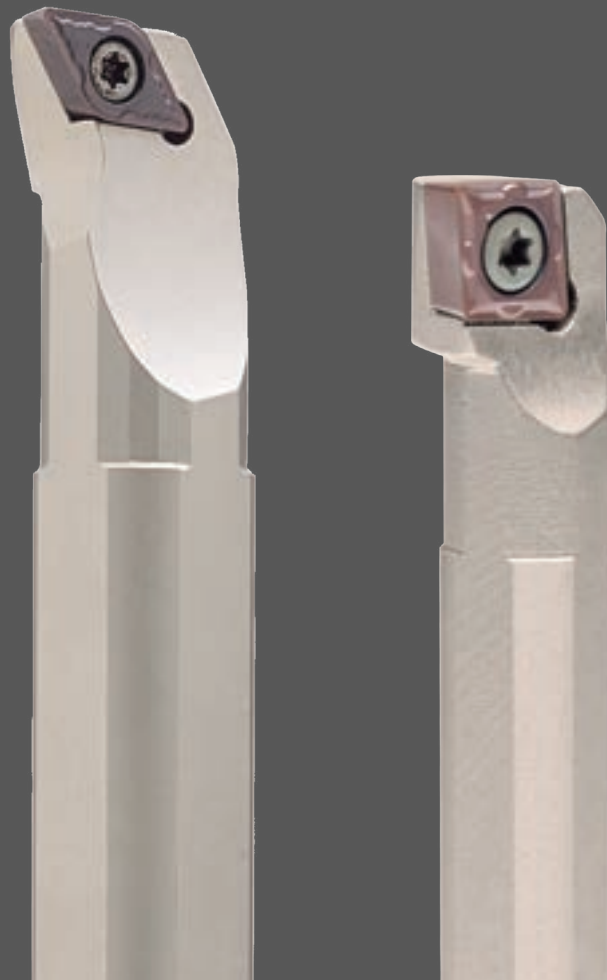
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim Screw	Wrench	Torque Value
PSC32-SRDC N 00040-06	P0250700	XT07	0,9
PSC40-SRDC N 00050-06	P0250700	XT07	0,9
PSC50-SRDC N 00060-06	P0250700	XT07	0,9
PSC32-SRDC N 00040-08	P0300900	XT08	1,2
PSC40-SRDC N 00050-08	P0300900	XT08	1,2
PSC50-SRDC N 00060-08	P0300900	XT08	1,2

TOOLHOLDERS

INTERNAL



Internal turning places high demands on tools due to limited space. Efficient chipbreaking and evacuation are crucial for preventing tool damage and surface finish. Specialized tooling, optimized parameters, and effective coolant usage are vital for successful machining.

O torneamento interno exige muito das ferramentas devido ao espaço limitado. A quebra eficiente de aparas e a evacuação são cruciais para evitar danos à ferramenta e garantir o acabamento da superfície. Ferramentas especializadas, parâmetros otimizados e uso eficaz de refrigerante são vitais para a maquiagem bem-sucedida.

El torneado interno pone altas demandas en las herramientas debido al espacio limitado. La rotura eficiente de virutas y la evacuación son cruciales para prevenir daños en la herramienta y garantizar el acabado superficial. Herramientas especializadas, parámetros optimizados y uso efectivo de refrigerante son vitales para el mecanizado exitoso.

Top Clamp Toolholders (C) > page 760

- > Highly rigid top clamp with shim

Grampo altamente rígido com calço | Brida altamente rígida con calzo



Dimple Lock Toolholders (D) > page 765

- > Stable and rigid top clamp for negative inserts with a through hole

Grampo estável e rígido para pastilhas negativas com furo passante | Brida estable y rígida para plaquitas negativos con agujero pasante



Wedge Clamp (M) &

Double Lock (M-K) Toolholders > page 768

- > Double security clamping with eccentric pin, common for negative inserts

Dupla fixação de segurança com pino excêntrico, comum para pastilhas negativas | Doble sujeción de seguridad con pasador excéntrico, común para plaquitas negativas



Lever Lock Toolholders (P) > page 778

- > Locking design for negative inserts, avoiding chip interference

Design de bloqueio para pastilhas negativas, evitando interferência de aparas | Diseño de bloqueo para plaquitas negativas, evitando interferencia de virutas

- > With or without directional coolant

Com ou sem refrigeração direcional | Con o sin refrigeración direccional



Center Screw Toolholders (S) > page 792

- > Solution for ensuring easy insert exchange without interference

Solução ideal para garantir a troca fácil da pastilha sem interferência | Solución para garantizar un intercambio fácil de la plaquita sin interferencias

- > With or without directional coolant

Com ou sem refrigeração direcional | Con o sin refrigeración direccional

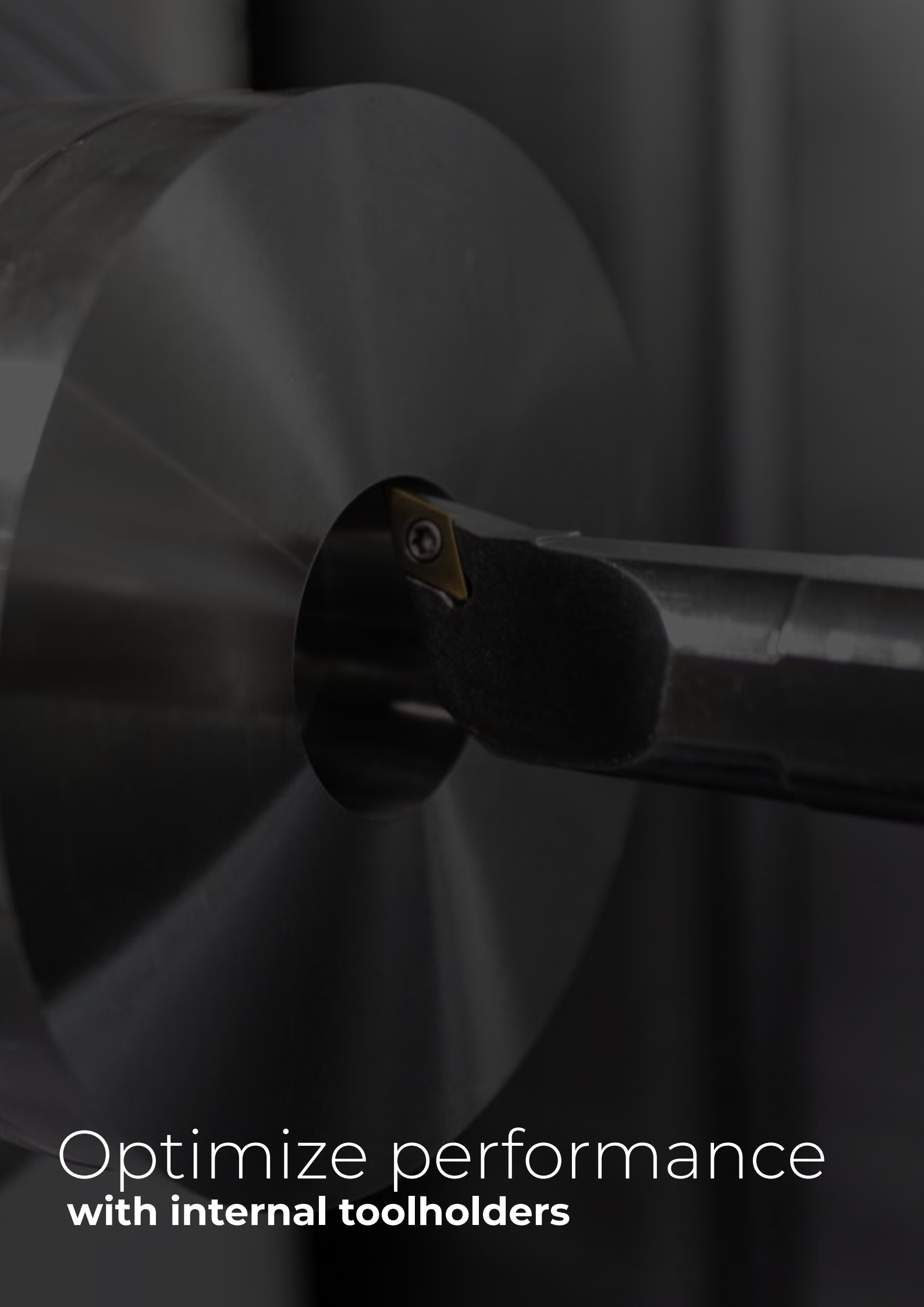


Anti-vibration Bars (AVB) > page 821

- > Long overhangs with excellent finished surfaces

Torneamentos longos com excelente acabamento de superfície | Torneados largos con excelente acabado superficial





Optimize performance
with internal toolholders

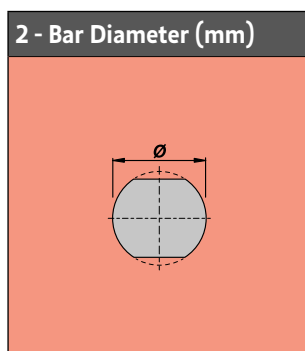
CODE KEY FOR INTERNAL TURNING TOOLHOLDERS

Sistema de codificação para suportes de torneamento interno (ISO) | Codificación de herramientas de torneado interior (ISO)

S	25	T	S	D	U	C	R	11	-	BT
1	2	3	4	5	6	7	8	9		10

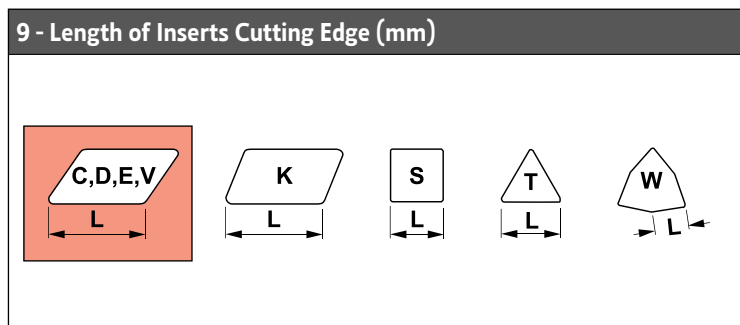
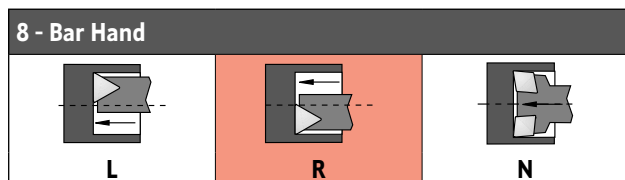
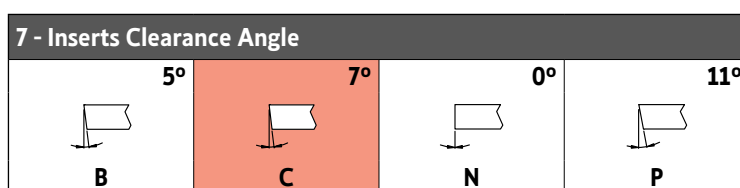
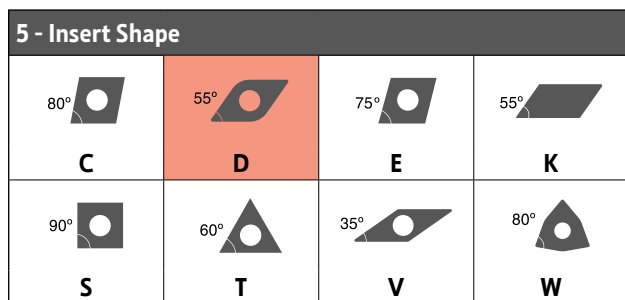
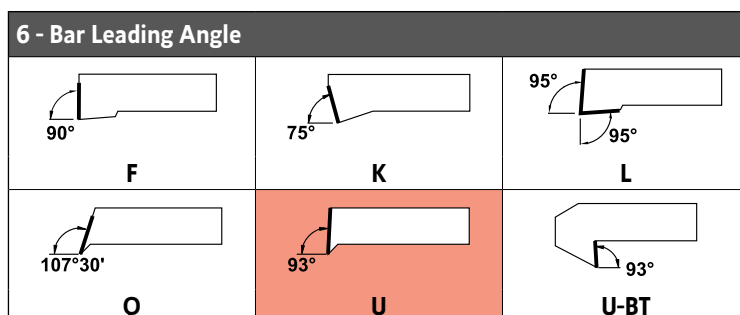
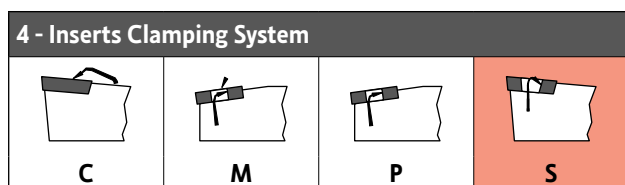
1 - Bar Type

A	Steel shank with internal coolant		
E	Anti-vibration shank (heavy metal) with internal coolant		
S	Steel shank		



3 - Bar Length (mm)

H	100	T	300
J	110	U	350
K	125	V	400
L	140	W	450
M	150	Y	500
Q	180	X	Special
R	200		
S	250		



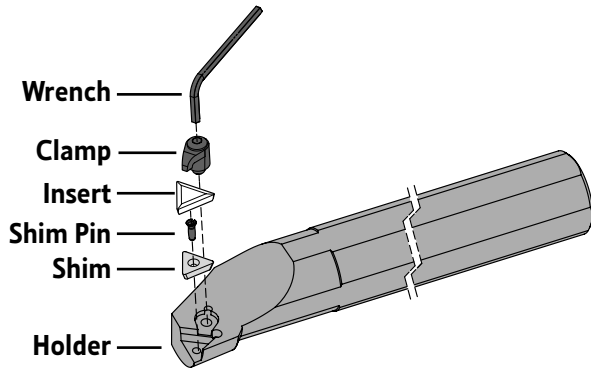
10 - Special Toolholder (Suppressed when standard)

BT - Back Turning

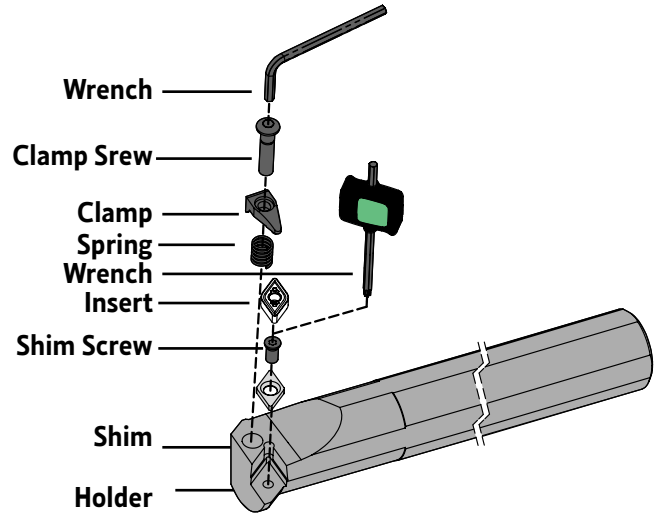
CLAMPING SYSTEMS FOR INTERNAL TOOLHOLDERS

Sistemas de fixação para ferramentas de torneamento interno | Sistemas de fijación para herramientas de torneado interior

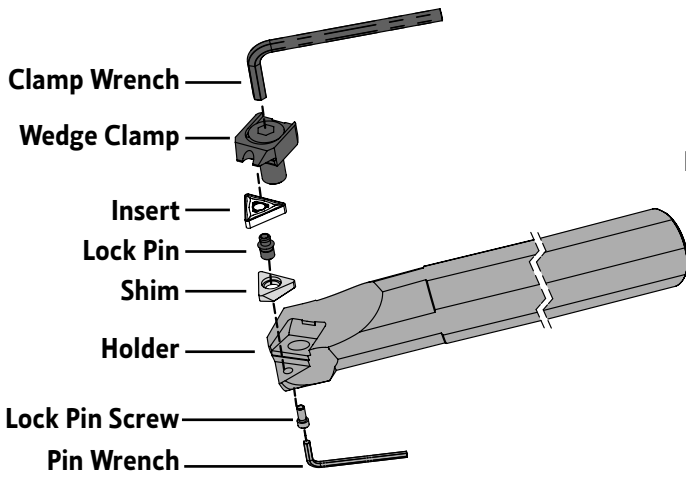
(C) TOP CLAMP SYSTEM



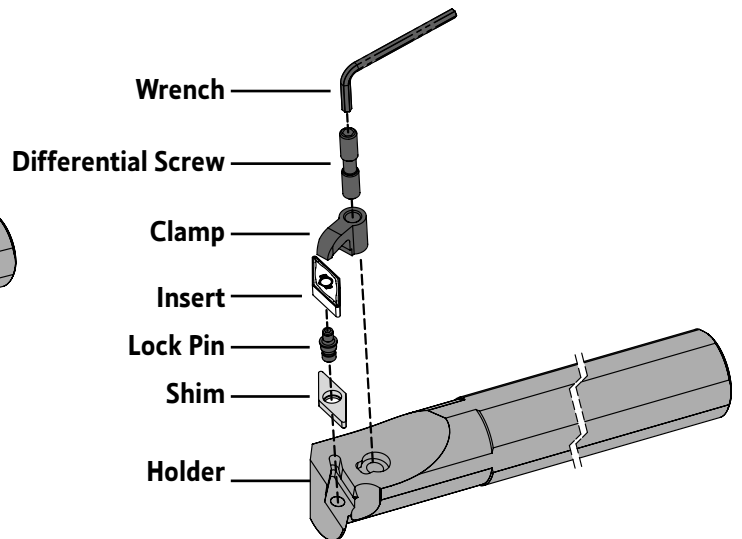
(D) DIMPLE LOCK SYSTEM



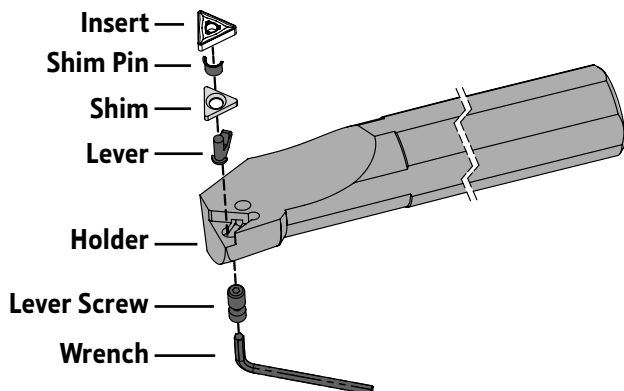
(M) WEDGE CLAMP SYSTEM



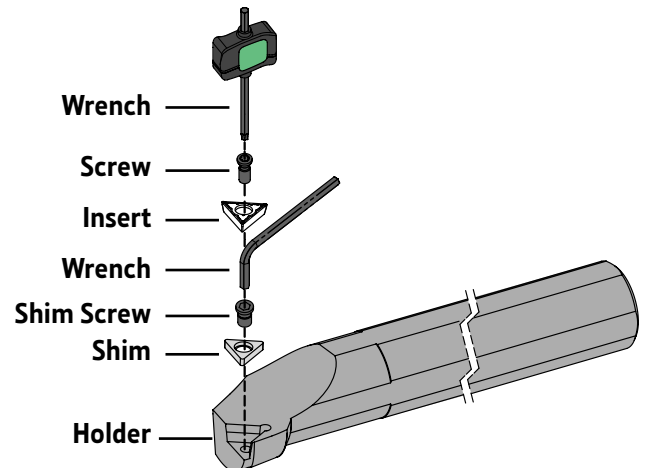
(M-K) DOUBLE LOCK SYSTEM



(P) LEVER LOCK SYSTEM

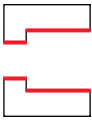
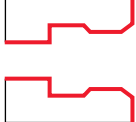


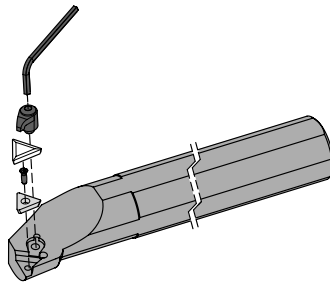
(S) CENTER SCREW SYSTEM



SUITABLE CLAMPING SYSTEM DEFINITION

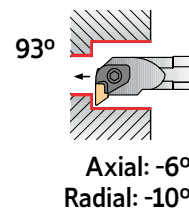
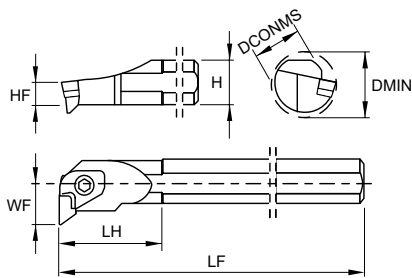
Definição do sistema de fixação | Definición del sistema de Fijación

Operation		Longitudinal turning	Profiling	Facing
				
Negative inserts	(C) TOP CLAMP SYSTEM	●	●	
	(D) DIMPLE LOCK SYSTEM	● ●	●	
	(M) WEDGE CLAMP SYSTEM - (M-K) DOUBLE LOCK SYSTEM	●	●	●
	(P) LEVER LOCK SYSTEM	● ●	●	●
	(C) TOP CLAMP SYSTEM	●		
Positive inserts	(S) CENTER SCREW SYSTEM	● ●	● ●	● ●
		● ● Recommended Insert Shape	● Alternative Insert Shape	



CKUN 93°	CSKP 75°	CTFP 90°	CTUP 93°
PAGE C - 761 KNUX 1604..	PAGE C - 762 SP. 0903.. SP. 1203.. SP. 1904..	PAGE C - 763 TP. 0903.. ... TP. 2204..	PAGE C - 764 TP. 0903.. ... TP. 2204..

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212038300	212028200	S25T CKUN R/L 16	25	23	11,5	300	50	20,5	37	KNUX 1604..	0,700	⊗	⊗
212028300	212028400	S32U CKUN R/L 16	32	30	15,0	350	54	22,0	39	KNUX 1604..	2,050	○	○
212329300	212329400	S40V CKUN R/L 16	40	37	18,5	400	60	27,0	48	KNUX 1604..	3,750	○	○
212329500	212329600	S50W CKUN R/L 16	50	47	23,5	450	65	35,0	61	KNUX 1604..	6,500	○	○

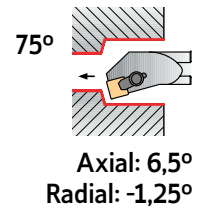
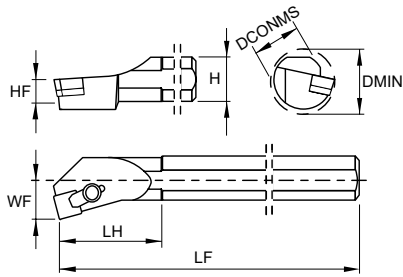
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						
	Shim	Shim Pin	Shim Pin Punch	Spring	Clamp	Screw	Wrench
S25T CKUN R 16	-	-	BF04806	M09513	GAW1401	DW142600	SS40
S32U CKUN R 16	CK160501	BE03000	BF04808	M09513	GAW1401	DW142600	SS40
S40V CKUN R 16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
S50W CKUN R 16	CK160501	BE03000	BF04815	M09513	GAW1401	DW142600	SS40
S25T CKUN L 16	-	-	BF04806	M09513	GAW1400	DW142600	SS40
S32U CKUN L 16	CK160500	BE03000	BF04808	M09513	GAW1400	DW142600	SS40
S40V CKUN L 16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40
S50W CKUN L 16	CK160500	BE03000	BF04815	M09513	GAW1400	DW142600	SS40

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212027500	212027600	S16R CSKP R/L 09	16	15	7,5	200	30	11	20	SP.. 0903..	0,300	⊗	⊗
212027700	212027800	S20S CSKP R/L 09	20	18	9,0	250	35	13	24	SP.. 0903..	0,550	⊗	⊗
212329700	212027900	S25T CSKP R/L 12	25	23	11,5	300	40	17	31	SP.. 1203..	1,050	⊗	⊗
212028000	212028100	S32U CSKP R/L 12	32	30	15,0	350	50	22	39	SP.. 1203..	2,050	○	○
212329800	212329900	S40V CSKP R/L 12	40	37	18,5	400	60	27	48	SP.. 1203..	3,650	○	○
212330000	212330100	S50W CSKP R/L 12	50	47	23,5	450	65	35	61	SP.. 1203..	6,450	○	○
212330200	212330300	S50W CSKP R/L 19	50	47	23,5	450	65	35	61	SP.. 1904..	6,400	○	○

⊗ Stock item | Produto de stock | Itens de stock

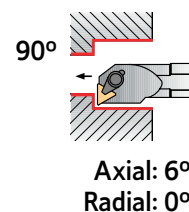
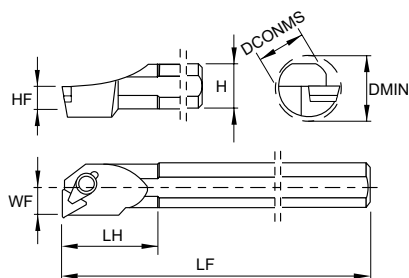
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
S16R CSKP R/L 09	-	-	GS05000	SS25	-	QCS0900	-
S20S CSKP R/L 09	-	-	GS05000	SS25	-	QCS1200	QCS1201
S25T CSKP R/L 12	-	-	GS06001	SS30	GS06003	QCS1200	QCS1201
S32U CSKP R/L 12	CS120300	BE02100	GS06001	SS30	GS06003	QCS1200	QCS1201
S40V CSKP R/L 12	CS120300	BE02100	GS06001	SS30	GS06003	QCS1200	QCS1201
S50W CSKP R/L 12	CS120300	BE02100	GS06001	SS30	GS06003	QCS1200	QCS1201
S50W CSKP R/L 19	CS190300	BE03000	GS08000	SS40	GS08001	QCS1900	QCS1901

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212330400	212330500	S10M CTFP R/L 09	10	9	4,5	150	25	7	13	TP.. 0902..	0,060	⊗	⊗
212330600	212330700	S12M CTFP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150	⊗	⊗
212170200	212330800	S12M CTFP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150	⊗	⊗
212026800	212026900	S16R CTFP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300	⊗	⊗
212027000	212027100	S20S CTFP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550	⊗	⊗
212330900	212331000	S16R CTFP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300	⊗	⊗
212331100	212331200	S20S CTFP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550	⊗	⊗
212036700	212027200	S25T CTFP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700	⊗	⊗
212027300	212027400	S32U CTFP R/L 16	32	30	15,0	350	50	22	39	TP.. 1603..	2,050	○	○
212331300	212331700	S40V CTFP R/L 16	40	37	18,5	400	60	27	48	TP.. 1603..	3,750	○	○
212331800	212331900	S50W CTFP R/L 16	50	47	23,5	450	65	35	61	TP.. 1603..	6,500	○	○
212021300	212332000	S40V CTFP R/L 22	40	37	18,5	400	60	27	48	TP.. 2204..	3,750	○	○
212332100	212332200	S50W CTFP R/L 22	50	47	23,5	450	65	35	61	TP.. 2204..	6,500	○	○

