

MIN-INTEG

HB30MINS

Micro Machining Endmills

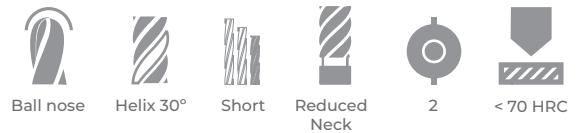
MILLING
Solid Carbide



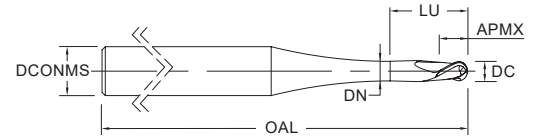
MIN INTEG Micro Machining End mills

HB30MINS Short neck

P M K S H



All order codes are cylindrical shank.
Weldon shank available under request.



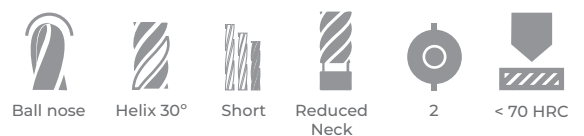
(1) Geometry code	(2) Grade code		X4 PHH603	Dimensions Dimensões Dimensiones (mm)					
	Reference Referência Referencia	NOF		DC	DCONMS	DN	APMX	LU	OAL
1180769	HB30MINS 2 004 01 010	2	⊗	0,4	4	0,37	0,4	1,0	50
1180297	HB30MINS 2 005 01 015	2	⊗	0,5	4	0,45	0,6	1,5	50
1180288	HB30MINS 2 006 01 020	2	⊗	0,6	4	0,58	0,6	2,0	50
1180289	HB30MINS 2 008 01 020	2	⊗	0,8	4	0,78	0,8	2,0	50
1180298	HB30MINS 2 010 02 025	2	⊗	1,0	4	0,95	1,3	2,5	50
1180290	HB30MINS 2 010 01 030	2	⊗	1,0	4	0,95	1,0	3,0	50
1180291	HB30MINS 2 012 02 030	2	⊗	1,2	4	1,15	1,2	3,0	50
1180292	HB30MINS 2 016 02 040	2	⊗	1,6	4	1,55	1,6	4,0	50
1180293	HB30MINS 2 020 02 040	2	⊗	2,0	4	1,94	2,0	4,0	50
1180307	HB30MINS 2 020 03 050	2	⊗	2,0	4	1,95	2,5	5,0	50
1180299	HB30MINS 2 025 03 060	2	⊗	2,5	6	2,45	3,0	6,0	60
1180309	HB30MINS 2 030 04 075	2	⊗	3,0	6	2,95	4,0	7,5	60

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

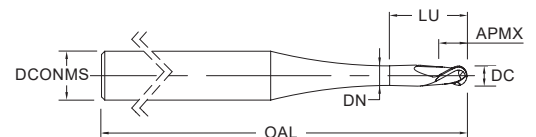
End mill order code = (1) Geometry Code + (2) Grade Code

HB30MINS Medium neck

P M K S H



All order codes are cylindrical shank.
Weldon shank available under request.



(1) Geometry code	(2) Grade code		X4 PHH603	Dimensions Dimensões Dimensiones (mm)					
	Reference Referência Referencia	NOF		DC	DCONMS	DN	APMX	LU	OAL
1180305	HB30MINS 2 005 01 025	2	⊗	0,5	4	0,45	0,4	2,5	50
1180308	HB30MINS 2 010 02 050	2	⊗	1,0	4	0,95	1,3	5,0	50
1180336	HB30MINS 2 016 02 080	2	⊗	1,6	4	1,55	1,6	8,0	50
1180310	HB30MINS 2 020 03 100	2	⊗	2,0	4	1,95	2,5	10,0	50
1180311	HB30MINS 2 025 03 125	2	⊗	2,5	6	2,45	3,0	12,5	60
1180301	HB30MINS 2 030 04 150	2	⊗	3,0	6	2,95	4,0	15,0	60

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End mill order code = (1) Geometry Code + (2) Grade Code

MIN INTEG Micro Machining End mills

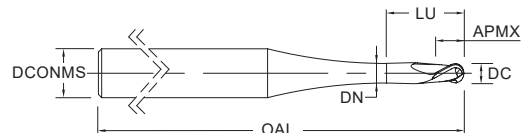
HB30MINS Long neck



P M K S H



All order codes are cylindrical shank.
Weldon shank available under request.



(1) Geometry code	(2) Grade code		X4 PHH603	Dimensions Dimensões Dimensiones (mm)					
	Reference Referência Referencia	NOF		DC	DCONMS	DN	APMX	LU	OAL
1180306	HB30MINS 2 005 01 040	2	⊗	0,5	4	0,45	0,6	4,0	50
1180300	HB30MINS 2 010 02 080	2	⊗	1,0	4	0,95	1,3	8,0	50
1180337	HB30MINS 2 016 02 128	2	⊗	1,6	4	1,55	1,6	12,8	50
1180302	HB30MINS 2 020 03 160	2	⊗	2,0	4	1,95	2,5	16,0	50
1180312	HB30MINS 2 025 03 200	2	⊗	2,5	6	2,45	3,0	20,0	60
1180313	HB30MINS 2 030 04 240	2	⊗	3,0	6	2,95	4,0	24,0	60

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

End mill order code = (1) Geometry Code + (2) Grade Code

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

ISO	Material	Copying					
		fz (mm/t)		Vc (m/min)			
		$\alpha < 15^\circ$	$\alpha > 15^\circ$	AP = 0,05 DC $\alpha < 15^\circ$	AP = 0,25 DC $\alpha < 15^\circ$	AP = 0,05 DC $\alpha > 15^\circ$	AP = 0,25 DC $\alpha > 15^\circ$
P	Unalloyed Steel	0,010 x DC	0,003 x DC	700	340	460	220
	Low-Alloyed Steel	0,009 x DC	0,003 x DC	650	320	430	210
	High-Alloyed Steel	0,008 x DC	0,003 x DC	590	290	390	190
M	Stainless Steel (Ferritic / Martensitic)	0,009 x DC	0,003 x DC	600	300	400	200
	Stainless Steel (Austenitic)	0,008 x DC	0,003 x DC	560	280	370	190
	Stainless Steel (Austenitic/Ferritic/Duplex)	0,007 x DC	0,002 x DC	540	270	360	180
K	Malleable Cast Iron	0,008 x DC	0,003 x DC	650	320	430	210
	Grey Cast Iron	0,008 x DC	0,003 x DC	640	310	420	200
	Nodular Cast Iron	0,007 x DC	0,002 x DC	600	300	400	190
S	Heat Resistant Super Alloys	0,007 x DC	0,002 x DC	230	110	150	80
H	Hardened Steels	0,008 x DC	0,003 x DC	460	230	310	150

Note: Since some of the end mills have low DC the above Vc cannot be achieved by any conventional machining center. The end mills still work at much lower Vc.

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Check the QrCode for more information



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