

MILLING TOOLS MADE BY JONGEN

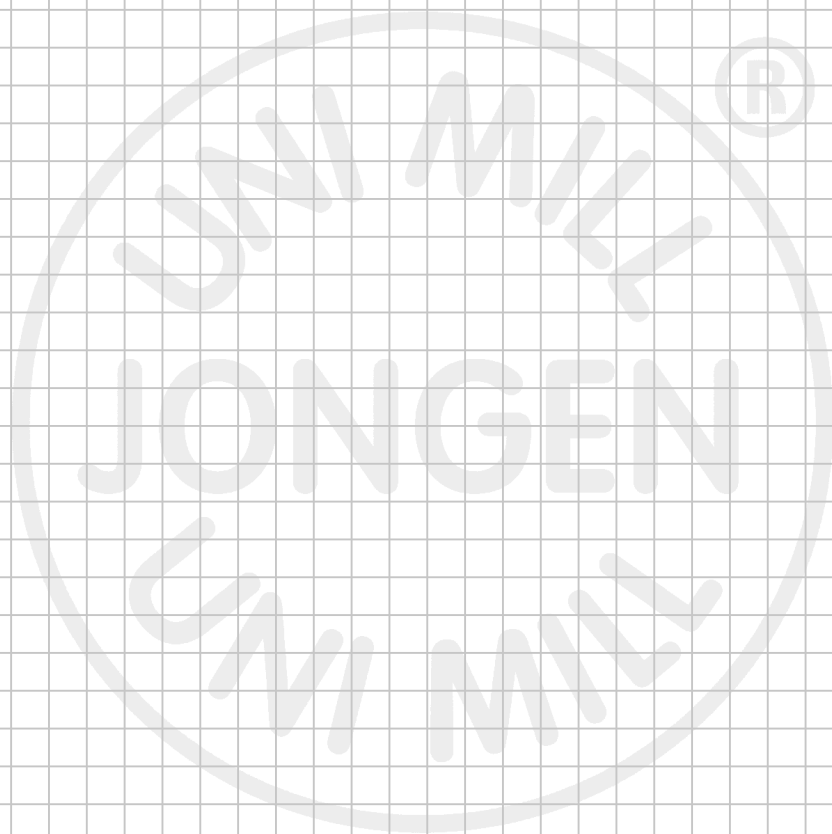
JONGEN UNI-MILL



PREISLISTE - PRICELIST - TARIF - LISTINO PREZZI EURO 2012



Milling tools ...



... made by JONGEN

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Trägerkörper u. Kassetten

Cassette holders and cassettes , Supports à cassettes, Supporti e porta inserti


Catalogue 2011 Page 8

	Order-No.	Euro/Piece
	TKA-068-3-AL-B	566,00
TKA-080-3-AL-B	600,00	
TKA-100-4-AL-B	737,00	
TKA-125-4-AL-B	792,00	
TKA-160-5-AL-B	993,00	


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	Order-No.	Euro/Piece
	K90-83-G	88,00


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	Order-No.	Euro/Piece
	TK-40-02-B	376,00
TK-50-03-B	485,00	


Catalogue 2011 Page 10

	Order-No.	Euro/Piece
	TKA-063-85-4-AL-B	566,00
TKA-080-85-6-AL-B	797,00	
TKA-100-85-8-AL-B	1.082,00	
TKA-125-85-9-AL-B	1.200,00	

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	Order-No.	Euro/Piece
	K90-85-G	71,00

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	Order-No.	Euro/Piece
	TK-080-06	307,00
TK-100-07	361,00	
TK-125-08	435,00	
TK-160-10	513,00	
TK-200-12	642,00	
TK-250-16	856,00	
TK-312-19	1.157,00	


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	Order-No.	Euro/Piece
	K00-252-S	69,00
K00-252-G	80,00	
K00-412-S	69,00	
K00-412-G	80,00	
K00-516-S	69,00	
K00-516-G	80,00	
K45-525-S	69,00	
K45-525-G	80,00	
K45-33-S	69,00	
K45-33-G	80,00	
K45-117-S	69,00	
K45-117-G	80,00	
K45-140-G	80,00	
K75-36-S	69,00	
K75-36-G	80,00	
K90-27-S	69,00	
K90-27-G	80,00	
K90-22-S	69,00	
K90-22-G	80,00	
K90-77-S	69,00	
K90-77-G	80,00	
K90-47-S	69,00	
K90-47-G	80,00	
K90-49-G	80,00	
K90-81-S	69,00	
K90-81-G	80,00	


Aufsteckfräser

Shell milling cutters , Fraises à alésage, Frese per attacco a manicotto


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	Order-No.	Euro/Piece
	00RP-050-252-4	192,00
	00RP-063-252-5	217,00
	00RP-080-252-6	263,00
	00RP-100-252-6	314,00
	00RP-125-252-7	411,00


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	Order-No.	Euro/Piece
	45PP-050-525-5	264,00
	45PP-063-525-5	302,00
	45PP-080-525-6	361,00
	45PP-100-525-7	411,00
	45PP-125-525-8	481,00
	45PP-160-525-10	592,00
	45PP-050-525-6	273,00
	45PP-063-525-7	314,00
	45PP-080-525-8	373,00
	45PP-100-525-9	423,00
	45PP-125-525-10	496,00
	45PP-160-525-12	607,00


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	Order-No.	Euro/Piece
	45PP-050-554-4	283,00
	45PP-063-554-5	314,00
	45PP-080-554-6	384,00
	45PP-100-554-7	430,00
	45PP-125-554-9	542,00
	45PP-160-554-11	643,00
	45PP-050-554-5	304,00
	45PP-063-554-6	335,00
	45PP-080-554-7	456,00
	45PP-100-554-9	469,00
	45PP-125-554-11	580,00
	45PP-160-554-13	692,00


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	Order-No.	Euro/Piece
	45PP-050-558-4	262,00
	45PP-063-558-5	283,00
	45PP-080-558-6	363,00
	45PP-100-558-7	409,00
	45PP-125-558-9	521,00
	45PP-160-558-11	622,00
	45PP-080-558-7	435,00
	45PP-100-558-9	448,00
	45PP-125-558-11	559,00
	45PP-160-558-13	671,00


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	Order-No.	Euro/Piece
	45PP-050-113-5	264,00
	45PP-063-113-6	312,00
	45PP-080-113-7	386,00
	45PP-100-113-8	425,00
	45PP-125-113-9	534,00
	45PP-160-113-11	623,00


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	Order-No.	Euro/Piece
	45PP-050-114-4	207,00
	45PP-063-114-5	233,00
	45PP-080-114-5	285,00
	45PP-100-114-6	325,00
	45PP-125-114-7	428,00
	45PP-160-114-7	558,00


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	Order-No.	Euro/Piece
	45PP-036-329-5	251,00
	45PP-040-329-16-5	256,00
	45PP-040-329-22-5	256,00
	45PP-050-329-6	278,00
	45PP-063-329-7	313,00
	45PP-080-329-8	376,00
	45PP-100-329-9	431,00
	45PP-125-329-10	496,00


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	Order-No.	Euro/Piece
	45PP-050-140-4	278,00
	45PP-063-140-5	370,00
	45PP-080-140-6	449,00
	45PP-100-140-7	524,00
	45PP-125-140-8	599,00
	45PP-160-140-10	755,00
	45PP-200-140-12	1.056,00
	45PP-050-140-5	360,00
	45PP-063-140-6	392,00
	45PP-080-140-8	478,00
	45PP-100-140-10	577,00
	45PP-125-140-12	674,00
	45PP-160-140-16	895,00
	45PP-200-140-19	1.193,00


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	Order-No.	Euro/Piece
	45PN-050-34-5	264,00
	45PN-063-34-6	320,00
	45PN-080-34-7	364,00
	45PN-100-34-8	429,00
	45PN-125-34-9	552,00
	45PN-160-34-10	642,00


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	Order-No.	Euro/Piece
	75PP-050-37-5	243,00
	75PP-063-37-5	282,00
	75PP-080-37-6	313,00
	75PP-100-37-7	404,00

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	Order-No.	Euro/Piece
	90PP-050-22-5	244,00
	90PP-063-22-6	282,00
	90PP-080-22-7	312,00
	90PP-100-22-8	363,00
	90PP-125-22-9	454,00
	90PP-160-22-10	563,00


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	Order-No.	Euro/Piece
	90PP-050-27-4	206,00
	90PP-063-27-5	224,00
	90PP-080-27-5	268,00
	90PP-100-27-6	310,00
	90PP-125-27-7	429,00
	90PP-160-27-7	488,00
	90PP-050-27-5	264,00
	90PP-063-27-6	284,00
	90PP-080-27-7	331,00
	90PP-100-27-8	402,00
	90PP-125-27-9	502,00
	90PP-160-27-10	564,00


Aufsteckfräser

Shell milling cutters , Fraises à alésage, Frese per attacco a manicotto


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	Order-No.	Euro/Piece
	90PP-040-328-16-5	240,00
	90PP-040-328-22-5	240,00
	90PP-050-328-6	264,00
	90PP-063-328-7	296,00
	90PP-080-328-8	348,00
	90PP-100-328-9	449,00
	90PP-125-328-10	488,00