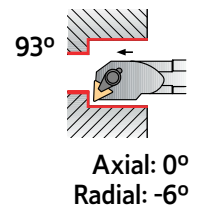
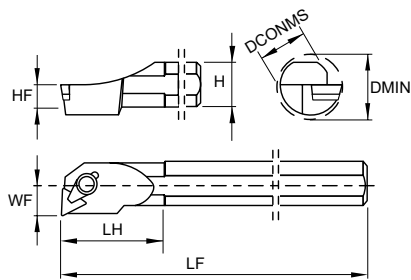
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Complementary Accessories - Flat Inserts						
	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
S10M CTFP R/L 09	-	-	GS03000	SS15	-	-	-
S12M CTFP R/L 09	-	-	GS03000	SS15	-	-	-
S12M CTFP R/L 11	-	-	GS04000	SS25	-	-	-
S16R CTFP R/L 11	-	-	GS05000	SS25	GS05003	QCT1100	QCT1101
S20S CTFP R/L 11	-	-	GS05000	SS25	GS05003	QCT1100	QCT1101
S16R CTFP R/L 16	-	-	GS06002	SS30	GS06003	QCT1600	QCT1601
S20S CTFP R/L 16	-	-	GS06002	SS30	GS06003	QCT1600	QCT1601
S25T CTFP R/L 16	-	-	GS06001	SS30	GS06003	QCT1600	QCT1601
S32U CTFP R/L 16	CT160301	BE02100	GS06000	SS30	GS06003	QCT1600	QCT1601
S40V CTFP R/L 16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
S50W CTFP R/L 16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
S40V CTFP R/L 22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
S50W CTFP R/L 22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201

(C) TOP CLAMP TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212245500	212332300	S10M CTUP R/L 09	10	9	4,5	150	25	7	13	TP.. 0902..	0,060	⊗	⊗
212332400	212332500	S12M CTUP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150	⊗	⊗
212332600	212332700	S12M CTUP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150	⊗	⊗
212332800	212332900	S16R CTUP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300	⊗	⊗
212333000	212333100	S20S CTUP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550	⊗	⊗
212333200	212333300	S16R CTUP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300	⊗	⊗
212333400	212333500	S20S CTUP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550	⊗	⊗
212245600	212333600	S25T CTUP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700	⊗	⊗
212333700	212333800	S32U CTUP R/L 16	32	30	15,0	350	50	22	39	TP.. 1603..	2,050	○	○
212245700	212333900	S40V CTUP R/L 16	40	37	18,5	400	60	27	48	TP.. 1603..	3,750	○	○
212334000	212334100	S50W CTUP R/L 16	50	47	23,5	450	65	35	61	TP.. 1603..	6,500	○	○
212334200	212334300	S40V CTUP R/L 22	40	37	18,5	400	60	27	48	TP.. 2204..	3,750	○	○
212334400	212334500	S50W CTUP R/L 22	50	47	23,5	450	65	35	61	TP.. 2204..	6,500	○	○

⊗ Stock item | Produto de stock | Itens de stock

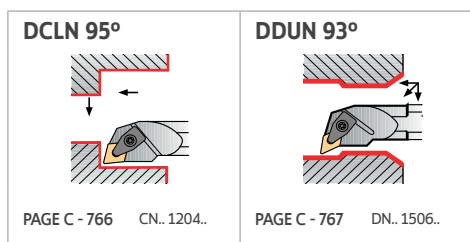
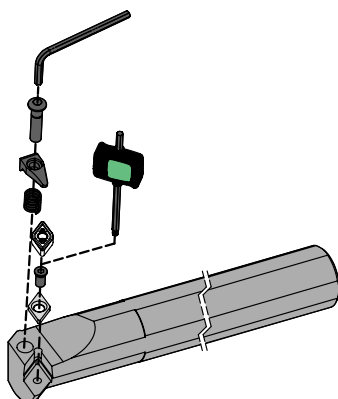
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

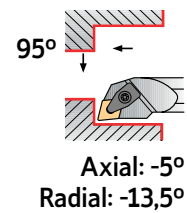
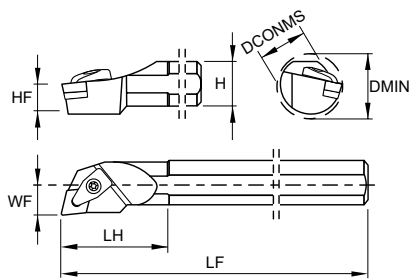
Complementary Accessories - Flat Inserts

Cutter Reference	Shim	Shim Pin	Clamp	Wrench	Clamp	Chip Breaker 1	Chip Breaker 2
S10M CTUP R/L 09	-	-	GS03000	SS15	-	-	-
S12M CTUP R/L 09	-	-	GS03000	SS15	-	-	-
S12M CTUP R/L 11	-	-	GS04000	SS25	-	-	-
S16R CTUP R/L 11	-	-	GS05000	SS25	GS05003	QCT1100	QCT1101
S20S CTUP R/L 11	-	-	GS05000	SS25	GS05003	QCT1100	QCT1101
S16R CTUP R/L 16	-	-	GS06002	SS30	GS06003	QCT1600	QCT1601
S20S CTUP R/L 16	-	-	GS06002	SS30	GS06003	QCT1600	QCT1601
S25T CTUP R/L 16	-	-	GS06001	SS30	GS06003	QCT1600	QCT1601
S32U CTUP R/L 16	CT160301	BE02100	GS06000	SS30	GS06003	QCT1600	QCT1601
S40V CTUP R/L 16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
S50W CTUP R/L 16	CT160301	BE02100	GS06000	SS30	GS05005	QCT1600	QCT1601
S40V CTUP R/L 22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201
S50W CTUP R/L 22	CT220301	BE03000	GS08000	SS40	GS08001	QCT2200	QCT2201

(D) DIMPLE LOCK SYSTEM



(D) DIMPLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212334600	212334700	S25T DCLN R/L 12	25	23	11,5	300	40	17	31	CN..1204..	0,700	⊗	⊗
212334800	212334900	S32U DCLN R/L 12	32	30	15,0	350	50	22	39	CN..1204..	2,050	○	○
212335000	212335100	S40V DCLN R/L 12	40	37	18,5	400	60	27	48	CN..1204..	3,750	○	○

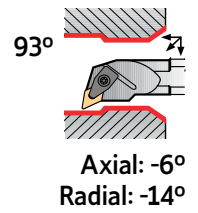
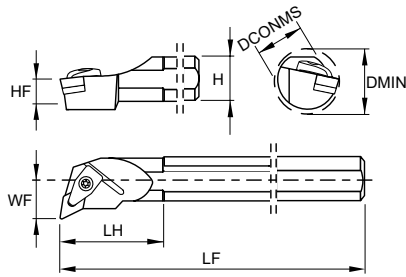
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
S25T DCLN R/L 12	CC120300	T06010000	M09513	GA07002	D0602900	SS40
S32U DCLN R/L 12	CC120300	T06010000	M09513	GA07002	D0602900	SS40
S40V DCLN R/L 12	CC120300	T06010000	M09513	GA07002	D0602900	SS40

(D) DIMPLE LOCK TOOLHOLDERS



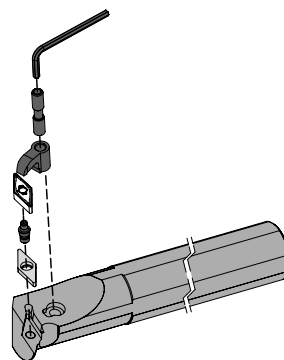
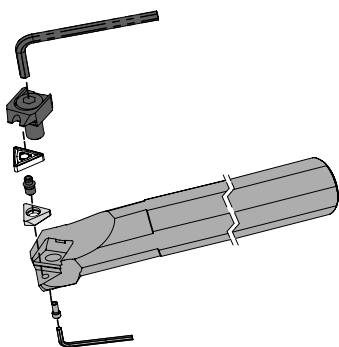
Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212335200	212335300	S32U DDUN R/L 15	32	30	15,0	350	50	22	39	DN..1506..	2,050	○	○
212335400	212335500	S40V DDUN R/L 15	40	37	18,5	400	60	27	48	DN..1506..	3,750	○	○

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

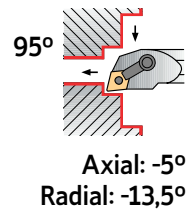
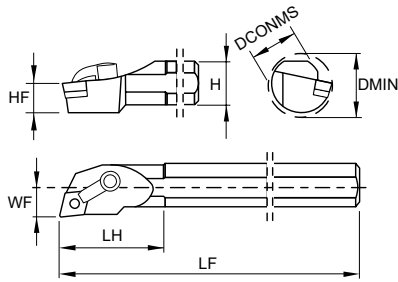
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
S32U DDUN R/L 15	CD150501	T06010000	M09513	GA07002	D0602900	SS40
S40V DDUN R/L 15	CD150501	T06010000	M09513	GA07002	D0602900	SS40



<p>MCLN-K 95°</p> <p>PAGE C - 769 CN.. 1204..</p>	<p>MDUN-K 93°</p> <p>PAGE C - 770 DN.. 1506..</p>	<p>MSKN-K 75°</p> <p>PAGE C - 771 SN.. 1204..</p>	<p>MTFN 90°</p> <p>PAGE C - 772 TN.. 1604.. TN.. 2204..</p>	<p>MTFN-K 90°</p> <p>PAGE C - 773 TN.. 1604..</p>	<p>MTUN 93°</p> <p>PAGE C - 774 TN.. 1604.. TN.. 2204..</p>
<p>MVUN-K 93°</p> <p>PAGE C - 775 VN.. 1604..</p>	<p>MWLN 95°</p> <p>PAGE C - 776 WN.. 0604.. WN.. 0804..</p>	<p>MWLN-K 95°</p> <p>PAGE C - 777 WN.. 0804..</p>			

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212335600	212335700	S25T MCLN R/L 12-K	25	23	11,5	300	33	17	31	CN.. 1204..	0,700	⊗	⊗
212335800	212335900	S32U MCLN R/L 12-K	32	30	15,0	350	50	22	39	CN.. 1204..	2,050	○	○
212336000	212336100	S40V MCLN R/L 12-K	40	37	18,5	400	60	27	48	CN.. 1204..	3,750	○	○

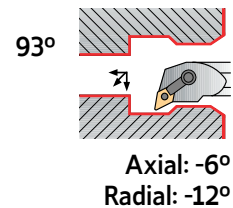
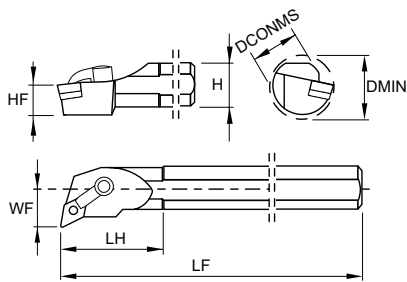
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Clamp	Differential Screw	Clamp Wrench
S25T MCLN R/L 12-K	-	BS1-402	SS25	GA06000	F0602100	SS30
S32U MCLN R/L 12-K	CC120500	BS1-400	SS25	GA06000	F0602900	SS30
S40V MCLN R/L 12-K	CC120500	BS1-400	SS25	GA06000	F0602900	SS30

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212245300	212336200	S25T MDUN R/L 15-K	25	23	11,5	300	40	17	31	DN.. 1506..	0,700	⊗	⊗
212336300	212336400	S32U MDUN R/L 15-K	32	30	15,0	350	50	22	39	DN.. 1506..	2,050	○	○
212245400	212336500	S40V MDUN R/L 15-K	40	37	18,5	400	60	27	48	DN.. 1506..	3,750	○	○

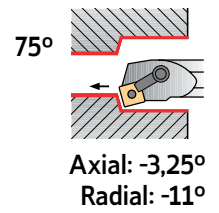
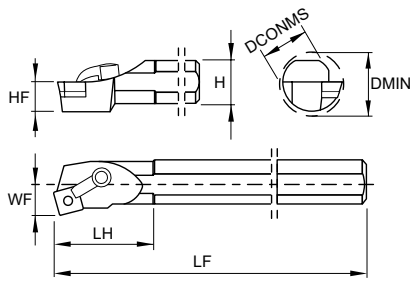
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Clamp	Differential Screw	Clamp Wrench
S25T MDUN R/L 15-K	-	BS1-402	SS25	GA06001	F0602100	SS30
S32U MDUN R/L 15-K	CD150501	BS1-401	SS25	GA06001	F0602900	SS30
S40V MDUN R/L 15-K	CD150501	BS1-401	SS25	GA06001	F0602900	SS30

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212336600	212336700	S32U MSKN R/L 12-K	32	30	15,0	350	50	22	39	SN..1204..	2,050	○	○
212336800	212336900	S40V MSKN R/L 12-K	40	37	18,5	400	60	27	48	SN..1204..	3,750	○	○

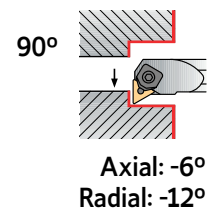
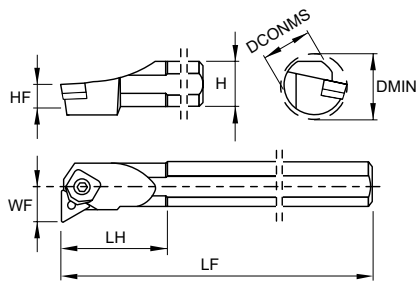
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Clamp	Differential Screw	Clamp Wrench
S32U MSKN R/L 12-K	CS120500	BS1-400	SS25	GA06000	F0602900	SS30
S40V MSKN R/L 12-K	CS120500	BS1-400	SS25	GA06000	F0602900	SS30

(M) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212050300	212338100	S25T MTFN R/L 16	25	23	11,5	300	40	17	34	TN.. 1604..	0,700	⊗	⊗
212168200	212338200	S32U MTFN R/L 16	32	30	15,0	350	50	22	39	TN.. 1604..	2,050	○	○
212338300	212338400	S40V MTFN R/L 16	40	37	18,5	400	60	27	48	TN.. 1604..	3,750	○	○
212338500	212338600	S50W MTFN R/L 16	50	47	23,5	450	65	35	61	TN.. 1604..	6,500	○	○
212421000	212421100	S60Y MTFN R/L 16	60	57	28,5	600	75	43	80	TN.. 1604..	12,600	○	○
212338700	212338800	S40V MTFN R/L 22	40	37	18,5	400	60	27	48	TN.. 2204..	3,750	○	○
212017500	212338900	S50W MTFN R/L 22	50	47	23,5	450	65	35	61	TN.. 2204..	6,500	○	○
212421800	212421900	S60Y MTFN R/L 22	60	57	28,5	600	75	43	80	TN.. 2204..	12,600	○	○

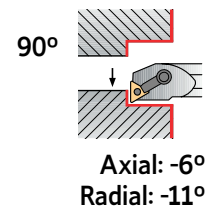
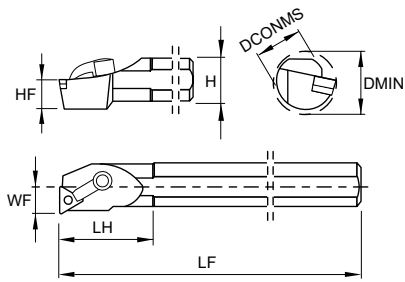
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Wedge Clamp	Wrench
S25T MTFN R/L 16	CT160302	BC04501	D0300691	GW08001	SS50
S32U MTFN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S40V MTFN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S50W MTFN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S60Y MTFN R/L 16	CT160302	BC04501	D0300691	GW08001	SS50
S40V MTFN R/L 22	CT220500	BC06000	D0400900	GW08003	SS50
S50W MTFN R/L 22	CT220500	BC06000	D0400900	GW08003	SS50
S60Y MTFN R/L 22	CT220500	BC06000	D0400900	GW08003	SS50

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212337000	212337100	S25T MTFN R/L 16-K	25	23	11,5	300	40	17	31	TN..1604..	0,700	⊗	⊗
212337200	212337300	S32U MTFN R/L 16-K	32	30	15,0	350	50	22	39	TN..1604..	2,050	○	○
212337400	212337500	S40V MTFN R/L 16-K	40	37	18,5	400	60	27	48	TN..1604..	3,750	○	○

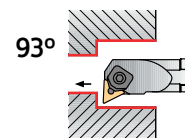
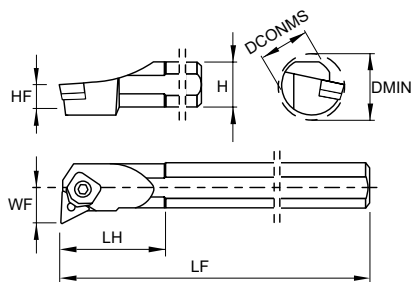
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
S25T MTFN R/L 16-K	CT160304	BS05000	SS20	GA06000	F0602900	SS30
S32U MTFN R/L 16-K	CT160304	BS05000	SS20	GA06000	F0602900	SS30
S40V MTFN R/L 16-K	CT160304	BS05000	SS20	GA06000	F0602900	SS30

(M) DOUBLE LOCK TOOLHOLDERS



Axial: -6°
Radial: -11°

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212339000	212339100	S25T MTUN R/L 16	25	23	11,5	300	40	17	34	TN.. 1604..	0,700	⊗	⊗
212339200	212339300	S32U MTUN R/L 16	32	30	15,0	350	50	22	39	TN.. 1604..	2,050	○	○
212339400	212339500	S40V MTUN R/L 16	40	37	18,5	400	60	27	48	TN.. 1604..	3,750	○	○
212339600	212339700	S50W MTUN R/L 16	50	47	23,5	450	65	35	61	TN.. 1604..	6,500	○	○
212339800	212339900	S40V MTUN R/L 22	40	37	18,5	400	60	27	48	TN.. 2204..	3,750	○	○
212340000	212340100	S50W MTUN R/L 22	50	47	23,5	450	65	35	61	TN.. 2204..	6,500	○	○

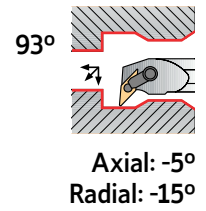
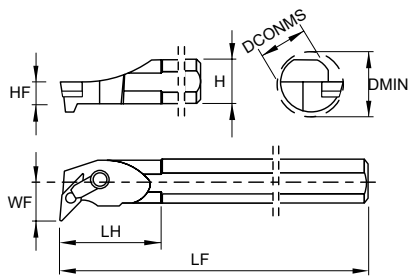
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Wedge Clamp	Wrench
S25T MTUN R/L 16	CT160302	BC04501	D0300691	GW08001	SS50
S32U MTUN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S40V MTUN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S50W MTUN R/L 16	CT160302	BC04501	D0300700	GW08001	SS50
S40V MTUN R/L 22	CT220500	BC06000	D0400900	GW08003	SS50
S50W MTUN R/L 22	CT220500	BC06000	D0400900	GW08003	SS50

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212050400	212337600	S25T MVUN R/L 16-K	25	23	11,5	300	40	17	31	VN..1604..	0,700	⊗	⊗
212337700	212337800	S32U MVUN R/L 16-K	32	30	15,0	350	50	22	39	VN..1604..	2,050	○	○
212337900	212338000	S40V MVUN R/L 16-K	40	37	18,5	400	60	27	48	VN..1604..	3,750	○	○

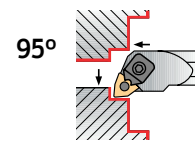
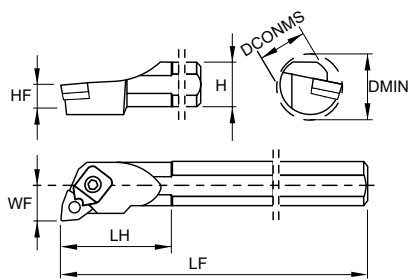
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Wrench	Clamp	Differential Screw	Clamp Wrench
S25T MVUN R/L 16-K	CV160301	BS05000	SS20	GA06001	F0602100	SS30
S32U MVUN R/L 16-K	CV160301	BS05000	SS20	GA06001	F0602900	SS30
S40V MVUN R/L 16-K	CV160301	BS05000	SS20	GA06001	F0602900	SS30

(M) DOUBLE LOCK TOOLHOLDERS



Axial: -5°
Radial: -11,5°

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212050500	212340200	S20S MWLN R/L 06	20	18	9,0	250	36	13	27	WN.. 0604..	0,550	⊗	⊗
212340300	212340400	S25T MWLN R/L 06	25	23	11,5	300	40	17	31	WN.. 0604..	0,700	⊗	⊗
212340500	212340600	S32U MWLN R/L 06	32	30	15,0	350	50	22	39	WN.. 0604..	2,050	○	○
212054400	212340700	S25T MWLN R/L 08	25	23	11,5	300	40	17	31	WN.. 0804..	0,700	⊗	⊗
212044100	212044000	S32U MWLN R/L 08	32	30	15,0	350	50	22	39	WN.. 0804..	2,050	○	○
212340800	212340900	S40V MWLN R/L 08	40	37	18,5	400	60	27	48	WN.. 0804..	3,750	○	○
212341000	212341100	S50W MWLN R/L 08	50	47	23,5	450	65	35	61	WN.. 0804..	6,500	○	○
212421200	212421300	S60Y MWLN R/L 08	60	57	28,5	600	75	43	80	WNM. 0804..	12,600	○	○

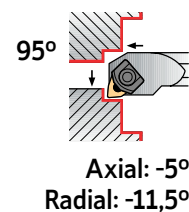
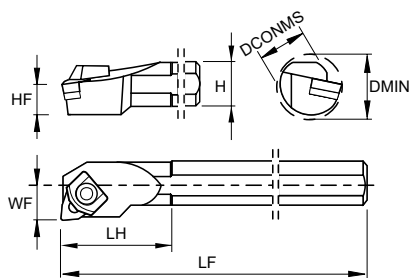
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Punch	Wedge Clamp	Wrench
S20S MWLN R/L 06	-	BC04502	D0300691	GW05000	SS25
S25T MWLN R/L 06	CW060300	BC04501	D0300691	GW05000	SS25
S32U MWLN R/L 06	CW060300	BC04501	D0300691	GW05000	SS25
S25T MWLN R/L 08	-	BC06001	D0400691	GW08000	SS25
S32U MWLN R/L 08	CW080500	BC06000	D0400691	GW08000	SS25
S40V MWLN R/L 08	CW080500	BC06000	D0400691	GW08000	SS25
S50W MWLN R/L 08	CW080500	BC06000	D0400691	GW08000	SS25
S60Y MWLN R/L 08	CW080500	BC06000	D0400691	GW08000	SS25

(M-K) DOUBLE LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212341200	212341300	S25T MWLN R/L 08-K	25	23	11,5	300	40	17	31	WN.. 0804..	0,700	⊗	⊗
212341400	212341500	S32U MWLN R/L 08-K	32	30	15,0	350	50	22	39	WN.. 0804..	2,050	○	○
212341600	212341700	S40V MWLN R/L 08-K	40	37	18,5	400	60	27	48	WN.. 0804..	3,750	○	○
212341800	212341900	S50W MWLN R/L 08-K	50	47	23,5	450	65	35	61	WN.. 0804..	6,500	○	○

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Lock Pin	Lock Pin Screw	Wedge Clamp	Wrench
S25T MWLN R/L 08-K	-	BC06001	D0400691	GW06000	SS25
S32U MWLN R/L 08-K	CW080500	BC06000	D0400691	GW06000	SS25
S40V MWLN R/L 08-K	CW080500	BC06000	D0400691	GW06000	SS25
S50W MWLN R/L 08-K	CW080500	BC06000	D0400691	GW06000	SS25

C (P) LEVER LOCK SYSTEM

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

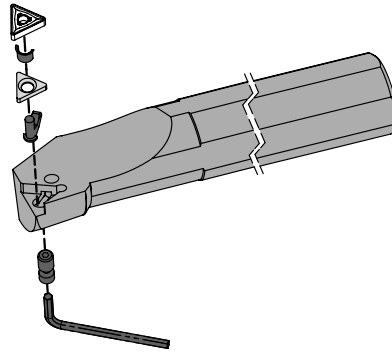
External Toolholders

Internal Toolholders

Automatic Lathes

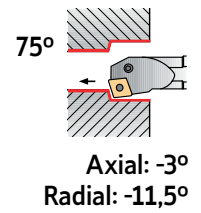
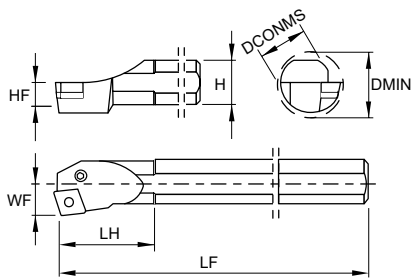
Spare Parts

Technical Data



<p>PCKN 75°</p> <p>PAGE C - 779 CN.. 1204.. CN.. 1606.. CN.. 1906..</p>	<p>PCLN 95°</p> <p>PAGE C - 780 CN.. 0903.. ... CN.. 1906..</p>	<p>A-PCLN 95°</p> <p>PAGE C - 781 CN.. 0903.. ... CN.. 1204..</p>	<p>PDUN 93°</p> <p>PAGE C - 782 DN.. 1104.. DN.. 1506..</p>	<p>A-PDUN 93°</p> <p>PAGE C - 783 DN.. 1104.. DN.. 1506..</p>	<p>PDUN 93° - BT</p> <p>PAGE C - 784 DN.. 1506..</p>
<p>PSKN 75°</p> <p>PAGE C - 785 SN.. 1204.. SN.. 1906..</p>	<p>A-PSKN 75°</p> <p>PAGE C - 786 SN.. 1204..</p>	<p>A-PSSN 45°</p> <p>PAGE C - 787 SN.. 1204..</p>	<p>PTFN 90°</p> <p>PAGE C - 788 TN.. 1604.. TN.. 2204..</p>	<p>A-PTFN 90°</p> <p>PAGE C - 789 TN.. 1604.. TN.. 2204..</p>	<p>PWLN 95°</p> <p>PAGE C - 790 WN.. 0604.. WN.. 0804..</p>
<p>A-PWLN 95°</p> <p>PAGE C - 791 WN.. 0604.. WN.. 0804..</p>					

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212342000	212342100	S25T PCKN R/L 12	25	23	11,5	300	40	17	31	CN.. 1204..	0,700	⊗	⊗
212342200	212342300	S32U PCKN R/L 12	32	30	15,0	350	50	22	39	CN.. 1204..	2,050	○	○
212342400	212342500	S40V PCKN R/L 12	40	37	18,5	400	60	27	48	CN.. 1204..	3,750	○	○
212421400	212421500	S50W PCKN R/L 12	50	47	23,5	450	60	35	61	CN.. 1204..	6,500	○	○
212421600	212421700	S60Y PCKN R/L 12	60	57	28,5	600	75	43	80	CN.. 1204..	12,600	○	○
212342600	212342700	S50W PCKN R/L 16	50	47	23,5	450	65	35	61	CN.. 1606..	6,500	○	○
212422000	212422100	S60Y PCKN R/L 16	60	57	28,5	600	75	43	80	CN.. 1606..	12,600	○	○
212342800	212342900	S50W PCKN R/L 19	50	47	23,5	450	65	35	61	CN.. 1906..	6,500	○	○
212422200	212422300	S60Y PCKN R/L 19	60	57	28,5	600	75	43	80	CN.. 1906..	12,600	○	○

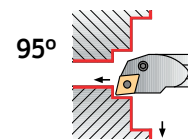
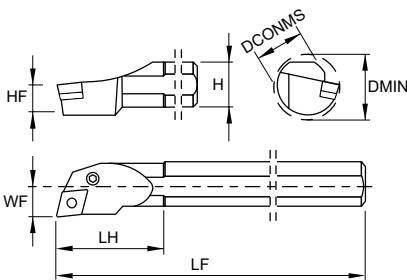
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
S25T PCKN R/L 12	-	-	-	AN12100	PA0601300	SS25
S32U PCKN R/L 12	CC120301	BE05500	BF47509	AC13200	PA0801700	SS30
S40V PCKN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S50W PCKN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S60Y PCKN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S50W PCKN R/L 16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
S60Y PCKN R/L 16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
S50W PCKN R/L 19	CC190500	BE08500	BF80012	AN20800	PA1002700	SS40
S60Y PCKN R/L 19	CC190500	BE08500	BF0012	AN20800	PA1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



