

palbit 

SOLID CARBIDE

DRILLS

Complete range

DRILLING



SINCE 1916

DRILLS CODE KEY | Sistema de codificação para brocas | Sistema de codificación para brocas

1	2	3	4	5	6	7	8	9	10	
H	BD	P	U	E	2	03D	0860	-	089	047

1 - Drill Group
H - Integral solid carbide drill (Hard metal)

2 - Drill Series
BD - Basic Drill
MD - Micro Drill

3 - Main work piece
P - Steel
M - Stainless Steel
K - Cast Iron
(..)

4 - Cooling
U - Without coolant channel
C - With coolant channel

5 - Coupling Shank
E - Cylindrical Shank
W - Weldon Shank

6 - Number Flutes (CICT)
Example: Z = 1 ; Z = 2 ; Z = 3 ;

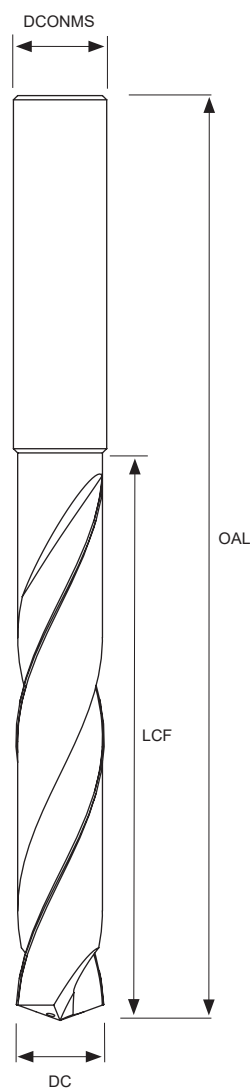
7 - Drill depth
Example: 03D = 3 x Diameter

8 - Drill diameter (DC)
Example: 0860 = Ø 8,6 mm

9 - Total length (OAL)
Example: 089 = Ø 89 mm









10 - Flutes length (LCF)
Example: 047 = Ø 47 mm

Integral Solid Carbide Drills technical drawing example



OVERVIEW | Vista genérica | Información general

		Diameter (mm)										
		01	03	12	20	32	50	60	70	80	110	...180
Solid Carbide Drills	NEW HMDU ... Micro Drill (3D-5D)											
	LCF max = 21mm											
	HBDP ... SC Drill (3D-5D)											
	LCF max = 101mm											
	HBDP ... SC Drill (8D)											
	LCF max = 162mm											

	3 x DC			5 x DC			8 x DC
	HMDUUE 2 03D	HBDPCE 2 03D	HBDPUE 2 03D	HMDUCE 2 05D	HBDPCE 2 05D	HBDPUE 2 05D	HBDPCE 2 08D
							
	2	2	2	2	2	2	2
Drill diameter Range (DC - mm)	1,0 - 2,9	3 - 20	3 - 20	1,0 - 2,9	3 - 20	3 - 20	3 - 12
Flutes length Range (LCF - mm)	5 - 21	20 - 79	20 - 79	10 - 21	28 - 101	28 - 101	34 - 114
Total length Range (OAL - mm)	45 - 55	62 - 131	62 - 131	55	66 - 153	66 - 153	72 - 162
Coolant channel	x	√	x	√	√	x	√
Couplings	Cylindrical shank	Cylindrical shank Weldon shank	Cylindrical shank Weldon shank	Cylindrical shank	Cylindrical shank Weldon shank	Cylindrical shank	Cylindrical shank

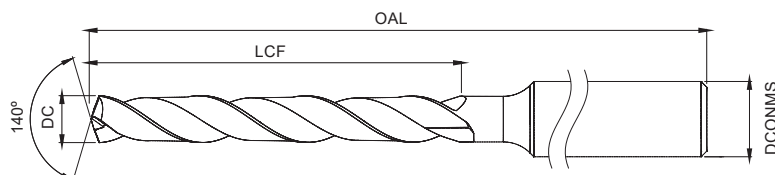
NEW HMDUUE 2 03D Solid carbide drills | Brocas de metal duro | Brocas en metal duro



P K

HRC
≤
60

IT8-9
IT class

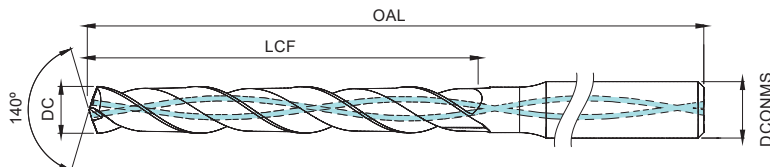


Order code	Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920
		DC	DCONMS	LCF	OAL		HA (Cylindrical)
1182306Z9	HMDUUE 2 03D 0100-045005	1,00	4	5	45	2	⊗
1181797Z9	HMDUUE 2 03D 0110-045007	1,10	4	7	45	2	⊗
1181798Z9	HMDUUE 2 03D 0120-045007	1,20	4	7	45	2	⊗
1181799Z9	HMDUUE 2 03D 0130-045007	1,30	4	7	45	2	⊗
1181800Z9	HMDUUE 2 03D 0140-045007	1,40	4	7	45	2	⊗
1181801Z9	HMDUUE 2 03D 0150-045007	1,50	4	7	45	2	⊗
1181802Z9	HMDUUE 2 03D 0160-055014	1,60	4	14	55	2	⊗
1181803Z9	HMDUUE 2 03D 0170-055014	1,70	4	14	55	2	⊗
1181804Z9	HMDUUE 2 03D 0180-055014	1,80	4	14	55	2	⊗
1181814Z9	HMDUUE 2 03D 0190-055014	1,90	4	14	55	2	⊗
1181501Z9	HMDUUE 2 03D 0200-055020	2,00	4	20	55	2	⊗
1182307Z9	HMDUUE 2 03D 0210-055020	2,10	4	20	55	2	⊗
1181817Z9	HMDUUE 2 03D 0220-055020	2,20	4	20	55	2	⊗
1181818Z9	HMDUUE 2 03D 0230-055020	2,30	4	20	55	2	⊗
1181819Z9	HMDUUE 2 03D 0240-055020	2,40	4	20	55	2	⊗
1182308Z9	HMDUUE 2 03D 0250-055020	2,50	4	20	55	2	⊗
1181821Z9	HMDUUE 2 03D 0260-055020	2,60	4	20	55	2	⊗
1181822Z9	HMDUUE 2 03D 0270-055020	2,70	4	20	55	2	⊗
1182309Z9	HMDUUE 2 03D 0280-055020	2,80	4	20	55	2	⊗
1182310Z9	HMDUUE 2 03D 0290-055020	2,90	4	20	55	2	⊗

⊗ Stock item | Produto de stock | Itens de stock

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

NEW HMDUCE 2 05D Solid carbide drills | Brocas de metal duro | Brocas en metal duro

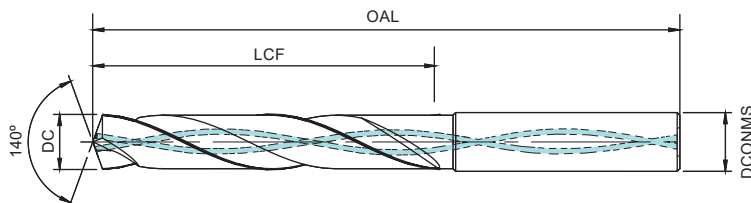


P	K
HRC ≤ 60	IT8-9 IT class

Order code	Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920
		DC	DCONMS	LCF	OAL		HA (Cylindrical)
1181838Z9	HMDUCE 2 05D 0100-055010	1,00	3	10	55	2	☉
1181839Z9	HMDUCE 2 05D 0110-055012	1,10	3	12	55	2	☉
1181840Z9	HMDUCE 2 05D 0120-055012	1,20	3	12	55	2	☉
1181841Z9	HMDUCE 2 05D 0130-055012	1,30	3	12	55	2	☉
1181842Z9	HMDUCE 2 05D 0140-055012	1,40	3	12	55	2	☉
1181843Z9	HMDUCE 2 05D 0150-055012	1,50	3	12	55	2	☉
1181844Z9	HMDUCE 2 05D 0160-055016	1,60	3	16	55	2	☉
1181845Z9	HMDUCE 2 05D 0170-055016	1,70	3	16	55	2	☉
1181846Z9	HMDUCE 2 05D 0180-055016	1,80	3	16	55	2	☉
1181847Z9	HMDUCE 2 05D 0190-055016	1,90	3	16	55	2	☉
1181848Z9	HMDUCE 2 05D 0200-055016	2,00	3	16	55	2	☉
1181849Z9	HMDUCE 2 05D 0210-055021	2,10	3	21	55	2	☉
1181850Z9	HMDUCE 2 05D 0220-055021	2,20	3	21	55	2	☉
1182311Z9	HMDUCE 2 05D 0230-055021	2,30	3	21	55	2	☉
1182312Z9	HMDUCE 2 05D 0240-055021	2,40	3	21	55	2	☉
1182313Z9	HMDUCE 2 05D 0250-055021	2,50	3	21	55	2	☉
1182314Z9	HMDUCE 2 05D 0260-055021	2,60	3	21	55	2	☉
1181855Z9	HMDUCE 2 05D 0270-055021	2,70	3	21	55	2	☉
1182315Z9	HMDUCE 2 05D 0280-055021	2,80	3	21	55	2	☉
1182316Z9	HMDUCE 2 05D 0290-055021	2,90	3	21	55	2	☉

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P K

HRC ≤ 60

IT8-9
IT class

Drill Dia. DC	DC3,0	3,0<DC≤6,0	6,0<DC≤10,0	10,0<DC≤18,0	18,0<DC≤20,0
Hole Tolerances	+0,002	+0,004	+0,006	+0,007	+0,008
	+0,012	+0,016	+0,021	+0,025	+0,028