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	Order-No.	Euro/Piece
	90PP-040-10-16-5	225,00
	90PP-040-10-22-5	225,00
	90PP-050-10-5	245,00
	90PP-063-10-6	267,00
	90PP-080-10-7	298,00
	90PP-040-10-16-6	240,00
	90PP-040-10-22-6	240,00
	90PP-050-10-6	250,00
	90PP-063-10-7	282,00
	90PP-080-10-8	325,00
	90PP-100-10-9	343,00


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	Order-No.	Euro/Piece
	90PP-040-75-16-4	212,00
	90PP-040-75-22-4	212,00
	90PP-050-75-5	226,00
	90PP-063-75-5	241,00
	90PP-080-75-7	296,00
	90PP-100-75-9	370,00
	90PP-125-75-13	464,00
	90PP-040-75-16-5	224,00
	90PP-040-75-22-5	224,00
	90PP-050-75-6	237,00
	90PP-063-75-7	260,00
	90PP-080-75-9	308,00
	90PP-100-75-12	436,00


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	Order-No.	Euro/Piece
	90PP-040-77-4	220,00
	90PP-050-77-5	233,00
	90PP-063-77-5	248,00
	90PP-080-77-6	303,00
	90PP-100-77-8	366,00
	90PP-040-77-16-5	233,00
	90PP-040-77-22-5	233,00
	90PP-050-77-6	244,00
	90PP-063-77-7	264,00
	90PP-080-77-8	317,00
	90PP-100-77-9	380,00
	90PP-125-77-10	474,00
	90PP-160-77-11	557,00


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	Order-No.	Euro/Piece
	90PP-050-47-5	233,00
	90PP-063-47-5	264,00
	90PP-080-47-6	307,00


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	Order-No.	Euro/Piece
	90PP-040-49-3	199,00
	90PP-050-49-4	220,00
	90PP-063-49-5	272,00
	90PP-080-49-5	325,00
	90PP-100-49-7	419,00
	90PP-125-49-8	461,00
	90PP-160-49-11	629,00
	90PP-040-49-4	209,00
	90PP-050-49-5	241,00
	90PP-063-49-6	293,00
	90PP-080-49-7	356,00
	90PP-100-49-8	430,00
	90PP-125-49-10	482,00
	90PP-160-49-13	661,00


Catalogue -NEW-

	Order-No.	Euro/Piece
	90PP-032-63-7	226,00
	90PP-040-63-16-9	259,00
	90PP-040-63-22-9	259,00
	90PP-050-63-11	292,00
	90PP-032-63-9	256,00
	90PP-040-63-16-11	289,00
	90PP-040-63-22-11	289,00
	90PP-050-63-13	322,00


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	Order-No.	Euro/Piece
	90PP-042-429-3	220,00
	90PP-052-429-3	227,00
	90PP-066-429-4	275,00
	90PP-080-429-5	309,00

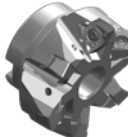
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	Order-No.	Euro/Piece
	90PP-050-81-5	231,00
	90PP-063-81-5	256,00
	90PP-080-81-6	307,00

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	Order-No.	Euro/Piece
	90PP-040-85-3	216,00
	90PP-050-85-4	228,00
	90PP-063-85-4	241,00
	90PP-080-85-5	307,00


Catalogue -NEW-

	Order-No.	Euro/Piece
	90PP-050-853-4	269,00
	90PP-063-853-5	299,00
	90PP-080-853-6	365,00
	90PP-100-853-7	409,00
	90PP-125-853-9	516,00
	90PP-160-853-11	612,00
	90PP-050-853-5	289,00
	90PP-063-853-6	319,00
	90PP-080-853-7	385,00
	90PP-100-853-9	449,00
	90PP-125-853-11	556,00
	90PP-160-853-13	652,00


Schafffräser

Shank type milling cutters, Fraises à queue, Frese a gambo weldon


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	Order-No.	Euro/Piece
	00RP-28-252-2	161,00
	00RP-32-252-2	165,00
	00RP-36-252-25-3	167,00
	00RP-40-252-25-3	175,00
	00RP-36-252-32-3	167,00
	00RP-40-252-32-3	175,00

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	Order-No.	Euro/Piece
	45PP-22-329	184,00
	45PP-25-329	192,00
	45PP-28-329	226,00
	45PP-32-329	234,00
	45PP-25-329-L	217,00
	45PP-28-329-L	234,00
	45PP-32-329-L	240,00


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	Order-No.	Euro/Piece
	90PP-25-328-2	141,00
	90PP-28-328-2	165,00
	90PP-32-328-3	174,00
	90PP-25-328-2-L	152,00
	90PP-28-328-2-L	177,00
	90PP-32-328-3-L	182,00
	90PP-22-328	155,00
	90PP-25-328	176,00
	90PP-28-328	179,00
	90PP-32-328	184,00
	90PP-25-328-L	184,00
	90PP-28-328-L	188,00
	90PP-32-328-L	204,00

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	Order-No.	Euro/Piece
	90PP-12-10-1	101,00
	90PP-14-10-1	107,00
	90PP-16-10-1	113,00
	90PP-20-10-2	143,00
	90PP-25-10-3	161,00
	90PP-32-10-4	185,00
	90PP-40-10-5	185,00
	90PP-16-10-2	128,00
	90PP-18-10-2	141,00
	90PP-20-10-3	155,00
	90PP-22-10-3	160,00
	90PP-25-10-4	177,00
	90PP-28-10-4	179,00
	90PP-30-10-4	181,00
	90PP-32-10-5	185,00
	90PP-36-10-5	191,00
	90PP-40-10-6	195,00
	90PP-22-10-3-L	165,00
	90PP-28-10-4-L	184,00
	90PP-32-10-5-L	192,00

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	Order-No.	Euro/Piece
	90PP-20-32-75-2	145,00
	90PP-20-50-75-2	146,00
	90PP-22-33-75-3	166,00
	90PP-25-38-75-3	167,00
	90PP-25-60-75-3	172,00
	90PP-28-42-75-4	191,00
	90PP-30-45-75-4	194,00
	90PP-32-48-75-3	177,00
	90PP-32-60-75-3	180,00
	90PP-36-48-75-5	202,00
	90PP-40-48-75-5	207,00
	90PP-20-30-75-3	162,00
	90PP-25-38-75-4	184,00
	90PP-32-48-75-5	200,00

	Order-No.	Euro/Piece
	90PP-20-75-2-150	155,00
	90PP-25-75-2-170	159,00
	90PP-32-75-3-195	176,00

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	Order-No.	Euro/Piece
	90PP-14-77-1	113,00
	90PP-16-77-1	116,00
	90PP-18-77-1	120,00
	90PP-20-77-2	142,00
	90PP-22-77-2	145,00
	90PP-25-77-2	149,00
	90PP-28-77-2	152,00
	90PP-30-77-2	156,00
	90PP-32-77-3	162,00
	90PP-36-77-3	167,00
	90PP-25-77-3	164,00
	90PP-28-77-3	167,00
	90PP-30-77-3	173,00
	90PP-32-77-4	179,00
	90PP-36-77-4	183,00
	90PP-25-77-3-L	167,00
	90PP-28-77-3-L	173,00
	90PP-32-77-4-L	182,00

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	Order-No.	Euro/Piece
	90PP-16-15	116,00
	90PP-18-15	116,00
	90PP-20-15	116,00
	90PP-22-15	149,00
	90PP-25-15	149,00
	90PP-28-15	149,00
	90PP-30-15	149,00
	90PP-32-15	149,00
	90PP-36-15	160,00
	90PP-40-15	206,00
	90PP-45-15	212,00
	90PP-50-15	222,00
	90PP-63-15	226,00
	90PP-32-15-3	161,00
	90PP-36-15-3	196,00

Schafffräser

Shank type milling cutters, Fraises à queue, Frese a gambo weldon

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Order-No.	Euro/Piece
90PP-25-38-49-2	139,00
90PP-28-42-49-2	149,00
90PP-30-45-49-2	157,00
90PP-32-48-49-3	183,00
90PP-36-48-49-3	184,00
90PP-40-48-49-4	209,00



Order-No.	Euro/Piece
90PP-25-49-2-170	188,00
90PP-32-49-2-195	199,00
90PP-40-49-3-195	230,00

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Order-No.	Euro/Piece
90PP-08-06	94,00
90PP-09-06	95,00
90PP-10-06	95,00
90PP-11-06	96,00
90PP-12-06	96,00
90PP-13-06	97,00
90PP-14-06	114,00
90PP-15-06	115,00
90PP-16-06	116,00
90PP-17-06	117,00
90PP-18-06	126,00
90PP-19-06	128,00
90PP-20-06	130,00
90PP-21-06	131,00
90PP-22-06	132,00
90PP-23-06	133,00
90PP-24-06	135,00
90PP-25-06	138,00

Catalogue -NEW-



Order-Nr.	Euro/Piece
90PP-10-15-63-2	127,00
90PP-12-18-63-2	129,00
90PP-14-24-63-3	139,00
90PP-16-22-63-3	143,00
90PP-20-30-63-4	177,00
90PP-25-37-63-5	195,00
90PP-32-46-63-7	228,00
90PP-16-22-63-4	173,00
90PP-20-30-63-5	192,00
90PP-25-37-63-7	225,00
90PP-32-46-63-9	258,00