95°
Axial: -5°
Radial: -13,5°

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212247000	212343000	S16R PCLN R/L 09	16	15	7,5	200	26	11	20	CN.. 0903..	0,300	⊗	⊗
212050600	212343100	S20S PCLN R/L 09	20	18	9,0	250	29	13	25	CN.. 0903..	0,550	⊗	⊗
212247100	212343200	S25T PCLN R/L 09	25	23	11,5	300	33	17	32	CN.. 0903..	0,700	⊗	⊗
212048400	212343300	S25T PCLN R/L 12	25	23	11,5	300	40	17	31	CN.. 1204..	0,700	⊗	⊗
212169900	212343400	S32U PCLN R/L 12	32	30	15,0	350	50	22	39	CN.. 1204..	2,050	○	○
212247200	212017300	S40V PCLN R/L 12	40	37	18,5	400	60	27	48	CN.. 1204..	3,750	○	○
212343500	212343600	S50W PCLN R/L 12	50	47	23,5	450	65	35	61	CN.. 1204..	6,500	○	○
212423300	212423400	S60Y PCLN R/L 12	60	57	28,5	600	75	43	80	CN.. 1204..	12,600	○	○
212423500	212423600	S40V PCLN R/L 16	40	37	18,5	400	50	27	48	CN.. 1606..	3,750	○	○
212017700	212343700	S50W PCLN R/L 16	50	47	23,5	450	65	35	61	CN.. 1606..	6,500	○	○
212423700	212423800	S60Y PCLN R/L 16	60	57	28,5	600	75	43	80	CN.. 1606..	12,600	○	○
212017800	212017600	S50W PCLN R/L 19	50	47	23,5	450	65	35	61	CN.. 1906..	6,500	○	○
212423900	212424000	S60Y PCLN R/L 19	60	57	28,5	600	75	43	80	CN.. 1906..	12,600	○	○

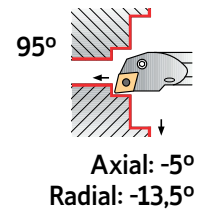
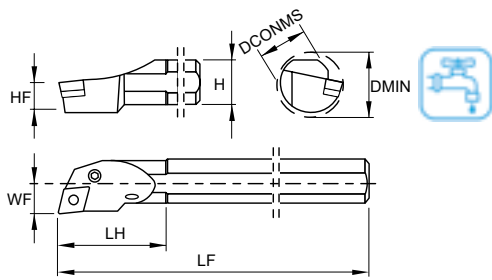
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
S16R PCLN R/L 09	-	-	-	AN07800	PA0501200	SS20
S20S PCLN R/L 09	-	-	-	AN07800	PA0501200	SS20
S25T PCLN R/L 09	CC090300	BE04400	BF40009	AN01200	PA0601300	SS25
S25T PCLN R/L 12	-	-	-	AN12100	PA0601300	SS25
S32U PCLN R/L 12	CC120301	BE05500	BF47509	AC13200	PA0801700	SS30
S40V PCLN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S50W PCLN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S60Y PCLN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30
S40V PCLN R/L 16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
S50W PCLN R/L 16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
S60Y PCLN R/L 16	CC160500	BE07000	BF65012	AN17100	PA0802300	SS30
S50W PCLN R/L 19	CC190500	BE08300	BF80012	AN20200	PA1002700	SS40
S60Y PCLN R/L 19	CC190500	BE08300	BF80012	AN20200	PA1002700	SS40

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212343800	212343900	A16M PCLN R/L 09	16	15	7,5	150	26	11	20	CN.. 0903..	0,200		
212344000	212344100	A20Q PCLN R/L 09	20	18	9,0	180	29	13	25	CN.. 0903..	0,400		
212344200	212344300	A25R PCLN R/L 12	25	23	11,5	200	40	17	31	CN.. 1204..	0,700		
212344400	212344500	A32S PCLN R/L 12	32	30	15,0	250	50	22	39	CN.. 1204..	1,400		
212344600	212344700	A40T PCLN R/L 12	40	37	18,5	300	60	27	48	CN.. 1204..	2,650		

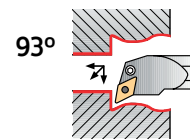
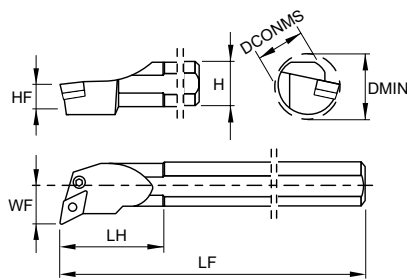
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
A16M PCLN R/L 09	-	-	-	AN07800	PA0501200	SS20
A20Q PCLN R/L 09	-	-	-	AN07800	PA0501200	SS20
A25R PCLN R/L 12	-	-	-	AN12100	PA0601300	SS25
A32S PCLN R/L 12	CC120301	BE05500	BF47509	AC13200	PA0801700	SS30
A40T PCLN R/L 12	CC120301	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS



Axial: -6°
Radial: -14°

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212079300	212344800	S25T PDUN R/L 11	25	23	11,5	300	35	17	32	DN.. 1104..	0,700	⊗	⊗
212247300	212344900	S32U PDUN R/L 11	32	30	15,0	350	40	22	40	DN.. 1104..	2,050	○	○
212079400	212079500	S32U PDUN R/L 15	32	30	15,0	350	50	22	39	DN.. 1506..	2,050	○	○
212345000	212345100	S40V PDUN R/L 15	40	37	18,5	400	60	27	48	DN.. 1506..	3,750	○	○
212018000	212017900	S50W PDUN R/L 15	50	47	23,5	450	65	35	61	DN.. 1506..	6,500	○	○

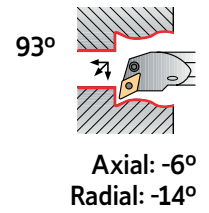
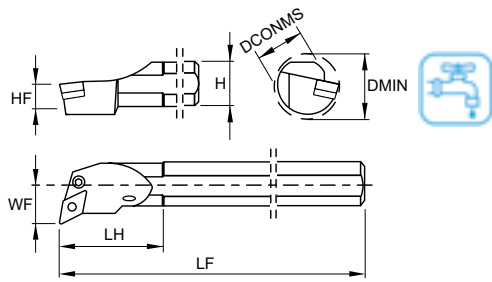
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						for inserts DN.. 1504..	
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench	Shim	Shim Pin
S25T PDUN R/L 11	CD110300	BE04400	BF40009	AN01200	PA0601700	SS25	-	-
S32U PDUN R/L 11	CD110300	BE04400	BF40009	AN01200	PA0601700	SS25	-	-
S32U PDUN R/L 15	CD150300	BE05500	BF47509	AN14700	PA0801700	SS30	CD150500	BE05401
S40V PDUN R/L 15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
S50W PDUN R/L 15	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401

(P) LEVER LOCK TOOLHOLDERS

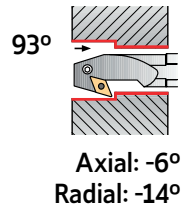
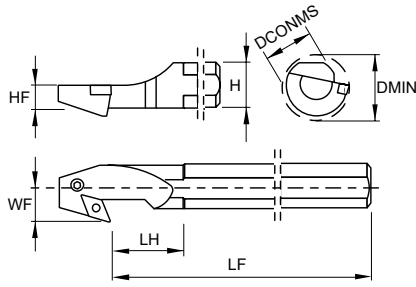


Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212345200	212345300	A25R PDUN R/L 11	25	23	11,5	200	40	17	31	DN.. 1104..	0,700		
212345400	212345500	A32S PDUN R/L 15	32	30	15,0	250	50	22	39	DN.. 1506..	1,400		
212345600	212345700	A40T PDUN R/L 15	40	37	18,5	300	60	27	48	DN.. 1506..	2,650		

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						for inserts DN.. 1504..	
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench	Shim\	Shim Pin
A25R PDUN R/L 11							-	-
A32S PDUN R/L 15							CD150500	BE05401
A40T PDUN R/L 15							CD150500	BE05401

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212345800	212345900	S32U PDUN R/L 15-BT	32	30	15,0	350	50	22	39	DN..1506..	2,050	○	○
212346000	212346100	S40V PDUN R/L 15-BT	40	37	18,5	400	60	27	48	DN..1506..	3,750	○	○
212346200	212346300	S50W PDUN R/L 15-BT	50	47	23,5	450	65	35	61	DN..1506..	6,500	○	○

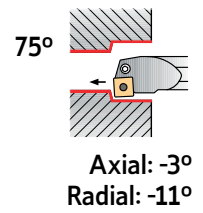
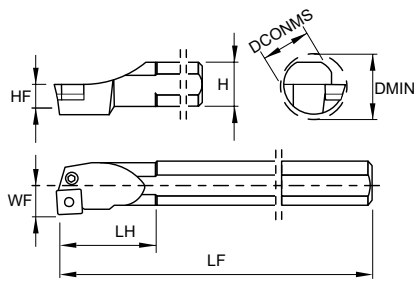
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately						for inserts DN..1504..	
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench	Shim	Shim Pin
S32U PDUN R/L 15-BT	-	-	-	AN14700	PA0801700	SS30	-	-
S40V PDUN R/L 15-BT	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401
S50W PDUN R/L 15-BT	CD150300	BE05500	BF47509	AN14700	PA0802101	SS30	CD150500	BE05401

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212050700	212346400	S25T PSKN R/L 12	25	23	11,5	300	40	17	31	SN..1204..	0,700	⊗	⊗
212346500	212346600	S32U PSKN R/L 12	32	30	15,0	350	50	22	39	SN..1204..	2,050	○	○
212346700	212346800	S40V PSKN R/L 12	40	37	18,5	400	60	27	48	SN..1204..	3,750	○	○
212424100	212424200	S40V PSKN R/L 15	40	37	18,5	400	50	27	48	SN..1506..	3,750	○	○
212424300	212424400	S50W PSKN R/L 15	50	47	23,5	450	60	35	61	SN..1506..	6,500	○	○
212346900	212347000	S50W PSKN R/L 19	50	47	23,5	450	65	35	61	SN..1906..	6,500	○	○
212424500	212424600	S60Y PSKN R/L 19	60	57	28,5	600	75	43	80	SN..1906..	12,600	○	○

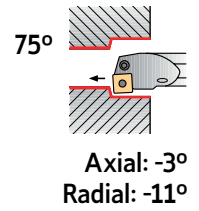
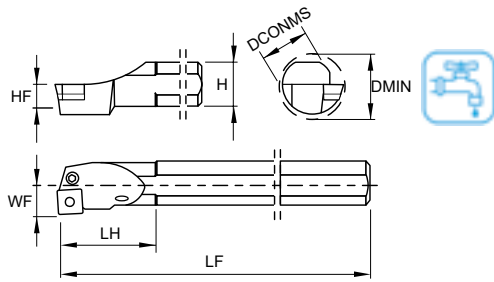
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
S25T PSKN R/L 12	-	-	-	AN12100	PA0601300	SS25
S32U PSKN R/L 12	CS120302	BE05500	BF47509	AC13200	PA0801700	SS30
S40V PSKN R/L 12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30
S40V PSKN R/L 15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
S50W PSKN R/L 15	CS150400	BE07000	BF65012	AN17100	PA0802300	SS30
S50W PSKN R/L 19	CS190400	BE08300	BF80012	AN20200	PA1003000	SS40
S60Y PSKN R/L 19	CS150400	BE08300	BF80012	AN20200	PA1003000	SS40

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212347100	212347200	A25R PSKN R/L 12	25	23	11,5	200	40	17	31	SN.. 1204..	0,700		
212347300	212347400	A32S PSKN R/L 12	32	30	15,0	250	50	22	39	SN.. 1204..	1,400		
212347500	212347600	A40T PSKN R/L 12	40	37	18,5	300	60	27	48	SN.. 1204..	2,650		

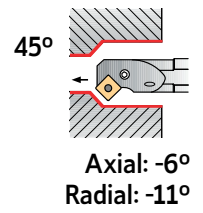
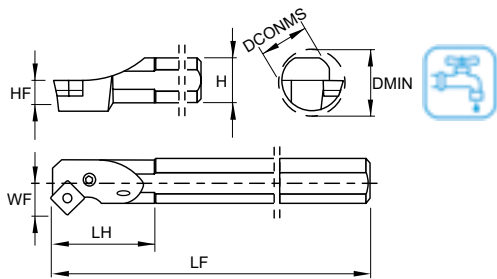
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
A25R PSKN R/L 12	-	-	-	AN12100	PA0601300	SS25
A32S PSKN R/L 12	CS120302	BE05500	BF47509	AC13200	PA0801700	SS30
A40T PSKN R/L 12	CS120302	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212347700	212347800	A25R PSSN R/L 12	25	23	11,5	200	40	17	31	SN..1204..	0,700		
212347900	212348000	A32S PSSN R/L 12	32	30	15,0	250	50	22	39	SN..1204..	2,050		

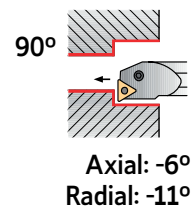
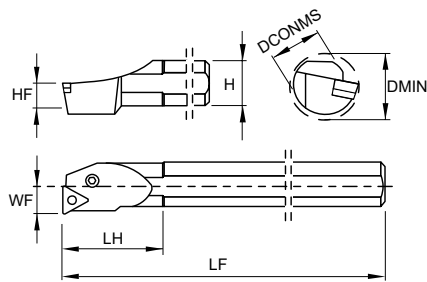
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
A25R PSKN R/L 12	-	-	-	AN12100	PA0601300	SS25
A32S PSKN R/L 12	CS120302	BE05500	BF47509	AC13200	PA0801700	SS30

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212054300	212348100	S25T PTFN R/L 16	25	23	11,5	300	40	17	31	TN.. 1604..	0,700	⊗	⊗
212045000	212348200	S32U PTFN R/L 16	32	30	15,0	350	50	22	39	TN.. 1604..	2,050	○	○
212424700	212424800	S40V PTFN R/L 16	40	37	18,5	400	50	27	48	TN.. 1604..	3,750	○	○
212424900	212425000	S50W PTFN R/L 16	50	47	23,5	450	60	35	61	TN.. 1604..	6,500	○	○
212348300	212348400	S40V PTFN R/L 22	40	37	18,5	400	60	27	48	TN.. 2204..	3,750	○	○
212348500	212348600	S50W PTFN R/L 22	50	47	23,5	450	65	35	61	TN.. 2204..	6,500	○	○

⊗ Stock item | Produto de stock | Itens de stock

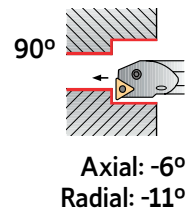
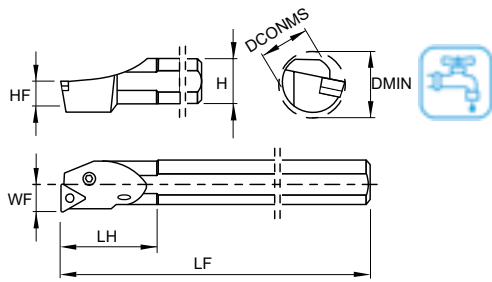
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
S25T PTFN R/L 16	-	-	-	AN09500	PA0501200	SS20
S32U PTFN R/L 16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
S40V PTFN R/L 16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
S50W PTFN R/L 16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
S40V PTFN R/L 22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30
S50W PTFN R/L 22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30

A-PTFN 90° Toolholders | Ferros de torno | Herramientas de torneado

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212348700	212348800	A25R PTFN R/L 16	25	23	11,5	200	40	17	31	TN.. 1604..	0,700	⊗	⊗
212348900	212349000	A32S PTFN R/L 16	32	30	15,0	250	50	22	39	TN.. 1604..	1,400	⊗	⊗
212349100	212349200	A40T PTFN R/L 22	40	37	18,5	300	60	27	48	TN.. 2204..	2,650	⊗	⊗

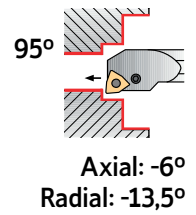
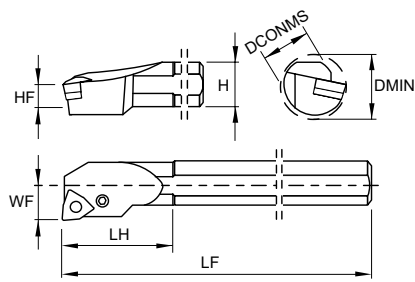
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
A25R PTFN R/L 16	-	-	-	AN09500	PA0501200	SS20
A32S PTFN R/L 16	CT160303	BE04400	BF40009	AN01200	PA0601700	SS25
A40T PTFN R/L 22	CT220302	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212046300	212349300	S16R PWLN R/L 06	16	15	7,5	200	24	11	20	WN..0604..	0,300	⊗	⊗
212219100	212349400	S20S PWLN R/L 06	20	18	9,0	250	36	13	27	WN..0604..	0,550	⊗	⊗
212249900	212349500	S25T PWLN R/L 06	25	23	11,5	300	40	17	31	WN..0604..	0,700	⊗	⊗
212046400	212349600	S25T PWLN R/L 08	25	23	11,5	300	40	17	31	WN..0804..	0,700	⊗	⊗
212349700	212349800	S32U PWLN R/L 08	32	30	15,0	350	50	22	39	WN..0804..	2,050	○	○
212349900	212350000	S40V PWLN R/L 08	40	37	18,5	400	60	27	48	WN..0804..	3,750	○	○

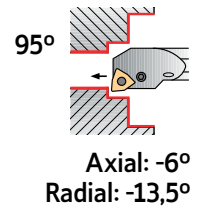
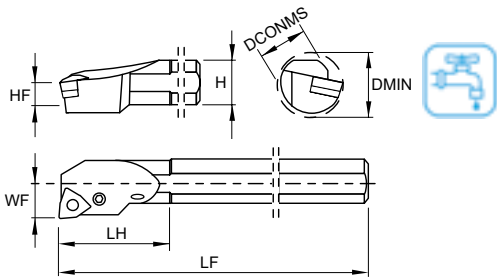
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
S16R PWLN R/L 06	-	-	-	AN09500	PA0501200	SS20
S20S PWLN R/L 06	-	-	-	AN09500	PA0501200	SS20
S25T PWLN R/L 06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
S25T PWLN R/L 08	-	-	-	AC13200	PA0801700	SS30
S32U PWLN R/L 08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30
S40V PWLN R/L 08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30

(P) LEVER LOCK TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212350100	212350200	A16M PWLN R/L 06	16	15	7,5	150	24	11	20	WN..0604..	0,200	⊗	⊗
212350300	212350400	A20Q PWLN R/L 06	20	18	9,0	180	36	13	27	WN..0604..	0,400	⊗	⊗
212350500	212350600	A25R PWLN R/L 06	25	23	11,5	200	40	17	31	WN..0604..	0,700	⊗	⊗
212350700	212350800	A32S PWLN R/L 06	32	30	15,0	250	50	22	39	WN..0604..	1,400	⊗	⊗
212350900	212351000	A25R PWLN R/L 08	25	23	11,5	200	40	17	31	WN..0804..	0,700	⊗	⊗
212351300	212351400	A32S PWLN R/L 08	32	30	15,0	250	50	22	39	WN..0804..	1,400	⊗	⊗
212351100	212351200	A40T PWLN R/L 08	40	37	18,5	300	60	27	48	WN..0804..	2,650	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Order separately					
	Shim	Shim Pin	Shim Pin Punch	Lever	Lever Screw	Wrench
A16M PWLN R/L 06	-	-	-	AN09500	PA0501200	SS20
A20Q PWLN R/L 06	-	-	-	AN09500	PA0501200	SS20
A25R PWLN R/L 06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
A32S PWLN R/L 06	CW060301	BE04400	BF40009	AN01200	PA0601700	SS25
A25R PWLN R/L 08	-	-	-	AC13200	PA0801700	SS30
A32S PWLN R/L 08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30
A40T PWLN R/L 08	CW080300	BE05500	BF47509	AN13100	PA0802100	SS30

C (S) CENTER SCREW SYSTEM

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

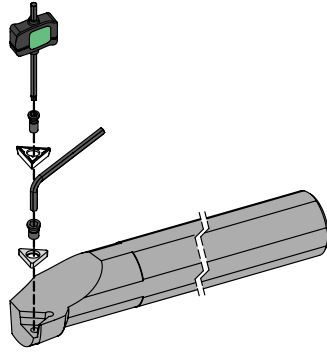
External Toolholders

Internal Toolholders

Automatic Lathes

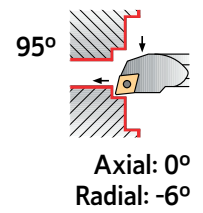
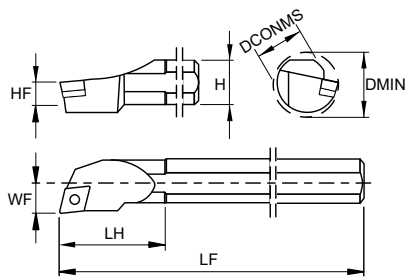
Spare Parts

Technical Data



<p>SCLC 95°</p> <p>PAGE C - 793 CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>A-SCLC 95°</p> <p>PAGE C - 794 CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>E-SCLC 95°</p> <p>PAGE C - 795 CC.. 0602.. CC.. 09T3..</p>	<p>SCLC N 95°</p> <p>PAGE C - 796 CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>SDQC 107°30'</p> <p>PAGE C - 797 DC.. 0702.. DC.. 11T3..</p>	<p>A-SDQC 107°30'</p> <p>PAGE C - 798 DC.. 0702.. DC.. 11T3..</p>
<p>SDUC 93°</p> <p>PAGE C - 799 DC.. 0702.. DC.. 11T3..</p>	<p>A-SDUC 93°</p> <p>PAGE C - 800 DC.. 0702.. DC.. 11T3..</p>	<p>E-SDUC 93°</p> <p>PAGE C - 801 DC.. 0702..</p>	<p>SDUC 93° - BT</p> <p>PAGE C - 802 DC.. 0702.. DC.. 11T3..</p>	<p>A-SDUC 93° - BT</p> <p>PAGE C - 803 DC.. 0702.. DC.. 11T3..</p>	<p>SSKC 75°</p> <p>PAGE C - 804 SC..09T3.. SC.. 1204..</p>
<p>A-SSSC 45°</p> <p>PAGE C - 805 SC.. 09T3..</p>	<p>STFC 90°</p> <p>PAGE C - 806 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>A-STFC 90°</p> <p>PAGE C - 807 TC.. 0902.. TC.. 1102.. TC.. 16T3..</p>	<p>E-STFC 90°</p> <p>PAGE C - 808 TC.. 0902.. TC.. 1102..</p>	<p>STUC 93°</p> <p>PAGE C - 809 TC.. 1102.. TC.. 16T3..</p>	<p>SVQC 107°30'</p> <p>PAGE C - 810 VC.. 1103.. VC.. 1604..</p>
<p>A-SVQC 107°30'</p> <p>PAGE C - 811 VC.. 1103.. VC.. 1604..</p>	<p>SVUB 93°</p> <p>PAGE C - 812 VB.. 1604..</p>	<p>SVUC 93°</p> <p>PAGE C - 813 VC.. 1103.. VC.. 1604..</p>	<p>A-SVUC 93°</p> <p>PAGE C - 814 VC.. 1103.. VC.. 1604..</p>	<p>A-SVJC 93°</p> <p>PAGE C - 815 VC.. 1103.. VC.. 1604..</p>	

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212046700	212141400	S08K SCLC R/L 06	8	7	3,5	125	16	5	11	CC.. 0602..	0,040	⊗	⊗
212039800	212141500	S10M SCLC R/L 06	10	9	4,5	150	25	7	13	CC.. 0602..	0,060	⊗	⊗
212047300	212141600	S12M SCLC R/L 06	12	11	5,5	150	25	9	16	CC.. 0602..	0,150	⊗	⊗
212079200	212141700	S12M SCLC R/L 09	12	11	5,5	150	25	9	16	CC.. 09T3..	0,150	⊗	⊗
212315200	212315300	S12Q SCLC R/L 09	12	11	5,5	180	25	9	16	CC.. 09T3..	0,150	⊗	⊗
212041600	212044200	S16R SCLC R/L 09	16	15	7,5	200	30	11	20	CC.. 09T3..	0,300	⊗	⊗
212141900	212141800	S20S SCLC R/L 09	20	18	9,0	250	35	13	24	CC.. 09T3..	0,550	⊗	⊗
212142100	212142000	S25T SCLC R7L 09	25	23	11,5	300	40	17	31	CC.. 09T3..	0,550	⊗	⊗
212047400	212142200	S20S SCLC R/L 12	20	18	9,0	250	35	13	24	CC.. 1204..	0,550	⊗	⊗
212045500	212142300	S25T SCLC R/L 12	25	23	11,5	300	40	17	31	CC.. 1204..	0,700	⊗	⊗
212142500	212142400	S32U SCLC R/L 12	32	30	15,0	350	50	22	39	CC.. 1204..	2,050	○	○
212142700	212142600	S40V SCLC R/L 12	40	37	18,5	400	60	27	48	CC.. 1204..	3,750	○	○
212142900	212142800	S50W SCLC R/L 12	50	47	23,5	450	65	35	61	CC.. 1204..	6,500	○	○

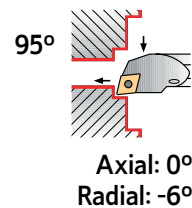
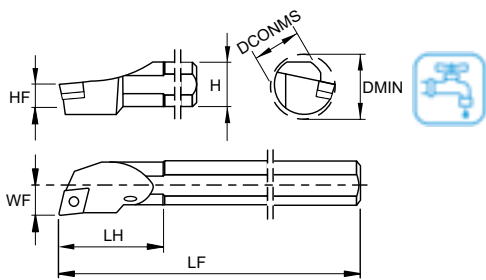
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim S crew	Screw	Wrench
S08K SCLC R/L 06	-	-	P0200601	XT07
S10M SCLC R/L 06	-	-	P0200601	XT07
S12M SCLC R/L 06	-	-	P0200601	XT07
S12M SCLC R/L 09	-	-	P0400802	XT15-S35
S12Q SCLC R/L 09	-	-	P0400802	XT15-S35
S16R SCLC R/L 09	-	-	P0400802	XT15-S35
S20S SCLC R/L 09	-	-	P0400802	XT15-S35
S25T SCLC R7L 09	-	-	P0400802	XT15-S35
S20S SCLC R/L 12	-	-	P0501200	XT15-S40
S25T SCLC R/L 12	-	-	P0501200	XT15-S40
S32U SCLC R/L 12	CC120401	T06004000	P0401400	XT15-S40
S40V SCLC R/L 12	CC120401	T06004000	P0401400	XT15-S40
S50W SCLC R/L 12	CC120401	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212315400	212315500	A08F SCLC R/L 06	8	7	3,5	80	16	5	11	CC.. 0602..	0,030		
212315600	212315700	A10H SCLC R/L 06	10	9	4,5	100	25	7	13	CC.. 0602..	0,040		
212315800	212315900	A12K SCLC R/L 06	12	11	5,5	125	25	9	16	CC.. 0602..	0,100		
212316000	212316100	A16M SCLC R/L 09	16	15	7,5	150	30	11	20	CC.. 09T3..	0,200		
212316200	212316300	A20Q SCLC R/L 09	20	18	9,0	180	35	13	24	CC.. 09T3..	0,400		
212316400	212316500	A25R SCLC R/L 09	25	23	11,5	200	40	17	31	CC.. 09T3..	0,700		
212316600	212316700	A32S SCLC R/L 12	32	30	15,0	250	50	22	39	CC.. 1204..	1,400		
212316800	212316900	A40T SCLC R/L 12	40	37	18,5	300	60	27	48	CC.. 1204..	2,650		