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180956Z9	1181963Z9	HBDPCE/W 2 03D 0300-062020	3,00	6	20	62	2	⊗	⊗
1180957Z9	1181964Z9	HBDPCE/W 2 03D 0310-062020	3,10	6	20	62	2	⊗	⊗
1180958Z9	1181965Z9	HBDPCE/W 2 03D 0320-062020	3,20	6	20	62	2	⊗	⊗
1181791Z9	1181966Z9	HBDPCE/W 2 03D 0325-062020	3,25	6	20	62	2	⊗	○
1180959Z9	1181967Z9	HBDPCE/W 2 03D 0330-062020	3,30	6	20	62	2	⊗	⊗
1180960Z9	1181968Z9	HBDPCE/W 2 03D 0340-062020	3,40	6	20	62	2	⊗	○
1180961Z9	1181969Z9	HBDPCE/W 2 03D 0350-062020	3,50	6	20	62	2	⊗	⊗
1180962Z9	1181970Z9	HBDPCE/W 2 03D 0360-062020	3,60	6	20	62	2	⊗	⊗
1180963Z9	1181971Z9	HBDPCE/W 2 03D 0370-062020	3,70	6	20	62	2	⊗	○
1180964Z9	1181972Z9	HBDPCE/W 2 03D 0380-066024	3,80	6	24	66	2	⊗	○
1180965Z9	1181973Z9	HBDPCE/W 2 03D 0390-066024	3,90	6	24	66	2	⊗	⊗
1180966Z9	1181974Z9	HBDPCE/W 2 03D 0400-066024	4,00	6	24	66	2	⊗	○
1180967Z9	1181975Z9	HBDPCE/W 2 03D 0410-066024	4,10	6	24	66	2	⊗	⊗
1180968Z9	1181976Z9	HBDPCE/W 2 03D 0420-066024	4,20	6	24	66	2	⊗	⊗
1180969Z9	1181977Z9	HBDPCE/W 2 03D 0430-066024	4,30	6	24	66	2	⊗	⊗
1180970Z9	1181978Z9	HBDPCE/W 2 03D 0440-066024	4,40	6	24	66	2	⊗	⊗
1180971Z9	1181979Z9	HBDPCE/W 2 03D 0450-066024	4,50	6	24	66	2	⊗	○
1180972Z9	1181980Z9	HBDPCE/W 2 03D 0460-066024	4,60	6	24	66	2	⊗	○
1181793Z9	1181981Z9	HBDPCE/W 2 03D 0465-066024	4,65	6	24	66	2	⊗	○
1180973Z9	1181982Z9	HBDPCE/W 2 03D 0470-066024	4,70	6	24	66	2	⊗	⊗
1180974Z9	1181983Z9	HBDPCE/W 2 03D 0480-066028	4,80	6	28	66	2	⊗	○
1180975Z9	1181984Z9	HBDPCE/W 2 03D 0490-066028	4,90	6	28	66	2	⊗	⊗

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HBDPCE/W 2 03D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180976Z9	1181985Z9	HBDPCE/W 2 03D 0500-066028	5,00	6	28	66	2	⊗	○
1180977Z9	1181986Z9	HBDPCE/W 2 03D 0510-066028	5,10	6	28	66	2	⊗	○
1180978Z9	1181987Z9	HBDPCE/W 2 03D 0520-066028	5,20	6	28	66	2	⊗	○
1180979Z9	1181988Z9	HBDPCE/W 2 03D 0530-066028	5,30	6	28	66	2	⊗	⊗
1180980Z9	1181989Z9	HBDPCE/W 2 03D 0540-066028	5,40	6	28	66	2	⊗	⊗
1180981Z9	1181990Z9	HBDPCE/W 2 03D 0550-066028	5,50	6	28	66	2	⊗	○
1181795Z9	1181991Z9	HBDPCE/W 2 03D 0555-066028	5,55	6	28	66	2	⊗	⊗
1180982Z9	1181992Z9	HBDPCE/W 2 03D 0560-066028	5,60	6	28	66	2	⊗	○
1180983Z9	1181993Z9	HBDPCE/W 2 03D 0570-066028	5,70	6	28	66	2	⊗	⊗
1180984Z9	1181994Z9	HBDPCE/W 2 03D 0580-066028	5,80	6	28	66	2	⊗	○
1180985Z9	1181995Z9	HBDPCE/W 2 03D 0590-066028	5,90	6	28	66	2	⊗	⊗
1180986Z9	1181996Z9	HBDPCE/W 2 03D 0600-066028	6,00	6	28	66	2	⊗	○
1180987Z9	1181997Z9	HBDPCE/W 2 03D 0610-079034	6,10	8	34	79	2	⊗	○
1180988Z9	1181998Z9	HBDPCE/W 2 03D 0620-079034	6,20	8	34	79	2	⊗	⊗
1180989Z9	1181999Z9	HBDPCE/W 2 03D 0630-079034	6,30	8	34	79	2	⊗	⊗
1180990Z9	1182000Z9	HBDPCE/W 2 03D 0640-079034	6,40	8	34	79	2	⊗	⊗
1180991Z9	1182001Z9	HBDPCE/W 2 03D 0650-079034	6,50	8	34	79	2	⊗	○
1180792Z9	1182002Z9	HBDPCE/W 2 03D 0660-079034	6,60	8	34	79	2	⊗	⊗
1180992Z9	1182003Z9	HBDPCE/W 2 03D 0670-079034	6,70	8	34	79	2	⊗	⊗
1180993Z9	1182004Z9	HBDPCE/W 2 03D 0680-079034	6,80	8	34	79	2	⊗	⊗
1180994Z9	1182005Z9	HBDPCE/W 2 03D 0690-079034	6,90	8	34	79	2	⊗	⊗
1180995Z9	1182006Z9	HBDPCE/W 2 03D 0700-079034	7,00	8	34	79	2	⊗	⊗
1180996Z9	1182007Z9	HBDPCE/W 2 03D 0710-079041	7,10	8	41	79	2	⊗	⊗
1180997Z9	1182008Z9	HBDPCE/W 2 03D 0720-079041	7,20	8	41	79	2	⊗	⊗
1180998Z9	1182009Z9	HBDPCE/W 2 03D 0730-079041	7,30	8	41	79	2	⊗	⊗
1180999Z9	1182010Z9	HBDPCE/W 2 03D 0740-079041	7,40	8	41	79	2	⊗	⊗
1181000Z9	1182011Z9	HBDPCE/W 2 03D 0750-079041	7,50	8	41	79	2	⊗	⊗
1181001Z9	1182012Z9	HBDPCE/W 2 03D 0760-079041	7,60	8	41	79	2	⊗	⊗
1181002Z9	1182013Z9	HBDPCE/W 2 03D 0770-079041	7,70	8	41	79	2	⊗	⊗
1181003Z9	1182014Z9	HBDPCE/W 2 03D 0780-079041	7,80	8	41	79	2	⊗	⊗
1181004Z9	1182015Z9	HBDPCE/W 2 03D 0790-079041	7,90	8	41	79	2	⊗	○
1181005Z9	1182016Z9	HBDPCE/W 2 03D 0800-079041	8,00	8	41	79	2	⊗	○
1181006Z9	1182017Z9	HBDPCE/W 2 03D 0810-089047	8,10	10	47	89	2	⊗	⊗
1181007Z9	1182018Z9	HBDPCE/W 2 03D 0820-089047	8,20	10	47	89	2	⊗	○
1181008Z9	1182019Z9	HBDPCE/W 2 03D 0830-089047	8,30	10	47	89	2	⊗	⊗
1181009Z9	1182020Z9	HBDPCE/W 2 03D 0840-089047	8,40	10	47	89	2	⊗	⊗
1181010Z9	1182021Z9	HBDPCE/W 2 03D 0850-089047	8,50	10	47	89	2	⊗	○
1181011Z9	1182022Z9	HBDPCE/W 2 03D 0860-089047	8,60	10	47	89	2	⊗	○
1181012Z9	1182023Z9	HBDPCE/W 2 03D 0870-089047	8,70	10	47	89	2	⊗	⊗
1181013Z9	1182024Z9	HBDPCE/W 2 03D 0880-089047	8,80	10	47	89	2	⊗	⊗
1181014Z9	1182025Z9	HBDPCE/W 2 03D 0890-089047	8,90	10	47	89	2	⊗	⊗
1181015Z9	1182026Z9	HBDPCE/W 2 03D 0900-089047	9,00	10	47	89	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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Continue next page

HBDPCE/W 2 03D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DONMS	LCF	OAL		HA	HB
1181016Z9	1182027Z9	HBDPCE/W 2 03D 0910-089047	9,10	10	47	89	2	⊗	○
1181017Z9	1182028Z9	HBDPCE/W 2 03D 0920-089047	9,20	10	47	89	2	⊗	⊗
1181018Z9	1182029Z9	HBDPCE/W 2 03D 0930-089047	9,30	10	47	89	2	⊗	○
1181019Z9	1182030Z9	HBDPCE/W 2 03D 0940-089047	9,40	10	47	89	2	⊗	⊗
1181020Z9	1182031Z9	HBDPCE/W 2 03D 0950-089047	9,50	10	47	89	2	⊗	⊗
1181021Z9	1182032Z9	HBDPCE/W 2 03D 0960-089047	9,60	10	47	89	2	⊗	⊗
1181022Z9	1182033Z9	HBDPCE/W 2 03D 0970-089047	9,70	10	47	89	2	⊗	⊗
1181023Z9	1182034Z9	HBDPCE/W 2 03D 0980-089047	9,80	10	47	89	2	⊗	○
1181024Z9	1182035Z9	HBDPCE/W 2 03D 0990-089047	9,90	10	47	89	2	⊗	⊗
1181025Z9	1182036Z9	HBDPCE/W 2 03D 1000-089047	10,00	10	47	89	2	⊗	○
1181026Z9	-	HBDPCE/W 2 03D 1010-102055	10,10	12	55	102	2	⊗	-
1181027Z9	1182037Z9	HBDPCE/W 2 03D 1020-102055	10,20	12	55	102	2	⊗	⊗
1181028Z9	1182038Z9	HBDPCE/W 2 03D 1030-102055	10,30	12	55	102	2	⊗	⊗
1181029Z9	-	HBDPCE/W 2 03D 1040-102055	10,40	12	55	102	2	⊗	-
1181030Z9	1182039Z9	HBDPCE/W 2 03D 1050-102055	10,50	12	55	102	2	○	○
1181031Z9	-	HBDPCE/W 2 03D 1060-102055	10,60	12	55	102	2	⊗	-
1181032Z9	-	HBDPCE/W 2 03D 1070-102055	10,70	12	55	102	2	○	-
1181033Z9	1182040Z9	HBDPCE/W 2 03D 1080-102055	10,80	12	55	102	2	○	⊗
1181034Z9	-	HBDPCE/W 2 03D 1090-102055	10,90	12	55	102	2	⊗	-
1181035Z9	1182041Z9	HBDPCE/W 2 03D 1100-102055	11,00	12	55	102	2	○	○
1181036Z9	-	HBDPCE/W 2 03D 1110-102055	11,10	12	55	102	2	⊗	-
1181037Z9	1182042Z9	HBDPCE/W 2 03D 1120-102055	11,20	12	55	102	2	○	⊗
1181038Z9	-	HBDPCE/W 2 03D 1130-102055	11,30	12	55	102	2	⊗	-
1181039Z9	-	HBDPCE/W 2 03D 1140-102055	11,40	12	55	102	2	○	-
1181040Z9	1182043Z9	HBDPCE/W 2 03D 1150-102055	11,50	12	55	102	2	⊗	⊗
1181041Z9	-	HBDPCE/W 2 03D 1160-102055	11,60	12	55	102	2	○	-
1181042Z9	-	HBDPCE/W 2 03D 1170-102055	11,70	12	55	102	2	○	-
1181043Z9	1182044Z9	HBDPCE/W 2 03D 1180-102055	11,80	12	55	102	2	⊗	○
1181044Z9	-	HBDPCE/W 2 03D 1190-102055	11,90	12	55	102	2	○	-
1181045Z9	1182045Z9	HBDPCE/W 2 03D 1200-102055	12,00	12	55	102	2	⊗	○
1181046Z9	1182046Z9	HBDPCE/W 2 03D 1250-107060	12,50	14	60	107	2	⊗	○
1181770Z9	1182047Z9	HBDPCE/W 2 03D 1280-107060	12,80	14	60	107	2	⊗	○
1181047Z9	1182048Z9	HBDPCE/W 2 03D 1300-107060	13,00	14	60	107	2	⊗	⊗
1182399Z9	1182402Z9	HBDPCE/W 2 03D 1320-107060	13,20	14	60	107	2	⊗	○
1181048Z9	1182049Z9	HBDPCE/W 2 03D 1350-107060	13,50	14	60	107	2	⊗	○
1181772Z9	1182050Z9	HBDPCE/W 2 03D 1380-107060	13,80	14	60	107	2	⊗	⊗
1181049Z9	1182051Z9	HBDPCE/W 2 03D 1400-107060	14,00	14	60	107	2	⊗	⊗
1181774Z9	1182052Z9	HBDPCE/W 2 03D 1420-115065	14,20	16	65	115	2	⊗	○
1181050Z9	1182053Z9	HBDPCE/W 2 03D 1450-115065	14,50	16	65	115	2	⊗	○
1181776Z9	1182054Z9	HBDPCE/W 2 03D 1480-115065	14,80	16	65	115	2	⊗	⊗
1181051Z9	1182055Z9	HBDPCE/W 2 03D 1500-115065	15,00	16	65	115	2	⊗	⊗
1181052Z9	1182056Z9	HBDPCE/W 2 03D 1550-115065	15,50	16	65	115	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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