Order-Nr.	Euro/Piece
90PP-12-63-2-120	139,00
90PP-14-63-3-140	149,00
90PP-16-63-3-160	153,00
90PP-18-63-4-180	156,00
90PP-20-63-4-200	187,00

Tauchfräser

Boring mills, Fraises à rainurer-percer, Frese a tuffo

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Order-No.	Euro/Piece
90TF-25-15	155,00
90TF-28-15	163,00
90TF-32-15	166,00
90TF-36-15	181,00

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Order-No.	Euro/Piece
90TF-16-06	128,00
90TF-18-06	128,00
90TF-20-06	133,00
90TF-22-06	133,00
90TF-25-06	133,00

Einschraubfräser

Threaded type cutters, Fraises à queue filetée, Frese a attacco filettato

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Order-No.	Euro/Piece
ESF-28-M12-252-2	130,00
ESF-32-M16-252-2	134,00
ESF-40-M16-252-3	149,00

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Order-No.	Euro/Piece
ESF-40-M16-525-4	188,00

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Order-No.	Euro/Piece
ESF-22-M10-328-2	141,00
ESF-25-M12-328-3	147,00
ESF-32-M16-328-4	165,00
ESF-40-M16-328-5	182,00

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Order-No.	Euro/Piece
ESF-16-M8-71-2	134,00
ESF-20-M10-71-3	141,00
ESF-40-M16-71-5	182,00
ESF-25-M12-71-4	157,00
ESF-32-M16-71-5	175,00

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Order-No.	Euro/Piece
ESF-20-27-M10-75-2	133,00
ESF-25-32-M12-75-3	155,00
ESF-32-32-M16-75-3	156,00
ESF-35-32-M16-75-4	160,00
ESF-40-32-M16-75-4	162,00
ESF-20-27-M10-75-3	153,00
ESF-25-32-M12-75-4	161,00
ESF-32-32-M16-75-5	174,00
ESF-35-32-M16-75-5	178,00
ESF-40-32-M16-75-6	186,00

Catalogue 2011 Page 102-103



Order-No.	Euro/Piece
ESF-20-M10-77-2	132,00
ESF-22-M10-77-2	132,00
ESF-25-M12-77-2	135,00
ESF-32-M16-77-3	157,00
ESF-35-M16-77-3	157,00
ESF-40-M16-77-3	161,00
ESF-50-M16-77-4	192,00
ESF-25-M12-77-3	155,00
ESF-28-M12-77-3	158,00
ESF-32-M16-77-4	176,00
ESF-35-M16-77-4	176,00
ESF-40-M16-77-5	182,00
ESF-50-M16-77-6	217,00

Catalogue 2011 Page 106



Order-No.	Euro/Piece
ESF-25-32-M12-49-2	149,00
ESF-32-42-M16-49-3	167,00
ESF-35-42-M16-49-3	199,00
ESF-40-42-M16-49-3	199,00

Catalogue -NEW-



Order-Nr.	Euro/Piece
ESF-16-23-M8-63-4	149,00
ESF-20-28-M10-63-5	164,00
ESF-25-30-M12-63-7	199,00
ESF-32-35-M16-63-7	203,00
ESF-40-35-M16-63-9	232,00
ESF-32-35-M16-63-9	229,00
ESF-40-35-M16-63-11	262,00

Catalogue 2011 Page 108



Order-No.	Euro/Piece
90ESF-32-M16-429-2	199,00
90ESF-35-M16-429-2	199,00
90ESF-42-M16-429-3	254,00

Entgratfräser

Deburring milling cutters, Fraises d'ébavurage, Frese per smussare

Catalogue 2011 Page 112



Order-No.	Euro/Piece
EFA-10-82	107,00
EFA-15-82	107,00
EFA-22,5-82	107,00
EFA-30-82	107,00
EFA-45-82	107,00
EFA-60-82	107,00
EFA-75-82	107,00
EF-10-82	107,00
EF-15-82	107,00
EF-22,5-82	107,00
EF-30-82	107,00
EF-45-82	107,00
EF-60-82	107,00
EF-75-82	107,00

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Order-No.	Euro/Piece
EF-30-84-2	154,00
EF-45-84-2	154,00
EF-60-84-2	154,00

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Order-No.	Euro/Piece
45ZF-08-328-1	114,00
45ZF-12-328-1	120,00
45ZF-16-328-2	135,00
45ZF-20-328-3	155,00
45ZF-25-328-3	161,00
45ZF-32-328-4	182,00



Order-No.	Euro/Piece
45ZF-40-328-5	223,00
45ZF-50-328-6	231,00
45ZF-63-328-7	287,00

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Order-No.	Euro/Piece
ER 50-15-4 15°	195,00
ER 50-15-4 30°	195,00
ER 50-15-4 45°	195,00
ER 50-15-4 60°	195,00
ER 50-15-4 75°	195,00

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Order-No.	Euro/Piece
ASF-35-30-14	319,00
ASF-35-45-20	319,00
ASF-39-60-25	319,00

Vielzahnfräser

Multi-tooth milling cutters , Fraises multi-dents (hérisson), Frese per scanalature e spallamenti retti

Catalogue 2011 Page 126



Order-No.	Euro/Piece
VZF 40-21-328-2 KD16	228,00
VZF 50-29-328-2 KD22	272,00
VZF 63-29-328-3 KD22	395,00

Catalogue 2011 Page 128



Order-No.	Euro/Piece
VZF 45-40 KD27	385,00

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Order-No.	Euro/Piece
VZF 40-19-3 KD16	241,00
VZF 50-29-4 KD22	361,00
VZF 63-29-5 KD22	422,00

Catalogue 2011 Page 129



Order-No.	Euro/Piece
VZF 25-20-2	179,00
VZF 28-20-2	197,00
VZF 32-40-2	306,00
VZF 16-19-1	120,00
VZF 20-19-2	173,00
VZF 25-29-2	201,00
VZF 32-48-3	462,00

Catalogue 2011 Page 130



Order-No.	Euro/Piece
VZF 45-40-3 AD	444,00
VZF 28-29-3 AD	212,00
VZF 32-38-3 AD	347,00
VZF 40-48-4 AD	510,00
VZF 50-57-4 AD	606,00

Catalogue 2011 Page 132-133



Order-No.	Euro/Piece
VZF 40-35-75-3 KD16	361,00
VZF 50-35-75-4 KD22	415,00
VZF 63-44-75-5 KD27	555,00
VZF 40-35-75-4 KD16	397,00



Order-No.	Euro/Piece
VZF 20-18-20-75-2	220,00
VZF 25-27-25-75-2	241,00
VZF 28-27-25-75-2	245,00
VZF 32-44-25-75-3	369,00
VZF 32-44-32-75-3	369,00

Catalogue 2011 Page 136-137



Order-No.	Euro/Piece
VZF 40-40-77-3 KD16	441,00
VZF 50-40-77-4 KD22	543,00
VZF 63-50-77-5 KD27	722,00



Order-No.	Euro/Piece
VZF 25-32-25-77-2	259,00
VZF 28-32-25-77-2	281,00
VZF 32-43-25-77-2	303,00
VZF 32-43-32-77-2	311,00

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Order-No.	Euro/Piece
VZF-50-64-49-3 KD22	451,00
VZF-63-64-49-4 KD27	545,00
VZF-80-64-49-5 KD32	661,00

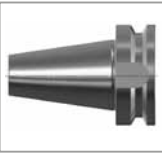


Order-No.	Euro/Piece
VZF-32-48-25-49-2	314,00
VZF-32-48-32-49-2	314,00
VZF-40-64-32-49-2	366,00
VZF-40-64-32-49-3	440,00

Schaft-Schrupp-System

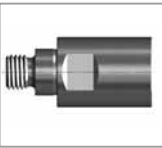
Shank-Roughing-Milling system, Système modulaire d'ébauche, Sistema modulare di fresatura

Catalogue 2011 Page 144



Order-No.	Euro/Piece
GK 40	105,00
GK 50	169,00
GK 40 A	131,00
GK 50 A	173,00
GK 40 BT	131,00
GK 50 BT	177,00
GK-HSK-63-A	279,00
GK-HSK-80-A	311,00
GK-HSK-100-A	351,00

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Order-No.	Euro/Piece
AD 38-30	94,00
AD 38-65	95,00
AD 38-100	102,00
AD 48-30	95,00
AD 48-65	96,00
AD 48-100	99,00
AD 48-150	111,00
AD 61-30	99,00
AD 61-65	100,00
AD 61-100	113,00
AD 61-150	119,00
AD 61-200	131,00
AD 78-30	112,00
AD 78-65	113,00
AD 78-100	137,00

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Order-No.	Euro/Piece
AD 40-30-328	100,00
AD 40-65-328	104,00
AD 40-100-328	108,00
AD 50-30-328	101,00
AD 50-65-328	106,00
AD 50-100-328	110,00
AD 63-30-328	107,00
AD 63-65-328	110,00
AD 63-100-328	114,00