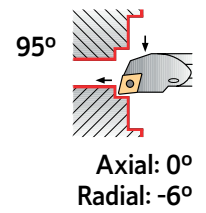
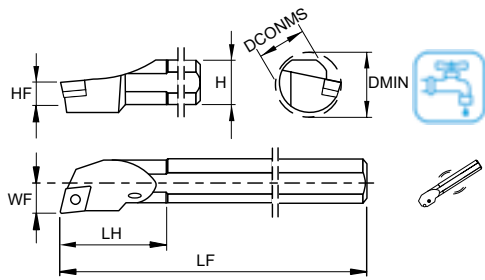
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim S crew	Screw	Wrench
A08F SCLC R/L 06				
A10H SCLC R/L 06	-	-	P0200601	XT07
A12K SCLC R/L 06	-	-	P0200601	XT07
A16M SCLC R/L 09	-	-	P0400802	XT15-S35
A20Q SCLC R/L 09	-	-	P0400802	XT15-S35
A25R SCLC R/L 09	-	-	P0400802	XT15-S35
A32S SCLC R/L 12	CC120401	T06004000	P0401400	XT15-S40
A40T SCLC R/L 12	CC120401	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212317800	212317900	E08K SCLC R/L 06	8	7	3,5	125	16	5	11	CC.. 0602..	0,080		
212318000	212318100	E10M SCLC R/L 06	10	9	4,5	150	25	7	13	CC.. 0602..	0,150		
212317400	212318300	E12Q SCLC R/L 06	12	11	5,5	180	25	9	16	CC.. 0602..	0,250		
212318400	212317600	E16R SCLC R/L 09	16	15	7,5	200	30	11	20	CC.. 09T3..	0,600		

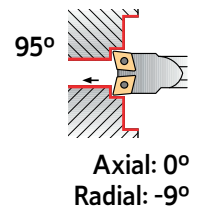
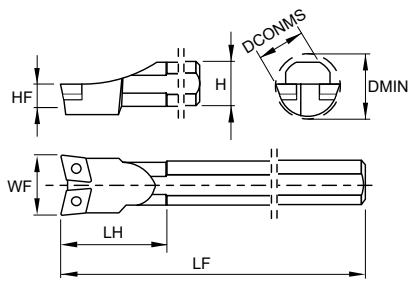
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
E08K SCLC R/L 06	P0200601	XT07
E10M SCLC R/L 06	P0200601	XT07
E12M SCLC R/L 06	P0200601	XT07
E16R SCLC R/L 09	P0400802	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)							Insert	WT	Stock
		DCONMS	H	HF	LF	LH	WF	DMIN			
212143000	S12M SCLC N 06	12	11	5,5	150	25	18	20	CC.. 0602..	0,150	⊗
212143100	S16R SCLC N 06	16	15	7,5	200	30	22	25	CC.. 0602..	0,300	⊗
212143200	S20S SCLC N 06	20	18	9,0	250	35	26	30	CC.. 0602..	0,550	⊗
212143300	S25T SCLC N 09	25	23	11,5	300	40	34	40	CC.. 09T3..	0,700	⊗
212143400	S32U SCLC N 12	32	30	15,0	350	50	44	50	CC.. 1204..	2,050	○
212143500	S40V SCLC N 12	40	37	18,5	400	60	54	60	CC.. 1204..	3,750	○
212143600	S50W SCLC N 12	50	47	23,5	450	65	62	68	CC.. 1204..	6,500	○

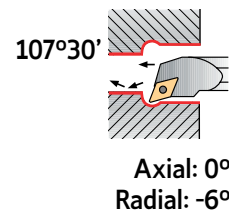
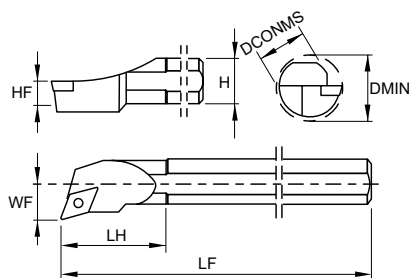
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S12M SCLC N 06	-	-	P0200601	XT07
S16R SCLC N 06	-	-	P0200601	XT07
S20S SCLC N 06	-	-	P0200601	XT07
S25T SCLC N 09	-	-	P0400802	XT15-S35
S32U SCLC N 12	CC120401	T06004000	P0401400	XT15-S40
S40V SCLC N 12	CC120401	T06004000	P0401400	XT15-S40
S50W SCLC N 12	CC120401	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212147000	212146900	S10M SDQC R/L 07	10	9	4,5	150	25	7	13	DC.. 0702..	0,060	⊗	⊗
212147200	212147100	S12M SDQC R/L 07	12	11	5,5	150	25	9	16	DC.. 0702..	0,150	⊗	⊗
212147400	212147300	S16R SDQC R/L 07	16	15	7,5	200	30	11	20	DC.. 0702..	0,300	⊗	⊗
212147600	212147500	S20S SDQC R/L 07	20	18	9,0	250	35	13	24	DC.. 0702..	0,550	⊗	⊗
212147800	212147700	S20S SDQC R/L 11	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550	⊗	⊗
212148000	212147900	S25T SDQC R/L 11	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700	⊗	⊗
212148100	212148200	S32U SDQC R/L 11	32	30	15,0	350	50	22	39	DC.. 11T3..	2,050	○	○
212148300	212148400	S40V SDQC R/L 11	40	37	18,5	400	60	27	48	DC.. 11T3..	3,750	○	○

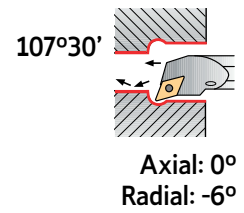
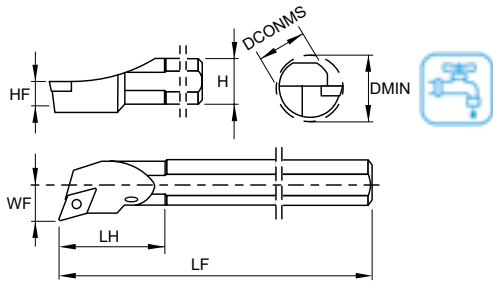
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S10M SDQC R/L 07	-	-	P0200601	XT07
S12M SDQC R/L 07	-	-	P0250700	XT07
S16R SDQC R/L 07	-	-	P0250700	XT07
S20S SDQC R/L 07	-	-	P0250700	XT07
S20S SDQC R/L 11	-	-	P0401100	XT15-S35
S25T SDQC R/L 11	-	-	P0401100	XT15-S35
S32U SDQC R/L 11	CD110301	T05003500	P0351500	XT15-S35
S40V SDQC R/L 11	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212318600	212318700	A12K SDQC R/L 07	12	11	5,5	125	25	9	16	DC.. 0702..	0,100	⊗	⊗
212318800	212318900	A16M SDQC R/L 07	16	15	7,5	150	30	11	20	DC.. 0702..	0,200	⊗	⊗
212319000	212319100	A20Q SDQC R/L 11	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400	⊗	⊗
212319200	212319300	A25R SDQC R/L 11	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700	⊗	⊗
212319400	212319500	A32S SDQC R/L 11	32	30	15,0	250	50	22	39	DC.. 11T3..	1,400	⊗	⊗
212319600	212319700	A40T SDQC R/L 11	40	37	18,5	300	60	27	48	DC.. 11T3..	2,650	⊗	⊗

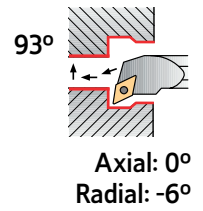
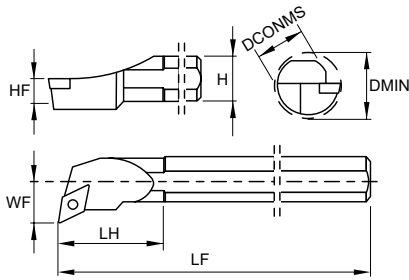
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
A12K SDQC R/L 07	-	-	P0250700	XT07
A16M SDQC R/L 07	-	-	P0250700	XT07
A20Q SDQC R/L 11	-	-	P0401100	XT15-S35
A25R SDQC R/L 11	-	-	P0401100	XT15-S35
A32S SDQC R/L 11	CD110301	T05003500	P0351500	XT15-S35
A40T SDQC R/L 11	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212144700	212144600	S10M SDUC R/L 07	10	9	4,5	150	25	7	13	DC.. 0702..	0,060	⊗	⊗
212028500	212028600	S12M SDUC R/L 07	12	11	5,5	150	25	9	16	DC.. 0702..	0,150	⊗	⊗
212319800	212319900	S12Q SDUC R/L 07	12	11	5,5	180	25	9	16	DC.. 0702..	0,150	⊗	⊗
212028700	212028800	S16R SDUC R/L 07	16	15	7,5	200	30	11	20	DC.. 0702..	0,300	⊗	⊗
212144900	212144800	S20S SDUC R/L 07	20	18	9,0	250	35	13	24	DC.. 0702..	0,550	⊗	⊗
212036800	212028900	S20S SDUC R/L 11	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550	⊗	⊗
212029000	212038400	S25T SDUC R/L 11	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700	⊗	⊗
212145200	212145100	S32U SDUC R/L 11	32	30	15,0	350	50	22	39	DC.. 11T3..	2,050	○	○
212145400	212145300	S40V SDUC R/L 11	40	37	18,5	400	60	27	48	DC.. 11T3..	3,750	○	○

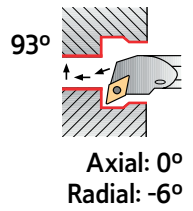
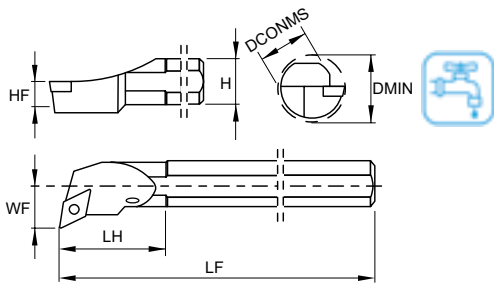
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S10M SDUC R/L 07	-	-	P0200601	XT07
S12M SDUC R/L 07	-	-	P0250700	XT07
S12Q SDUC R/L 07	-	-	P0250700	XT07
S16R SDUC R/L 07	-	-	P0250700	XT07
S20S SDUC R/L 07	-	-	P0250700	XT07
S20S SDUC R/L 11	-	-	P0401100	XT15-S35
S25T SDUC R/L 11	-	-	P0401100	XT15-S35
S32U SDUC R/L 11	CD110301	T05003500	P0351500	XT15-S40
S40V SDUC R/L 11	CD110301	T05003500	P0351500	XT15-S40

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212320000	212320100	A12K SDUC R/L 07	12	11	5,5	125	25	9	16	DC.. 0702..	0,100	⊗	⊗
212320200	212320300	A16M SDUC R/L 07	16	15	7,5	150	30	11	20	DC.. 0702..	0,200	⊗	⊗
212320400	212320500	A20Q SDUC R/L 11	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400	⊗	⊗
212320600	212320700	A25R SDUC R/L 11	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700	⊗	⊗
212320800	212320900	A32S SDUC R/L 11	32	30	15,0	250	50	22	39	DC.. 11T3..	1,400	⊗	⊗
212321000	212321100	A40T SDUC R/L 11	40	37	18,5	300	60	27	48	DC.. 11T3..	2,650	⊗	⊗

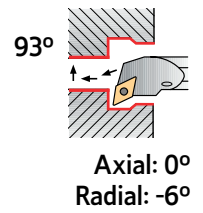
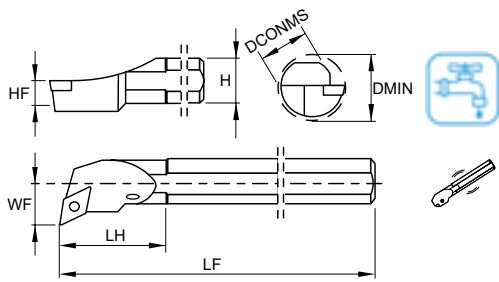
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
A12K SDUC R/L 07	-	-	P0250700	XT07
A16M SDUC R/L 07	-	-	P0250700	XT07
A20Q SDUC R/L 11	-	-	P0401100	XT15-S35
A25R SDUC R/L 11	-	-	P0401100	XT15-S35
A32S SDUC R/L 11	CD110301	T05003500	P0351500	XT15-S35
A40T SDUC R/L 11	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212321800	212321300	E10M SDUC R/L 07	10	9	4,5	150	25	7	13	DC.. 0702..	0,150	⊗	⊗
212322000	212322100	E12Q SDUC R/L 07	12	11	5,5	180	25	9	16	DC.. 0702..	0,250	⊗	⊗
212322200	212321700	E16R SDUC R/L 07	16	15	7,5	200	30	11	20	DC.. 0702..	0,600	⊗	⊗

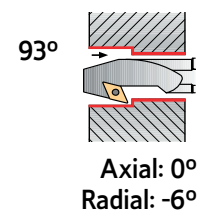
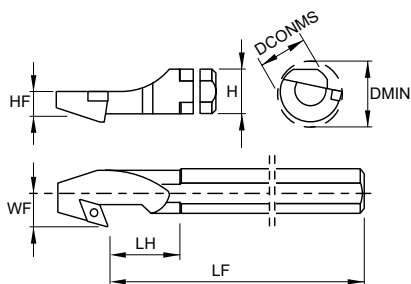
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
E10M SDUC R/L 07	P0200601	XT07
E12M SDUC R/L 07	P0250700	XT07
E16R SDUC R/L 07	P0250700	XT07

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212145600	212145500	S12M SDUC R/L 07-BT	12	11	5,5	150	25	9	16	DC.. 0702..	0,150	⊗	⊗
212145800	212145700	S16R SDUC R/L 07-BT	16	15	7,5	200	30	11	20	DC.. 0702..	0,300	⊗	⊗
212146000	212145900	S20S SDUC R/L 07-BT	20	18	9,0	250	35	13	24	DC.. 0702..	0,550	⊗	⊗
212146200	212146100	S20S SDUC R/L 11-BT	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550	⊗	⊗
212146400	212146300	S25T SDUC R/L 11-BT	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700	⊗	⊗
212146600	212146500	S32U SDUC R/L 11-BT	32	30	15,0	350	50	22	39	DC.. 11T3..	2,050	○	○
212146800	212146700	S40V SDUC R/L 11-BT	40	37	18,5	400	60	27	48	DC.. 11T3..	3,750	○	○

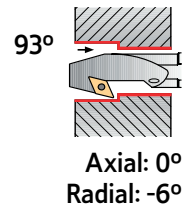
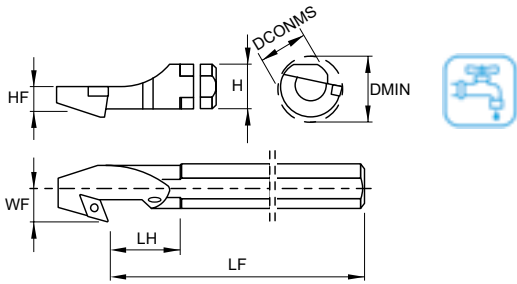
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S12M SDUC R/L 07-BT	-	-	P0250700	XT07
S16R SDUC R/L 07-BT	-	-	P0250700	XT07
S20S SDUC R/L 07-BT	-	-	P0250700	XT07
S20S SDUC R/L 11-BT	-	-	P0400802	XT15-S35
S25T SDUC R/L 11-BT	-	-	P0401100	XT15-S35
S32U SDUC R/L 11-BT	CD110301	T05003500	P0351500	XT15-S35
S40V SDUC R/L 11-BT	CD110301	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212322400	212322500	A12K SDUC R/L 07-BT	12	11	5,5	125	25	9	16	DC.. 0702..	0,100		
212322600	212322700	A16M SDUC R/L 07-BT	16	15	7,5	150	30	11	20	DC.. 0702..	0,200		
212322800	212322900	A20Q SDUC R7L 11-BT	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400		
212323000	212323100	A25R SDUC R/L 11-BT	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700		

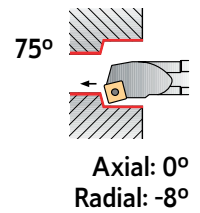
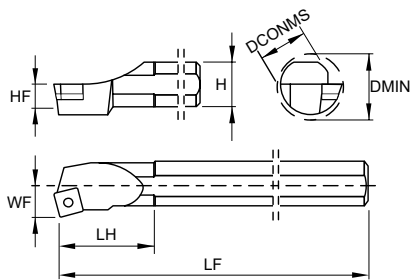
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
	A12K SDUC R/L 07-BT	P0250700
A16M SDUC R/L 07-BT	P0250700	XT07
A20Q SDUC R7L 11-BT	P0400802	XT15-S35
A25R SDUC R/L 11-BT	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212150400	212150300	S16R SSKC R/L 09	16	15	7,5	200	30	11	20	SC.. 09T3..	0,300	⊗	⊗
212150600	212150500	S20S SSKC R/L 09	20	18	9,0	250	35	13	24	SC.. 09T3..	0,550	⊗	⊗
212045800	212150700	S25T SSKC R/L 09	25	23	11,5	300	40	17	31	SC.. 09T3..	0,700	⊗	⊗
212045900	212150800	S32U SSKC R/L 12	32	30	15,0	350	50	22	39	SC.. 1204..	2,050	○	○
212151000	212150900	S40V SSKC R/L 12	40	37	18,5	400	60	27	48	SC.. 1204..	3,750	○	○
212151200	212151100	S50W SSKC R/L 12	50	47	23,5	450	65	35	61	SC.. 1204..	6,500	○	○

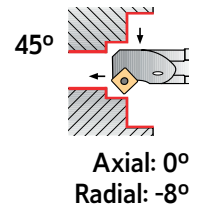
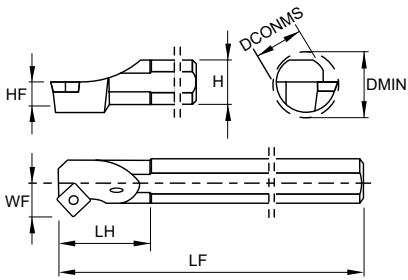
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S16R SSKC R/L 09	-	-	P0400802	XT15-S35
S20S SSKC R/L 09	-	-	P0400802	XT15-S35
S25T SSKC R/L 09	-	-	P0400802	XT15-S35
S32U SSKC R/L 12	CC120400	T06004000	P0401400	XT15-S40
S40V SSKC R/L 12	CC120400	T06004000	P0401400	XT15-S40
S50W SSKC R/L 12	CC120400	T06004000	P0401400	XT15-S40

(S) CENTER SCREW TOOLHOLDERS





Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212323200	212323300	A16M SSSC R/L 09	16	15	7,5	150	30	11	20	SC.. 09T3..	0,300	⊗	⊗
212323400	212323500	A20Q SSSC R/L 09	20	18	9,0	180	35	13	24	SC.. 09T3..	0,550	⊗	⊗
212323600	212323700	A25R SSSC R/L 09	25	23	11,5	200	40	17	31	SC.. 09T3..	0,700	⊗	⊗

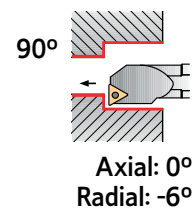
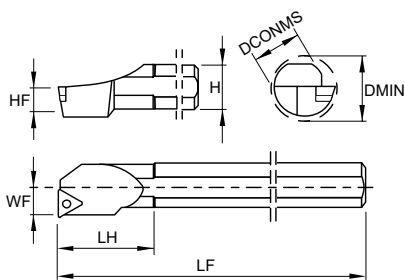
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
A16M SSSC R/L 09	 P0400802	 XT15-S35
A20Q SSSC R/L 09	P0400802	XT15-S35
A25R SSSC R/L 09	P0400802	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212159500	212159400	S10M STFC R/L 09	10	9	4,5	150	25	7	13	TC.. 0902..	0,060	⊗	⊗
212159700	212159600	S12M STFC R/L 09	12	11	5,5	150	25	9	16	TC.. 0902..	0,150	⊗	⊗
212039500	212159800	S12M STFC R/L 11	12	11	5,5	150	25	9	16	TC.. 1102..	0,150	⊗	⊗
212323800	212323900	S12Q STFC R/L 11	12	11	5,5	180	25	9	16	TC.. 1102..	0,050	⊗	⊗
212160000	212159900	S16R STFC R/L 11	16	15	7,5	200	30	11	20	TC.. 1102..	0,300	⊗	⊗
212021000	212160100	S20S STFC R/L 11	20	18	9,0	250	35	13	24	TC.. 1102..	0,550	⊗	⊗
212250700	212324000	S20S STFC R/L 16	20	18	9,0	250	35	13	24	TC.. 16T3..	0,550	⊗	⊗
212160300	212160200	S25T STFC R/L 16	25	23	11,5	300	40	17	31	TC.. 16T3..	0,700	⊗	⊗
212160500	212160400	S32U STFC R/L 16	32	30	15,0	350	50	22	39	TC.. 16T3..	2,050	○	○
212160700	212160600	S40V STFC R/L 16	40	37	18,5	400	60	27	48	TC.. 16T3..	3,750	○	○

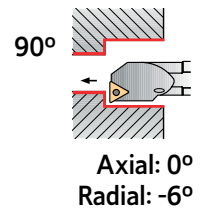
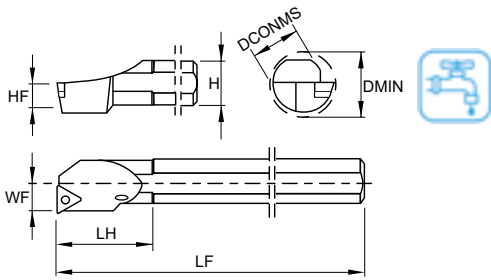
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S10M STFC R/L 09	-	-	P0220600	XT06
S12M STFC R/L 09	-	-	P0220600	XT06
S12M STFC R/L 11	-	-	P0250700	XT07
S12Q STFC R/L 11	-	-	P0250700	XT07
S16R STFC R/L 11	-	-	P0250700	XT07
S20S STFC R/L 11	-	-	P0250700	XT07
S20S STFC R/L 16	-	-	P0401100	XT15-S35
S25T STFC R/L 16	-	-	P0401100	XT15-S35
S32U STFC R/L 16	CT160302	T05003500	P0351500	XT15-S35
S40V STFC R/L 16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212324100	212324200	A10H STFC R/L 09	10	9	4,5	100	25	7	13	TC.. 0902..	0,040		
212324300	212324400	A12K STFC R/L 11	12	11	5,5	125	25	9	16	TC.. 1102..	0,100		
212324500	212324600	A16M STFC R/L 11	16	15	7,5	150	30	11	20	TC.. 1102..	0,200		
212324700	212324800	A20Q STFC R/L 11	20	18	9,0	180	35	13	24	TC.. 1102..	0,400		
212324900	212325000	A25R STFC R/L 16	25	23	11,5	200	40	17	31	TC.. 16T3..	0,700		
212325100	212325200	A32S STFC R/L 16	32	30	15,0	250	50	22	39	TC.. 16T3..	1,400		
212325300	212325400	A40T STFC R/L 16	40	37	18,5	300	60	27	48	TC.. 16T3..	2,650		

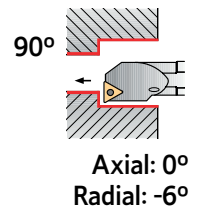
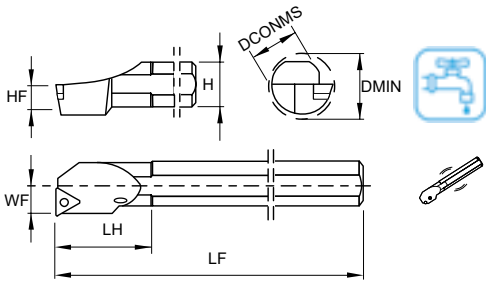
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
A10H STFC R/L 09	-	-	P0220600	XT06
A12K STFC R/L 11	-	-	P0250700	XT07
A16M STFC R/L 11	-	-	P0250700	XT07
A20Q STFC R/L 11	-	-	P0250700	XT07
A25R STFC R/L 16	-	-	P0401100	XT15-S35
A32S STFC R/L 16	CT160302	T05003500	P0351500	XT15-S35
A40T STFC R/L 16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212326200	212326300	E12Q STFC R/L 11	12	11	5,5	180	25	9	16	TC..1102..	0,250		
212326400	212326500	E16R STFC R/L 11	16	15	7,5	200	30	11	20	TC..1102..	0,600		

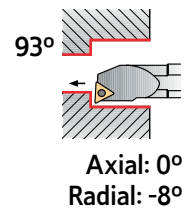
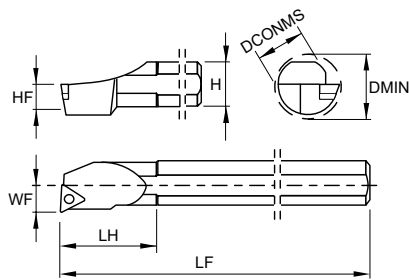
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
E12M STFC R/L 11	P0250700	XT07
E16R STFC R/L 11	P0400802	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212029100	212029200	S12M STUC R/L 11	12	11	5,5	150	25	9	16	TC.. 1102..	0,150		
212029300	212029400	S16R STUC R/L 16	16	15	7,5	200	30	11	20	TC.. 16T3..	0,300		
212036900	212029500	S20S STUC R/L 16	20	18	9,0	250	35	13	24	TC.. 16T3..	0,550		
212029600	212029700	S25T STUC R/L 16	25	23	11,5	300	40	17	31	TC.. 16T3..	0,700		
212160800	212044600	S32U STUC R/L 16	32	30	15,0	350	50	22	39	TC.. 16T3..	2,050		

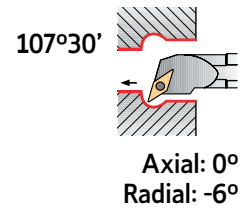
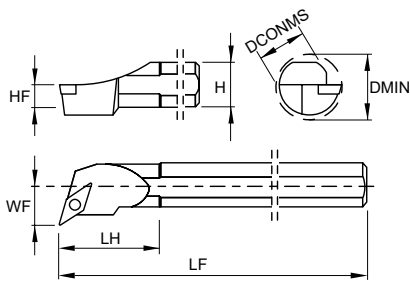
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S12M STUC R/L 11	-	-	P0250700	XT07
S16R STUC R/L 16	-	-	P0401100	XT15-S35
S20S STUC R/L 16	-	-	P0401100	XT15-S35
S25T STUC R/L 16	-	-	P0401100	XT15-S35
S32U STUC R/L 16	CT160302	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212165000	212165100	S16R SVQC R/L 11	16	15	7,5	200	30	11	20	VC.. 1103..	0,300		
212165200	212165300	S20S SVQC R/L 11	20	18	9,0	250	35	13	24	VC.. 1103..	0,550		
212165500	212165400	S16R SVQC R/L 13	16	15	7,5	200	30	13	22	VC.. 1103..	0,300		
212165700	212165600	S20S SVQC R/L 13	20	18	9,0	250	35	13	24	VC.. 1103..	0,550		
212165900	212165800	S25T SVQC R/L 16	25	23	11,5	300	40	17	31	VC.. 1604..	0,700		