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Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181778Z9	1182057Z9	HBDPCE/W 2 03D 1580-115065	15,80	16	65	115	2	☺	☺
1181053Z9	1182058Z9	HBDPCE/W 2 03D 1600-115065	16,00	16	65	115	2	☺	○
1181054Z9	1182059Z9	HBDPCE/W 2 03D 1650-123073	16,50	18	73	123	2	☺	☺
1181055Z9	1182060Z9	HBDPCE/W 2 03D 1700-123073	17,00	18	73	123	2	☺	○
1181056Z9	1182061Z9	HBDPCE/W 2 03D 1750-123073	17,50	18	73	123	2	☺	○
1181057Z9	1182062Z9	HBDPCE/W 2 03D 1800-123073	18,00	18	73	123	2	☺	○
1181058Z9	1182063Z9	HBDPCE/W 2 03D 1850-131079	18,50	20	79	131	2	☺	☺
1181059Z9	1182064Z9	HBDPCE/W 2 03D 1900-131079	19,00	20	79	131	2	☺	☺
1181060Z9	1182065Z9	HBDPCE/W 2 03D 1950-131079	19,50	20	79	131	2	☺	☺
1181061Z9	1182066Z9	HBDPCE/W 2 03D 2000-131079	20,00	20	79	131	2	☺	○

☺ Stock item | Produto de stock | Itens de stock

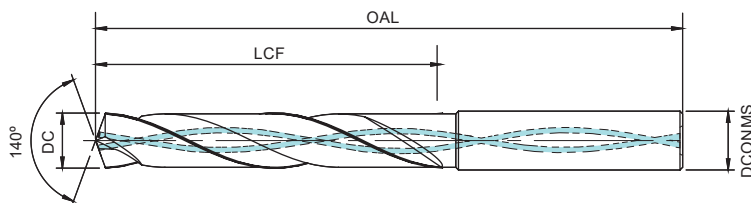
○ Available under request | Disponível sobre consulta | Disponible bajo consulta

HBDPCE/W 2 05D Solid carbide drills | Brocas de metal duro | Brocas en metal duro

P K

HRC
≤
60

IT8-9
IT class



Drill Dia. DC	DC3,0	3,0<DC≤6,0	6,0<DC≤10,0	10,0<DC≤18,0	18,0<DC≤20,0
Hole Tolerances	+0,002	+0,004	+0,006	+0,007	+0,008
	+0,012	+0,016	+0,021	+0,025	+0,028

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180788Z9	1182067Z9	HBDPCE/W 2 05D 0300-066028	3,00	6	28	66	2	⊗	⊗
1181160Z9	1182068Z9	HBDPCE/W 2 05D 0310-066028	3,10	6	28	66	2	⊗	○
1181161Z9	1182069Z9	HBDPCE/W 2 05D 0320-066028	3,20	6	28	66	2	⊗	○
1181825Z9	1182070Z9	HBDPCE/W 2 05D 0325-066028	3,25	6	28	66	2	⊗	⊗
1181162Z9	1182071Z9	HBDPCE/W 2 05D 0330-066028	3,30	6	28	66	2	⊗	⊗
1180797Z9	1182072Z9	HBDPCE/W 2 05D 0340-066028	3,40	6	28	66	2	⊗	○
1181163Z9	1182073Z9	HBDPCE/W 2 05D 0350-066028	3,50	6	28	66	2	⊗	⊗
1181164Z9	1182074Z9	HBDPCE/W 2 05D 0360-066028	3,60	6	28	66	2	⊗	○
1180798Z9	1182075Z9	HBDPCE/W 2 05D 0370-066028	3,70	6	28	66	2	⊗	⊗
1181165Z9	1182076Z9	HBDPCE/W 2 05D 0380-074036	3,80	6	36	74	2	⊗	○
1181166Z9	1182077Z9	HBDPCE/W 2 05D 0390-074036	3,90	6	36	74	2	⊗	○
1181167Z9	1182078Z9	HBDPCE/W 2 05D 0400-074036	4,00	6	36	74	2	⊗	⊗
1181168Z9	1182079Z9	HBDPCE/W 2 05D 0410-074036	4,10	6	36	74	2	⊗	⊗
1180799Z9	1182080Z9	HBDPCE/W 2 05D 0420-074036	4,20	6	36	74	2	⊗	⊗
1180800Z9	1182081Z9	HBDPCE/W 2 05D 0430-074036	4,30	6	36	74	2	⊗	⊗
1181169Z9	1182082Z9	HBDPCE/W 2 05D 0440-074036	4,40	6	36	74	2	⊗	⊗
1181170Z9	1182083Z9	HBDPCE/W 2 05D 0450-074036	4,50	6	36	74	2	⊗	⊗
1181171Z9	1182084Z9	HBDPCE/W 2 05D 0460-074036	4,60	6	36	74	2	⊗	⊗
1181535Z9	1182085Z9	HBDPCE/W 2 05D 0465-074036	4,65	6	36	74	2	⊗	⊗
1181172Z9	1182086Z9	HBDPCE/W 2 05D 0470-074036	4,70	6	36	74	2	⊗	⊗
1181173Z9	1182087Z9	HBDPCE/W 2 05D 0480-082044	4,80	6	44	82	2	⊗	○
1181174Z9	1182088Z9	HBDPCE/W 2 05D 0490-082044	4,90	6	44	82	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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

Continue next page

HBDPCE/W 2 05D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180801Z9	1182089Z9	HBDPCE/W 2 05D 0500-082044	5,00	6	44	82	2	⊗	⊗
1181175Z9	1182090Z9	HBDPCE/W 2 05D 0510-082044	5,10	6	44	82	2	⊗	⊗
1181176Z9	1182091Z9	HBDPCE/W 2 05D 0520-082044	5,20	6	44	82	2	⊗	⊗
1181177Z9	1182092Z9	HBDPCE/W 2 05D 0530-082044	5,30	6	44	82	2	⊗	⊗
1181178Z9	1182093Z9	HBDPCE/W 2 05D 0540-082044	5,40	6	44	82	2	⊗	⊗
1181179Z9	1182094Z9	HBDPCE/W 2 05D 0550-082044	5,50	6	44	82	2	⊗	⊗
1181536Z9	1182095Z9	HBDPCE/W 2 05D 0555-082044	5,55	6	44	82	2	⊗	⊗
1181180Z9	1182096Z9	HBDPCE/W 2 05D 0560-082044	5,60	6	44	82	2	⊗	⊗
1181181Z9	1182097Z9	HBDPCE/W 2 05D 0570-082044	5,70	6	44	82	2	⊗	○
1180802Z9	1182098Z9	HBDPCE/W 2 05D 0580-082044	5,80	6	44	82	2	⊗	⊗
1181182Z9	1182099Z9	HBDPCE/W 2 05D 0590-082044	5,90	6	44	82	2	⊗	○
1181183Z9	1182100Z9	HBDPCE/W 2 05D 0600-082044	6,00	6	44	82	2	⊗	⊗
1181184Z9	1182101Z9	HBDPCE/W 2 05D 0610-091053	6,10	8	53	91	2	⊗	⊗
1181185Z9	1182102Z9	HBDPCE/W 2 05D 0620-091053	6,20	8	53	91	2	⊗	⊗
1181186Z9	1182103Z9	HBDPCE/W 2 05D 0630-091053	6,30	8	53	91	2	⊗	○
1181187Z9	1182104Z9	HBDPCE/W 2 05D 0640-091053	6,40	8	53	91	2	⊗	○
1180787Z9	1182105Z9	HBDPCE/W 2 05D 0650-091053	6,50	8	53	91	2	⊗	⊗
1181188Z9	1182106Z9	HBDPCE/W 2 05D 0660-091053	6,60	8	53	91	2	⊗	⊗
1181189Z9	1182107Z9	HBDPCE/W 2 05D 0670-091053	6,70	8	53	91	2	⊗	⊗
1180803Z9	1182108Z9	HBDPCE/W 2 05D 0680-091053	6,80	8	53	91	2	⊗	⊗
1181190Z9	1182109Z9	HBDPCE/W 2 05D 0690-091053	6,90	8	53	91	2	⊗	⊗
1180804Z9	1182110Z9	HBDPCE/W 2 05D 0700-091053	7,00	8	53	91	2	⊗	⊗
1181191Z9	1182111Z9	HBDPCE/W 2 05D 0710-091053	7,10	8	53	91	2	⊗	⊗
1181192Z9	1182112Z9	HBDPCE/W 2 05D 0720-091053	7,20	8	53	91	2	⊗	⊗
1181193Z9	1182113Z9	HBDPCE/W 2 05D 0730-091053	7,30	8	53	91	2	⊗	⊗
1180805Z9	1182114Z9	HBDPCE/W 2 05D 0740-091053	7,40	8	53	91	2	⊗	⊗
1181194Z9	1182115Z9	HBDPCE/W 2 05D 0750-091053	7,50	8	53	91	2	⊗	⊗
1181195Z9	1182116Z9	HBDPCE/W 2 05D 0760-091053	7,60	8	53	91	2	⊗	⊗
1181196Z9	1182117Z9	HBDPCE/W 2 05D 0770-091053	7,70	8	53	91	2	⊗	⊗
1181197Z9	1182118Z9	HBDPCE/W 2 05D 0780-091053	7,80	8	53	91	2	⊗	⊗
1181198Z9	1182119Z9	HBDPCE/W 2 05D 0790-091053	7,90	8	53	91	2	⊗	⊗
1181199Z9	1182120Z9	HBDPCE/W 2 05D 0800-091053	8,00	8	53	91	2	⊗	⊗
1181200Z9	1182121Z9	HBDPCE/W 2 05D 0810-103061	8,10	10	61	103	2	⊗	○
1181201Z9	1182122Z9	HBDPCE/W 2 05D 0820-103061	8,20	10	61	103	2	⊗	⊗
1181202Z9	1182123Z9	HBDPCE/W 2 05D 0830-103061	8,30	10	61	103	2	⊗	○
1181203Z9	1182124Z9	HBDPCE/W 2 05D 0840-103061	8,40	10	61	103	2	⊗	⊗
1180806Z9	1182125Z9	HBDPCE/W 2 05D 0850-103061	8,50	10	61	103	2	⊗	⊗
1181204Z9	1182126Z9	HBDPCE/W 2 05D 0860-103061	8,60	10	61	103	2	⊗	⊗
1181205Z9	1182127Z9	HBDPCE/W 2 05D 0870-103061	8,70	10	61	103	2	⊗	⊗
1181206Z9	1182128Z9	HBDPCE/W 2 05D 0880-103061	8,80	10	61	103	2	⊗	⊗
1181207Z9	1182129Z9	HBDPCE/W 2 05D 0890-103061	8,90	10	61	103	2	⊗	○
1180807Z9	1182130Z9	HBDPCE/W 2 05D 0900-103061	9,00	10	61	103	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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