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Order-No.	Euro/Piece
AD 78-50 AD	114,00

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Order-No.	Euro/Piece
AD 50-22	80,00

Order-No.	Euro/Piece
DS 50	14,70

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Order-No.	Euro/Piece
FR 40-15-2	157,00
FR 50-15-2	160,00
FR 63-15-2	185,00
FR 80-15-4	223,00

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Order-No.	Euro/Piece
FR 50-15-2 HO	160,00
FR 63-15-2 HO	185,00
FR 50-15-4 HO	192,00
FR 63-15-4 HO	215,00

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Order-No.	Euro/Piece
FR 40-15-4	159,00
FR 50-15-4	192,00
FR 63-15-4	215,00

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Order-No.	Euro/Piece
FR 40-328-3	181,00
FR 50-328-4	195,00
FR 63-328-4	208,00
FR 40-328-3 HO	213,00
FR 50-328-4 HO	223,00
FR 63-328-4 HO	260,00

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Order-No.	Euro/Piece
KS 10	9,00
KS 30	9,00
KS 40	17,80
KS 50	20,10
KS 60	17,00
KS 80	20,10
KS 100	20,00
KS 140	21,00
KS 150	18,00
KS 160	21,00
KS 170	19,00
KS 180	18,00
KS 190	19,00
KS 200	19,00
KS 210	19,00
KS 220	19,00
KS 230	19,00
KS 250	19,00

Fräser für den Werkzeug- und Formenbau

Milling cutters for tool and die production, Fraises pour l'outillage et le moule,
Frese per la costruzione d'utensili e per stampi

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Order-No.	Euro/Piece
KKUK-16-15	121,00
KKUL-16-15	123,00
KKUK-20-15	121,00
KKUL-20-15	123,00

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Order-No.	Euro/Piece
90ESF-15-M8-421-2	135,00
90ESF-16-M8-421-2	135,00
90ESF-20-M10-421-3	141,00
90ESF-25-M12-421-3	147,00
90ESF-35-M16-421-4	159,00
90ESF-42-M16-421-5	173,00

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Order-No.	Euro/Piece
91ESF-16-M8-421-2	135,00
91ESF-20-M10-421-3	141,00
91ESF-25-M12-421-3	147,00
91ESF-35-M16-421-4	159,00
91ESF-42-M16-421-5	173,00

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Order-No.	Euro/Piece
90PP-052-422-4	206,00
90PP-066-422-5	245,00
90PP-080-422-6	293,00



Order-No.	Euro/Piece
90ESF-25-M12-422-2	156,00
90ESF-35-M16-422-3	167,00
90ESF-42-M16-422-3	180,00
90ESF-42-M16-422-4	192,00

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Order-No.	Euro/Piece
91PP-052-422-4	206,00
91PP-066-422-5	245,00
91PP-080-422-6	293,00



Order-No.	Euro/Piece
91ESF-25-M12-422-2	156,00
91ESF-35-M16-422-3	167,00
91ESF-42-M16-422-3	180,00

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Order-No.	Euro/Piece
KSF-14-040-506	103,00
KSF-14-060-506	121,00
KSF-14-080-506	130,00
KSF-18-060-506	103,00
KSF-18-080-506	112,00

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Order-No.	Euro/Piece
KAF-035-508-5	162,00
KAF-042-508-5	175,00
KAF-035-508-6	175,00
KAF-042-508-6	185,00
KAF-042-508-7	209,00

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Order-No.	Euro/Piece
KSF-20-050-508	105,00
KSF-20-080-508	112,00
KSF-25-080-508	112,00

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Order-No.	Euro/Piece
KEF-16-28-M8-508-2	97,00
KEF-18-28-M8-508-2	99,00
KEF-20-28-M10-508-2	101,00
KEF-25-28-M12-508-4	164,00
KEF-30-28-M16-508-5	184,00
KEF-35-28-M16-508-6	204,00
KEF-42-28-M16-508-7	212,00
KEF-20-28-M10-508-3	115,00

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Order-No.	Euro/Piece
KAF-042-510-5	177,00
KAF-052-510-6	226,00
KAF-042-510-6	188,00
KAF-052-510-7	240,00

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Order-No.	Euro/Piece
KSF-25-050-510	107,00
KSF-25-080-510	113,00
KSF-25-115-510	116,00

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Order-No.	Euro/Piece
KEF-20-28-M10-510-2	107,00
KEF-25-32-M12-510-2	111,00
KEF-30-32-M16-510-4	145,00
KEF-35-42-M16-510-5	182,00
KEF-42-42-M16-510-5	196,00
KEF-25-32-M12-510-3	113,00
KEF-42-42-M16-510-6	204,00

Fräser für den Werkzeug- und Formenbau

Milling cutters for tool and die production, Fraises pour l'outillage et le moule,
Frese per la costruzione d'utensili e per stampi

Catalogue 2011 Page 178-179



Order-No.	Euro/Piece
KAF-052-512-4	199,00
KAF-066-512-5	213,00
KAF-080-512-7	247,00
KAF-042-512-4	171,00
KAF-052-512-5	212,00
KAF-066-512-6	224,00



Order-No.	Euro/Piece
KEF-24-32-M12-512-2	113,00
KEF-25-32-M12-512-2	115,00
KEF-32-42-M16-512-3	120,00
KEF-35-42-M16-512-3	141,00
KEF-42-42-M16-512-4	192,00
KEF-52-42-M16-512-5	217,00
KEF-35-42-M16-512-4	159,00

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Order-No.	Euro/Piece
KAF-080-516-5	245,00
KAF-100-516-6	296,00
KAF-125-516-8	405,00
KAF-160-516-10	555,00
KAF-052-516-5	237,00
KAF-066-516-5	238,00
KAF-080-516-6	260,00
KAF-100-516-7	311,00



Order-No.	Euro/Piece
KEF-32-42-M16-516-2	142,00
KEF-35-42-M16-516-2	142,00
KEF-42-42-M16-516-3	177,00

Fräser für Hochvorschubfräsen

High feed milling cutters, Fraises grande avance, Frese a forte avanzamento

Catalogue 2011 Page 188



Order-No.	Euro/Piece
00PP-040-540-4	256,00
00PP-042-540-4	262,00
00PP-050-540-4	302,00
00PP-052-540-4	307,00
00PP-063-540-5	338,00
00PP-066-540-5	344,00
00PP-050-540-5	309,00
00PP-052-540-5	314,00
00PP-063-540-7	356,00
00PP-066-540-7	377,00

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Order-No.	Euro/Piece
00PP-20-540-2-80	183,00
00PP-22-540-2-80	188,00
00PP-25-540-3-80	193,00
00PP-25-540-3-125	197,00
00PP-32-540-3-80	197,00
00PP-32-540-3-125	202,00
00PP-40-540-4-80	226,00
00PP-40-540-4-125	231,00



Order-No.	Euro/Piece
00PP-20-540-2-160	193,00
00PP-22-540-2-160	197,00
00PP-25-540-3-170	202,00
00PP-32-540-3-195	207,00
00PP-40-540-4-195	237,00

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Order-No.	Euro/Piece
ESF-20-M10-540-2	166,00
ESF-22-M10-540-2	170,00
ESF-25-M12-540-3	188,00
ESF-32-M16-540-3	191,00
ESF-35-M16-540-3	195,00
ESF-40-M16-540-4	212,00
ESF-42-M16-540-4	216,00
ESF-32-M16-540-4	203,00
ESF-35-M16-540-4	207,00
ESF-40-M16-540-5	224,00
ESF-42-M16-540-5	228,00

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Order-No.	Euro/Piece
00PP-050-545-4	302,00
00PP-052-545-4	307,00
00PP-063-545-5	338,00
00PP-066-545-5	344,00
00PP-080-545-5	367,00
00PP-100-545-6	417,00
00PP-125-545-7	488,00
00PP-160-545-8	574,00
00PP-052-545-5	314,00
00PP-063-545-6	356,00
00PP-066-545-6	377,00
00PP-080-545-6	388,00

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Order-No.	Euro/Piece
ESF-32-M16-545-3	203,00
ESF-35-M16-545-3	207,00
ESF-40-M16-545-4	224,00
ESF-42-M16-545-4	228,00

Spezialfräser

Special milling cutters, Fraises spéciales, Frese speciali

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Order-No.	Euro/Piece
VS 90-M6-65	107,00
VS 90-M8-65	111,00
VS 90-M10-65	124,00

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Order-No.	Euro/Piece
VS 90-M12-84	142,00
VS 90-M16-84	163,00
VS 90-M20-84	179,00
VS 90-M24-84	188,00

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Order-No.	Euro/Piece
90TN-21-09-65-2	257,00
90TN-25-11-65-2	264,00

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Order-No.	Euro/Piece
90TN-32-14-328-2	309,00
90TN-40-16-328-2	317,00
90TN-50-21-328-2	378,00

