VAN CUTSEM tools
Quality tools for metalworking

KMO-zone Doornpark 19 – 9120 BEVEREN-WAAS - BELGIUM
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Topkwaliteit aan een lage snijkost!

TOROMILL X2





Palbit profielfrees 35190

- Profielfrees met robuuste dubbelzijdige freesplaten.
- RNHX1204 freesplaten: **12 snijkanten** - max.Ap: 3,0mm
- Toepassingsgebied: P M K S
- Levertijd: 24/48h
- Freesplaten: RNHX1204 - 12 snijkanten - max.Ap: 3,0 mm

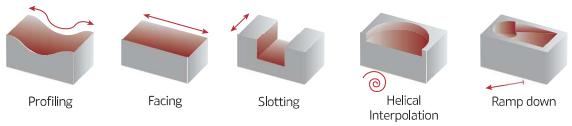
Palbit freeslichamen 35190

D_c			Set €
40	4	040A35190-04-07-016040	
50	5	050A35190-05-07-022040	
63	6	063A35190-06-07-022050	
80	7	080A35190-07-07-027050	
100	9	100A35190-09-07-032050	

Bij afname van:	Freesplaten (12 snijkanten) - max Ap: 3,0mm -		€/snijpl. *bruto*	korting	€/snijpl. *netto*	€/snijkant *netto*
10 stks	RNHX 1204 MOE-LP PHP 930	P				
≥ 30 stks	RNHX 1204 MOE-LP PHP 930					
10 stks	RNHX 1204 MOE-LP PHH 530	M S				
≥ 30 stks	RNHX 1204 MOE-LP PHH 530					

VAN CUTSEM tools
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Double-sided round milling insert



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35190

Text

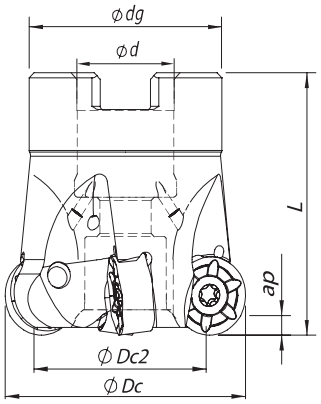


PDF



SINCE 1916





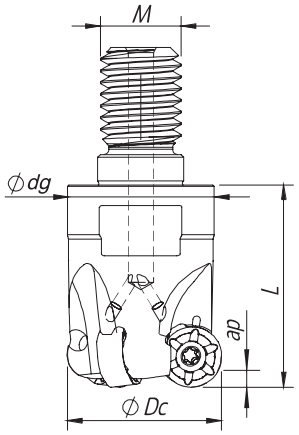
Arbor Mounting

γ_p=-7°

Order code Código	Reference Referência Referencia		Dimensions | Dimensões | Dimensiones (mm)					Kg	Specifications		Insert Pastilha Inserto	Stock
			ØDc	ØDc2	Ød	Ødg	L		Arbor Type	Ap max (mm)		
181111600	040A35190-04-07-016040	4	40	32	16	32	40	0,20	A	3,0	RNHX 1204 M0E...	◈
181100200	050A35190-05-07-022040	5	50	42	22	40	40	0,24	A	3,0	RNHX 1204 M0E...	◈
181128800	063A35190-06-07-022050	6	63	49	22	48	50	0,55	A	3,0	RNHX 1204 M0E...	◈
181128900	080A35190-07-07-027050	7	80	60	27	60	50	0,78	A	3,0	RNHX 1204 M0E...	◈
181175600	100A35190-09-07-032050	9	100	80	32	70	50	1,00	B	3,0	RNHX 1204 M0E...	◈

◈ Stock item | Produto de stock | Itens de stock ◯ Available under request (see page A-8) | Disponível sobre consulta (consulte a página A-8) | Disponible bajo consulta (mire pagina A-8)



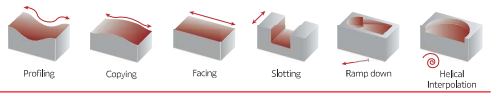


Threaded Coupling

γ_p=-7°

Order code Código	Reference Referência Referencia		Dimensions | Dimensões | Dimensiones (mm)				Kg	Specifications	Insert Pastilha Inserto	Stock
			ØDc	ØM	Ødg	L		Ap max (mm)		
181128500	032R35190-03-07-M16040	3	32	M16	29	40	0,16	3,0	RNHX 1204 M0E...	◯
181128700	042R35190-04-07-M16040	4	42	M16	29	40	0,20	3,0	RNHX 1204 M0E...	◯