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HBDPCE/W 2 05D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181208Z9	1182131Z9	HBDPCE/W 2 05D 0910-103061	9,10	10	61	103	2	⊗	⊗
1181209Z9	1182132Z9	HBDPCE/W 2 05D 0920-103061	9,20	10	61	103	2	⊗	○
1181210Z9	1182133Z9	HBDPCE/W 2 05D 0930-103061	9,30	10	61	103	2	⊗	⊗
1181211Z9	1182134Z9	HBDPCE/W 2 05D 0940-103061	9,40	10	61	103	2	⊗	⊗
1181212Z9	1182135Z9	HBDPCE/W 2 05D 0950-103061	9,50	10	61	103	2	⊗	⊗
1181213Z9	1182136Z9	HBDPCE/W 2 05D 0960-103061	9,60	10	61	103	2	⊗	⊗
1181214Z9	1182137Z9	HBDPCE/W 2 05D 0970-103061	9,70	10	61	103	2	⊗	⊗
1181215Z9	1182138Z9	HBDPCE/W 2 05D 0980-103061	9,80	10	61	103	2	⊗	⊗
1181216Z9	1182139Z9	HBDPCE/W 2 05D 0990-103061	9,90	10	61	103	2	⊗	○
1181217Z9	1182140Z9	HBDPCE/W 2 05D 1000-103061	10,00	10	61	103	2	⊗	⊗
1181218Z9	1182141Z9	HBDPCE/W 2 05D 1010-118071	10,10	12	71	118	2	⊗	⊗
1180808Z9	1182142Z9	HBDPCE/W 2 05D 1020-118071	10,20	12	71	118	2	⊗	○
1181219Z9	1182143Z9	HBDPCE/W 2 05D 1030-118071	10,30	12	71	118	2	⊗	⊗
1181220Z9	1182144Z9	HBDPCE/W 2 05D 1040-118071	10,40	12	71	118	2	⊗	○
1180809Z9	1182145Z9	HBDPCE/W 2 05D 1050-118071	10,50	12	71	118	2	⊗	⊗
1180810Z9	-	HBDPCE/W 2 05D 1060-118071	10,60	12	71	118	2	⊗	-
1181221Z9	-	HBDPCE/W 2 05D 1070-118071	10,70	12	71	118	2	⊗	-
1181222Z9	1182146Z9	HBDPCE/W 2 05D 1080-118071	10,80	12	71	118	2	⊗	⊗
1181223Z9	-	HBDPCE/W 2 05D 1090-118071	10,90	12	71	118	2	⊗	-
1180811Z9	1182147Z9	HBDPCE/W 2 05D 1100-118071	11,00	12	71	118	2	⊗	⊗
1181224Z9	1182148Z9	HBDPCE/W 2 05D 1110-118071	11,10	12	71	118	2	⊗	⊗
1181225Z9	1182149Z9	HBDPCE/W 2 05D 1120-118071	11,20	12	71	118	2	⊗	⊗
1181226Z9	1182150Z9	HBDPCE/W 2 05D 1130-118071	11,30	12	71	118	2	⊗	⊗
1181227Z9	-	HBDPCE/W 2 05D 1140-118071	11,40	12	71	118	2	⊗	-
1180812Z9	1182151Z9	HBDPCE/W 2 05D 1150-118071	11,50	12	71	118	2	⊗	○
1181228Z9	-	HBDPCE/W 2 05D 1160-118071	11,60	12	71	118	2	⊗	-
1181229Z9	-	HBDPCE/W 2 05D 1170-118071	11,70	12	71	118	2	⊗	-
1181230Z9	1182152Z9	HBDPCE/W 2 05D 1180-118071	11,80	12	71	118	2	⊗	⊗
1181231Z9	-	HBDPCE/W 2 05D 1190-118071	11,90	12	71	118	2	⊗	-
1180813Z9	1182153Z9	HBDPCE/W 2 05D 1200-118071	12,00	12	71	118	2	⊗	○
1181805Z9	1182154Z9	HBDPCE/W 2 05D 1220-124077	12,20	14	77	124	2	⊗	○
1181232Z9	1182155Z9	HBDPCE/W 2 05D 1250-124077	12,50	14	77	124	2	⊗	○
1181806Z9	1182156Z9	HBDPCE/W 2 05D 1280-124077	12,80	14	77	124	2	⊗	○
1180814Z9	1182157Z9	HBDPCE/W 2 05D 1300-124077	13,00	14	77	124	2	⊗	⊗
1182267Z9	-	HBDPCE/W 2 05D 1320-124077	13,20	14	77	124	2	⊗	-
1181233Z9	1182158Z9	HBDPCE/W 2 05D 1350-124077	13,50	14	77	124	2	⊗	⊗
1181807Z9	1182159Z9	HBDPCE/W 2 05D 1380-124077	13,80	14	77	124	2	⊗	⊗
1181808Z9	1182160Z9	HBDPCE/W 2 05D 1390-124077	13,90	14	77	124	2	⊗	⊗
1181234Z9	1182161Z9	HBDPCE/W 2 05D 1400-124077	14,00	14	77	124	2	⊗	⊗
1181809Z9	1182162Z9	HBDPCE/W 2 05D 1420-133083	14,20	16	83	133	2	⊗	○
1181235Z9	1182163Z9	HBDPCE/W 2 05D 1450-133083	14,50	16	83	133	2	⊗	⊗
1181810Z9	1182164Z9	HBDPCE/W 2 05D 1480-133083	14,80	16	83	133	2	⊗	⊗
1181236Z9	1182165Z9	HBDPCE/W 2 05D 1500-133083	15,00	16	83	133	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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

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Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181811Z9	1182166Z9	HBDPCE/W 2 05D 1520-133083	15,20	16	83	133	2	⊗	○
1181237Z9	1182167Z9	HBDPCE/W 2 05D 1550-133083	15,50	16	83	133	2	⊗	⊗
1181812Z9	1182168Z9	HBDPCE/W 2 05D 1570-133083	15,70	16	83	133	2	⊗	⊗
1180815Z9	1182169Z9	HBDPCE/W 2 05D 1580-133083	15,80	16	83	133	2	⊗	⊗
1181238Z9	1182170Z9	HBDPCE/W 2 05D 1600-133083	16,00	16	83	133	2	⊗	⊗
1181239Z9	1182171Z9	HBDPCE/W 2 05D 1650-143093	16,50	18	93	143	2	⊗	⊗
1181240Z9	1182172Z9	HBDPCE/W 2 05D 1700-143093	17,00	18	93	143	2	⊗	⊗
1180816Z9	1182173Z9	HBDPCE/W 2 05D 1750-143093	17,50	18	93	143	2	⊗	○
1181241Z9	1182174Z9	HBDPCE/W 2 05D 1800-143093	18,00	18	93	143	2	⊗	○
1181242Z9	1182175Z9	HBDPCE/W 2 05D 1850-153101	18,50	20	101	153	2	⊗	○
1181243Z9	1182176Z9	HBDPCE/W 2 05D 1900-153101	19,00	20	101	153	2	⊗	⊗
1181244Z9	1182177Z9	HBDPCE/W 2 05D 1950-153101	19,50	20	101	153	2	⊗	⊗
1181245Z9	1182178Z9	HBDPCE/W 2 05D 2000-153101	20,00	20	101	153	2	⊗	⊗

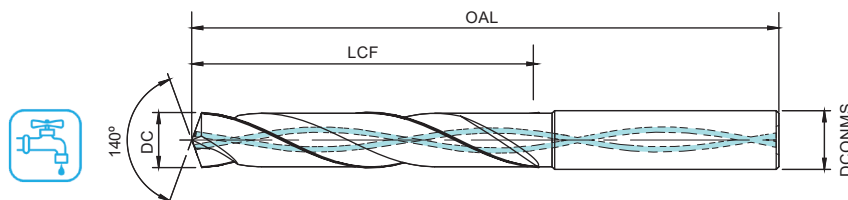
⊗ Stock item | Produto de stock | Itens de stock

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

P K

HRC ≤ 48

IT8-9
IT class



Drill Dia. DC	3,0<DC≤5,0	5,0<DC≤6,0	6,0<DC≤10,0	10,0<DC≤12,0
Hole Tolerances	+0,002	+0,004	+0,006	+0,007
	+0,012	+0,016	+0,021	+0,025