Scheibenfräser

Side milling cutter, Fraise 3 tailles, Fresa a disco

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Order-No.	Euro/Piece
SF 063-04-4	460,00
SF 063-05-4	460,00
SF 063-06-4	460,00
SF 080-04-5	541,00
SF 080-05-5	541,00
SF 080-06-5	541,00
SF 080-07-4	541,00
SF 080-08-4	541,00
SF 080-09-4	541,00
SF 100-04-7	601,00
SF 100-05-7	601,00
SF 100-06-7	601,00
SF 100-07-5	601,00
SF 100-08-5	601,00
SF 100-09-5	601,00
SF 125-04-9	798,00
SF 125-05-9	798,00
SF 125-06-9	798,00
SF 125-07-6	798,00
SF 125-08-6	798,00
SF 125-09-6	798,00
SF 160-04-11	911,00
SF 160-05-11	911,00
SF 160-06-11	911,00
SF 160-07-8	911,00
SF 160-08-8	911,00
SF 160-09-8	911,00
SF 200-07-10	1152,00
SF 200-08-10	1152,00
SF 200-09-10	1152,00
SF 250-08-12	1414,00
SF 250-09-12	1414,00

Catalogue 2011 Page 209



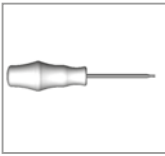
Order-No.	Euro/Piece
SFA 063-04-4	516,00
SFA 063-05-4	516,00
SFA 063-06-4	516,00
SFA 080-04-5	586,00
SFA 080-05-5	586,00
SFA 080-06-5	586,00
SFA 080-07-4	586,00
SFA 080-08-4	586,00
SFA 080-09-4	586,00
SFA 100-04-7	675,00
SFA 100-05-7	675,00
SFA 100-06-7	675,00
SFA 100-07-5	675,00
SFA 100-08-5	675,00
SFA 100-09-5	675,00
SFA 125-04-9	890,00
SFA 125-05-9	890,00
SFA 125-06-9	890,00
SFA 125-07-6	890,00
SFA 125-08-6	890,00
SFA 125-09-6	890,00
SFA 160-05-11	1014,00
SFA 160-06-11	1014,00
SFA 160-07-8	1014,00
SFA 160-08-8	1014,00
SFA 160-09-8	1014,00

Ersatzteile

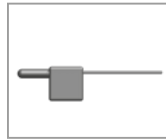
Spare parts, Pièce de rechange, Parti di ricambio

Schraubendreher

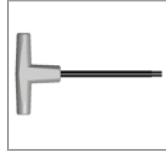
Screwdriver, Tournevis, Cacciavite



Order-No.	Euro/Piece
T 08	8,40
T 09	8,40
T 15	8,40
T 20	9,50
T 20-K	18,90
T 25	11,60
T08S	16,80
T09S	16,80
T15S	16,80
T20S	16,80
T 08+	13,20



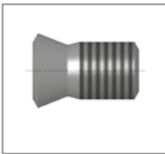
Order-No.	Euro/Piece
T 06+	7,00



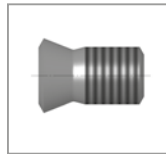
Order-No.	Euro/Piece
SW-3	6,30
SW-3,5	6,30
SW-4	6,30
SW-5	6,30

Spannschraube

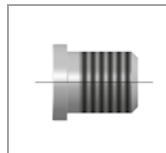
Fixing Screw, Vis de serrage, Vite di fissaggio



Order-No.	Euro/Piece
SS 1,8-1	1,60
SS 1,8-2	1,60
SS 2,5-1	1,40
SS 2,5-2	1,40
SS 2,5-6	1,40
SS 2,5-7	1,40
SS 3,0-1	1,40
SS 3,0-2	1,40
SS 3,5-2	1,40
SS 4,0-1	1,40
SS 4,0-2	1,80
SS 4,0-3	1,80
SS 4,5-1	1,40
SS 5,0-1	1,50
SS 5,0-2	1,50
SS 5,0-3	1,50
SS 5,0-4	1,90
SS 6,0-1	2,85



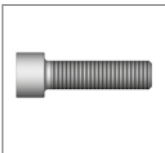
Order-No.	Euro/Piece
SS 2,5-1+4	1,40
SS 2,5-1+5	1,40
SS 2,5-1+6	1,40
SS 4,0-1+7	1,40
SS 4,0-1+8	1,40
SS 4,0-1+9	1,40



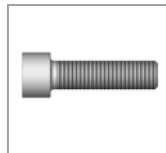
Order-No.	Euro/Piece
SS 5-3,5-7	2,10

Mittenschraube

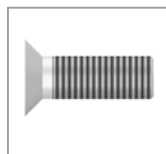
Central screw, Vis centrale, Vite centrale di fissaggio



Order-No.	Euro/Piece
MS-8x20-912	4,50
MS-8x25-912	4,50
MS-8x30-912-S	6,30
MS-8x30-912	4,50
MS-8x40-912	4,50
MS-8x50-912	4,50
MS-10x25-912	4,70
MS-10x30-912	4,70
MS-10x35-912	4,70
MS-10x45-912	4,70
MS-10x50-912	4,70
MS-10x65-912	4,70
MS-12x25-912	5,30
MS-12x30-912	5,30
MS-12x35-912	5,30
MS-12x50-912	5,30
MS-12x60-912	5,30
MS-12x65-912	5,30
MS-12x75-912	5,30
MS-16x30-912	6,10
MS-16x45-912	6,10
MS-16x50-912	6,10
MS-16x60-912	6,10
MS-16x70-912	6,10
MS-20x35-912	7,20
MS-20x40-912	7,20



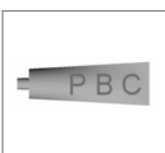
Order-No.	Euro/Piece
MS-10x25-6912	4,70
MS-16x30-6912	5,80
MS-16x35-6912	5,80



Order-No.	Euro/Piece
MS-12x30-7991	8,30
MS-16x35-7991	8,80
MS-20x35-7991	9,90
MS-20x40-7991	9,90
MS-20x45-7991	9,90
MS-20x50-7991	9,90
MS-20x55-7991	9,90
MS-20x60-7991	9,90