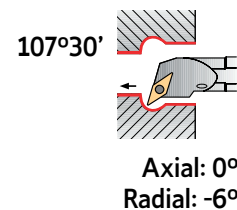
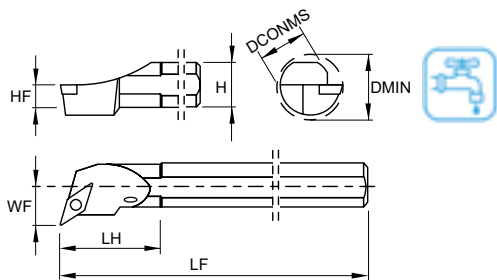
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S16R SVQC R/L 11				
S20S SVQC R/L 11	-	-	P0250700	XT07
S16R SVQC R/L 13	-	-	P0300900	XT08
S20S SVQC R/L 13	-	-	P0300900	XT08
S25T SVQC R/L 16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212326600	212326700	A16M SVQC R/L 11	16	15	7,5	150	30	11	20	VC.. 1103..	0,200		
212326800	212326900	A20Q SVQC R/L 11	20	18	9,0	180	35	13	24	VC.. 1103..	0,400		
212327000	212327100	A25R SVQC R/L 16	25	23	11,5	200	40	17	31	VC.. 1604..	0,700		
212327200	212327300	A32S SVQC R/L 16	32	30	15,0	250	50	22	39	VC.. 1604..	1,400		
212327400	212327500	A40T SVQC R/L 16	40	37	18,5	300	60	27	48	VC.. 1604..	2,650		

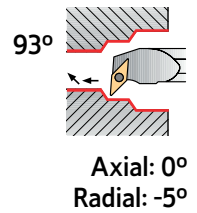
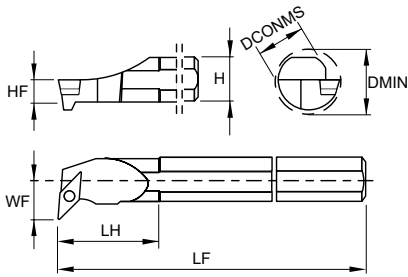
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
A16M SVQC R/L 11	-	-	P0250700	XT07
A20Q SVQC R/L 11	-	-	P0250700	XT07
A25R SVQC R/L 16	CV160300	T05003500	P0351500	XT15-S35
A32S SVQC R/L 16	CV160300	T05003500	P0351500	XT15-S35
A40T SVQC R/L 16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212056200	212327600	S25T SVUB R/L 16	25	23	11,5	300	40	17	31	VB.. 1604..	0,700	⊗	⊗
212327700	212327800	S32U SVUB R/L 16	32	30	15,0	350	50	22	39	VB.. 1604..	2,050	○	○
212327900	212328000	S40V SVUB R/L 16	40	37	18,5	400	60	27	48	VB.. 1604..	3,750	○	○

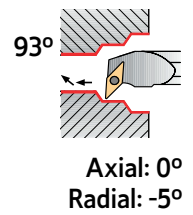
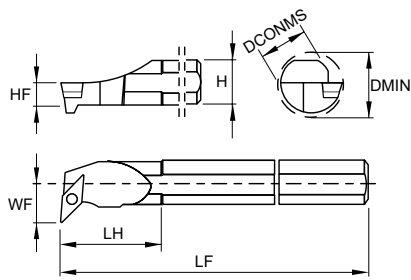
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S25T SVUB R/L 16	CV160300	T05003500	P0351500	XT15-S35
S32U SVUB R/L 16	CV160300	T05003500	P0351500	XT15-S35
S40V SVUB R/L 16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212166000	212166100	S16R SVUC R/L 11	16	15	7,5	200	30	11	20	VC.. 1103..	0,300	⊗	⊗
212166200	212166300	S20S SVUC R/L 11	20	18	9,0	250	35	13	24	VC.. 1103..	0,550	⊗	⊗
212328100	212166400	S25T SVUC R/L 16	25	23	11,5	300	40	17	31	VC.. 1604..	0,700	⊗	⊗
212328200	212166500	S32U SVUC R/L 16	32	30	15,0	350	50	22	39	VC.. 1604..	2,050	○	○
212166700	212166600	S40V SVUC R/L 16	40	37	18,5	400	60	27	48	VC.. 1604..	3,750	○	○

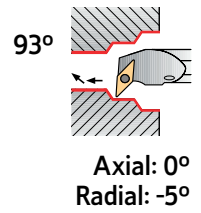
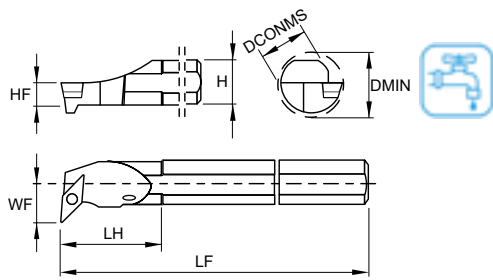
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
S16R SVUC R/L 11	-	-	P0250700	XT07
S20S SVUC R/L 11	-	-	P0250700	XT07
S25T SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35
S32U SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35
S40V SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	DMIN			R	L
212328300	212328400	A16M SVUC R/L 11	16	15	7,5	150	30	11	20	VC.. 1103..	0,200	⊗	⊗
212328500	212328600	A20Q SVUC R/L 11	20	18	9,0	180	35	13	24	VC.. 1103..	0,400	⊗	⊗
212328700	212328800	A25R SVUC R/L 16	25	23	11,5	200	40	17	31	VC.. 1604..	0,700	⊗	⊗
212328900	212329000	A32S SVUC R/L 16	32	30	15,0	250	50	22	39	VC.. 1604..	1,400	⊗	⊗
212329100	212329200	A40T SVUC R/L 16	40	37	18,5	300	60	27	48	VC.. 1604..	2,650	⊗	⊗

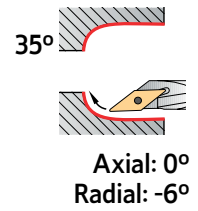
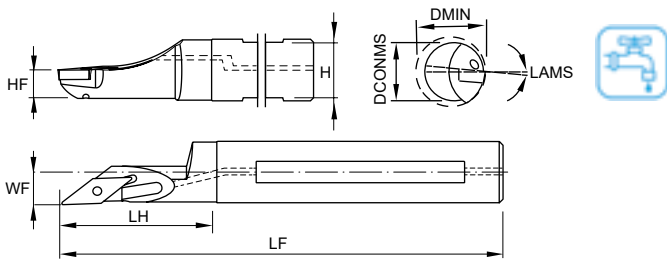
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Shim	Shim Screw	Screw	Wrench
A16M SVUC R/L 11	-	-	P0250700	XT07
A20Q SVUC R/L 11	-	-	P0250700	XT07
A25R SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35
A32S SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35
A40T SVUC R/L 16	CV160300	T05003500	P0351500	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)									Insert	WT	Stock	
R	L		DCONMS	H	HF	LF	LH	WF	LAMS	DMIN	R			L	
212362400	212362500	A16M SVJC R/L 11	16	15	7,5	150	30	8,5	22	22	VC.. 1103..	0,200	⊗	⊗	
212362600	212362700	A20Q SVJC R/L 11	20	18	9,0	180	35	10,5	25	25	VC.. 1103..	0,300	⊗	⊗	
212362800	212362900	A25R SVJC R/L 16	25	23	11,5	200	40	13,0	28	28	VC.. 1604..	0,650	⊗	⊗	

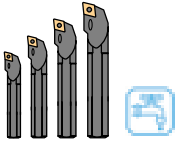
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

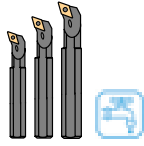
Cutter Reference	Screw	Wrench
	A16M SVJC R/L 11	P0250700
A20Q SVJC R/L 11	P0250700	XT07
A25R SVJC R/L 16	P0401100	XT15-S35

PK SCLC 95°



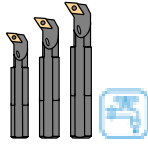
PAGE C - 817 CC.. 0602..

PK SDQC 107°30'



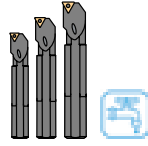
PAGE C - 818 DC.. 0702..

PK SDUC 93°



PAGE C - 819 DC.. 0702..

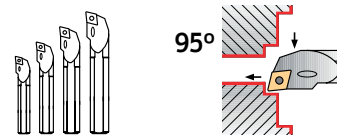
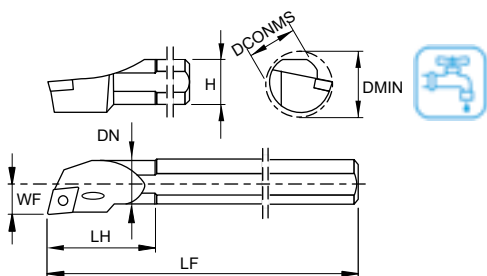
PK STFC 90°



PAGE C - 820 TC.. 1102..



INTERNAL TOOLHOLDERS SET



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R Pack	R		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	R
212359300	212250500	A0608H SCLC R 06	8	6	100	25	4	10	7	CC.. 0602..	0,400	⊗	⊗
	212359400	A0810J SCLC R 06	10	8	110	32	6	12	9	CC.. 0602..			⊗
	212250600	A1012K SCLC R 06	12	10	125	38	7	14	11	CC.. 0602..			⊗
	212167900	A1216M SCLC R 06	16	12	150	50	9	18	15	CC.. 0602..			⊗

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
L Pack	L		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	L
212359500	212359600	A0608H SCLC L 06	8	6	100	25	4	10	7	CC.. 0602..	0,400	⊗	⊗
	212359700	A0810J SCLC L 06	10	8	110	32	6	12	9	CC.. 0602..			⊗
	212359800	A1012K SCLC L 06	12	10	125	38	7	14	11	CC.. 0602..			⊗
	212359900	A1216M SCLC L 06	16	12	150	50	9	18	15	CC.. 0602..			⊗

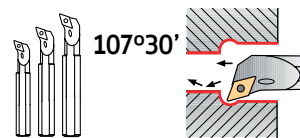
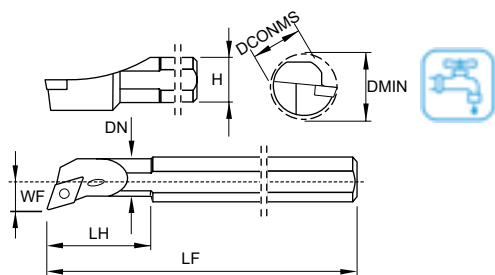
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
A0608H SCLC R/L 06	P0200601	XT07
A0810J SCLC R/L 06	P0200601	XT07
A1012K SCLC R/L 06	P0250700	XT07
A1216M SCLC R/L 06	P0250700	XT07

INTERNAL TOOLHOLDERS SET



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R Pack	R		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	R
	212360100	A0810J SDQC R 07	10	8	110	32	7	12,5	9	DC.. 0702..		⊗	
212360000	212360200	A1012K SDQC R 07	12	10	125	38	9	15,5	11	DC.. 0702..	0,350	⊗	
	212360300	A1216M SDQC R 07	16	12	150	50	11	19,5	15	DC.. 0702..		⊗	

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
L Pack	L		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	L
	212360500	A0810J SDQC L 07	10	8	110	32	7	12,5	9	DC.. 0702..		⊗	
212360400	212360600	A1012K SDQC L 07	12	10	125	38	9	15,5	11	DC.. 0702..	0,350	⊗	
	212360700	A1216M SDQC L 07	16	12	150	50	11	19,5	15	DC.. 0702..		⊗	

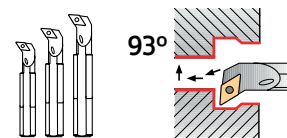
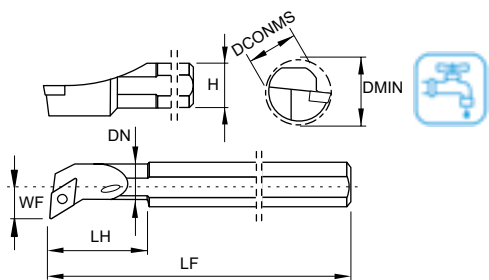
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
	A0810J SDQC R/L 07	P0200601
A1012K SDQC R/L 07	P0250700	XT07
A1216M SDQC R/L 07	P0250700	XT07

INTERNAL TOOLHOLDERS SET



Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R Pack	R		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	R
212360800	212360900	A0810J SDUC R 07	10	8	110	32	7	12,5	9	DC.. 0702..	0,350		⊗
	212361000	A1012K SDUC R 07	12	10	125	38	9	15,5	11	DC.. 0702..		⊗	⊗
	212361100	A1216M SDUC R 07	16	12	150	50	11	19,5	15	DC.. 0702..		⊗	⊗

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
L Pack	L		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	L
212361200	212361300	A0810J SDUC L 07	10	8	110	32	7	12,5	9	DC.. 0702..	0,350		⊗
	212361400	A1012K SDUC L 07	12	10	125	38	9	15,5	11	DC.. 0702..		⊗	⊗
	212361500	A1216M SDUC L 07	16	12	150	50	11	19,5	15	DC.. 0702..		⊗	⊗

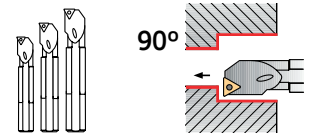
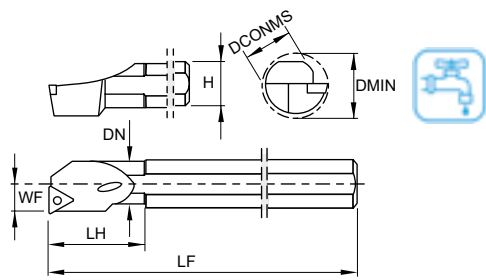
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
A0810J SDUC R/L 07	P0200601	XT07
A1012K SDUC R/L 07	P0250700	XT07
A1216M SDUC R/L 07	P0250700	XT07

INTERNAL TOOLHOLDERS SET



TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
R Pack	R		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	R
	212361700	A0810J STFC R 11	10	8	110	32	7	12,5	9	TC.. 1102..		⊗	
212361600	212361800	A1012K STFC R 11	12	10	125	38	9	15,5	11	TC.. 1102..	0,350	⊗	
	212361900	A1216M STFC R 11	16	12	150	50	11	19,5	15	TC.. 1102..		⊗	

Order Code		Reference	Dimensions (mm)							Insert	WT	Stock	
L Pack	L		DCONMS	DN	LF	LH	WF	DMIN	H			Pack	L
	212362100	A0810J STFC L 11	10	8	110	32	7	12,5	9	TC.. 1102..		⊗	
212362000	212362200	A1012K STFC L 11	12	10	125	38	9	15,5	11	TC.. 1102..	0,350	⊗	
	212362300	A1216M STFC L 11	16	12	150	50	11	19,5	15	TC.. 1102..		⊗	

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

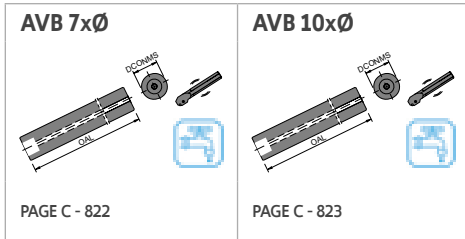
SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
A0810J STFC R/L 11	P0200601	XT07
A1012K STFC R/L 11	P0250700	XT07
A1216M STFC R/L 11	P0250700	XT07

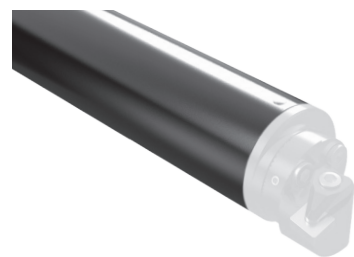
ANTI-VIBRATION TOOLHOLDERS

Ferramentas anti-vibração | Herramientas anti-vibración

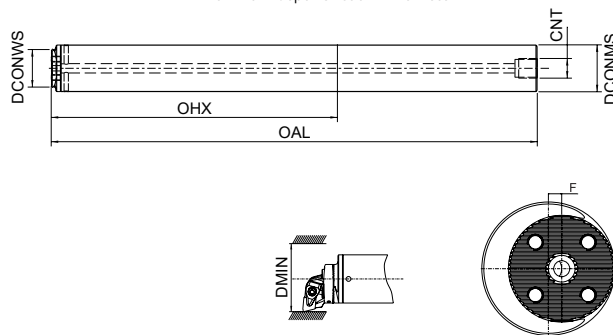
AVB 7xØ | AVB 10xØ



ANTI-VIBRATION CYLINDRICAL BARS



* Maximum depth of cut: 7x Diameter





Order Code	Reference	Dimensions (mm)							Stock
		DCONMS	DCONWS	DMIN	F	OAL	OHX	CNT	
212454800	AVB16-16-7D	16	16	20	-	156	92	G1/8"	⊗
212454900	AVB20-20-7D	20	20	25	-	200	120	G1/4"	⊗
212455000	AVB25-25-7D	25	25	32	-	255	155	G1/4"	⊗
212455100	AVB32-32-7D	32	32	40	-	320	192	G3/8"	⊗
212455200	AVB40-40-7D	40	40	50	-	408	248	G1/2"	○
212455300	AVB50-40-7D	50	40	60	5	518	318	G1/2"	○
212455400	AVB60-40-7D	60	40	72	10	628	388	G3/4"	○

⊗ Stock item | Produto de stock | Itens de stock

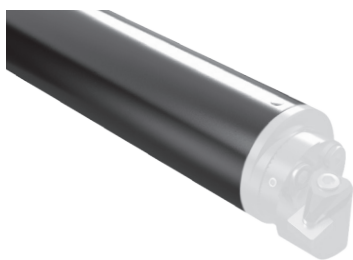
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

Note: The toolholder is supplied without the cutting head.

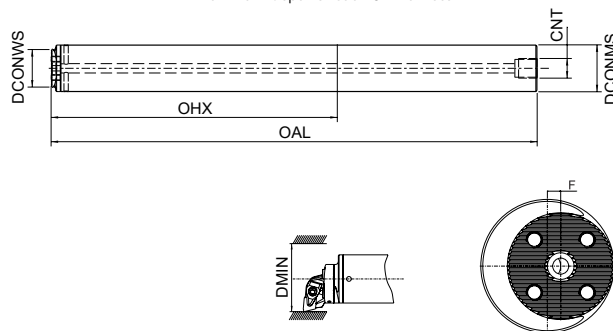
SPARE PARTS Acessórios | Repuestos

Reference	Screw	Wrench
		
AVB16-16-7D	D0300800	SS25
AVB20-20-7D	D0300800	SS25
AVB25-25-7D	D0401200	SS25
AVB32-32-7D	D0501200	SS30
AVB40-40-7D	D0601200	SS40
AVB50-40-7D	D0601600	SS50
AVB60-40-7D	D0601600	SS50

ANTI-VIBRATION CYLINDRICAL BARS



* Maximum depth of cut: 10x Diameter





Order Code	Reference	Dimensions (mm)							Stock
		DCONMS	DCONWS	DMIN	F	OAL	OHX	CNT	
212455500	AVB25-25-10D	25	25	32	-	330	230	G1/4"	⊗
212455600	AVB32-32-10D	32	32	40	-	416	288	G3/8"	⊗
212455700	AVB40-40-10D	40	40	50	-	528	368	G1/2"	○
212455800	AVB50-40-10D	50	40	60	5	668	468	G1/2"	○
212455900	AVB60-40-10D	60	40	72	10	808	568	G3/4"	○

⊗ Stock item | Produto de stock | Itens de stock

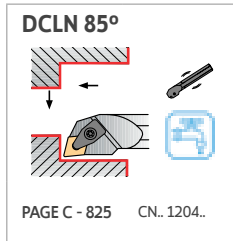
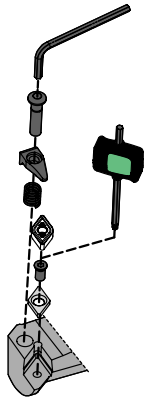
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

Note: The toolholder is supplied without the cutting head.

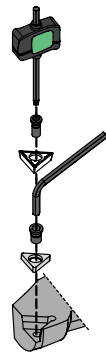
SPARE PARTS Acessórios | Repuestos

Reference	Screw	Wrench
		
AVB25-25-10D	D0401200	SS25
AVB32-32-10D	D0501200	SS30
AVB40-40-10D	D0601200	SS40
AVB50-40-10D	D0601600	SS50
AVB60-40-10D	D0601600	SS50

(D) DIMPLE LOCK ANTI VIBRATION FOR INTERNAL TURNING



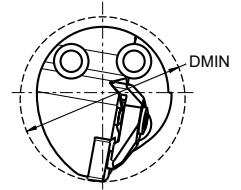
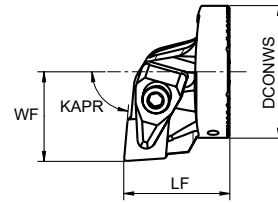
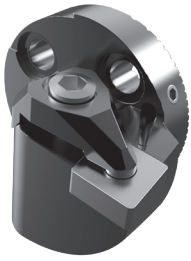
(S) CENTER SCREW ANTI VIBRATION FOR INTERNAL TURNING



<p>SCLC 85°</p> <p>PAGE C - 826</p> <p>CC.. 0602.. CC.. 09T3.. CC.. 1204..</p>	<p>SDNC 62°30'</p> <p>PAGE C - 827</p> <p>DC.. 0702.. DC.. 11T3..</p>	<p>SDUC 87°</p> <p>PAGE C - 828</p> <p>DC.. 0702.. DC.. 11T3..</p>	<p>SDXC 93°</p> <p>PAGE C - 829</p> <p>DC.. 0702.. DC.. 11T3..</p>
<p>STFC 89°</p> <p>PAGE C - 830</p> <p>TC.. 1102.. TC.. 16T3..</p>	<p>SVUB 87°</p> <p>PAGE C - 831</p> <p>VB.. 1102.. VB.. 1604..</p>		

CUTTING HEADS FOR BARS

KAPR = 85°









Order Code		Reference	Dimensions (mm)				Insert	Stock	
L	R		DCONWS	DMIN	WF	LF		L	R
212459100	212456000	AVH32 DCLN R/L-12	32	40	22	38	CN..1204	○	⊗
212459200	212456100	AVH40 DCLN R/L-12	40	50	27	38	CN..1204	○	○

⊗ Stock item | Produto de stock | Itens de stock

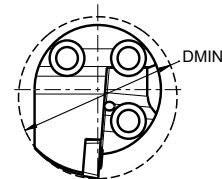
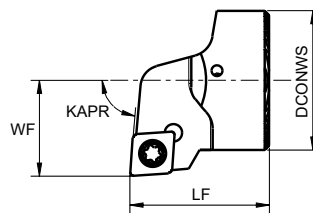
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Spring	Clamp	Clamp Screw	Wrench
AVH32 DCLN R/L-12						
AVH40 DCLN R/L-12	CC120300	T06010000	M09513	GA07002	D0602900	SS40
	CC120300	T06010000	M09513	GA07002	D0602900	SS40

CUTTING HEADS FOR BARS

KAPR = 85°



Order Code		Reference	Dimensions (mm)				Insert	Stock	
L	R		DCONWS	DMIN	WF	LF		L	R
212459300	212456200	AVH16 SCLC R/L-06	16	20	11	20	CC.. 0602		
212459400	212456300	AVH20 SCLC R/L-09	20	25	13	20	CC.. 09T3		
212459500	212456400	AVH25 SCLC R/L-09	25	32	17	20	CC.. 09T3		
212459600	212456500	AVH32 SCLC R/L-09	32	40	22	32	CC.. 09T3		
212459700	212456600	AVH40 SCLC R/L-12	40	50	27	38	CC.. 1204		

Stock item | Produto de stock | Itens de stock

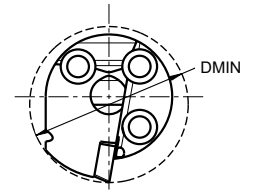
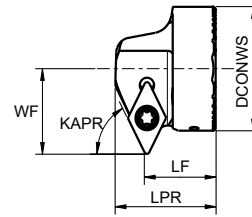
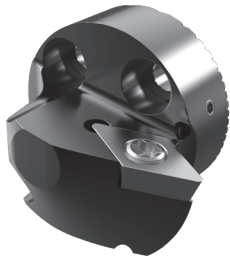
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH16 SCLC R/L-06				
AVH16 SCLC R/L-06	-	-	P0250700	XT07
AVH20 SCLC R/L-09	-	-	P0401100	XT15-S35
AVH25 SCLC R/L-09	-	-	P0401100	XT15-S35
AVH32 SCLC R/L-09	-	-	P0401100	XT15-S35
AVH40 SCLC R/L-12	CC120401	T06004000	P0401400	XT15-S40

CUTTING HEADS FOR BARS

KAPR = 62°30'



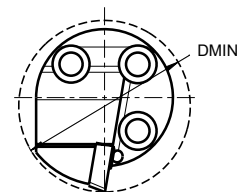
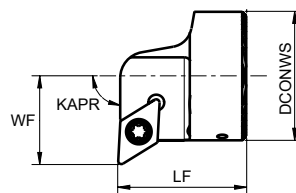
Order Code		Reference	Dimensions (mm)					Insert	Stock	
L	R		DCONWS	DMIN	WF	LF	LPR		L	R
212460800	212457700	AVH16 SDNC R/L-07	16	22	13	15	19,5	DC.. 0702		
212460900	212457800	AVH20 SDNC R/L-07	20	27	15	15	19,5	DC.. 0702		
212461000	212457900	AVH25 SDNC R/L-07	25	33	18	15	19,5	DC.. 0702		
212461100	212458000	AVH32 SDNC R/L-11	32	40	22	20	28	DC.. 11T3		
212461200	212458100	AVH40 SDNC R/L-11	40	50	27	20	28	DC.. 11T3		

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH16 SDNC R/L-07				
AVH16 SDNC R/L-07	-	-	P0250700	XT07
AVH20 SDNC R/L-07	-	-	P0250700	XT07
AVH25 SDNC R/L-07	-	-	P0250700	XT07
AVH32 SDNC R/L-11	CD110301	T05003500	P0351500	XT15-S35
AVH40 SDNC R/L-11	CD110301	T05003500	P0351500	XT15-S35

CUTTING HEADS FOR BARS

KAPR = 87°



Order Code		Reference	Dimensions (mm)				Insert	Stock	
L	R		DCONWS	DMIN	WF	LF		L	R
212459800	212456700	AVH16 SDUC R/L-07	16	20	11	20	DC.. 0702		
212459900	212456800	AVH20 SDUC R/L-07	20	25	13	20	DC.. 0702		
212460000	212456900	AVH25 SDUC R/L-11	25	32	17	20	DC.. 11T3		
212460100	212457000	AVH32 SDUC R/L-11	32	40	22	32	DC.. 11T3		
212460200	212457100	AVH40 SDUC R/L-11	40	50	27	32	DC.. 11T3		

Stock item | Produto de stock | Itens de stock

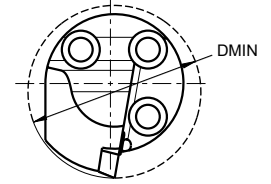
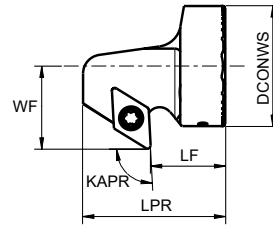
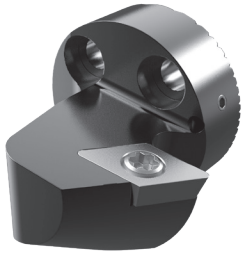
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH16 SDUC R/L-07				
AVH20 SDUC R/L-07	-	-	P0250700	XT07
AVH25 SDUC R/L-11	-	-	P0250700	XT07
AVH32 SDUC R/L-11	-	-	P0401100	XT15-S35
AVH40 SDUC R/L-11	CD110301	T05003500	P0351500	XT15-S35
AVH40 SDUC R/L-11	CD110301	T05003500	P0351500	XT15-S35

CUTTING HEADS FOR BARS

KAPR = 93°



Order Code		Reference	Dimensions (mm)					Insert	Stock	
L	R		DCONWS	DMIN	WF	LF	LPR		L	R
212460300	212457200	AVH16 SDXC R/L-07	16	22	13	15	26,5	DC.. 0702		
212460400	212457300	AVH20 SDXC R/L-07	20	27	15	15	26,5	DC.. 0702		
212460500	212457400	AVH25 SDXC R/L-07	25	33	18	15	26,5	DC.. 0702		
212460600	212457500	AVH32 SDXC R/L-11	32	40	22	20	38	DC.. 11T3		
212460700	212457600	AVH40 SDXC R/L-11	40	50	27	20	38	DC.. 11T3		