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181246Z9	-	HBDPCE/W 2 08D 0300-072034	3,00	6	34	72	2	⊗	-
1181247Z9	-	HBDPCE/W 2 08D 0310-072034	3,10	6	34	72	2	○	-
1181248Z9	-	HBDPCE/W 2 08D 0320-072034	3,20	6	34	72	2	○	-
1181249Z9	-	HBDPCE/W 2 08D 0330-072034	3,30	6	34	72	2	⊗	-
1181250Z9	-	HBDPCE/W 2 08D 0340-072034	3,40	6	34	72	2	⊗	-
1181251Z9	-	HBDPCE/W 2 08D 0350-072034	3,50	6	34	72	2	○	-
1181252Z9	-	HBDPCE/W 2 08D 0360-072034	3,60	6	34	72	2	○	-
1181253Z9	-	HBDPCE/W 2 08D 0370-072034	3,70	6	34	72	2	⊗	-
1181254Z9	-	HBDPCE/W 2 08D 0380-081043	3,80	6	43	81	2	○	-
1181255Z9	-	HBDPCE/W 2 08D 0390-081043	3,90	6	43	81	2	○	-
1181256Z9	-	HBDPCE/W 2 08D 0400-081043	4,00	6	43	81	2	⊗	-
1181257Z9	-	HBDPCE/W 2 08D 0410-081043	4,10	6	43	81	2	○	-
1181258Z9	-	HBDPCE/W 2 08D 0420-081043	4,20	6	43	81	2	⊗	-
1181259Z9	-	HBDPCE/W 2 08D 0430-081043	4,30	6	43	81	2	⊗	-
1181260Z9	-	HBDPCE/W 2 08D 0440-081043	4,40	6	43	81	2	○	-
1181261Z9	-	HBDPCE/W 2 08D 0450-081043	4,50	6	43	81	2	○	-
1181262Z9	-	HBDPCE/W 2 08D 0460-081043	4,60	6	43	81	2	○	-
1181263Z9	-	HBDPCE/W 2 08D 0470-081043	4,70	6	43	81	2	○	-
1181264Z9	-	HBDPCE/W 2 08D 0480-095057	4,80	6	57	95	2	⊗	-
1181265Z9	-	HBDPCE/W 2 08D 0490-095057	4,90	6	57	95	2	○	-
1181266Z9	-	HBDPCE/W 2 08D 0500-095057	5,00	6	57	95	2	⊗	-
1181267Z9	-	HBDPCE/W 2 08D 0510-095057	5,10	6	57	95	2	⊗	-
1181268Z9	-	HBDPCE/W 2 08D 0520-095057	5,20	6	57	95	2	○	-
1181269Z9	-	HBDPCE/W 2 08D 0530-095057	5,30	6	57	95	2	○	-
1181270Z9	-	HBDPCE/W 2 08D 0540-095057	5,40	6	57	95	2	○	-
1181271Z9	-	HBDPCE/W 2 08D 0550-095057	5,50	6	57	95	2	⊗	-

⊗ Stock item | Produto de stock | Itens de stock

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

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HBDPCE/W 2 08D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181272Z9	-	HBDPCE/W 2 08D 0560-095057	5,60	6	57	95	2	○	-
1181273Z9	-	HBDPCE/W 2 08D 0570-095057	5,70	6	57	95	2	○	-
1181274Z9	-	HBDPCE/W 2 08D 0580-095057	5,80	6	57	95	2	○	-
1181275Z9	-	HBDPCE/W 2 08D 0590-095057	5,90	6	57	95	2	○	-
1181276Z9	-	HBDPCE/W 2 08D 0600-095057	6,00	6	57	95	2	⊗	-
1181277Z9	-	HBDPCE/W 2 08D 0610-114076	6,10	8	76	114	2	○	-
1181278Z9	-	HBDPCE/W 2 08D 0620-114076	6,20	8	76	114	2	○	-
1181279Z9	-	HBDPCE/W 2 08D 0630-114076	6,30	8	76	114	2	○	-
1181280Z9	-	HBDPCE/W 2 08D 0640-114076	6,40	8	76	114	2	○	-
1181281Z9	-	HBDPCE/W 2 08D 0650-114076	6,50	8	76	114	2	⊗	-
1181282Z9	-	HBDPCE/W 2 08D 0660-114076	6,60	8	76	114	2	○	-
1181283Z9	-	HBDPCE/W 2 08D 0670-114076	6,70	8	76	114	2	○	-
1181284Z9	-	HBDPCE/W 2 08D 0680-114076	6,80	8	76	114	2	⊗	-
1181285Z9	-	HBDPCE/W 2 08D 0690-114076	6,90	8	76	114	2	○	-
1181286Z9	-	HBDPCE/W 2 08D 0700-114076	7,00	8	76	114	2	⊗	-
1181287Z9	-	HBDPCE/W 2 08D 0710-114076	7,10	8	76	114	2	○	-
1181288Z9	-	HBDPCE/W 2 08D 0720-114076	7,20	8	76	114	2	○	-
1181289Z9	-	HBDPCE/W 2 08D 0730-114076	7,30	8	76	114	2	○	-
1181290Z9	-	HBDPCE/W 2 08D 0740-114076	7,40	8	76	114	2	○	-
1181291Z9	-	HBDPCE/W 2 08D 0750-114076	7,50	8	76	114	2	○	-
1181292Z9	-	HBDPCE/W 2 08D 0760-114076	7,60	8	76	114	2	○	-
1181293Z9	-	HBDPCE/W 2 08D 0770-114076	7,70	8	76	114	2	○	-
1181294Z9	-	HBDPCE/W 2 08D 0780-114076	7,80	8	76	114	2	⊗	-
1181295Z9	-	HBDPCE/W 2 08D 0790-114076	7,90	8	76	114	2	○	-
1181296Z9	-	HBDPCE/W 2 08D 0800-114076	8,00	8	76	114	2	⊗	-
1181297Z9	-	HBDPCE/W 2 08D 0810-142095	8,10	10	95	142	2	○	-
1181298Z9	-	HBDPCE/W 2 08D 0820-142095	8,20	10	95	142	2	○	-
1181299Z9	-	HBDPCE/W 2 08D 0830-142095	8,30	10	95	142	2	○	-
1181300Z9	-	HBDPCE/W 2 08D 0840-142095	8,40	10	95	142	2	○	-
1181301Z9	-	HBDPCE/W 2 08D 0850-142095	8,50	10	95	142	2	⊗	-
1181302Z9	-	HBDPCE/W 2 08D 0860-142095	8,60	10	95	142	2	○	-
1181303Z9	-	HBDPCE/W 2 08D 0870-142095	8,70	10	95	142	2	⊗	-
1181304Z9	-	HBDPCE/W 2 08D 0880-142095	8,80	10	95	142	2	⊗	-
1181305Z9	-	HBDPCE/W 2 08D 0890-142095	8,90	10	95	142	2	○	-
1181306Z9	-	HBDPCE/W 2 08D 0900-142095	9,00	10	95	142	2	○	-
1181307Z9	-	HBDPCE/W 2 08D 0910-142095	9,10	10	95	142	2	○	-
1181308Z9	-	HBDPCE/W 2 08D 0920-142095	9,20	10	95	142	2	○	-
1181309Z9	-	HBDPCE/W 2 08D 0930-142095	9,30	10	95	142	2	○	-
1181310Z9	-	HBDPCE/W 2 08D 0940-142095	9,40	10	95	142	2	○	-
1181311Z9	-	HBDPCE/W 2 08D 0950-142095	9,50	10	95	142	2	○	-
1181312Z9	-	HBDPCE/W 2 08D 0960-142095	9,60	10	95	142	2	○	-
1181313Z9	-	HBDPCE/W 2 08D 0970-142095	9,70	10	95	142	2	○	-
1181314Z9	-	HBDPCE/W 2 08D 0980-142095	9,80	10	95	142	2	○	-
1181315Z9	-	HBDPCE/W 2 08D 0990-142095	9,90	10	95	142	2	○	-
1181316Z9	-	HBDPCE/W 2 08D 1000-142095	10,00	10	95	142	2	○	-
1181317Z9	-	HBDPCE/W 2 08D 1010-162114	10,10	12	114	162	2	○	-

⊗ Stock item | Produto de stock | Itens de stock

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

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HBDPCE/W 2 08D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

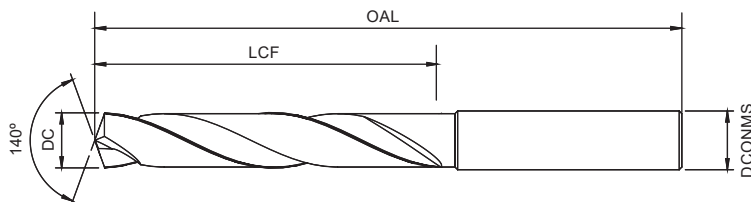
Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181318Z9	-	HBDPCE/W 2 08D 1020-162114	10,20	12	114	162	2	⊗	-
1181319Z9	-	HBDPCE/W 2 08D 1030-162114	10,30	12	114	162	2	○	-
1181320Z9	-	HBDPCE/W 2 08D 1040-162114	10,40	12	114	162	2	○	-
1181321Z9	-	HBDPCE/W 2 08D 1050-162114	10,50	12	114	162	2	⊗	-
1181322Z9	-	HBDPCE/W 2 08D 1060-162114	10,60	12	114	162	2	○	-
1181323Z9	-	HBDPCE/W 2 08D 1070-162114	10,70	12	114	162	2	○	-
1181324Z9	-	HBDPCE/W 2 08D 1080-162114	10,80	12	114	162	2	○	-
1181325Z9	-	HBDPCE/W 2 08D 1090-162114	10,90	12	114	162	2	○	-
1181326Z9	-	HBDPCE/W 2 08D 1100-162114	11,00	12	114	162	2	○	-
1181327Z9	-	HBDPCE/W 2 08D 1110-162114	11,10	12	114	162	2	○	-
1181328Z9	-	HBDPCE/W 2 08D 1120-162114	11,20	12	114	162	2	○	-
1181329Z9	-	HBDPCE/W 2 08D 1130-162114	11,30	12	114	162	2	○	-
1181330Z9	-	HBDPCE/W 2 08D 1140-162114	11,40	12	114	162	2	○	-
1181331Z9	-	HBDPCE/W 2 08D 1150-162114	11,50	12	114	162	2	○	-
1181332Z9	-	HBDPCE/W 2 08D 1160-162114	11,60	12	114	162	2	○	-
1181333Z9	-	HBDPCE/W 2 08D 1170-162114	11,70	12	114	162	2	○	-
1181334Z9	-	HBDPCE/W 2 08D 1180-162114	11,80	12	114	162	2	⊗	-
1181335Z9	-	HBDPCE/W 2 08D 1190-162114	11,90	12	114	162	2	○	-
1181336Z9	-	HBDPCE/W 2 08D 1200-162114	12,00	12	114	162	2	○	-

⊗ Stock item | Produto de stock | Itens de stock

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

HBDPUE/W 2 03D Solid carbide drills | Brocas de metal duro | Brocas en metal duro

P	K
HRC ≤ 60	IT8-9 IT class



Drill Dia. DC	DC3,0	3,0<DC≤6,0	6,0<DC≤10,0	10,0<DC≤18,0	18,0<DC≤20,0
Hole Tolerances	+0,002	+0,004	+0,006	+0,007	+0,008
	+0,012	+0,016	+0,021	+0,025	+0,028