Fett

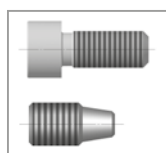
Grease, Graisse, Grasso



Order-No.	Euro/Piece
Fett 100gr.	12,20

Kassettschraube

Cassette screw, Vis pour cassettes, Vite di fissaggio porta inserti

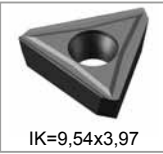


Order-No.	Euro/Piece
KS-5x10	3,40
KS-5x14	3,40
KS-6x14	3,40
VS-5	5,60
VS-6	4,30

81 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 56



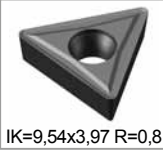
IK=9,54x3,97

Order-No.	Euro/Piece
FP 81 HT50	8,60
FP 81 Ti20	8,95

82 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

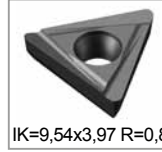
Catalogue 2011 Page 113



IK=9,54x3,97 R=0,8

Order-No.	Euro/Piece
FP 82 HT50	7,65
FP 82 Ti20	7,95

Catalogue 2011 Page 113



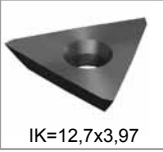
IK=9,54x3,97 R=0,8

Order-No.	Euro/Piece
FP 82 A HS20	9,35

83 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 9



IK=12,7x3,97

Order-No.	Euro/Piece
FP 83 K15M	11,60
FP 83 AL10	13,75
FP 83 KD16	33,50

84 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

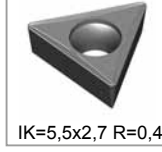
Catalogue 2011 Page 115, 201



IK=5,5x2,7 R=0,4

Order-No.	Euro/Piece
FP 84 HT50	6,25
FP 84 Ti20	6,45

Catalogue 2011 Page 115, 201



IK=5,5x2,7 R=0,4

Order-No.	Euro/Piece
FP 84 A HT50	7,15
FP 84 A Ti20	7,15

85 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 11, 57



IK=9,0x3,4 R=0,3

Order-No.	Euro/Piece
FP 85 K15M	9,50
FP 85 AL10	12,25
FP 85 KD16	32,10

252 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 17, 61, 91



ø12,7 x 4,76

Order-No.	Euro/Piece
FP 257 HT45	6,90
FP 257 HT50	6,90

Catalogue 2011 Page 17, 61, 91



ø12,7 x 4,76

Order-No.	Euro/Piece
FP 253 HT35	8,65

Catalogue 2011 Page 17, 61, 91



ø12,7 x 4,76

Order-No.	Euro/Piece
FP 252 HT45	7,35
FP 252 HT50	7,35
FP 252 Ti20	7,55

506 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 169



ø6 x 2,38

Order-No.	Euro/Piece
FP 606 TA50	5,35

508 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 173



ø8 x 3,18

Order-No.	Euro/Piece
FP 408 HT45	5,60
FP 408 HT50	5,60
FP 408 KT25	5,60

Catalogue 2011 Page 173



ø8 x 3,18

Order-No.	Euro/Piece
FP 708 KT05	8,25

Catalogue 2011 Page 173



ø8 x 3,18

Order-No.	Euro/Piece
FP 508 TA50	5,60

Catalogue 2011 Page 173



ø8 x 3,18

Order-No.	Euro/Piece
FP 808 HT50	8,00
FP 808 HT35	8,00
FP 808 K15M	7,35

Catalogue 2011 Page 173



ø8 x 3,18

Order-No.	Euro/Piece
FP 608 TA50	5,60

510 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 177



ø10 x 3,97

Order-No.	Euro/Piece
FP 410 HT45	6,25
FP 410 HT50	6,25
FP 410 KT25	6,25

Catalogue 2011 Page 177



ø10 x 3,97

Order-No.	Euro/Piece
FP 510 TA50	6,15

Catalogue 2011 Page 177



ø10 x 3,97

Order-No.	Euro/Piece
FP 610 HT45	6,30

Catalogue 2011 Page 177



ø10 x 3,97

Order-No.	Euro/Piece
FP 710 KT05	8,70

Catalogue 2011 Page 177



ø10 x 3,97

Order-No.	Euro/Piece
FP 810 HT50	8,35
FP 810 HT35	8,35
FP 810 K15M	7,65

512 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 180



ø12 x 4,76

Order-No.	Euro/Piece
FP 412 HT45	6,65
FP 412 HT50	6,65
FP 412 KT25	6,65

Catalogue 2011 Page 180



ø12 x 4,76

Order-No.	Euro/Piece
FP 512 TA50	6,65

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ø12 x 4,76

Order-No.	Euro/Piece
FP 612 HT45	7,05
FP 612 TA50	8,20

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ø12 x 4,76

Order-No.	Euro/Piece
FP 712 KT05	9,85

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ø12 x 4,76

Order-No.	Euro/Piece
FP 812 HT50	10,10
FP 812 HT35	10,10
FP 812 K15M	9,45

516 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 184



ø16 x 5,0

Order-No.	Euro/Piece
FP 416 HT45	8,05
FP 416 HT50	8,05
FP 416 KT25	8,05

Catalogue 2011 Page 184



ø16 x 5,0

Order-No.	Euro/Piece
FP 516 TA50	8,05

Catalogue 2011 Page 184



ø16 x 5,0

Order-No.	Euro/Piece
FP 616 TA50	8,45

Catalogue 2011 Page 180



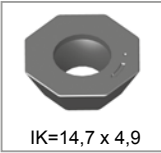
ø16 x 5,0

Order-No.	Euro/Piece
FP 816 HT50	11,05
FP 816 HT35	11,05
FP 816 K15M	10,00

525 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

Catalogue 2011 Page 19, 93



IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 520 HT50	8,70
FP 520 KT28	8,70

Catalogue 2011 Page 19, 93



IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 521 HT50	10,50
FP 521 KT28	10,50

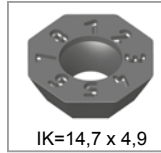
Catalogue 2011 Page 19, 93



IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 525 HT45	9,25
FP 525 HT50	9,25
FP 525 KT28	9,25

Catalogue 2011 Page 19, 93



IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 526 HT45	11,15
FP 526 HT50	11,15
FP 526 KT28	11,15

Catalogue 2011 Page 19, 93



IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 528 HT35	11,15
FP 528 K15M	8,85
FP 528 AL10	11,15

Catalogue 2011 Page 19, 93



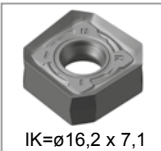
IK=14,7 x 4,9

Order-No.	Euro/Piece
FP 529 HT50	11,20
FP 529 HT32	11,20
FP 529 HT30	11,20

554 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

Catalogue 2011 Page 21



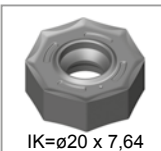
IK=ø16,2 x 7,1

Order-No.	Euro/Piece
FP 554 HT45	14,80
FP 554 HT32	14,80
FP 554 HT20	14,80

558 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

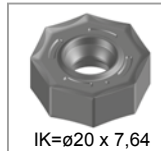
Catalogue 2011 Page 23



IK=ø20 x 7,64

Order-No.	Euro/Piece
FP 558 HT45	13,35
FP 558 HT50	13,35
FP 558 KT28	13,35

Catalogue 2011 Page 23



IK=ø20 x 7,64

Order-No.	Euro/Piece
FP 858 HT45	17,75
FP 858 HT32	17,75
FP 858 HT20	17,75

853 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

Catalogue -NEW-



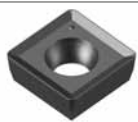
IK ø13,0 x 7,8 R0,8

Order-No.	Euro/Piece
FP 853 HT45	15,70
FP 853 HT32	15,70
FP 853 HT20	15,70

22 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisure, Inserti

Catalogue 2011 Page 37



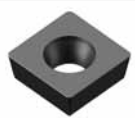
13,0x13,0x5,0 R=1,0

Order-No.	Euro/Piece
FP 22 HT45	7,90
FP 22 HT50	7,90
FP 22 Ti20	8,35

27 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisure, Inserti

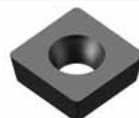
Catalogue 2011 Page 39



12,7x12,7x4,76 R=0,8

Order-No.	Euro/Piece
FP 25 HT50	7,80
FP 25 KT28	8,15

Catalogue 2011 Page 39



12,7x12,7x4,76 R=0,8

Order-No.	Euro/Piece
FP 27 Ti20	10,35
FP 27 HT20	10,00

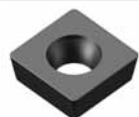
Catalogue 2011 Page 39



12,7x12,7x4,76 R=1,2

Order-No.	Euro/Piece
FP 26 HT45	8,15
FP 26 HT50	8,15
FP 26 HT32	8,60

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12,7x12,7x4,76 R=0,8

Order-No.	Euro/Piece
FP 227 HT50	10,25

34 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisure, Inserti

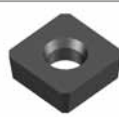
Catalogue 2011 Page 33



12,7x12,7x5,0

Order-No.	Euro/Piece
FP 33 HT50	9,45
FP 33 Ti20	10,00

Catalogue 2011 Page 33



12,6x12,6x4,6

Order-No.	Euro/Piece
FP 233 TA50	10,40
FP 233 HS20	9,05

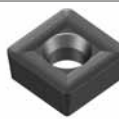
Catalogue 2011 Page 33



12,7x12,7x5,0

Order-No.	Euro/Piece
FP 34 TA50	11,95

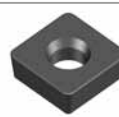
Catalogue 2011 Page 33



12,7x12,7x5,0 R=1,2

Order-No.	Euro/Piece
FP 35 HT50	8,05
FP 35 Ti20	8,55

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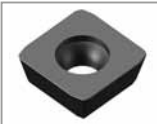
12,6x12,6x4,66 R=1,2

Order-No.	Euro/Piece
FP 35 S HT50	8,85

37 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 35



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 36 HT50	8,65
FP 36 Ti20	9,25
FP 36 HT20	8,75

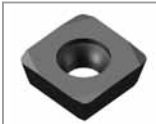
Catalogue 2011 Page 35



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 36 A HS20	8,85

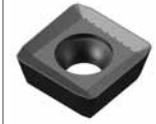
Catalogue 2011 Page 35



12,6x12,6x4,6

Order-No.	Euro/Piece
FP 236 TA50	8,75
FP 236 KT28	8,95

Catalogue 2011 Page 35



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 37 HT50	8,75

113/114 Wendepplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 113 HT45	8,45
FP 113 HT50	8,45
FP 113 HT32	9,15

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 111 HT45	7,95
FP 111 HT50	7,95
FP 111 HT32	8,60

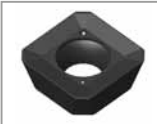
Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 114 HT50	8,45
FP 114 Ti20	9,15

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 112 HT50	7,95

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 115 HT50	8,45
FP 115 Ti20	9,15

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 116 HT50	8,55
FP 116 Ti20	9,40
FP 116 KT28	8,75

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 117 HT50	11,35
FP 117 KT28	11,35
FP 117 CT10	14,00

Catalogue 2011 Page 26



12,7x12,7x4,76

Order-No.	Euro/Piece
FP 215 HT50	10,70
FP 215 HT35	10,70
FP 215 Ti20	11,60
FP 215 HS20	9,55

140 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 140 HT50	8,55
FP 140 HT32	8,55
FP 140 HT30	8,55
FP 140 K15M	7,70

14,3 x 14,3 x 4,0

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 240 HT45	7,60
FP 240 HT32	7,60
FP 240 K15M	6,80

14,3 x 14,3 x 4,0

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 141 HT50	11,75
FP 141 KT28	11,75
FP 141 CT10	17,10

14,3 x 14,3 x 4,0

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 142 HT45	9,05
FP 142 HT50	9,05
FP 142 HT32	9,05
FP 142 KT28	9,05

14,3 x 14,3 x 3,9

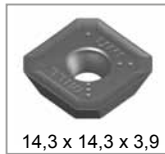
Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 242 HT45	8,10
FP 242 HT32	8,10
FP 242 HT20	8,10

14,3 x 14,3 x 3,9

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 145 HT45	9,05
FP 145 HT50	9,05
FP 145 KT28	9,05

14,3 x 14,3 x 3,9

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 245 HT45	8,10
FP 245 HT20	8,10

14,3 x 14,3 x 3,9

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
FP 146 HT50	10,40
FP 146 HT35	10,40
FP 146 K15M	10,40