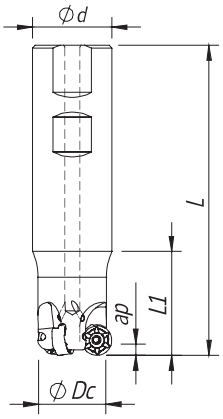
◈ Stock item | Produto de stock | Itens de stock ◯ Available under request (see page A-8) | Disponível sobre consulta (consulte a página A-8) | Disponible bajo consulta (mire pagina A-8)





Weldon Shank

γ_p=-7°



Order code Código	Reference Referência Referencia		Dimensions | Dimensões | Dimensiones (mm)				Kg	Specifications	Insert Pastilha Inserto	Stock
			ØDc	Ød/M	L	L1		Ap max (mm)		
181087000	032W35190-03-07-032125	3	32	32	125	42	0,98	3,0	RNHX 1204 M0E...	◈

◈ Stock item | Produto de stock | Itens de stock ◯ Available under request (see page A-9) | Disponível sobre consulta (consulte a página A-9) | Disponible bajo consulta (mire pagina A-9)

RNHX 1204... | Inserts | Pastilhas | Plaquitas

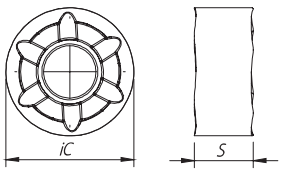
RNHX-LP



RNHX-MP



RNHX-LP | MP



		P			M			K		S		Dimensions Dimensões Dimensiones (mm)	
		PVD			PVD			PVD		PVD			
	(2) Grade code	T1	P4	Z2	X9	Z2	Z3	T1	P4	X9	Z3		
(1) Geometry code	ISO Reference	PHP920	PHP930	PHP530	PHH930	PHP530	PHH530	PHP920	PHP930	PHH930	PHH530	IC	S
1112030	RNHX 1204 M0E-LP	◈		◈	◈	◈	◈			◈	◈	12,00	4,76
1112052	RNHX 1204 M0E-MP	◈	◈					◈	◈			12,00	4,76

◈ First choice | Primeira opção | 1ª opción ◈ Stock item | Produto de stock | Itens de stock ◯ Available under request (see page A-9) | Disponível sobre consulta (consulte a página A-9) | Disponible bajo consulta (mire pagina A-9)

Insert order code = (1) Geometry Code + (2) Grade Code

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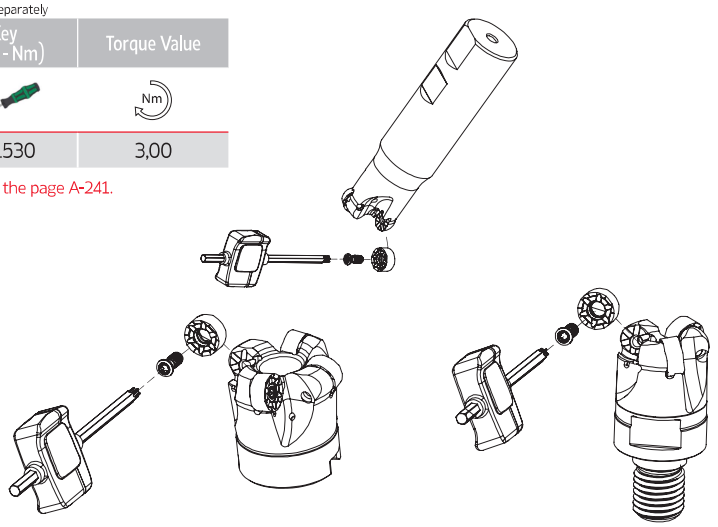
TOROMILL X2 35190

SPARE PARTS | Complementos | Repuestos

Order separately

Cutter ØDc	Insert Screw	Key (Torx)	Key (Torx - Nm)	Torque Value
35190	P0401065	XT15	DT1530	3,00

Note: The toolholder is supplied with the XT/PT key. To order the DT key please check the page A-241.
Check the procedures for the clamping screws on the page A-241.