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180784Z9	1181859Z9	HBDPUE/W 2 03D 0300-062020	3,00	6	20	62	2	☺	☺
1180852Z9	1181860Z9	HBDPUE/W 2 03D 0310-062020	3,10	6	20	62	2	☺	☺
1180853Z9	1181861Z9	HBDPUE/W 2 03D 0320-062020	3,20	6	20	62	2	☺	☺
1181790Z9	1181862Z9	HBDPUE/W 2 03D 0325-062020	3,25	6	20	62	2	☺	☺
1180854Z9	1181863Z9	HBDPUE/W 2 03D 0330-062020	3,30	6	20	62	2	☺	○
1180790Z9	1181864Z9	HBDPUE/W 2 03D 0340-062020	3,40	6	20	62	2	☺	○
1180855Z9	1181865Z9	HBDPUE/W 2 03D 0350-062020	3,50	6	20	62	2	☺	○
1180856Z9	1181866Z9	HBDPUE/W 2 03D 0360-062020	3,60	6	20	62	2	☺	☺
1180857Z9	1181867Z9	HBDPUE/W 2 03D 0370-062020	3,70	6	20	62	2	☺	☺
1180858Z9	1181868Z9	HBDPUE/W 2 03D 0380-066024	3,80	6	24	66	2	☺	○
1180859Z9	1181869Z9	HBDPUE/W 2 03D 0390-066024	3,90	6	24	66	2	☺	○
1180860Z9	1181870Z9	HBDPUE/W 2 03D 0400-066024	4,00	6	24	66	2	☺	☺
1180861Z9	1181871Z9	HBDPUE/W 2 03D 0410-066024	4,10	6	24	66	2	☺	☺
1180862Z9	1181872Z9	HBDPUE/W 2 03D 0420-066024	4,20	6	24	66	2	☺	☺
1180863Z9	1181873Z9	HBDPUE/W 2 03D 0430-066024	4,30	6	24	66	2	☺	☺
1180864Z9	1181874Z9	HBDPUE/W 2 03D 0440-066024	4,40	6	24	66	2	☺	☺
1180865Z9	1181875Z9	HBDPUE/W 2 03D 0450-066024	4,50	6	24	66	2	☺	○
1180866Z9	1181876Z9	HBDPUE/W 2 03D 0460-066024	4,60	6	24	66	2	☺	○
1181792Z9	1181877Z9	HBDPUE/W 2 03D 0465-066024	4,65	6	24	66	2	○	☺
1180867Z9	1181878Z9	HBDPUE/W 2 03D 0470-066024	4,70	6	24	66	2	☺	○
1180868Z9	1181879Z9	HBDPUE/W 2 03D 0480-066028	4,80	6	28	66	2	☺	☺
1180869Z9	1181880Z9	HBDPUE/W 2 03D 0490-066028	4,90	6	28	66	2	☺	☺
1180870Z9	1181881Z9	HBDPUE/W 2 03D 0500-066028	5,00	6	28	66	2	☺	○
1180871Z9	1181882Z9	HBDPUE/W 2 03D 0510-066028	5,10	6	28	66	2	☺	☺
1180872Z9	1181883Z9	HBDPUE/W 2 03D 0520-066028	5,20	6	28	66	2	☺	○
1180873Z9	1181884Z9	HBDPUE/W 2 03D 0530-066028	5,30	6	28	66	2	☺	○

☺ Stock item | Produto de stock | Itens de stock

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

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HBDPUE/W 2 03D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180874Z9	1181885Z9	HBDPUE/W 2 03D 0540-066028	5,40	6	28	66	2	🇺🇸	🇺🇸
1180875Z9	1181886Z9	HBDPUE/W 2 03D 0550-066028	5,50	6	28	66	2	🇺🇸	🇨🇦
1181794Z9	1181887Z9	HBDPUE/W 2 03D 0555-066028	5,55	6	28	66	2	🇺🇸	🇺🇸
1180791Z9	1181888Z9	HBDPUE/W 2 03D 0560-066028	5,60	6	28	66	2	🇺🇸	🇺🇸
1180876Z9	1181889Z9	HBDPUE/W 2 03D 0570-066028	5,70	6	28	66	2	🇺🇸	🇺🇸
1180877Z9	1181890Z9	HBDPUE/W 2 03D 0580-066028	5,80	6	28	66	2	🇺🇸	🇺🇸
1180878Z9	1181891Z9	HBDPUE/W 2 03D 0590-066028	5,90	6	28	66	2	🇺🇸	🇨🇦
1180879Z9	1181892Z9	HBDPUE/W 2 03D 0600-066028	6,00	6	28	66	2	🇺🇸	🇺🇸
1180880Z9	1181893Z9	HBDPUE/W 2 03D 0610-079034	6,10	8	34	79	2	🇺🇸	🇺🇸
1180881Z9	1181894Z9	HBDPUE/W 2 03D 0620-079034	6,20	8	34	79	2	🇺🇸	🇨🇦
1180882Z9	1181895Z9	HBDPUE/W 2 03D 0630-079034	6,30	8	34	79	2	🇺🇸	🇨🇦
1180883Z9	1181896Z9	HBDPUE/W 2 03D 0640-079034	6,40	8	34	79	2	🇺🇸	🇨🇦
1180884Z9	1181897Z9	HBDPUE/W 2 03D 0650-079034	6,50	8	34	79	2	🇺🇸	🇺🇸
1180885Z9	1181898Z9	HBDPUE/W 2 03D 0660-079034	6,60	8	34	79	2	🇺🇸	🇨🇦
1180886Z9	1181899Z9	HBDPUE/W 2 03D 0670-079034	6,70	8	34	79	2	🇺🇸	🇺🇸
1180887Z9	1181900Z9	HBDPUE/W 2 03D 0680-079034	6,80	8	34	79	2	🇺🇸	🇨🇦
1180888Z9	1181901Z9	HBDPUE/W 2 03D 0690-079034	6,90	8	34	79	2	🇺🇸	🇨🇦
1180889Z9	1181902Z9	HBDPUE/W 2 03D 0700-079034	7,00	8	34	79	2	🇺🇸	🇺🇸
1180890Z9	1181903Z9	HBDPUE/W 2 03D 0710-079041	7,10	8	41	79	2	🇺🇸	🇨🇦
1180891Z9	1181904Z9	HBDPUE/W 2 03D 0720-079041	7,20	8	41	79	2	🇺🇸	🇺🇸
1180892Z9	1181905Z9	HBDPUE/W 2 03D 0730-079041	7,30	8	41	79	2	🇺🇸	🇺🇸
1180893Z9	1181906Z9	HBDPUE/W 2 03D 0740-079041	7,40	8	41	79	2	🇺🇸	🇨🇦
1180894Z9	1181907Z9	HBDPUE/W 2 03D 0750-079041	7,50	8	41	79	2	🇺🇸	🇨🇦
1180895Z9	1181908Z9	HBDPUE/W 2 03D 0760-079041	7,60	8	41	79	2	🇺🇸	🇨🇦
1180896Z9	1181909Z9	HBDPUE/W 2 03D 0770-079041	7,70	8	41	79	2	🇺🇸	🇺🇸
1180897Z9	1181910Z9	HBDPUE/W 2 03D 0780-079041	7,80	8	41	79	2	🇺🇸	🇺🇸
1180898Z9	1181911Z9	HBDPUE/W 2 03D 0790-079041	7,90	8	41	79	2	🇺🇸	🇺🇸
1180899Z9	1181912Z9	HBDPUE/W 2 03D 0800-079041	8,00	8	41	79	2	🇺🇸	🇺🇸
1180900Z9	1181913Z9	HBDPUE/W 2 03D 0810-089047	8,10	10	47	89	2	🇺🇸	🇺🇸
1180901Z9	1181914Z9	HBDPUE/W 2 03D 0820-089047	8,20	10	47	89	2	🇺🇸	🇨🇦
1180902Z9	1181915Z9	HBDPUE/W 2 03D 0830-089047	8,30	10	47	89	2	🇺🇸	🇨🇦
1180903Z9	1181916Z9	HBDPUE/W 2 03D 0840-089047	8,40	10	47	89	2	🇺🇸	🇺🇸
1180904Z9	1181917Z9	HBDPUE/W 2 03D 0850-089047	8,50	10	47	89	2	🇺🇸	🇨🇦
1180905Z9	1181918Z9	HBDPUE/W 2 03D 0860-089047	8,60	10	47	89	2	🇺🇸	🇺🇸
1180906Z9	1181919Z9	HBDPUE/W 2 03D 0870-089047	8,70	10	47	89	2	🇺🇸	🇨🇦
1180907Z9	1181920Z9	HBDPUE/W 2 03D 0880-089047	8,80	10	47	89	2	🇺🇸	🇨🇦
1180908Z9	1181921Z9	HBDPUE/W 2 03D 0890-089047	8,90	10	47	89	2	🇨🇦	🇺🇸
1180909Z9	1181922Z9	HBDPUE/W 2 03D 0900-089047	9,00	10	47	89	2	🇺🇸	🇺🇸
1180910Z9	1181923Z9	HBDPUE/W 2 03D 0910-089047	9,10	10	47	89	2	🇺🇸	🇨🇦
1180911Z9	1181924Z9	HBDPUE/W 2 03D 0920-089047	9,20	10	47	89	2	🇺🇸	🇺🇸
1180912Z9	1181925Z9	HBDPUE/W 2 03D 0930-089047	9,30	10	47	89	2	🇺🇸	🇺🇸
1180913Z9	1181926Z9	HBDPUE/W 2 03D 0940-089047	9,40	10	47	89	2	🇺🇸	🇺🇸
1180914Z9	1181927Z9	HBDPUE/W 2 03D 0950-089047	9,50	10	47	89	2	🇺🇸	🇨🇦
1180915Z9	1181928Z9	HBDPUE/W 2 03D 0960-089047	9,60	10	47	89	2	🇺🇸	🇺🇸
1180916Z9	1181929Z9	HBDPUE/W 2 03D 0970-089047	9,70	10	47	89	2	🇺🇸	🇺🇸
1180917Z9	1181930Z9	HBDPUE/W 2 03D 0980-089047	9,80	10	47	89	2	🇺🇸	🇺🇸
1180918Z9	1181931Z9	HBDPUE/W 2 03D 0990-089047	9,90	10	47	89	2	🇺🇸	🇨🇦
1180919Z9	1181932Z9	HBDPUE/W 2 03D 1000-089047	10,00	10	47	89	2	🇺🇸	🇺🇸

🇺🇸 Stock item | Produto de stock | Itens de stock

🇨🇦 Available under request | Disponível sobre consulta | Disponible bajo consulta