14,3 x 14,3 x 3,9

Catalogue -NEW-



Order-No.	Euro/Piece
FP 147 HT20	19,80

14,3 x 14,3 x 3,9

Catalogue 2011 Page 30-B, 31



Order-No.	Euro/Piece
UP 140	5,20

328 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 327 HT45	6,30
FP 327 HT50	6,30
FP 327 HT32	6,70

9,0x9,0x3,97 R=0,6

Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 328 HT45	6,25
FP 328 HT50	6,25
FP 328 HT32	6,60

9,0x9,0x3,97 R=0,6

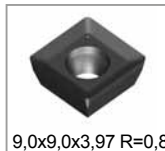
Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 330 Ti20	9,70
FP 330 HS20	7,55

9,0x9,0x3,97 R=0,6

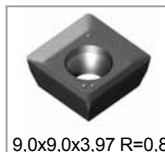
Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 332 HT50	7,90
FP 332 HT35	8,15
FP 332 K15M	7,05

9,0x9,0x3,97 R=0,8

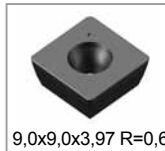
Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 333 HT50	7,50
FP 333 HT35	7,75
FP 333 K15M	6,70

9,0x9,0x3,97 R=0,8

Catalogue 2011 Page 41,65,95,118,127,153,205



Order-No.	Euro/Piece
FP 348 HT20	6,55

9,0x9,0x3,97 R=0,6

329 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 29, 63



9,0x9,0x3,97

Order-No.	Euro/Piece
FP 329 HT45	7,10
FP 329 HT50	7,10
FP 329 HT32	7,50

Catalogue 2011 Page 29, 63



9,0x9,0x3,97

Order-No.	Euro/Piece
FP 331 HT50	7,15

Catalogue 2011 Page 29, 63



9,0x9,0x3,97

Order-No.	Euro/Piece
FP 349 HT20	7,25

42 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 50, 80, 121, 123, 150



15,6x10x3,18 R=0,8

Order-No.	Euro/Piece
FP 41 HT50	7,40

Catalogue 2011 Page 50, 80, 121, 123, 150



15,6x10x3,18 R=0,8

Order-No.	Euro/Piece
FP 41 A TA50	8,95
FP 41 A K15M	8,40

Catalogue 2011 Page 50, 80, 121, 123, 150



15,6x10x3,18 R=0,8

Order-No.	Euro/Piece
FP 42 HT50	9,15
FP 42 Ti20	9,60
FP 42 KT28	9,25

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=1,0

Order-No.	Euro/Piece
FP 42 R1,0 TA50	10,30
FP 42 R1,0 Ti20	10,70

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=1,5

Order-No.	Euro/Piece
FP 42 R1,5 TA50	10,30
FP 42 R1,5 Ti20	10,70

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=2,0

Order-No.	Euro/Piece
FP 42 R2,0 TA50	10,30
FP 42 R2,0 Ti20	10,70

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=2,5

Order-No.	Euro/Piece
FP 42 R2,5 TA50	10,30

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=3,0

Order-No.	Euro/Piece
FP 42 R3,0 TA50	10,30
FP 42 R3,0 Ti20	10,70

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=3,5

Order-No.	Euro/Piece
FP 42 R3,5 TA50	10,30

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=4,0

Order-No.	Euro/Piece
FP 42 R4,0 TA50	10,30
FP 42 R4,0 Ti20	10,70

Catalogue 2011 Page 51, 80, 150



15,6x10x3,18 R=5,0

Order-No.	Euro/Piece
FP 42 R5,0 TA50	10,50
FP 42 R5,0 Ti20	10,70

42 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 51, 80, 150



Order-No.	Euro/Piece
FP 42 R6,0 TA50	10,70

Catalogue 2011 Page 51, 80, 150, 158



Order-No.	Euro/Piece
FP 42 R8,0 TA50	10,70

Catalogue 2011 Page 51, 80, 150, 159



Order-No.	Euro/Piece
FP 42 R10,0 TA50	10,70
FP 42 R10,0 Ti20	10,70

Catalogue 2011 Page 51, 80, 121, 123, 150



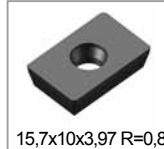
Order-No.	Euro/Piece
FP 42 A HT50	10,10
FP 42 A Ti20	10,60
FP 42 A K15M	9,50

Catalogue 2011 Page 150



Order-No.	Euro/Piece
FP 44 TA50	8,95
FP 44 K15M	7,20

Catalogue 2011 Page 51, 80, 123, 151



Order-No.	Euro/Piece
FP 46 HT50	7,95
FP 46 Ti20	8,35

Catalogue 2011 Page 51, 80, 123, 151



Order-No.	Euro/Piece
FP 47 HT50	7,95
FP 47 Ti20	8,35

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Order-No.	Euro/Piece
FP 48 TA50	8,75
FP 48 Ti20	9,45

49 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 52-B,53,83,106,141



Order-No.	Euro/Piece
FP 49 HT45	9,35
FP 49 HT32	9,35
FP 49 HT20	9,35

Catalogue 2011 Page 52-B,53,83,106,141



Order-No.	Euro/Piece
FP 49 R1,6 HT45	9,35
FP 49 R1,6 HT32	9,35
FP 49 R1,6 HT20	9,35

Catalogue 2011 Page 52-B,53,83,106,141



Order-No.	Euro/Piece
FP 49 R2,0 HT45	9,35
FP 49 R2,0 HT32	9,35
FP 49 R2,0 HT20	9,35

Catalogue 2011 Page 52-B,53,83,106,141



Order-No.	Euro/Piece
FP 49 R3,2 HT45	9,35
FP 49 R3,2 HT32	9,35
FP 49 R3,2 HT20	9,35

Catalogue 2011 Page 52-B,53,83,106,141

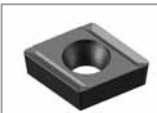


Order-No.	Euro/Piece
FP 249 HT45	12,50
FP 249 HT32	12,50
FP 249 HT20	12,50
FP 249 K15M	13,15

61 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

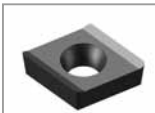
Catalogue 2011 Page 85



6,35x6,35x2,36 R=0,4

Order-No.	Euro/Piece
FP 61 HT50	6,65

Catalogue 2011 Page 85



6,35x6,35x2,36 R=0,4

Order-No.	Euro/Piece
FP 61 A HT50	6,95
FP 61 A K15M	6,30

63 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue -NEW-



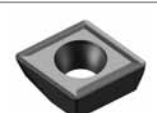
6,82x4,18x5,54 R=0,4

Order-No.	Euro/Piece
FP 63 HT45	7,50
FP 63 HT32	7,50
FP 63 HT20	7,50

65 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 199.203



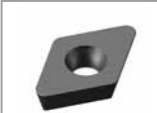
6,35x6,35x2,36 R=0,4

Order-No.	Euro/Piece
FP 65 HT50	6,65
FP 65 Ti20	7,35

421/422 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

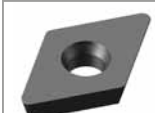
Catalogue 2011 Page 161, 163



7,0x7,0x2,5 R=1,0

Order-No.	Euro/Piece
FP 421 HT50	7,55

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11x11x3,5 R=1,0

Order-No.	Euro/Piece
FP 422 HT50	8,50

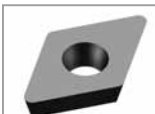
Catalogue 2011 Page 161, 163



7,0x7,0x2,5 R=1,0

Order-No.	Euro/Piece
FP 423 KT05	8,00

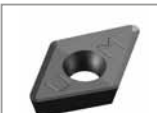
Catalogue 2011 Page 165, 167



11x11x3,5 R=1,0

Order-No.	Euro/Piece
FP 424 KT05	8,85

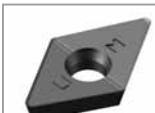
Catalogue 2011 Page 161, 163



7,0x7,0x2,5 R=1,0

Order-No.	Euro/Piece
FP 425 K15M	8,15
FP 425 AL20	10,10

Catalogue 2011 Page 165, 167



11x11x3,5 R=0,8

Order-No.	Euro/Piece
FP 426 K15M	7,90
FP 426 AL20	10,10

429 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

Catalogue 2011 Page 55, 109



27,9x12,7x5,0

Order-No.	Euro/Piece
FP 429 K15M	16,90
FP 429 AL20	17,20

71 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,0x7,0x3,18

Order-No.	Euro/Piece
FP 71 HT50	7,80
FP 71 Ti20	8,25
FP 71 HS20	6,15

Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,0x7,0x3,18

Order-No.	Euro/Piece
FP 71 A Ti20	8,75
FP 71 A HS20	6,90

Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,7x7,0x3,97

Order-No.	Euro/Piece
FP 72 HT50	8,15
FP 72 Ti20	8,50
FP 72 KT28	8,40

Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,0x7,0x3,97

Order-No.	Euro/Piece
FP 72 A HT50	8,65
FP 72 A KD16	26,65

Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,0x7,0x3,18

Order-No.	Euro/Piece
FP 73 HT50	7,90
FP 73 Ti20	8,30

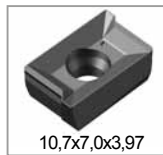
Catalogue 2011 Page 42, 42-B, 68, 98, 130