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

ISO	PSM	Material	HB (Brinell)	Grades ← Wear Resistance — Toughness → PHP920	PHP930	PHH930	PHP530	PHH530
P	1	Unalloyed Steel	125-220	✓	✓		✓	
	2	Low-Alloyed Steel	220-280	✓	✓		✓	
	3	High-Alloyed Steel	280-380	✓	✓		✓	
M	4	SS - Ferritic / Martensitic	200-330			✓	✓	✓
	5	SS - Austenitic	200-330			✓		✓
	6	SS - Austenitic-ferritic (Duplex)	230-260			✓		✓
K	7	Malleable Cast Iron	130-230	✓	✓			
	8	Grey Cast Iron	180-245	✓	✓			
	9	Nodular Cast iron	160-250	✓	✓			
S	11	Heat Resistant Super Alloys	200-320			✓		✓

Good Conditions — Average Conditions — Difficult Conditions

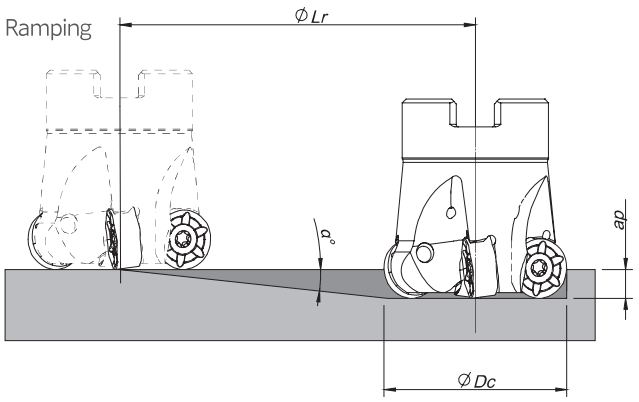
RECOMMENDED CUTTING CONDITIONS | Condições de corte recomendadas | Condiciones de corte recomendables

ISO	PSM	Material	HB (Brinell)	Vc (m/min) ← Wear Resistance — Toughness → PHP920	PHP930	PHH930	PHP530	PHH530	RNHX... 12 LP	MP
P	1	Unalloyed Steel	125-220	180-250	160-230	-	180-340	-	0,15-0,45	0,15-0,50
	2	Low-Alloyed Steel	220-280	160-230	140-210	-	180-340	-	0,15-0,45	0,15-0,50
	3	High-Alloyed Steel	280-380	140-220	120-200	-	180-330	-	0,15-0,45	0,15-0,45
M	4	SS - Ferritic / Martensitic	200-330	-	-	140-210	150-270	170-280	0,10-0,35	-
	5	SS - Austenitic	200-330	-	-	120-170	-	160-280	0,10-0,35	-
	6	SS - Austenitic-ferritic (Duplex)	230-260	-	-	100-150	-	150-260	0,10-0,35	-
K	7	Malleable Cast Iron	130-230	-	150-280	-	-	-	-	0,15-0,55
	8	Grey Cast Iron	180-245	-	130-230	-	-	-	-	0,15-0,55
	9	Nodular Cast iron	160-250	-	80-190	-	-	-	-	0,15-0,50
S	11	Heat Resistant Super Alloys	200-320	-	-	30-110	-	30-150	0,05-0,30	-

CHIP-BREAKER SELECTION GUIDE | Guia para aplicações do quebra-aparas | Guía para aplicación del rompevirutas

ISO	PSM	Material	HB (Brinell)	Chip-Breaker Application	
				1st choise	Dificult Operations
P	1	Unalloyed Steel	125-220	LP	MP
	2	Low-Alloyed Steel	220-280	LP	MP
	3	High-Alloyed Steel	280-380	MP	-
M	4	SS - Ferritic / Martensitic	200-330	LP	-
	5	SS - Austenitic	200-330	LP	-
	6	SS - Austenitic-ferritic (Duplex)	230-260	LP	-
K	7	Malleable Cast Iron	130-230	MP	-
	8	Grey Cast Iron	180-245	MP	-
	9	Nodular Cast iron	160-250	MP	-
S	11	Heat Resistant Super Alloys	200-320	LP	-

RAMPING | Descida em rampa | Bajada en rampa



Insert	ØDc	Ramping		
		Max Ramp a°	Max a_p	Min Lr
RNHX 1204	32	1	3	171,9
	40	0,8	3	214,8
	42	0,8	3	214,8
	50	0,8	3	214,8
	63	0,6	3	286,5
	80	0,5	3	343,8

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