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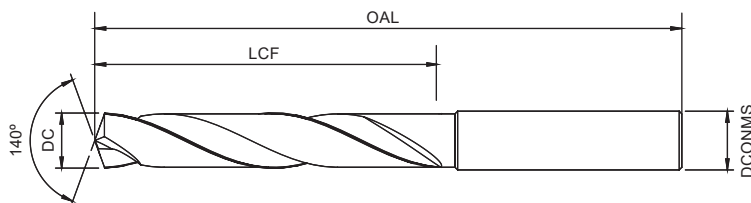
HBDPUE/W 2 03D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1180920Z9	-	HBDPUE/W 2 03D 1010-102055	10,10	12	55	102	2	⊗	-
1180921Z9	1181933Z9	HBDPUE/W 2 03D 1020-102055	10,20	12	55	102	2	⊗	⊗
1180922Z9	1181934Z9	HBDPUE/W 2 03D 1030-102055	10,30	12	55	102	2	⊗	○
1180923Z9	-	HBDPUE/W 2 03D 1040-102055	10,40	12	55	102	2	⊗	-
1180924Z9	1181935Z9	HBDPUE/W 2 03D 1050-102055	10,50	12	55	102	2	⊗	⊗
1180925Z9	-	HBDPUE/W 2 03D 1060-102055	10,60	12	55	102	2	○	-
1180926Z9	-	HBDPUE/W 2 03D 1070-102055	10,70	12	55	102	2	○	-
1180927Z9	1181936Z9	HBDPUE/W 2 03D 1080-102055	10,80	12	55	102	2	⊗	⊗
1180928Z9	-	HBDPUE/W 2 03D 1090-102055	10,90	12	55	102	2	○	-
1180929Z9	1181937Z9	HBDPUE/W 2 03D 1100-102055	11,00	12	55	102	2	⊗	⊗
1180930Z9	-	HBDPUE/W 2 03D 1110-102055	11,10	12	55	102	2	⊗	-
1180931Z9	1181938Z9	HBDPUE/W 2 03D 1120-102055	11,20	12	55	102	2	⊗	⊗
1180932Z9	-	HBDPUE/W 2 03D 1130-102055	11,30	12	55	102	2	○	-
1180933Z9	-	HBDPUE/W 2 03D 1140-102055	11,40	12	55	102	2	○	-
1180934Z9	1181939Z9	HBDPUE/W 2 03D 1150-102055	11,50	12	55	102	2	⊗	⊗
1180935Z9	-	HBDPUE/W 2 03D 1160-102055	11,60	12	55	102	2	○	-
1180936Z9	-	HBDPUE/W 2 03D 1170-102055	11,70	12	55	102	2	○	-
1180937Z9	1181940Z9	HBDPUE/W 2 03D 1180-102055	11,80	12	55	102	2	⊗	⊗
1180938Z9	-	HBDPUE/W 2 03D 1190-102055	11,90	12	55	102	2	⊗	-
1180939Z9	1181941Z9	HBDPUE/W 2 03D 1200-102055	12,00	12	55	102	2	⊗	⊗
1180940Z9	1181942Z9	HBDPUE/W 2 03D 1250-107060	12,50	14	60	107	2	⊗	○
1181769Z9	1181943Z9	HBDPUE/W 2 03D 1280-107060	12,80	14	60	107	2	⊗	⊗
1180941Z9	1181944Z9	HBDPUE/W 2 03D 1300-107060	13,00	14	60	107	2	⊗	⊗
1182437Z9	-	HBDPUE/W 2 03D 1310-107060	13,10	14	60	107	2	○	-
1182400Z9	1182401Z9	HBDPUE/W 2 03D 1320-107060	13,20	14	60	107	2	⊗	○
1180942Z9	1181945Z9	HBDPUE/W 2 03D 1350-107060	13,50	14	60	107	2	⊗	○
1181771Z9	1181946Z9	HBDPUE/W 2 03D 1380-107060	13,80	14	60	107	2	⊗	⊗
1180943Z9	1181947Z9	HBDPUE/W 2 03D 1400-107060	14,00	14	60	107	2	⊗	⊗
1181773Z9	1181948Z9	HBDPUE/W 2 03D 1420-115065	14,20	16	65	115	2	⊗	⊗
1180944Z9	1181949Z9	HBDPUE/W 2 03D 1450-115065	14,50	16	65	115	2	⊗	○
1181775Z9	1181950Z9	HBDPUE/W 2 03D 1480-115065	14,80	16	65	115	2	⊗	⊗
1180945Z9	1181951Z9	HBDPUE/W 2 03D 1500-115065	15,00	16	65	115	2	⊗	○
1180946Z9	1181952Z9	HBDPUE/W 2 03D 1550-115065	15,50	16	65	115	2	⊗	⊗
1181777Z9	1181953Z9	HBDPUE/W 2 03D 1580-115065	15,80	16	65	115	2	⊗	⊗
1180947Z9	1181954Z9	HBDPUE/W 2 03D 1600-115065	16,00	16	65	115	2	⊗	⊗
1180948Z9	1181955Z9	HBDPUE/W 2 03D 1650-123073	16,50	18	73	123	2	⊗	○
1180949Z9	1181956Z9	HBDPUE/W 2 03D 1700-123073	17,00	18	73	123	2	⊗	⊗
1180950Z9	1181957Z9	HBDPUE/W 2 03D 1750-123073	17,50	18	73	123	2	⊗	○
1180951Z9	1181958Z9	HBDPUE/W 2 03D 1800-123073	18,00	18	73	123	2	⊗	⊗
1180952Z9	1181959Z9	HBDPUE/W 2 03D 1850-131079	18,50	20	79	131	2	⊗	⊗
1180953Z9	1181960Z9	HBDPUE/W 2 03D 1900-131079	19,00	20	79	131	2	⊗	⊗
1180954Z9	1181961Z9	HBDPUE/W 2 03D 1950-131079	19,50	20	79	131	2	⊗	⊗
1180955Z9	1181962Z9	HBDPUE/W 2 03D 2000-131079	20,00	20	79	131	2	⊗	⊗

⊗ Stock item | Produto de stock | Itens de stock

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



P	K
HRC ≤ 60	IT8-9 IT class

Drill Dia. DC	DC3,0	3,0<DC≤6,0	6,0<DC≤10,0	10,0<DC≤18,0	18,0<DC≤20,0
Hole Tolerances	+0,002	+0,004	+0,006	+0,007	+0,008
	+0,012	+0,016	+0,021	+0,025	+0,028

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
-	-	HBDPUE/W 2 05D 0300-066028	3,00	6	28	66	2	⊗	-
-	-	HBDPUE/W 2 05D 0310-066028	3,10	6	28	66	2	⊗	-
-	-	HBDPUE/W 2 05D 0320-066028	3,20	6	28	66	2	⊗	-
-	-	HBDPUE/W 2 05D 0330-066028	3,30	6	28	66	2	⊗	-
-	-	HBDPUE/W 2 05D 0340-066028	3,40	6	28	66	2	⊗	-
-	-	HBDPUE/W 2 05D 0350-066028	3,50	6	28	66	2	○	-
-	-	HBDPUE/W 2 05D 0360-066028	3,60	6	28	66	2	○	-
-	-	HBDPUE/W 2 05D 0370-066028	3,70	6	28	66	2	○	-
-	-	HBDPUE/W 2 05D 0380-074036	3,80	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0390-074036	3,90	6	36	74	2	○	-
-	-	HBDPUE/W 2 05D 0400-074036	4,00	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0410-074036	4,10	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0420-074036	4,20	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0430-074036	4,30	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0440-074036	4,40	6	36	74	2	○	-
-	-	HBDPUE/W 2 05D 0450-074036	4,50	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0460-074036	4,60	6	36	74	2	○	-
-	-	HBDPUE/W 2 05D 0465-074036	4,65	6	36	74	2	○	-
-	-	HBDPUE/W 2 05D 0470-074036	4,70	6	36	74	2	⊗	-
-	-	HBDPUE/W 2 05D 0480-082044	4,80	6	44	82	2	⊗	-
-	-	HBDPUE/W 2 05D 0490-082044	4,90	6	44	82	2	○	-
-	-	HBDPUE/W 2 05D 0500-082044	5,00	6	44	82	2	⊗	-
-	-	HBDPUE/W 2 05D 0510-082044	5,10	6	44	82	2	⊗	-
-	-	HBDPUE/W 2 05D 0520-082044	5,20	6	44	82	2	⊗	-
-	-	HBDPUE/W 2 05D 0530-082044	5,30	6	44	82	2	○	-
-	-	HBDPUE/W 2 05D 0540-082044	5,40	6	44	82	2	○	-