Stock item | Produto de stock | Itens de stock

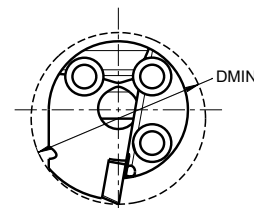
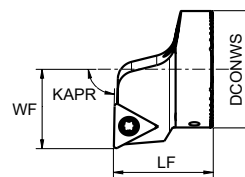
Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH16 SDXC R/L-07				
AVH20 SDXC R/L-07	-	-	P0250700	XT07
AVH25 SDXC R/L-07	-	-	P0250700	XT07
AVH32 SDXC R/L-11	-	-	P0250700	XT07
AVH32 SDXC R/L-11	CD110301	T05003500	P0351500	XT15-S35
AVH40 SDXC R/L-11	CD110301	T05003500	P0351500	XT15-S35

CUTTING HEADS FOR BARS

KAPR = 89°



Order Code		Reference	Dimensions (mm)				Insert	Stock	
L	R		DCONWS	DMIN	WF	LF		L	R
212461700	212458600	AVH16 STFC R/L-11	16	20	11	20	TC.. 1102	○	⊗
212461800	212458700	AVH20 STFC R/L-11	20	25	13	20	TC.. 1102	○	⊗
212461900	212458800	AVH25 STFC R/L-11	25	32	17	20	TC.. 1102	○	⊗
212462000	212458900	AVH32 STFC R/L-16	32	40	22	32	TC.. 16T3	○	○
212462100	212459000	AVH40 STFC R/L-16	40	50	27	32	TC.. 16T3	○	○

⊗ Stock item | Produto de stock | Itens de stock

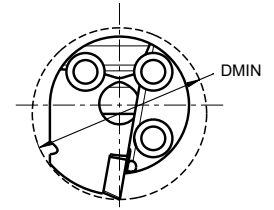
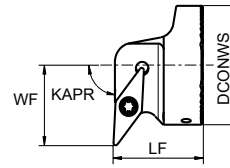
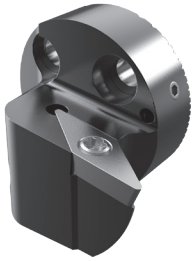
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH16 STFC R/L-11	-	-	P0250700	XT07
AVH20 STFC R/L-11	-	-	P0250700	XT07
AVH25 STFC R/L-11	-	-	P0250700	XT07
AVH32 STFC R/L-16	CT160302	T05003500	P0351500	XT15-S35
AVH40 STFC R/L-16	CT160302	T05003500	P0351500	XT15-S35

CUTTING HEADS FOR BARS

KAPR = 87°



Order Code		Reference	Dimensions (mm)				Insert	Stock	
L	R		DCONWS	DMIN	WF	LF		L	R
212461300	212458200	AVH20 SVUB R/L-11	20	27	16	20	VB.. 1102	○	⊗
212461400	212458300	AVH25 SVUB R/L-11	25	31	17	25	VB.. 1102	○	⊗
212461500	212458400	AVH32 SVUB R/L-16	32	40	22	32	VB.. 1604	○	⊗
212461600	212458500	AVH40 SVUB R/L-16	40	50	27	32	VB.. 1604	○	○

⊗ Stock item | Produto de stock | Itens de stock

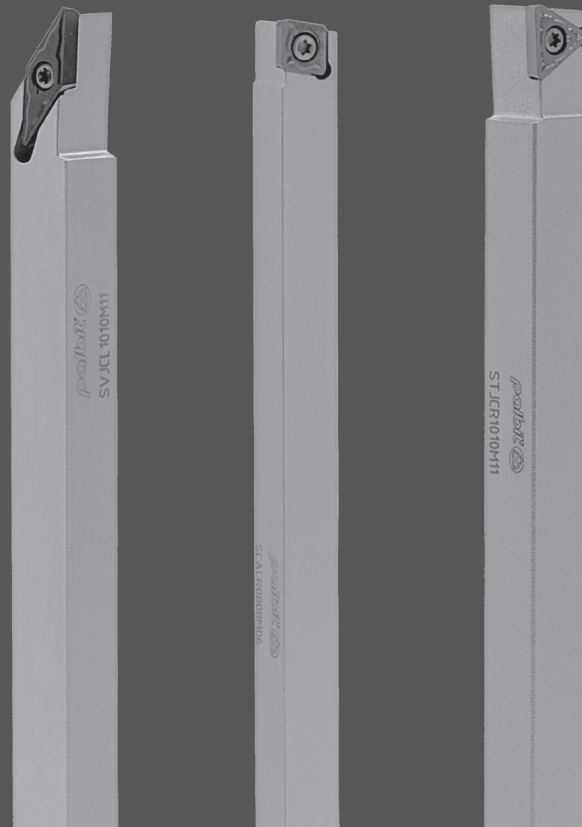
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Reference	Shim	Shim Screw	Screw	Wrench
AVH20 SVUB R/L-11	-	-	P0250700	XT07
AVH25 SVUB R/L-11	-	-	P0250700	XT07
AVH32 SVUB R/L-16	CV160300	T05003500	P0351500	XT15-S35
AVH40 SVUB R/L-16	CV160300	T05003500	P0351500	XT15-S35

TOOLHOLDERS

AUTOMATIC LATHES



Automatic lathe toolholders efficiently hold cutting tools during automated machining. They ensure precision and consistency in high-speed operations. Quick-change mechanisms facilitate rapid tool changes, minimizing downtime and maximizing productivity in many industries.

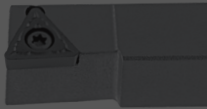
Suportes de torno automático mantêm eficientemente ferramentas de corte durante a maquinação automatizada. Garantem precisão e consistência em operações de alta velocidade. Mecanismos de troca rápida facilitam mudanças ágeis, minimizando o tempo de inatividade e maximizando a produtividade em diversas indústrias.

Los portaherramientas de torno automático mantienen eficientemente las herramientas de corte durante el mecanizado automatizado. Aseguran precisión y consistencia en operaciones de alta velocidad. Los mecanismos de cambio rápido facilitan cambios ágiles de herramientas, minimizando el tiempo de inactividad y maximizando la productividad en muchas industrias.

Center Screw Toolholders (S) > page 836

- > Solution for ensuring easy insert exchange without interference

Solução ideal para garantir a troca fácil da pastilha sem interferência | Solución para garantizar un intercambio fácil de la plaquita sin interferencias





Maximize efficiency
with automatic lathes toolholders

CODE KEY FOR AUTOMATIC LATHES (ISO)

Sistema de codificação para tornos automáticos (ISO) | Codificación de herramientas de tornos automáticos (ISO)

S	C	A	C	R	12	12	M	09
1	2	3	4	5	6	7	8	9

1 - Inserts Clamping System

C	M	P	S

2 - Insert Shape

C	D	E	K
R	S	T	V
W			

4 - Inserts Clearance Angle

B	C	N	P

5 - Tool Hand

L	N	R

3 - Toolholder Leading Angle

A	B	C
D	E	F
G	H	J
K	L	M
N	Q	R
S	T	V
X	Z	

6 - Height of Shank (mm)

7 - Width of Shank (mm)

8 - Length of Holder (mm)

	D	60	P	170
	E	70	R	200
	F	80	S	250
	H	100	T	300
	K	125	U	350
	L	140	V	400
	M	150	X	Special

9 - Length of Inserts Cutting Edge (mm)

C (S) CENTER SCREW SYSTEM

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

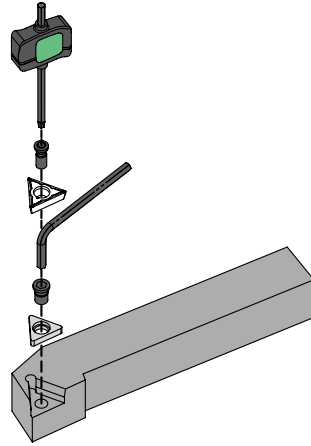
External Toolholders

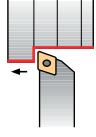
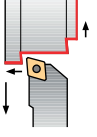
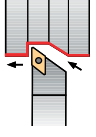
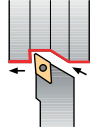
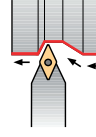
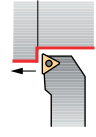
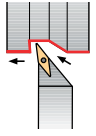
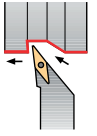
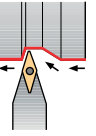
Internal Toolholders

Automatic Lathes

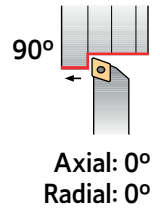
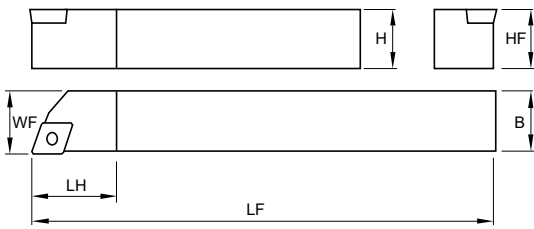
Spare Parts

Technical Data



<p>SCAC 90°</p>  <p>PAGE C - 837 CC.. 0602.. CC.. 09T3..</p>	<p>SCLC 95°</p>  <p>PAGE C - 838 CC.. 0602.. CC.. 09T3..</p>	<p>SDAC 90°</p>  <p>PAGE C - 839 DC.. 0702.. DC.. 11T3..</p>	<p>SDJC 93°</p>  <p>PAGE C - 840 DC.. 0702.. DC.. 11T3..</p>	<p>SDNC 62°30'</p>  <p>PAGE C - 841 DC.. 0702.. DC.. 11T3..</p>	<p>STJC 93°</p>  <p>PAGE C - 842 TC.. 1102..</p>
<p>SVAC 90°</p>  <p>PAGE C - 843 VC.. 1103.. VC.. 1604..</p>	<p>SVJC 93°</p>  <p>PAGE C - 844 VC.. 1103.. VC.. 1604..</p>	<p>SVVC 72°30'</p>  <p>PAGE C - 845 VC.. 1103..</p>			

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212251300	212251400	SCAC R/L 0808 M06	8	8	150	8	8	CC.. 0602..	0,070		
212251500	212251600	SCAC R/L 1010 M06	10	10	150	10	10	CC.. 0602..	0,110		
212251700	212251800	SCAC R/L 1212 M06	12	12	150	12	12	CC.. 0602..	0,150		
212251900	212252000	SCAC R/L 1616 M06	16	16	150	16	16	CC.. 0602..	0,280		
212252100	212252200	SCAC R/L 1212 M09	12	12	150	12	12	CC.. 09T3..	0,150		
212252300	212252400	SCAC R/L 1616 M09	16	16	150	16	16	CC.. 09T3..	0,280		

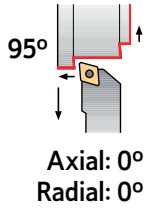
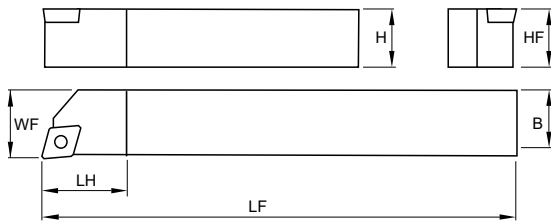
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SCAC R/L 0808 M06	P0250700	XT07
SCAC R/L 1010 M06	P0250700	XT07
SCAC R/L 1212 M06	P0250700	XT07
SCAC R/L 1616 M06	P0250700	XT07
SCAC R/L 1212 M09	P0401100	XT15-S35
SCAC R/L 1616 M09	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212252500	212252600	SCLC R/L 0808 M06	8	8	150	8	8	CC.. 0602..	0,070		
212252700	212252800	SCLC R/L 1010 M06	10	10	150	10	10	CC.. 0602..	0,110		
212252900	212253000	SCLC R/L 1212 M06	12	12	150	12	12	CC.. 0602..	0,150		
212253100	212253200	SCLC R/L 1616 M06	16	16	150	16	16	CC.. 0602..	0,280		
212253300	212253400	SCLC R/L 1212 M09	12	12	150	12	12	CC.. 09T3..	0,150		
212253500	212250400	SCLC R/L 1616 M09	16	16	150	16	16	CC.. 09T3..	0,280		

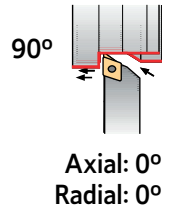
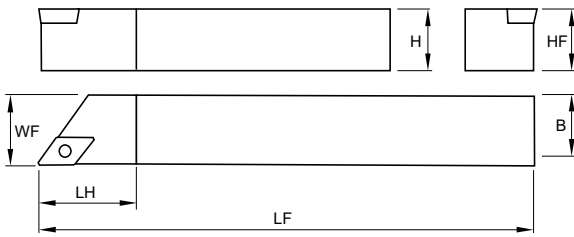
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SCLC R/L 0808 M06	P0250700	XT07
SCLC R/L 1010 M06	P0250700	XT07
SCLC R/L 1212 M06	P0250700	XT07
SCLC R/L 1616 M06	P0250700	XT07
SCLC R/L 1212 M09	P0401100	XT15-S35
SCLC R/L 1616 M09	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212253600	212253700	SDAC R/L 0808 M07	8	8	150	12,7	8	DC.. 0702..	0,070		
212253800	212253900	SDAC R/L 1010 M07	10	10	150	15,0	10	DC.. 0702..	0,110		
212254000	212254100	SDAC R/L 1212 M07	12	12	150	15,0	12	DC.. 0702..	0,150		
212254200	212254300	SDAC R/L 1616 M07	16	16	150	16,0	16	DC.. 0702..	0,280		
212254400	212254500	SDAC R/L 1212 M11	12	12	150	18,0	12	DC.. 11T3..	0,150		
212254600	212254700	SDAC R/L 1616 M11	16	16	150	20,0	16	DC.. 11T3..	0,280		

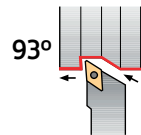
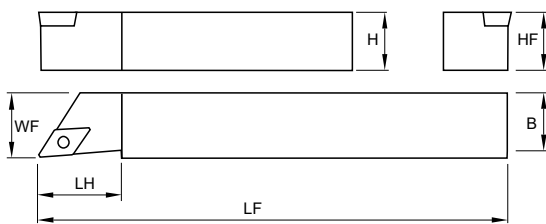
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SDAC R/L 0808 M07	P0250700	XT07
SDAC R/L 1010 M07	P0250700	XT07
SDAC R/L 1212 M07	P0250700	XT07
SDAC R/L 1616 M07	P0250700	XT07
SDAC R/L 1212 M11	P0401100	XT15-S35
SDAC R/L 1616 M11	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212254800	212254900	SDJC R/L 0808 M07	8	8	150	8	8	DC.. 0702..	0,070		
212255000	212255100	SDJC R/L 1010 M07	10	10	150	10	10	DC.. 0702..	0,110		
212255200	212255300	SDJC R/L 1212 M07	12	12	150	12	12	DC.. 0702..	0,150		
212255400	212255500	SDJC R/L 1616 M07	16	16	150	16	16	DC.. 0702..	0,280		
212255600	212255700	SDJC R/L 1212 M11	12	12	150	12	12	DC.. 11T3..	0,150		
212255800	212255900	SDJC R/L 1616 M11	16	16	150	16	16	DC.. 11T3..	0,280		

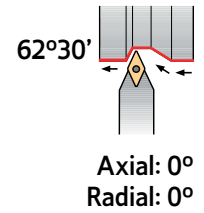
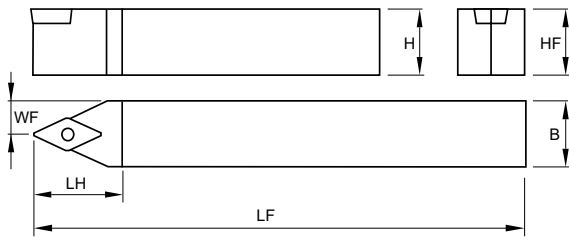
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SDJC R/L 0808 M07	P0250700	XT07
SDJC R/L 1010 M07	P0250700	XT07
SDJC R/L 1212 M07	P0250700	XT07
SDJC R/L 1616 M07	P0250700	XT07
SDJC R/L 1212 M11	P0401100	XT15-S35
SDJC R/L 1616 M11	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS





Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212256000	SDNC N 1010 M07	10	10	150	15	5,2	DC.. 0702..	0,100	⊗
212256100	SDNC N 1212 M11	12	12	150	21	6,2	DC.. 11T3..	0,140	⊗
212256200	SDNC N 1616 M11	16	16	150	21	8,6	DC.. 11T3..	0,270	⊗

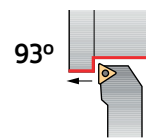
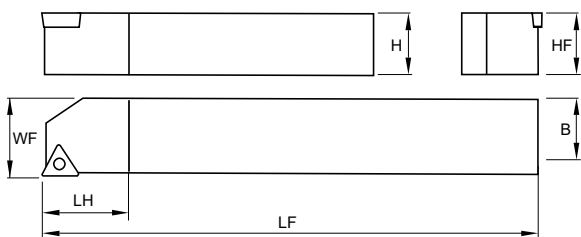
⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SDNC N 1010 M07	P0250700 	XT07 
SDNC N 1212 M11	P0401100	XT15-S35
SDNC N 1616 M11	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Axial: 0°
Radial: 0°

Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212256300	212256400	STJC R/L 1010 M11	10	10	150	16	10	TC..1102..	0,110		
212256500	212256600	STJC R/L 1212 M11	12	12	150	16	12	TC..1102..	0,150		
212256700	212256800	STJC R/L 1616 M11	16	16	150	16	16	TC..1102..	0,280		

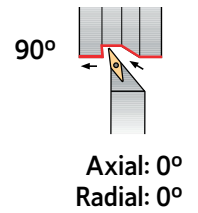
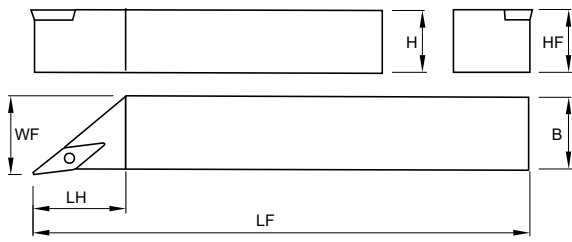
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
STJC R/L 1010 M11	P0250700	XT07
STJC R/L 1212 M11	P0250700	XT07
STJC R/L 1616 M11	P0250700	XT07

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212256900	212257000	SVAC R/L 0808 M11	8	8	150	26	8	VC.. 1103..	0,070		
212257100	212257200	SVAC R/L 1010 M11	10	10	150	26	10	VC.. 1103..	0,100		
212257300	212257400	SVAC R/L 1212 M11	12	12	150	26	12	VC.. 1103..	0,140		
212257500	212257600	SVAC R/L 1616 M11	16	16	150	26	16	VC.. 1103..	0,270		
212257700	212257800	SVAC R/L 1212 M16	12	12	150	40	12	VC.. 1604..	0,140		
212257900	212258000	SVAC R/L 1616 M16	16	16	150	40	16	VC.. 1604..	0,270		

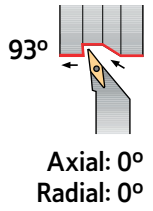
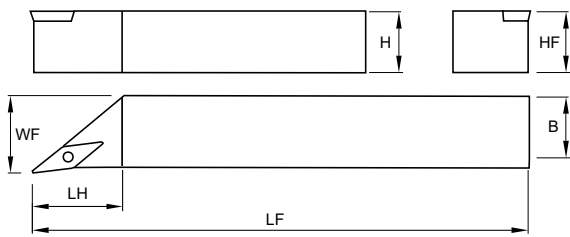
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SVAC R/L 0808 M11	P0250700	XT07
SVAC R/L 1010 M11	P0250700	XT07
SVAC R/L 1212 M11	P0250700	XT07
SVAC R/L 1616 M11	P0250700	XT07
SVAC R/L 1212 M16	P0401100	XT15-S35
SVAC R/L 1616 M16	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code		Reference	Dimensions (mm)					Insert	WT	Stock	
R	L		HF = H	B	LF	LH	WF			R	L
212258100	212258200	SVJC R/L 0808 M11	8	8	150	26	8	VC.. 1103..	0,070		
212258300	212258400	SVJC R/L 1010 M11	10	10	150	26	10	VC.. 1103..	0,100		
212258500	212258600	SVJC R/L 1212 M11	12	12	150	26	12	VC.. 1103..	0,140		
212258700	212258800	SVJC R/L 1616 M11	16	16	150	26	16	VC.. 1103..	0,270		
212258900	212259000	SVJC R/L 1212 M16	12	12	150	40	12	VC.. 1604..	0,140		
212259100	212259200	SVJC R/L 1616 M16	16	16	150	40	16	VC.. 1604..	0,270		

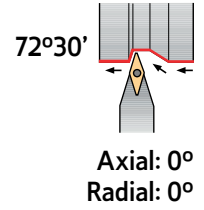
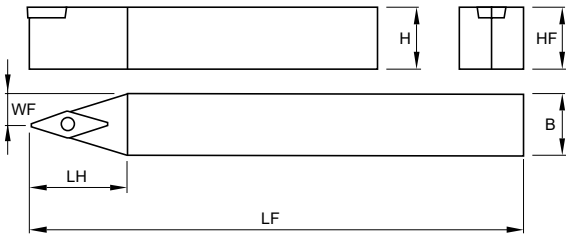
Stock item | Produto de stock | Itens de stock

Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SVJC R/L 0808 M11	P0250700	XT07
SVJC R/L 1010 M11	P0250700	XT07
SVJC R/L 1212 M11	P0250700	XT07
SVJC R/L 1616 M11	P0250700	XT07
SVJC R/L 1212 M16	P0401100	XT15-S35
SVJC R/L 1616 M16	P0401100	XT15-S35

(S) CENTER SCREW TOOLHOLDERS



Order Code	Reference	Dimensions (mm)					Insert	WT	Stock
		HF = H	B	LF	LH	WF			
212259300	SVVC N 0808 M11	8	8	150	21	4,3	VC.. 1103..	0,070	⊗
212259400	SVVC N 1010 M11	10	10	150	21	5,3	VC.. 1103..	0,100	⊗
212259500	SVVC N 1212 M11	12	12	150	21	6,3	VC.. 1103..	0,140	⊗
212259600	SVVC N 1616 M11	16	16	150	21	8,3	VC.. 1103..	0,260	⊗

⊗ Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

SPARE PARTS Acessórios | Repuestos

Cutter Reference	Screw	Wrench
SVVC N 0808 M11	P0250700	XT07
SVVC N 1010 M11	P0250700	XT07
SVVC N 1212 M11	P0250700	XT07
SVVC N 1616 M11	P0250700	XT07

1 CHIP BREAKERS

> See page C - 848

2 CLAMPS

> See page C - 848

3 DIFFERENTIALS SCREWS

> See page C - 849

4 LEVERS

> See page C - 849

5 LOCK PINS

> See page C - 850

6 SCREWS

> See page C - 851

7 SHIM PINS

> See page C - 852

8 SHIMS

> See page C - 852

9 SPRINGS

> See page C - 855

10 WEDGE CLAMPS

> See page C - 855

11 KEYS

> See page C - 855

CHIP BREAKERS | Quebra Aparas | Rompevirutas

QCS0900 290071500 	QCS1200 290071700 	QCS1201 290072200 	QCS1900 290071900 	QCS1901 290072400 	QCS0901 290072600
QCS0902 290072900 	QCS1202 290072700 	QCT1100 290071600 	QCT1101 290072100 	QCT1600 290071800 	QCT1601 290072300
QCT2200 290072000 	QCT2201 290072500 				

CLAMPS (C HOLDERS) | Grampos (Suportes C) | Tornillos Para Brida (Soportes C)

GS03000 290065100 	GS04000 290009700 	GS05002 290065900 	GS05000 290055800 	GS05004 290066500 	GS05001 290065800
GS05003 290066000 	GS06001 290047700 	GS06002 290046300 	GS06003 290066200 	GS06000 290010500 	GS05005 290005900
GS08001 290066600 	GS08000 290030100 				

SPARE PARTS

Acessórios | Repuestos

CLAMPS (D HOLDERS) | Grampos (Suportes D) | Bridas (Soportes D)

GA05001 290082000 24.2 12.8 11.3	GA07002 290082100 24.6 13.8 12.6	GA07001 290066300 34.2 16.1 13.5	GA07003 290082200 35.4 13.8 14.2	GA07004 290085600 33.9 13.8 14.2
GAW1400 290031800 23.5 2.5	GAW1401 290066400 23.5 2.5			

DIFFERENTIALS SCREWS | Parafusos Diferenciais | Tornillos Diferenciales

F0602100 290062700 Allen 3 M6x1R 20.5 7.1 7.1 M6x1L	F0802900 290062300 Allen 4 M8x1R 29.4 10.4 12.7 M8x1L	F0602100 290062700 Allen 3 M6x1R 20.5 7.1 7.1 M6x1L
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LEVERS | Alavanca | Palanca

AN07800 290048700 7.8 10.1 2.3	AN01200 290031200 12 10.2 3.4	AN13100 290009000 13.1 13.5 4.2	AN17100 290047200 17.1 16.5 5.4	AN17200 290070500 17.2 19.2 5.3	AN20800 290047300 20.8 20.4 7.3
AN25200 290070600 25.2 25.7 8.2	AN14700 290071400 14.7 16.2 5.1	AN09500 290052800 9.5 10.1 3.4	AC11700 290019200 11.7 11 4	AC13300 290019300 13.3 13 4.4	AC18700 290070800 18.7 20.4 6.7
AC23000 290070900 23 24 7.5	AC26700 290071000 26.7 30.2 9	AC13200 290071300 13.2 13.5 4.2	AC18000 290070700 18 18.6 6.7	AN12100 290071100 12.1 13.4 4.7	AN20200 290071200 20.2 20.5 7.2

LEVER SCREWS | Parafusos Para Alavanca | Tornillos De Palanca

PA0501000 290048800 Allen 2 	PA0501200 290063000 Allen 2 	PA0501400 290019000 Allen 2 	PA0601300 290063200 Allen 2,5 	PA0601700 290018900 Allen 2,5 	PA0602100 290064400 Allen 2,5
PA0801700 290063800 Allen 3 	PA0802100 290011900 Allen 3 	PA0802101 290063300 Allen 3 	PA0802300 290047100 Allen 3 	PA0802400 290064500 Allen 3 	PA1002700 290048600 Allen 4
PA1003000 290064600 Allen 4 	PA1203600 290063100 Allen 5 				

LOCK PINS | Cavilhas De Bloqueio | Pines De Bloqueo

BC04502 290063500 	BC04501 290063600 	BC04500 290063400 	BC06001 290063700 	BC06000 290053500 	BC08000 290064200
BS05000 290054400 Allen 2 	BS1-402 290064300 Allen 2,5 	BS1-400 290063900 Allen 2,5 	BS1-401 290064000 Allen 2,5 	BS3-800 290064100 Allen 4 	