⊗ Stock item | Produto de stock | Itens de stock

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

Continue next page

HBDPUE/W 2 05D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181080Z9	-	HBDPUE/W 2 05D 0550-082044	5,50	6	44	82	2	○	-
1181081Z9	-	HBDPUE/W 2 05D 0560-082044	5,60	6	44	82	2	⊗	-
1181082Z9	-	HBDPUE/W 2 05D 0570-082044	5,70	6	44	82	2	○	-
1181083Z9	-	HBDPUE/W 2 05D 0580-082044	5,80	6	44	82	2	⊗	-
1181084Z9	-	HBDPUE/W 2 05D 0590-082044	5,90	6	44	82	2	○	-
1181085Z9	-	HBDPUE/W 2 05D 0600-082044	6,00	6	44	82	2	⊗	-
1181086Z9	-	HBDPUE/W 2 05D 0610-091053	6,10	8	53	91	2	○	-
1181087Z9	-	HBDPUE/W 2 05D 0620-091053	6,20	8	53	91	2	○	-
1181088Z9	-	HBDPUE/W 2 05D 0630-091053	6,30	8	53	91	2	○	-
1181089Z9	-	HBDPUE/W 2 05D 0640-091053	6,40	8	53	91	2	⊗	-
1181090Z9	-	HBDPUE/W 2 05D 0650-091053	6,50	8	53	91	2	⊗	-
1181091Z9	-	HBDPUE/W 2 05D 0660-091053	6,60	8	53	91	2	○	-
1181092Z9	-	HBDPUE/W 2 05D 0670-091053	6,70	8	53	91	2	○	-
1180781Z9	-	HBDPUE/W 2 05D 0680-091053	6,80	8	53	91	2	⊗	-
1181093Z9	-	HBDPUE/W 2 05D 0690-091053	6,90	8	53	91	2	⊗	-
1181094Z9	-	HBDPUE/W 2 05D 0700-091053	7,00	8	53	91	2	⊗	-
1181095Z9	-	HBDPUE/W 2 05D 0710-091053	7,10	8	53	91	2	○	-
1181096Z9	-	HBDPUE/W 2 05D 0720-091053	7,20	8	53	91	2	⊗	-
1181097Z9	-	HBDPUE/W 2 05D 0730-091053	7,30	8	53	91	2	○	-
1181098Z9	-	HBDPUE/W 2 05D 0740-091053	7,40	8	53	91	2	○	-
1181099Z9	-	HBDPUE/W 2 05D 0750-091053	7,50	8	53	91	2	○	-
1181100Z9	-	HBDPUE/W 2 05D 0760-091053	7,60	8	53	91	2	○	-
1181101Z9	-	HBDPUE/W 2 05D 0770-091053	7,70	8	53	91	2	○	-
1181102Z9	-	HBDPUE/W 2 05D 0780-091053	7,80	8	53	91	2	⊗	-
1181103Z9	-	HBDPUE/W 2 05D 0790-091053	7,90	8	53	91	2	○	-
1181104Z9	-	HBDPUE/W 2 05D 0800-091053	8,00	8	53	91	2	○	-
1181105Z9	-	HBDPUE/W 2 05D 0810-103061	8,10	10	61	103	2	○	-
1181106Z9	-	HBDPUE/W 2 05D 0820-103061	8,20	10	61	103	2	○	-
1181107Z9	-	HBDPUE/W 2 05D 0830-103061	8,30	10	61	103	2	⊗	-
1181108Z9	-	HBDPUE/W 2 05D 0840-103061	8,40	10	61	103	2	○	-
1181109Z9	-	HBDPUE/W 2 05D 0850-103061	8,50	10	61	103	2	⊗	-
1181110Z9	-	HBDPUE/W 2 05D 0860-103061	8,60	10	61	103	2	○	-
1181111Z9	-	HBDPUE/W 2 05D 0870-103061	8,70	10	61	103	2	○	-
1181112Z9	-	HBDPUE/W 2 05D 0880-103061	8,80	10	61	103	2	○	-
1181113Z9	-	HBDPUE/W 2 05D 0890-103061	8,90	10	61	103	2	○	-
1181114Z9	-	HBDPUE/W 2 05D 0900-103061	9,00	10	61	103	2	⊗	-
1181115Z9	-	HBDPUE/W 2 05D 0910-103061	9,10	10	61	103	2	○	-
1181116Z9	-	HBDPUE/W 2 05D 0920-103061	9,20	10	61	103	2	○	-
1181117Z9	-	HBDPUE/W 2 05D 0930-103061	9,30	10	61	103	2	○	-
1181118Z9	-	HBDPUE/W 2 05D 0940-103061	9,40	10	61	103	2	○	-
1181119Z9	-	HBDPUE/W 2 05D 0950-103061	9,50	10	61	103	2	⊗	-
1181120Z9	-	HBDPUE/W 2 05D 0960-103061	9,60	10	61	103	2	○	-
1181121Z9	-	HBDPUE/W 2 05D 0970-103061	9,70	10	61	103	2	○	-
1181122Z9	-	HBDPUE/W 2 05D 0980-103061	9,80	10	61	103	2	⊗	-
1181123Z9	-	HBDPUE/W 2 05D 0990-103061	9,90	10	61	103	2	○	-
1181124Z9	-	HBDPUE/W 2 05D 1000-103061	10,00	10	61	103	2	○	-
1181125Z9	-	HBDPUE/W 2 05D 1010-118071	10,10	12	71	118	2	○	-
1181126Z9	-	HBDPUE/W 2 05D 1020-118071	10,20	12	71	118	2	⊗	-

⊗ Stock item | Produto de stock | Itens de stock

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

Continue next page

HBDPUE/W 2 05D

Solid carbide drills | Brocas de metal duro | Brocas en metal duro

Order code		Reference Referência Referencia	Dimensions Dimensões Dimensiones (mm)				NOF	Stock PHU920	
HA (Cylindrical)	HB (Weldon)		DC	DCONMS	LCF	OAL		HA	HB
1181127Z9	-	HBDPUE/W 2 05D 1030-118071	10,30	12	71	118	2	○	-
1181128Z9	-	HBDPUE/W 2 05D 1040-118071	10,40	12	71	118	2	○	-
1180796Z9	-	HBDPUE/W 2 05D 1050-118071	10,50	12	71	118	2	⊗	-
1181129Z9	-	HBDPUE/W 2 05D 1060-118071	10,60	12	71	118	2	○	-
1181130Z9	-	HBDPUE/W 2 05D 1070-118071	10,70	12	71	118	2	○	-
1181131Z9	-	HBDPUE/W 2 05D 1080-118071	10,80	12	71	118	2	○	-
1181132Z9	-	HBDPUE/W 2 05D 1090-118071	10,90	12	71	118	2	○	-
1181133Z9	-	HBDPUE/W 2 05D 1100-118071	11,00	12	71	118	2	⊗	-
1181134Z9	-	HBDPUE/W 2 05D 1110-118071	11,10	12	71	118	2	○	-
1181135Z9	-	HBDPUE/W 2 05D 1120-118071	11,20	12	71	118	2	○	-
1181136Z9	-	HBDPUE/W 2 05D 1130-118071	11,30	12	71	118	2	○	-
1181137Z9	-	HBDPUE/W 2 05D 1140-118071	11,40	12	71	118	2	○	-
1181138Z9	-	HBDPUE/W 2 05D 1150-118071	11,50	12	71	118	2	⊗	-
1181139Z9	-	HBDPUE/W 2 05D 1160-118071	11,60	12	71	118	2	○	-
1181140Z9	-	HBDPUE/W 2 05D 1170-118071	11,70	12	71	118	2	○	-
1181141Z9	-	HBDPUE/W 2 05D 1180-118071	11,80	12	71	118	2	○	-
1181142Z9	-	HBDPUE/W 2 05D 1190-118071	11,90	12	71	118	2	○	-
1181143Z9	-	HBDPUE/W 2 05D 1200-118071	12,00	12	71	118	2	⊗	-
1181144Z9	-	HBDPUE/W 2 05D 1250-124077	12,50	14	77	124	2	○	-
1181145Z9	-	HBDPUE/W 2 05D 1300-124077	13,00	14	77	124	2	⊗	-
1181146Z9	-	HBDPUE/W 2 05D 1350-124077	13,50	14	77	124	2	○	-
1181147Z9	-	HBDPUE/W 2 05D 1400-124077	14,00	14	77	124	2	⊗	-
1181148Z9	-	HBDPUE/W 2 05D 1450-133083	14,50	16	83	133	2	⊗	-
1181149Z9	-	HBDPUE/W 2 05D 1500-133083	15,00	16	83	133	2	○	-
1181150Z9	-	HBDPUE/W 2 05D 1550-133083	15,50	16	83	133	2	○	-
1181151Z9	-	HBDPUE/W 2 05D 1600-133083	16,00	16	83	133	2	○	-
1181152Z9	-	HBDPUE/W 2 05D 1650-143093	16,50	18	93	143	2	○	-
1181153Z9	-	HBDPUE/W 2 05D 1700-143093	17,00	18	93	143	2	○	-
1181154Z9	-	HBDPUE/W 2 05D 1750-143093	17,50	18	93	143	2	○	-
1181155Z9	-	HBDPUE/W 2 05D 1800-143093	18,00	18	93	143	2	○	-
1181156Z9	-	HBDPUE/W 2 05D 1850-153101	18,50	20	101	153	2	○	-
1181157Z9	-	HBDPUE/W 2 05D 1900-153101	19,00	20	101	153	2	○	-
1181158Z9	-	HBDPUE/W 2 05D 1950-153101	19,50	20	101	153	2	○	-
1181159Z9	-	HBDPUE/W 2 05D 2000-153101	20,00	20	101	153	2	○	-

⊗ Stock item | Produto de stock | Itens de stock

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

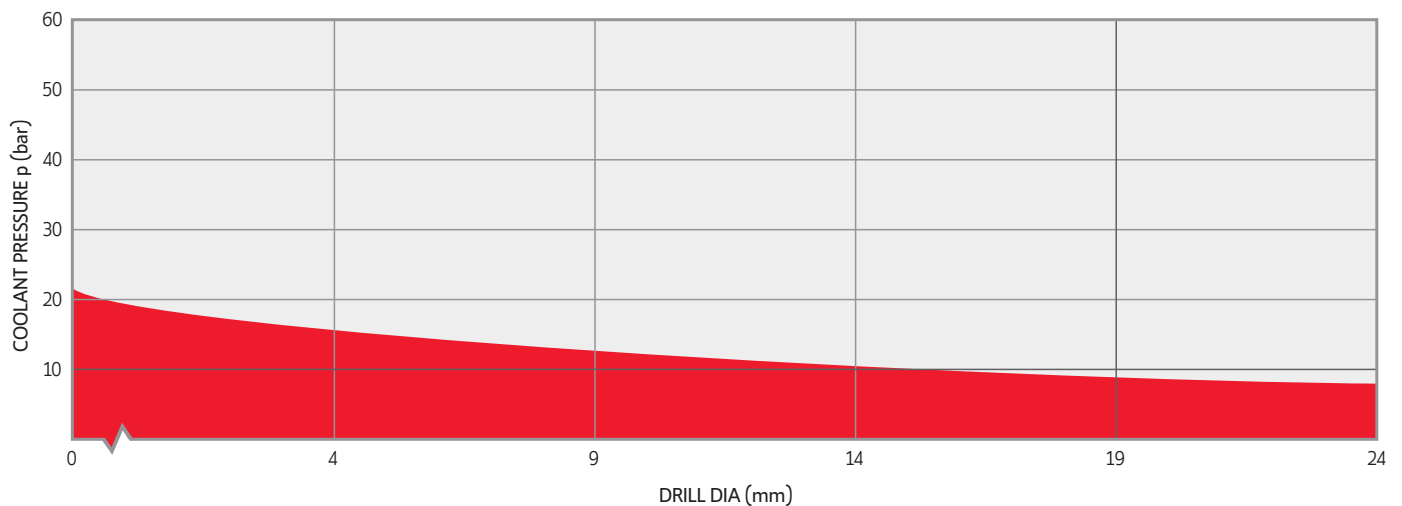
SOLID CARBIDE DRILLS CUTTING PARAMETERS AND ADJUSTMENTS

Parâmetros de corte e ajustes | Condiciones de corte y ajustes

RECOMMENDED SPEEDS AND FEEDS

ISO	Material Group Grupo Materiais Grupo Materiales	Vc (m/min)	f (mm/rev)			
			Ø3-8mm	Ø8-12mm	Ø12-16mm	Ø16-20mm
P	Unalloyed steel (-0,25%)	80-100	0,10-0,20	0,15-0,25	0,20-0,40	0,25-0,50
	Low-alloy steel (0,25%-)	70-100	0,10-0,20	0,20-0,30	0,20-0,35	0,25-0,40
	High-alloy steel	40-70	0,08-0,15	0,12-0,22	0,20-0,40	0,25-0,40
M	Stainless steel	35-50	0,08-0,15	0,12-0,25	0,15-0,30	0,20-0,35
K	Maleable cast iron	70-100	0,10-0,30	0,20-0,40	0,25-0,40	0,25-0,50
	Grey cast iron	70-100	0,10-0,25	0,20-0,35	0,30-0,45	0,35-0,55

COOLANT APPLICATION CHART



LOOKING FOR MORE TROUBLESHOOTING?



Check the qrcode for more information

SOLID CARBIDE

DRILLS

Complete range



Check the QrCode for more information



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