SPARE PARTS

Acessórios | Repuestos


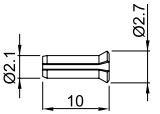

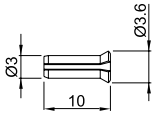

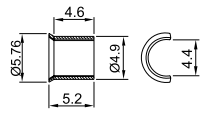

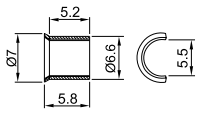

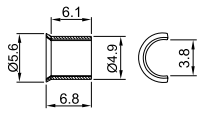

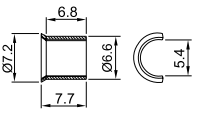

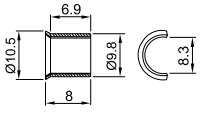

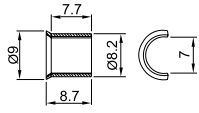

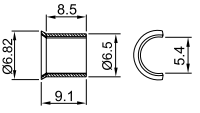

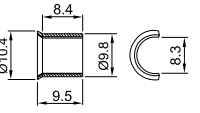

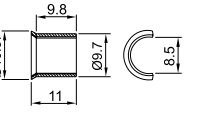

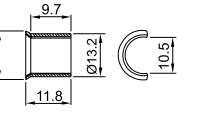

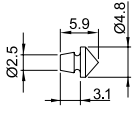

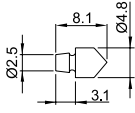

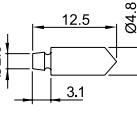

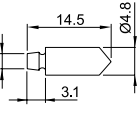
SCREWS (ALLEN) | Parafusos (Allen) | Tornillos (Allen)

D0300700 290012000 Allen 5 	D0300691 290064800 Allen 2 	D0300800 290097700 Allen 2.5 	D0400691 290064900 Allen 2.5 	D0401200 290082600 Allen 2.5 	D0400900 290053700 Allen 5
D0501200 290082800 Allen 3 	D0500801 290082700 Allen 5 	D0601400 290062800 Allen 5 	D0601200 290097800 Allen 4 	D0601600 290083000 Allen 5 	D0602200 290062900 Allen 5
D0602900 290082900 Allen 4 	D0702800 290048100 Allen 4 	DW142600 290018200 Allen 4 	T05003500 290020100 Allen 3.5 	T05008000 290082300 Allen 2 	T06010000 290082400 Allen 2.5
T06015000 290082500 Allen 3 	T0601575 290085500 Allen 3 	T06004000 290008700 Allen 4 	T1000875 290086000 Allen 5 	H0600475 290085800 Allen 3 	H1000875 290085900 Allen 5


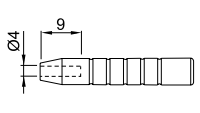

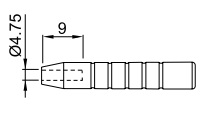

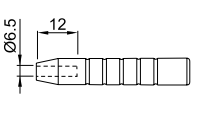

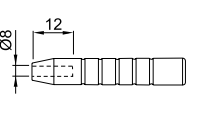

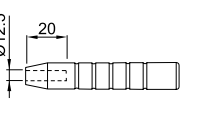
SCREWS (TORX) | Parafusos (torx) | Tornillos (torx)

P0220600 290026000 TorxT-6 	P0250700 290013400 TorxT-7 	P0200601 290010700 TorxT-7 	P0300900 290007500 TorxT-8 	P0351500 290020000 TorxT-15 	P0401400 290031100 TorxT-15
P0400802 290006500 TorxT-15 	P0401100 290007000 TorxT-15 	P0501200 290026200 TorxT-20 	P0801411 290062600 TorxT-25 		


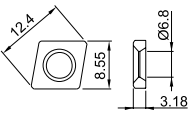

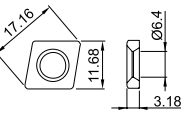

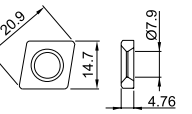

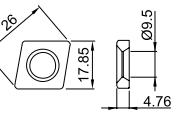

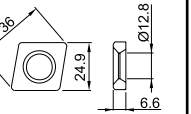

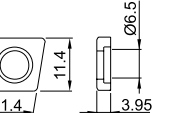

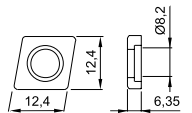

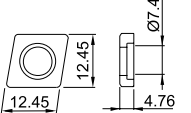
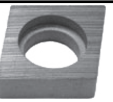
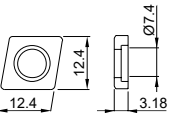

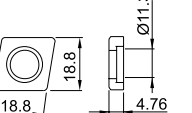

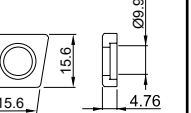
SHIM PINS | Pino calço | Pino cuña

BE02100 290020500  	BE03000 290038900  	BE04400 290007300  	BE05500 290069200  	BE03800 290019100  	BE05401 290069900  
BE08300 290069700  	BE07000 290069300  	BE05400 290069400  	BE08301 290069800  	BE08500 290069500  	BE10500 290069600  
BF04806 290070000  	BF04808 290070100  	BF04813 290018100  	BF04815 290070200  		

SHIM PIN PUNCHES | Calço | Cuña

BF40009 290033200  	BF47509 290020600  	BF65012 290061900  	BF80012 290062000  	BF12520 290062100  
---	---	---	---	---

SHIMS (C SHAPES) | Colchões (Pastilhas C) | Placas Base (Plaquitás C)

CC090300 290067800  	CC120301 212127000  	CC160500 290046400  	CC190500 212169300  	CC250700 290067900  	CC120401 212166800  
CC120600 290083200  	CC120500 290055200  	CC120300 290083300  	CC190502 290073200  	CC160501 290085400  	

SPARE PARTS

Acessórios | Repuestos

SHIMS (D SHAPES) | Colchões (Pastilhas D) | Placas Base (Plaquitas D)

CD110300 290068000 	CD110301 212166900 	CD110302 290083400 	CD150300 290068100 	CD150500 290068200 	CD150501 290073300
CD150502 116021623 	CD150503 116021723 				

SHIMS (R SHAPES) | Colchões (Pastilhas R) | Placas Base (Plaquitas R)

CR090300 290068700 	CR100300 212054600 	CR100301 212167100 	CR120300 212054700 	CR120301 212167200 	CR120302 290068800
CR150500 290068900 	CR160500 290068300 	CR190500 290069000 	CR200500 290068400 	CR250600 290068500 	CR250601 290069100
CR320600 290068600 					

SHIMS (S SHAPES) | Colchões (Pastilhas S) | Placas Base (Plaquitas S)

CS090300 290067100 	CS090301 290067500 	CS120300 212056100 	CS120400 212044300 	CS120302 290067600 	CS120500 290053800
CS120600 290083500 	CS150400 290083900 	CS190501 290083600 	CS190300 290067200 	CS190400 290084000 	CS250600 290053000
CS150500 290086100 					

SHIMS (T SHAPES) | Colchões (Pastilhas T) | Placas Base (Plaquitas T)

CT160301 212026000 	CT160303 212039600 	CT160302 212039900 	CT160304 290073400 	CT160600 290083700 	CT220301 212127500
CT220302 290061700 	CT220500 290052700 	CT220600 290083800 	CT270500 290061500 	CT330500 290067400 	

SHIMS (V SHAPES) | Colchões (Pastilhas V) | Placas Base (Plaquitas V)

CV160301 290054300 	CV160300 212044400 	CV220400 212167000
----------------------------------	----------------------------------	----------------------------------

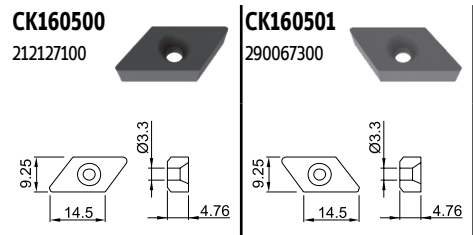
SHIMS (W SHAPES) | Colchões (Pastilhas W) | Placas Base (Plaquitas W)

CW060301 212169100 	CW060300 290067000 	CW060302 290085700 	CW080300 212169200 	CW080500 290053400
----------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------

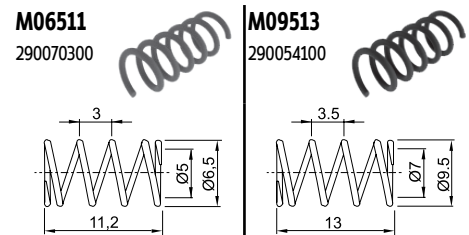
SPARE PARTS

Acessórios | Repuestos

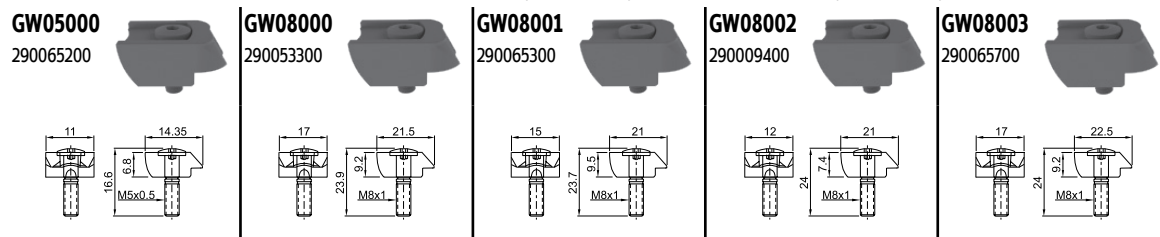
SHIMS (KNUX SHAPES) | Colchões (Pastilhas Knux) | Placas Base (Plaquitass Knux)



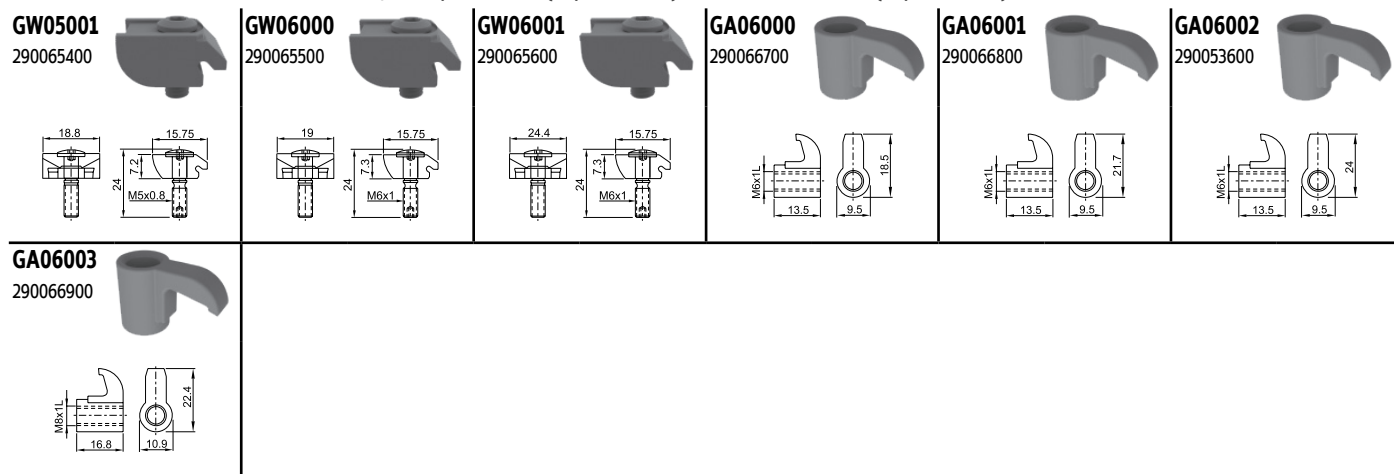
SPRINGS | Mola | Muelle



WEDGE CLAMPS (M HOLDERS) | Grampos Cunhas (Suportes M) | Tornillos Para Cuñas (Soportes M)



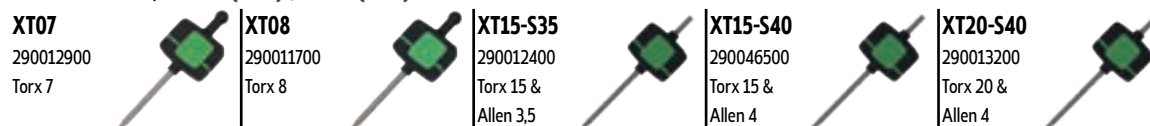
WEDGE CLAMPS (M-K HOLDERS) | Grampos Cunhas (Suportes M-K) | Tornillos Para Cuñas (Soportes M-K)

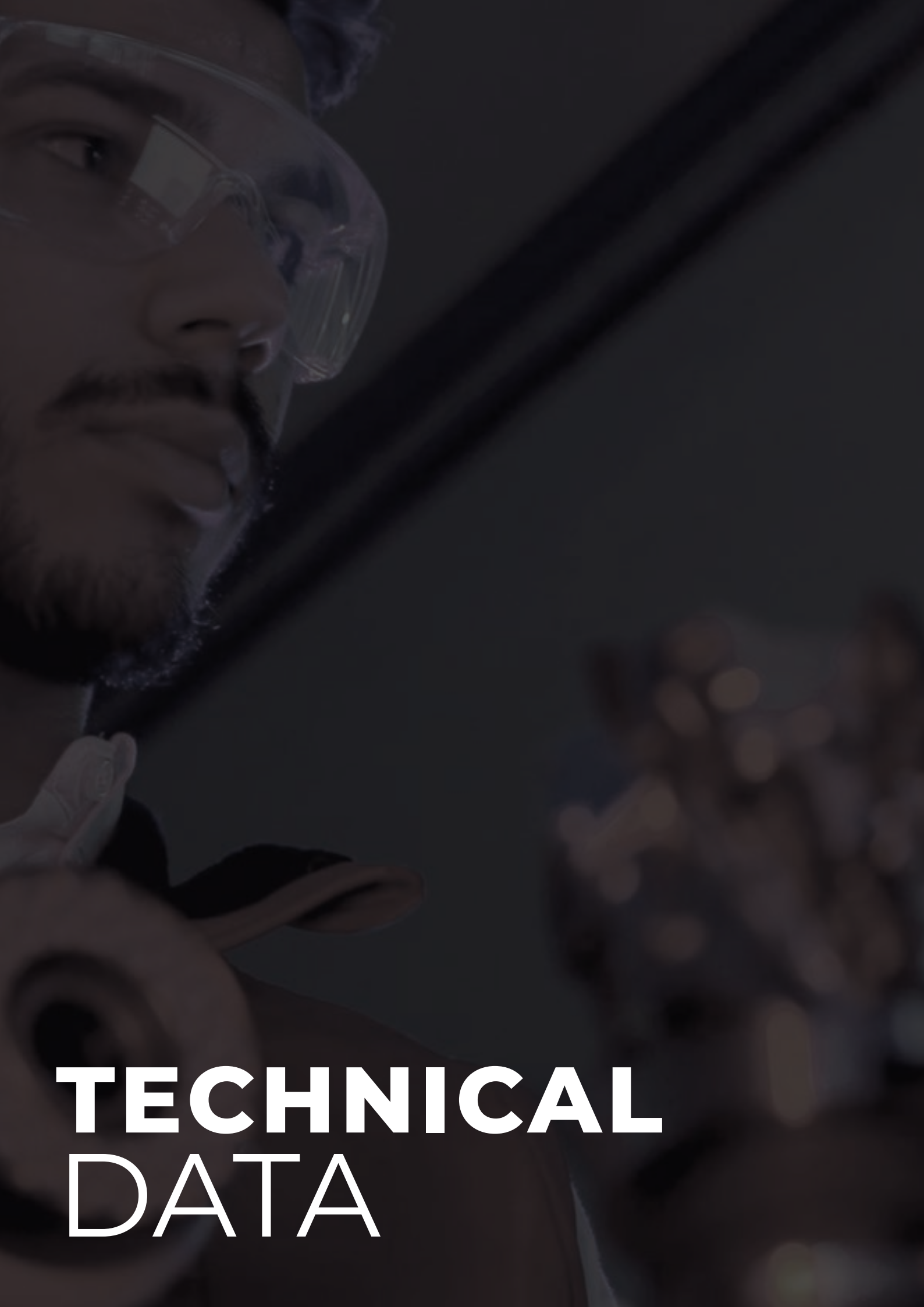


KEYS (ALLEN) | Chaves (Allen) | Llaves (Allen)



KEYS (TORX) | Chaves (Torx) | Llaves (Torx)





TECHNICAL DATA

1 TURNING GRADES

> See page C - 858

2 TURNING GRADES DESCRIPTION

> See page C - 860

3 WIPER CONCEPT

> See page C - 862

4 CUTTING SPEED

> See page C - 863

5 CHIP BREAKER SPECIFICATIONS

> See page C - 864

6 CHIP BREAKER COMPARATIVE CHART

> See page C - 868

7 GRADE COMPARATIVE CHART

> See page C - 870

	1	5	10	15	20	25	30	35	40	45	50		
P STEEL			PH7910									PVD	
				PH7920									
			PHG105										CVD
				PHG115									
				NEW PH2G115									
						PHG125							
						NEW PH2G125							
							PHG140						
M STAINLESS STEEL			PHH910									PVD	
			PH7910										
				PHH920									CVD
				PH7920									
				PHS215									
					PHS225								
							PHS240						
K CAST IRON			PH5705									CVD	
				PH5320									
					PH5740								
			PBH920									PCBN	
				PBY930									
				PBY940									

TURNING GRADES

Graus para torneamento | Calidades para torneado

	1	5	10	15	20	25	30	35	40	45	50		
N ALUMINIUM & NON FERROUS		PH0910											UNCOTED
		PDP410											PCD
		PDP403											
S HEAT Resistant / TITANIUM ALLOYS		PHH910											PVD
		PH7910											
				PHH920									PCBN
				PH7920									
		PBY603											
						PBH920							
H HARDENED MATERIALS		PBY603											PCBN
		NEW PBY620											
		PBY625											
			PBY930										
				PBY940									
						PBH920							

PVD GRADES

PHH...

An exceptionally durable PVD coating boasts superior thermal stability, ensuring outstanding wear resistance and performance.

1st choice for finishing operations on stainless steels and HRSA materials.



WEAR RESISTANCE

TOUGHNESS

PHH910M05-M10
S05-S15

An hard micro grain substrate combined with a thin optimized nanostructure PVD coating with excellent heat dissipation

The solution for Stainless steel and HRSA from medium turning to finishing.
For continuous to semi-interrupted turning.
First choice for HRSA.

PHH920M10-M25
S15-S30

A micro grain substrate combined with a thin optimized nanostructure PVD coating with excellent heat dissipation

Solution for general turning of stainless steels and HRSA.

PH7...

A thin PVD coating is recommended for finishing operations on steel and suitable for stainless steels and HRSA.

WEAR RESISTANCE

TOUGHNESS

PH7910P05-P10
M05-M10
S05-S15**PH7920**P10-P35
M10-M25
S15-S30

UNCOATED

PH0910

Uncoated carbide micro-grain grade, characterized by excellent resistance to abrasive wear and toughness, making it suitable for a wide range of machining operations, from rough to finishing, specifically tailored for aluminum alloys.

PH0910

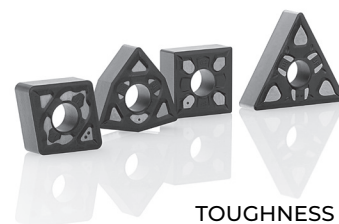
N01-N20

CVD GRADES

PHS...

CVD coating with excellent resistance to thermal and mechanical shock, providing exceptional performance for both continuous and interrupted turning.

1st Choice for stainless steel turning from semi-finishing to roughing.



WEAR RESISTANCE

TOUGHNESS

PHS215

M10-M25

Suitable for high to medium cutting speeds in stainless steel. Ideal for turning on good condition of cut (continuous cut).

PHS225

M15-M30

First choice for general application on turning of stainless steel.

PHS240

M25-M45

First choice for roughing to heavy roughing operations with interrupted cut at medium to low cutting speeds on stainless steel.

TURNING GRADES DESCRIPTION

Descrição de graus para torneamento | Descripción de calidades para torneado

PHG... | **NEW** PH2G...

PH2G grade series is an innovative combination of a highly dense and hard nanostructured coating base material, including new Al₂O₃ layer with improved wear resistance which provides superior performance during high-speed turning operations.

1st choice for steel turning operations.



WEAR RESISTANCE

TOUGHNESS

PHG105 P05-P10 First option for continuous cut with hardness higher than 38HRC.	PHG115 P10-P25 Suitable for high to medium cutting speeds on steels.	NEW PH2G115 P10-P25 For finishing to roughing operations with high cutting speeds in continuous cutting applications.	PHG125 P20-P35 Ideal for general application in all kind of steels.	NEW PH2G125 P20-P35 Ideal for general applications in all kind of steels with high metal removal rates.	PHG140 P25-P45 First choice for roughing to heavy roughing operations with interrupted cut at medium to low cutting speeds.
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PH5...

CVD coating with excellent flank wear resistance, ensuring excellent performance during continuous and interrupted cutting processes on cast iron materials.

WEAR RESISTANCE

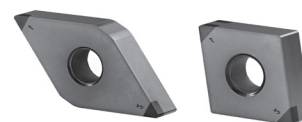
TOUGHNESS

PH5705 K05-K15	PH5320 P01-P15 K10-K30	PH5115 P10-P25	PH5125 P20-P35	PH5740 K20-K40
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PCBN

PCBN sets new benchmarks in continuous and intermittent cutting with its exceptional wear resistance. It provides unmatched performance in hot hardness, toughness, and chemical stability.

1st choice for operations on hard and/or abrasive highly abrasive materials.



PBY603 S01-S10 H01-H10 Machining of hardened materials in high continuous cut up to 180m/min cutting speed.	PBY620 H10-H20 Machining of hardened materials in light to heavy interrupted cuts.	PBY930 H20-H30 High wear resistance and impact toughness. Excels in white iron and steel rolls machining.	PBY940 H20-H30 For machining high chrome alloy steels and Ni-hard cast iron.	PBH920 K01-K30 S20-S30 For machining all types of cast iron. First choice for machining ferrous powder metals.
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PCD

Diamond particles sintered into a polycrystalline structure yield a robust, wear-resistant material with excellent thermal conductivity. 1st choice for operations on non-ferrous materials, such as high-silicon aluminium. Metal matrix composites (MMC) and carbon fiber reinforced plastics (CRFP).

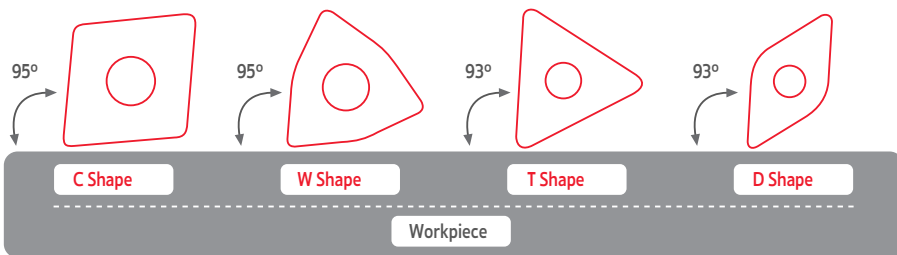
PDP410 N01-N20 General purpose Fine surface finishing. <14% silicon aluminium alloy	PDP403 N01-N10 Highest abrasion resistance Bimodal grain structure for increased diamond percentage content. >14% silicon aluminium alloy
--	--



WIPER CONCEPT

Conceito Wiper | Concepto Wiper

THE ANGLE POSITION (Kr°)



Note: C and W shapes has 2 wiper radius. While one makes longitudinal turning the opposite one makes face turning.



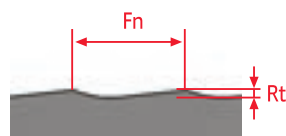
Note: Due to shape restrictions (basic angles of 60° and 55°), T and D shapes has 4 wiper radius that works in couple. That is needed to not loose the wiper effect when the insert is turned around.

THE WIPER PURPOSE IS BASED ON PRODUCTIVITY:

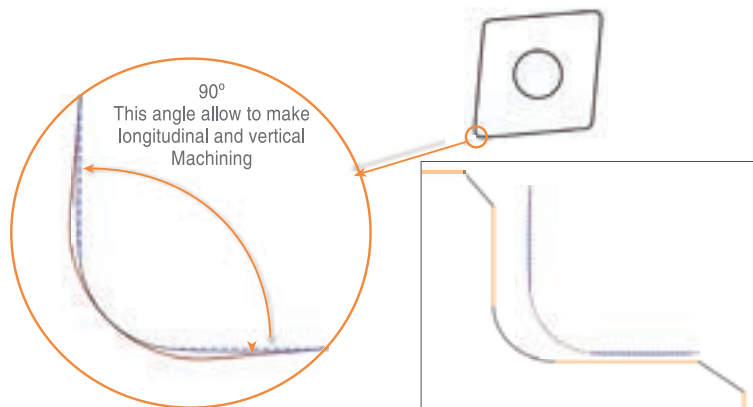


CNMG 120408-##
VS
CNMG 120408-MW

Holder Angle Position (Kr°) = 95°



EXAMPLE CNMG 120404-MW WITH ANGLE POSITION OF 95°



- Wiper nose radius
- Regular nose radius
- Wiper radius profile
- - - Wiper radius length
- Workpiece machinable areas with wiper insert.

Note: wiper radius length must be parallel to machinable workpiece areas.

CUTTING SPEED (m/min)

Velocidade de corte (m/min) | Velocidad de corte (m/min)

ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating														
			← Wear Resistance									Toughness →					
			PHG105			PHG115			NEW PH2G115			PHG125			NEW PH2G125		
			0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8
P	Unalloyed steel	125-170	280-380	210-300	200-250	250-350	180-270	170-220	285-400	205-310	195-250	200-295	170-240	150-215	230-335	195-275	170-245
	Low-alloy steel	180-350	220-280	200-260	170-210	190-250	170-230	140-180	215-285	195-260	160-205	170-230	140-210	120-190	195-260	160-240	135-215
	High-alloy steel	200-325	165-250	150-235	140-230	135-220	120-205	110-200	155-250	135-235	125-230	125-215	110-185	100-170	140-245	125-210	115-195
P	Material	Grade fn (mm/r) HB (brinell)	CVD Coating						PVD Coating								
			← Wear Resistance						Toughness →								
			PHG140			PH5740			PH7910			PH7920					
			0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8	0.2	0.4	0.8			
P	Unalloyed steel	125-170	135-230	120-210	115-200	125-220	110-200	105-190	140-245	130-225	115-220	130-230	120-220	110-210			
	Low-alloy steel	180-350	125-205	105-185	95-185	115-195	95-175	85-175	130-230	125-225	125-215	125-220	115-210	100-200			
	High-alloy steel	200-325	105-205	75-175	50-135	95-195	65-165	40-125	-	-	-	-	-	-			

ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating											
			← Wear Resistance						Toughness →					
			PHS215			PHS225			PHS240					
			0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6			
M	SS - Ferritic/martensitic	200-330	125-260	100-220	80-200	115-230	90-180	70-160	110-230	85-175	70-140			
	SS - Austenitic	180-330	120-255	95-215	75-195	110-225	85-175	65-155	105-225	80-170	65-135			
	SS - Austenitic-ferritic (Duplex)	230-260	110-245	85-205	65-185	100-215	75-165	55-145	95-215	70-160	55-125			
M	Material	Grade fn (mm/r) HB (brinell)	PVD Coating											
			← Wear Resistance						Toughness →					
			PH7910			PHH910			PH7920			PHH920		
			0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6
M	SS - Ferritic/martensitic	200-330	120-220	110-210	105-205	130-230	120-220	115-215	110-210	100-200	95-195	120-220	110-210	105-205
	SS - Austenitic	180-330	115-215	105-205	95-195	125-225	115-215	105-205	105-205	95-195	85-185	115-215	105-205	95-195
	SS - Austenitic-ferritic (Duplex)	230-260	105-202	100-195	90-185	115-212	110-205	100-195	95-192	90-185	80-175	105-202	100-195	90-185

ISO	Material	Grade fn (mm/r) HB (brinell)	CVD Coating								
			← Wear Resistance						Toughness →		
			PH5705			PH5320			PH5740		
			0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6
K	Marble cast iron	130-230	160-360	140-280	120-235	150-330	130-240	110-220	110-230	100-215	100-190
	Grey cast iron	180-220	220-380	190-330	150-290	200-330	170-280	150-230	150-230	140-220	110-210
	Nodular cast iron	160-380	150-280	135-265	120-220	140-250	125-230	110-220	125-220	115-205	105-185

ISO	Material	Grade fn (mm/r) HB (brinell)	Uncoated	
			PH0910	
			0.15	0.8
N	Aluminium alloys	60-130	375-2400	40-240
	Cooper and cooper alloys	90-110	375-630	35-65

ISO	Material	Grade fn (mm/r) HB (brinell)	PVD Coating											
			← Wear Resistance						Toughness →					
			PH7910			PHH910			PH7920			PHH920		
			0.1	0.3	0.5	0.2	0.4	0.6	0.1	0.3	0.5	0.2	0.4	0.6
S	Heat Resistant super alloys (Iron base)	200-280	65-140	60-130	50-110	75-150	70-140	60-120	60-135	55-125	45-105	70-145	65-135	55-115
	Heat Resistant super alloys (Nickel base)	250-320	45-120	40-110	30-100	55-130	50-120	40-110	40-115	35-105	25-95	50-125	45-115	35-105
	Heat Resistant super alloys (Cobalt base)	200-320	45-115	40-105	30-90	55-125	50-115	40-100	40-110	35-100	25-85	50-120	45-110	35-95
	Titanium alloys (400<or<1050[MPa])	-	50-130	45-120	40-100	60-140	55-130	50-110	45-125	40-115	35-95	55-135	50-125	45-105

NEGATIVES | Negativas | Negativas

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**	Available Shapes													
					at the nose radius	at the flank		KN __	CN __	DN __	RN __	SN __	TN __	VN __	WN __						
								Feed Fn (mm/rev)	Deph of cut DOC (mm)												
Knux's	Finishing	U	P M K	01			0,20 to 0,35	1,00 to 6,00													
					Medium	U	P M K	02			0,40 to 0,70	1,50 to 6,00									
NEGATIVES - double side	Medium to Finishing	M	P M	01			0,12 to 0,50	1,00 to 6,50													
					Roughing to Medium	M	P M	02			0,14 to 0,50	0,70 to 5,00									
	Medium to Finishing	M	P M	03			0,15 to 0,50	0,80 to 6,00													
					Fine Finishing	M	M S NEW GSF				0,08 to 0,15	0,10 to 2,50									
	Finishing	M	P	MF			0,05 to 0,60	0,10 to 2,50													
					Medium to Finishing	M	M N S	MS			0,08 to 0,80	0,20 to 4,50									
	Medium to Finishing	M	M S	SF							0,10 to 0,55	0,60 to 3,00									
									Medium to Finishing	M	P	LC			0,07 to 0,50	0,60 to 3,00					
	Medium to Finishing	M	M S	GS			0,10 to 0,60	0,40 to 2,00													
	Medium to Finishing	M	K	ST			0,10 to 0,50	0,15 to 10,50													
	Medium to Finishing	M	P	MR			0,10 to 0,70	0,30 to 9,00													

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

CHIP BREAKER SPECIFICATIONS

Especificações de quebra-afaras | Especificaciones de rompevirutas

NEGATIVES | Negativas | Negativas

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes								
					at the nose radius	at the flank	Feed F _n (mm/rev)	Depth of cut DOC (mm)	KN __	CN __	DN __	RN __	SN __	TN __	VN __	WN __	
NEGATIVES - double side	Medium	M	P	PM			0,10 to 0,60	0,30 to 9,00									
	Medium Wiper	M	P K	MW			0,15 to 0,90	0,30 to 6,00									
	Roughing	M	K	Flat			0,08 to 2,50	0,10 to 15,00									
	Roughing to Medium	M	P	MA			0,30 to 0,70	1,20 to 8,00									
	Roughing to Medium	M	M S	SS			0,10 to 1,00	0,30 to 8,50									
	Roughing	M	P M K	HR			0,20 to 1,20	0,80 to 15,00									
NEGATIVES - Single side	Roughing	M	P M	RP			0,30 to 1,50	2,00 to 12,00									
		M	P	GR			0,20 to 1,50	0,80 to 8,00									
	Heavy to Roughing	M	P M	HY			0,35 to 1,60	2,00 to 15,00									
	Heavy to Roughing	M	P K	HZ			0,35 to 1,60	2,40 to 17,00									

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes											
					at the nose radius	at the flank	Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __	DC __	RC __	SC __	TC __	VC __	VB __					
									80°	55°		90°	60°	35°	35°					
POSITIVES - Clearance angle 5° and 7°	Fine Finishing	M	M	NEW	FF			0,04 to 0,45	0,08 to 2,00											
			S																	
	Finishing to Fine finishing	G	P	M	S	FS			0,01 to 0,25	0,10 to 3,00										
			M																	
	Finishing	M	K	M	S	Flat			0,04 to 0,80	0,05 to 6,30										
			P																	
		M	P	M	S	FP			0,03 to 0,45	0,06 to 2,40										
			M																	
		M	P	M	S	BO			0,05 to 0,30	0,30 to 1,50										
			M																	
	M	M	S	M	S	FM			0,03 to 0,45	0,06 to 2,40										
		M																		
M	M	K	M	S	FK			0,03 to 0,30	0,06 to 2,40											
	M																			
Fine Finishing wiper	M	P	M	K	S	FW			0,05 to 0,50	0,30 to 3,50										
		M																		
Finishing	M	M	S	M	LM			0,08 to 0,35	0,20 to 3,00											
		M																		
Finishing Wiper	M	P	M	K	S	MW			0,10 to 0,50	0,50 to 4,00										
		M																		
Medium to Finishing	M	M	S	M	GS			0,05 to 4,00	0,40 to 5,00											
		M																		
Medium to Finishing	G	N	M	S	LN			0,05 to 1,60	0,05 to 7,00											
		M																		
Medium	M	P	M	S	MP			0,06 to 0,60	0,19 to 3,60											
		M																		

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

CHIP BREAKER SPECIFICATIONS

Especificações de quebra-apanas | Especificaciones de rompevirutas

POSITIVES | Positivas | Positivas

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes							
					at the nose radius	at the flank	Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __	DC __	RC __	SC __	TC __	VC __	VB __	
									80°	55°						
POSITIVES - Clearance angle 5° and 7°	Medium	M	MM	M			0,06 to 0,60	0,19 to 3,60								
				S			0,06 to 0,60	0,19 to 3,60								
				K			0,06 to 0,60	0,19 to 3,60								
	Roughing to Medium	M	CP	MK	P			0,04 to 0,17	0,50 to 2,40							
					M			0,04 to 0,17	0,50 to 2,40							
					S			0,04 to 0,17	0,50 to 2,40							
					P			0,05 to 3,20	0,80 to 12,80							
					M			0,05 to 3,20	0,80 to 12,80							
					K			0,05 to 3,20	0,80 to 12,80							
					P			0,25 to 2,50	2,50 to 10,00							
M			0,25 to 2,50	2,50 to 10,00												
Roughing to Medium	M	RM	ST	P			0,80 to 2,50	3,20 to 13,00								
				M			0,80 to 2,50	3,20 to 13,00								
				K			0,80 to 2,50	3,20 to 13,00								
				P			0,80 to 2,50	3,20 to 13,00								
M			0,80 to 2,50	3,20 to 13,00												

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

Insert Type	Application	Tolerance Class	Major field of Application	Geometry	Cutting Edge*		Cutting Conditions**		Available Shapes		
					at the nose radius	at the flank	Feed Fn (mm/rev)	Depth of cut DOC (mm)	CC __	DC __	
									80°	55°	
POSITIVES - Clearance angle 11°	Medium to Finishing	U	Flat	Flat			0,05 to 2,20	1,00 to 10,00			
					P			0,05 to 2,20	1,00 to 10,00		
					M			0,05 to 2,20	1,00 to 10,00		
Medium	Finishing to Fine Finishing	M	12	12			0,03 to 0,55	0,10 to 3,00			
					P			0,03 to 0,55	0,10 to 3,00		
Medium	Medium	M	13	13			0,03 to 0,55	0,20 to 7,00			
					P			0,03 to 0,55	0,20 to 7,00		

* T-Land varies according to the IC (IC reference used: 12,7mm)

** Cutting Conditions varies according to the Insert shape, IC and Nose Radius

CHIP BREAKER COMPARATIVE CHART

NEGATIVES | Negativas | Negativas

Application		Palbit	Sandvik	Kennametal	Iscar	Seco	Tungaloy	Mitsubishi	Sumitomo	Walter	Kyocera	Taegutec	Korloy	Ceratzit
Mat.	Operations													
P	Finishing	MF	QF	FS, LF	SF, PP TF		O1 TF	PK FH	FA		DP	FA	VF, HU	
	Medium to Finishing	MF, LC	PF, QF, LC MF, R/L-K	FF, FN	F3P, NF, SF	FF2, FF1	TS, TSF, ZF 11, NS, AS, TQ, NM, CB, C	SA, FY, C, SH, MP	SU, FL, SE, SX	NF3, NS6	PQ, VFCJ PQ, GP, PP, HQ, GS, CQ	FG, VF, EA FC, MC, ML, MP	VL	CF, TF
	Medium Wiper	MW*	WL, WF, WMX WM, WR	FW, MW, RW	WF, WG	W-MF2, W-MF3	AFW, FW, ASW, SW	SW	LWJ, SEW, GUW	NF, NM	WP, WQ	WS, WT		TFQ, TMQ
	Medium to Roughing	PM, MR, GR, MA	PM, QM, XM, XRM	P, MN	M3P, M3M, PP, TF, GN	MR7, MR6, M5, M6	TM, AM, DM, ZM All-round	MA, MH, MP	GU GE, UX	NMT, NM4	HS, PT, GT, CS, PS	PC, MT MC, MG-	VM	TMF, TMM M50
	Roughing	HR, RP", GR, MA	HM, PR MR	RN, RP MR	NR MR	MR6, R5	TH, THS	RP, GH HZ, HL	MU, ME HG	NM5, NM6 NM9	PH All-round	RT	GR, HR	TM, TRM
	Heavy Roughing	RP", HY", HZ"	PR, MR, HR, QR	RM RH	R3P, NM	R4, RR6	TU, TRS, TUS	HM, HX HV	HG, HP HU, HW HF	NR6, NRF NRR	PX	HT, HD RX, RH HY, HZ	GH, VT	TRR, TR, R28, R58 R88
M	Fine Finishing	GSF												
	Finishing	SF, GS	MF, SM, XF, LC, R/L-K	FP	TF, VL	FF2, FF1, MF1	SF, SA, SS	GM, MS, SH, LM	EX, EG, SU, EF	NF4 NMS	GU, MQ	EA, SF, SU, FG	VP2	CF, F30 M34 F32, TF
	Medium	MS, SF, GS	MM, QM, SM XM, XRM	MP, P	M3M, PP	MF2, FF2, MF5	SM S	MM, MA ES	GU HM	NM4	TK MU	EM, ET	VP3, HS	TMF, M42 M30, M52
	Roughing	SS, RP, HZ"	MR HM, PR	UP, RP	MR, MH	M5, M6, R8, RS, R6	TH, SH, TU	GH, RM, HZ	EM, MU	NR4, NRT, NRS	MS	"GR, VM, VH, GH"	TM, M60, TRM, TMR, TRR R80	
K	Medium to Finishing	ST	KF, XF	FN	GN	M4, M5	CF	LK, MA	UZ		C	FG	B25	CF
	Medium	ST, HR, FLAT	KM, QM, XM, XRM	RP, UN		FLAT	CM All-round	MK GK	GZ	NM5	ZS All-round	MT MG	FLAT	M50
	Roughing to Heavy Roughing	HR, FLAT, HZ"	KR Without chip breaker	Without chip breaker		MR7, M5	CH Without chip breaker	RK Without chip breaker	Without chip breaker	Without chip breaker	GC Without chip breaker	RT	GR	TMR, TR R28, R58, R88
Z	Medium	MS	MF, QM	MS, MP MG	PP	-	P		AX		AH, A3	ML	HA	F32
S	Finishing	GS, SF, MS	SF, SM 01	FS, LS MS		MF1, M1	HRF	FJ, LS	EF EX	NFT NF4	MQ	SF	VP1	
	Medium	SF, SS, DOMX	MM, QM SMR	UP, P, NGP RP	PP	MR3, MR4	HRM, HMM, SA	MS RS GJ	EG MU	NMS NM4, NRS, NR4	TK MS MU	SU	VP2, VP3	M34, M52

* = Wiper
" = Single face insert

TURNING

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

CHIP BREAKER COMPARATIVE CHART

Tabela comparativa de quebra-afaras | Tabla de comparación de rompevirutas

POSITIVES - CLEARANCE ANGLE 5°, 7° AND 11° | Positivas - Alívio 5°, 7° e 11° | Positivas - Alivio 5°, 7° y 11°

Application		Palbit	Sandvik	Kennametal	Iscar	Seco	Tungaloy	Mitsubishi	Sumitomo	Walter	Kyocera	Taegutec	Korloy	Ceratzit
Mat.	Operations													
STEEL	P Fine Finishing	FS	UM	UF	SF	F1, MF2	O1	FV, SMG	FC, FW	PF2	CF, CK	FA	HFP	F32
	Finishing	FS, FP	R/L-K, PF, XF, UF	11, GM, LF	PF, SM, 14, 17, 19, XL	FF1, F2, M3, MF2	PSF, PF, SS, PS, PSS, TS	FP, FV, SV, LP	FP, FZ, LU, FK, SS, SC, SU, SK, SF	PF5, PF4, PS5	CQ, GK, GP, HQ, XP, XQ	FG, GF	VF, VL, F	SF, SMF, SMQ
	Finishing Wiper	FW*	WF	FW	WF	W-F1	TSW, W08	SW	LWU, SDW	PF				
	Finishing to Medium	MP	PM	MF, MP, GM, MR	DT, HQ	MF2	PM, 23, 24, RS	MP, MV	SU, UM, UJ	PM5	VF, MF	MT, PC	HMP, C25, M, CMX	SM
	Finishing to Medium Wiper	MW*	WM	MW	WG			MW		PM		WT		
STAINLESS STEEL	M Fine Finishing	FS, FF	UM	LF, GM	SM	F1, MF2, FF1	PSF	FJ	FC	PF2	GQ, GF	FG	HFP	
	Finishing	FS, FM, LM	MF, UF, R/L-K	MF	PF, 14	F2, M3	SS, PSS	FM, FV, SV	SU	PF4	MQ	FA	VF, F	SF, SMF, SMQ
	Finishing Wiper	FW*	WF	FW	WF	W-F1		SW		PF				
	Finishing to Medium	MM, LM	MM, XM	MF, MP	SM	MF2, M5	PM	MM, MV	UM	PM5	XQ, VF	MT, PC	HMP, C25, M	F23, F43, SM
	Finishing to Medium Wiper	MW*	WM	MW	WG			MW		PM		WT		
CAST IRON	K Finishing	FK	KF	11	PF	M3		FV	SK		GK	FA	HMP	SF
	Finishing Wiper	FW*	WF	FW	PF	W-F1		SW	LWU	PF		MT, PC		
	Finishing to Medium	MK, FLAT	KM, KR	MF, MP, FLAT	PM5, 19, FLAT	M5	CM, FLAT	MV, MK, FLAT	UM, FLAT	PM5, PS5	FLAT	FALT	C25, HMP, FLAT	25P, 27, 29
	Finishing to Medium Wiper	MW*	WM	MW		W-F2		MW		PM		WT		
ALUMINIUM	Z Medium	LN	AL	HP, GT	AF, AS	AL	AL, PP	AZ, R/L-F	AG, AX, AY	PF2, PM2	AH, A3	FL	AK, AR	23P, 25P, 27
HRSA	S Fine Finishing	FS, FF	UM	LF	SM	F1, MF2	PSF, PF, SS, PS, PSS, TS	FJ	FC	PF2	GQ		HFP	SF
	Finishing	FM, LM	MF, UF, R/L-K	GM	PF, 14	F1	PSS, PS	FV	FX, FY	PF4	MQ	FA	HFP	F23, F43, SM
	Finishing Wiper	FW*	WF	FW	WF					PF				
	Finishing to Medium	MM, LM	MM, XM	MF	SM		PM	MV	SI	PM5	MQ	FG	HMP	SM, 25P, 29
	Finishing to Medium Wiper	MW*	WM	MW	WG					PM				
	Medium to Roughing	GS												

GRADES COMPARATIVE CHART

CVD COATED GRADES | Graus revestidos a CVD | Calidades con recubrimiento CVD

ISO	Material	Palbit	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
P	P05	PHG105	GC4305	KCP05B KC9105	IC9150 IS8080 IC428	TP0500 TP1500	UE6105 MC6005	ACP810P AC700G	T9105 T9005	WPP01	CA510 CA5505	TT1300 TT8105	NC3010	
	P10	PHG105 PHG115 PH2G115	GC4215 GC4315 GC4415	KCP10B KCP10 KCP25 KCP25C KC9110	IC9150 IC9015 IC8150 IC8250	TP1500 TP1501 TP2500	UE6105 MC6015 MC6115 UE6110 MY5015	AC810P AC8015P AC700G AC820P AC2000	T6215 T9105 T9005 T9115 T9215	WPP05 WPP10S WPP10G	CAS510 CA115P CA5505 CA515 CA5515	TT1300 TT7310 TT7400 TT8115 TT8115B	NC3215	CTC1110 CTC1115 CTC3110 TCC410
	P20	PHG115 PH2G115 PHG125 PH2G125	GC4215 GC4315 GC4415 GC4225 GC4325 GC4425	KCP25B KCP25 KCP25C KC9125	IC9015 IC8250 IC9050 IC9250 IC8350	TP1501 TP2500 TP2501	MC6015 MC6115 UE6110 MC6025 MC6125 UE6020 MY5015	AC8015P AC8025P AC820P AC2000 AC830P	T6215 T6225 T9115 T9215 T9125 T9225	WPP10S WPP10G WPP20S WPP20G	CA115P CA515 CA5515 CA525 CA5525 CA6525 CR9025	TT3500 TT5100 TT7400 KT7300 TT7800 TT8115B	NC3220 NC3220 NC3120	CTC1110 CTC1115 CTC1125 CTC1130 CTC1425
	P30	PHG125 PH2G125	GC4225 GC4325 GC4425 GC4335	KCP25B KCP25C KCP30 KCP40 KCP8050	IC8250 IC8350 IC9250 IC9350	TP2500 TP2501 TP3500 TP3000	MC6025 MC6125 UE6020 UE6035 UH6400	AC8025P AC830P AC630M	T6225 T9125 T9225 T9135 T9035	WPP20S WPP20G WPP30S WPP30G	CA525 CA5525 CA6525 CA530 CA5335 CR9025	TT3500 TT5100 TT7400 TT8125B KT7300	NC3215 NC3225 NC3120	CTC1125 CTC1130 CTC1135 CTC1425
	P40	PH5740 PHG140	GC4235 GC4335	KCP30B KCP40B KC9140 KC9040 KC9240 KC9245	IC8350 IC9350	TP3500 TP3000	MC6030 UE6035 UH6400	AC630M	T9135 T9035	WPP30S	CA530 CA5535	TT5100 TT7100 TT8135 KT7300 TT7800	NC500H NC5330	CTC1135 CTC1435 CTC2135
M	M10	PHS215	GC2015	KCM15	IC9250 IC6015 IC8250	TM2000	MC7015 US7020	AC610M AC620M	T6120 T9115 T9215	WMP10S WAM20	CA6515		NC9020	CTC1110 CTC1115
	M20	PHS215 PHS225	GC2015 GC2220	KCM15 KCM25 KC9225	IC9250 IC6015 IC6025 IC9025 IC656	TM2000 TM4000	MC7015 US7020 MC7025	AC610M AC620M AC6030M AC630M	T6020 T6120 T6130 T9125 T9215	WMP10S WMP20S	CA6515 CA6525	TT5100 TT9225	NC9020	CTC1115 CTC1125 CTC1130 CTC1135
	M30	PHS225 PHS240	GC2025 GC2220	KCM25 KCM35 KC9230	IC9350 IC6025 IC635	TM4000	MC7025 MC7035 US735	AC6030M AC6040M AC630M	T6030 T6130	WMP20S WMP30	CA6525	TT5100 TT7100 TT9225 TT9235	NC9025	CTC1125 CTC1135 CTC1425 CTC1435 CTC2135
	M40	PHS240	GC2025	KCM35 KC9240 KC9245	IC6025 IC9350	TM4000	MC7035 US735	AC6030M AC6040M AC630M		WMP30		TT7100 TT9235	NC9025	CTC2135
	M50	PHS228	GC2035	KC9245	IC9350									NC9035
K	K05	PH5705	GC3205 GC3210	KCK05 KC9315	IC5005 IC9007	TH1500 TK1001 TK1000 TK1501	MC5005 UC5105	AC405K AC4010K	T5105	WAK10 WVK10	CA310 CA4505 CA4010	TT7005		
	K10	PH5705 PH5320	GC3205 GC3210 GC3215	KCK15B KCK15B KC920 KC9315 KC9325	IC5005 IC5010 IC9150 IC428 IC4028	TK1001 TK1000 TK1501 TK2000 TK2001 TK2501	MC5015 UC5105 UC5115 MY5015	AC405K AC4010K AC4015K AC420K AC700G	T5105 T5115	WVK10 WAK20 WVK20	CA310 CA315 CA320 CA4515 CA4110 CA4115	TT7005 TT7015 TT3100 TT7310 TT8115	NC6205 NC6210 NC6215	CTC1110 CTC1115 CTC3110 TCC410 CTC3215
	K20	PH5320	GC3215	KCK20 KC9110 KC9325	IC5010 IC8150 IC9150 IC9015 IC418	TK2001 TK2000 TK2501	MC5015 UC5115 UE6110 MY5015	AC4015K AC420K AC700G AC820P	T5115 T5125	WVK20 WAK30	CA315 CA320 CA4515 CA4115 CA4120	TT7310 TT7015 TT8115	NC6215	CTC1115 CTC1125 CTC1130 CTC1425 CTC3215
	K30	PH5740		KC9125 KC9325	IC9015 IC418		UE6110	AC820P	T5125					TSC30

GRADES COMPARATIVE CHART

Tabela comparativa de graus | Tabla de comparación de calidades

UNCOATED GRADES | Graus não revestidos | Calidades sin recubrimiento

ISO		Palbit	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
ALUMINIUM	N01	PH0910	H10		IC20				KS05F	WK1	KW10	K10		
	N10		H10 H13A	KU10 K313 K68	IC20 IC08 IC28	890 HX KX	HTi10		TH10	WK1	KW10 KWK15	K10	H01	
	N20		H10 H13A	KU10 K313 K68	IC08 IC28	HX KX 883		H1	KS15F	WK1	KW10 KWK15		H01	

GRADES COMPARATIVE CHART

TURNING

PVD COATED GRADES | Graus Revestidos a PVD | Calidades con recubrimiento PVD

ISO	Palbit	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material													
P	P01	PH7910								PR915 PR1005	PV3030	PC8110	
	P10	PH7910	GC1525 GC1025	KC5010 KC5510 KU10T	IC250 IC350 IC507 IC570 IC807 IC907 IC908	CP200 TS2001	VP10MF	AH710		PR915 PR1005 PR930 PR1025 PR1115 PR1225 PR1425	PV3010 PV3030 TT7080 TT1040	PC230	
	P20	PH7920	GC1525 GC1025 GC1125	KC5025 KC5525 KC7215 KC7315 KU25T	IC228 IC250 IC308 IC328 IC350 IC354 IC507 IC528 IC570 IC807 IC808 IC907 IC908 IC928 IC1008 IC1028 IC3028	CP250 TS2500	VP10RT VP20RT VP15TF VP20MF	AC520U	AH710 AH725 AH120 SH730 GH730 GH130	PR930 PR1025 PR1115 PR1225	TT7220 TT9020 TT7080 TT9080 TT7070	PC5300 PC8115	SR226 GM127
	P30	PH7920	GC1025 GC1125	KC7015 KC7020 KU25T KC7235	IC228 IC250 IC328 IC330 IC354 IC528 IC1008 IC1028 IC3028	CP500	VP10RT VP20RT VP20MF	AC530U	AH725 AH120 SH730 GH730 GH130 AH740 J740		TT9030 TT7030 TT7080 TT9030 TT9080	PC8115	GM40 CTP1235 CTP2235 SR226 GM127
M	M01	PH7910 PHH910	GC1005		IC520	TS2000 CP200	VP10MF		WSM10S	PR915	TT5080		
	M10	PH7910 PHH910	GC1005 GC1025 GC1115 GC1125 GC1105	KC5010 KC5510 KC6005 KC6015	IC330 IC354 IC507 IC520 IC570 IC807 IC907 IC3028	CP200 TS2000	VP10MF	AH710	WSM20S	PR915 PR1025 PR1225 PR1425	TT5030 PV3010 PV3030 TT9030	PC8110 PC9030	
	M20	PH7920 PHH920	GC1005 GC1025 GC1125 GC1105	KC5025 KC5525 KC7020 KC7025	IC250 IC330 IC354 IC808 IC908 IC1008 IC1028 IC3028	CP250 TS2500 CP500	VP10RT VP20RT VP15TF VP20MF	AC520U	AH710 AH725 AH120 SH730 GH730 GH130 GH330 AH60	WSM30S PR1025 PR1125 PR1225 PR915 PR930	TT5030 PV3030 TT9020 TT9030	PC9030 PC8115	CTP2120 CTP1235 SR226 GM127
	M30	PH7920 PHH920	GC1125 GC2035	KC7030 KC7225	IC228 IC250 IC328 IC330 IC1008 IC1028 IC3028	CP500	VP10RT VP20RT VP15TF VP20MF MP7035	AC520U AC530U	GH330 AH725 AH120 AH730 GH730 GH130 J740 AH645	PR1125	TT9030 TT9080 TT8030	PC9030	CTP2240 CTP1235 CTP2235 SR226 GM127
STEEL													
STAINLESS STEEL													

Negative inserts

Positive inserts

PCBN & PCD inserts

Heavy turning

External Toolholders

Internal Toolholders

Automatic Lathes

Spare Parts

Technical Data

GRADES COMPARATIVE CHART

Tabela comparativa de graus | Tabla de comparación de calidades

ISO		Palbit	Sandvik	Kennametal	Iscar	Seco	Mitsubishi	Sumitomo	Tungaloy	Walter	Kyocera	Taegutec	Korloy	Ceratizit
Material														
S	S01	PH7910 PHH910			IC507 IC907		MP9005 VP05RT		AH905 AH905 SH730	WDSM10S	PR915		PC8110	
	S10	PH7910 PHH910	GC1105 GC1115 GC1005 GC1025	KC5010 KC5410 KC5510	IC507 IC903 IC300 IC808	CP200 CP250 TS2000 TS2500 CP250	MP9015 VP10RT MP9015	AC510U	AH110 AH120	WSM20S	PR915	TT5030 TT5030	PC8110 PC8115 PC8105	CM40 SR226 CM45
	S20	PH7920 PHH920	GC1025 GC1125	KC5025 KC5525	IC908 IC928 IC3028 IC806	TS2500 CP500	MT9015 VP20RT	AC510U AC520U	AH120 AH720	WSM30S	PR1125	TT8020 TT8030	PC8815 PC5300	CTP2440 GM127
	S30	PH7920 PHH920	GC1125				VP15TF	AC520U	AH725		PR1125	TT8020	PC5400	CTP2135

LOOKING FOR MORE TROUBLESHOOTING?



Check the qrcode for more information.