10,0x7,0x3,18

Order-No.	Euro/Piece
FP 73 A HT35	8,85
FP 73 A Ti20	8,85
FP 73 A HS20	7,05

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10,7x7,0x3,97

Order-No.	Euro/Piece
FP 74 HT50	7,65
FP 74 KT28	7,90

75 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraissage, Inserti

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=1,0

Order-No.	Euro/Piece
FP 75 HT45	8,30
FP 75 HT50	8,30
FP 75 HT32	8,30
FP 75 HT30	8,30
FP 75 KT28	8,30

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,8

Order-No.	Euro/Piece
FP 275 HT45	7,40
FP 275 HT32	7,40
FP 275 HT20	7,40

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,4

Order-No.	Euro/Piece
FP 75 R0,4 HT45	8,30
FP 75 R0,4 HT50	8,30
FP 75 R0,4 HT32	8,30
FP 75 R0,4 HT30	8,30
FP 75 R0,4 KT28	8,30

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,4

Order-No.	Euro/Piece
FP 275 R0,4 HT45	7,40
FP 275 R0,4 HT32	7,40
FP 275 R0,4 HT20	7,40

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,2

Order-No.	Euro/Piece
FP 76 R0,2 K15M	12,10

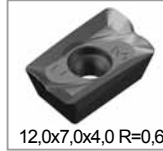
Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,4

Order-No.	Euro/Piece
FP 76 R0,4 HT50	11,45
FP 76 R0,4 HT30	11,45
FP 76 R0,4 KT28	11,45
FP 76 R0,4 K15M	12,10

Catalogue 2011 Page 44-B, 45, 72, 101, 134



12,0x7,0x4,0 R=0,6

Order-No.	Euro/Piece
FP 76 R0,6 HT50	11,45
FP 76 R0,6 HT30	11,45
FP 76 R0,6 KT28	11,45
FP 76 R0,6 K15M	12,10

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12,0x7,0x4,0 R=0,8

Order-No.	Euro/Piece
FP 76 R0,8 HT50	11,45
FP 76 R0,8 HT30	11,45
FP 76 R0,8 KT28	11,45

77 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisure, Inserti

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 77 HT45	7,95
FP 77 HT50	7,95
FP 77 HT32	8,05
FP 77 HS20	6,55

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 277 HT45	8,00
FP 277 HT50	8,00
FP 277 KT28	7,70

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 78 HT45	8,25
FP 78 HT50	8,25
FP 78 HT32	8,35

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 278 HT45	8,35
FP 278 HT50	8,35
FP 278 HS20	6,40

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=2,0

Order-No.	Euro/Piece
FP 278 R2,0 HT50	8,35

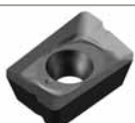
Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=3,0

Order-No.	Euro/Piece
FP 278 R3,0 HT50	8,35

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 79 R0,8 HT45	11,45
FP 79 R0,8 HT50	11,45
FP 79 R0,8 HT32	11,45
FP 79 R0,8 HT30	11,45
FP 79 R0,8 K15M	12,10

Catalogue 2011 Page 48, 76, 104, 138



12,7x8,5x3,9 R=0,8

Order-No.	Euro/Piece
FP 279 HT45	9,25
FP 279 HT50	9,25

540/545 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

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Order-No.	Euro/Piece
FP 540 HT50	7,55
FP 540 KT28	7,70

IK 7,85 x 3,0

Catalogue 2011 Page 191



Order-No.	Euro/Piece
FP 541 HT45	7,20
FP 541 HT32	7,20

IK 7,85 x 3,0

Catalogue 2011 Page 191



Order-No.	Euro/Piece
FP 640 HT45	7,55
FP 640 HT50	7,55
FP 640 HT32	7,55
FP 640 HT30	7,55

IK 7,85 x 3,0

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Order-No.	Euro/Piece
FP 545 HT50	9,35
FP 545 KT28	9,45

IK 12,0 x 5,0

Catalogue 2011 Page 194



Order-No.	Euro/Piece
FP 546 HT45	8,90
FP 546 HT32	8,90

IK 12,0 x 5,0

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Order-No.	Euro/Piece
FP 645 HT45	9,35
FP 645 HT50	9,35
FP 645 HT32	9,35
FP 645 HT30	9,35

IK 7,85 x 3,0

94 Wendeplatten

Tungsten carbide inserts, Plaquettes de fraisage, Inserti

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Order-No.	Euro/Piece
FP 94-R HT50	12,55
FP 94-R KT25	12,80

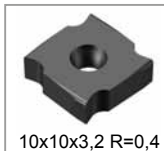
11x11x4,7 R=0,4



Order-No.	Euro/Piece
FP 94-L HT50	12,55
FP 94-L KT25	12,80

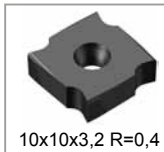
11x11x4,7 R=0,4

Catalogue 2011 Page 210



Order-No.	Euro/Piece
FP 96-R TA50	12,55
FP 96-R KT25	12,80

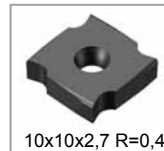
10x10x3,2 R=0,4



Order-No.	Euro/Piece
FP 96-L TA50	12,55
FP 96-L KT25	12,80

10x10x3,2 R=0,4

Catalogue 2011 Page 210



Order-No.	Euro/Piece
FP 97-R TA50	12,55
FP 97-R KT25	12,80

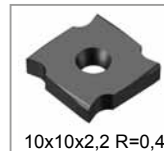
10x10x2,7 R=0,4



Order-No.	Euro/Piece
FP 97-L TA50	12,55
FP 97-L KT25	12,80

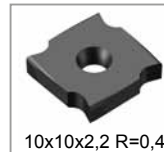
10x10x2,7 R=0,4

Catalogue 2011 Page 210



Order-No.	Euro/Piece
FP 98-R TA50	12,55
FP 98-R KT25	12,80

10x10x2,2 R=0,4



Order-No.	Euro/Piece
FP 98-L TA50	12,55
FP 98-L KT25	12,80

10x10x2,2 R=0,4

Numerisches Wendepaltenverzeichnis

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FP 83	17	FP 412	19		
FP 84	17	FP 416	19		

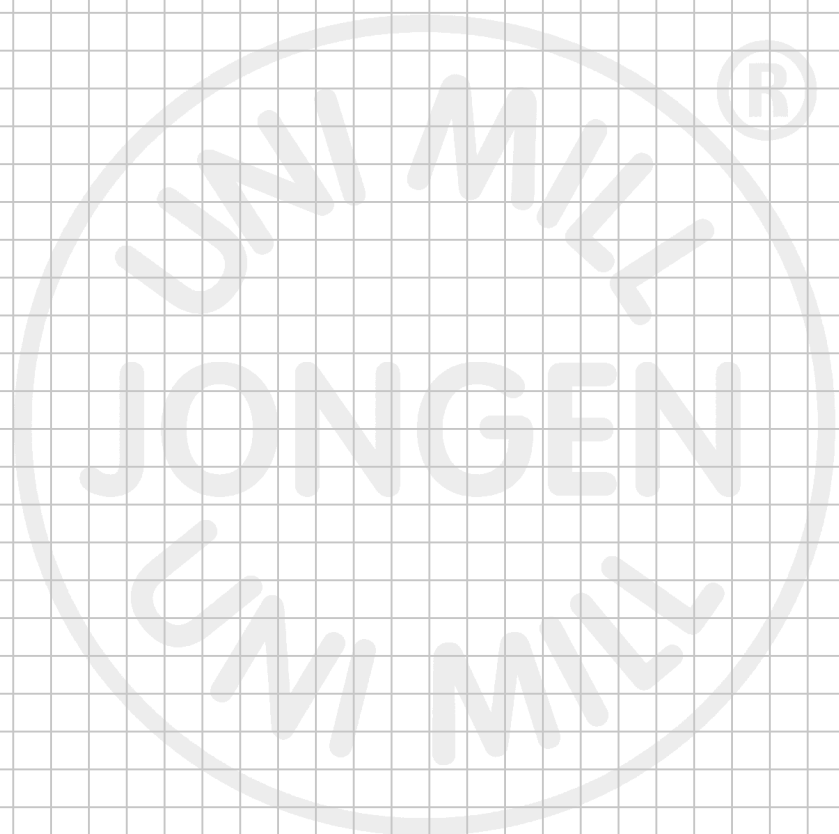
Preise: Die angegebenen Preise sind Nettopreise zzgl. Mehrwertsteuer
 Preisstellung: Ab Lager Willich, ausschl. Fracht und Verpackung
 Zahlungsbedingungen: 10 Tage 2% Skonto, 30 Tage netto
 Mindestbestellwert: 50,00 Euro, bei Unterschreitung wird ein Mindermengenzuschlag von 5,00 Euro erhoben

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Nos prix s'entendent départ usine-hors taxe-emballage en sus- et selon nos conditions générales de vente en vigueur.
I prezzi indicati sono al netto di IVA+spese per trasporto e imballaggio, sono valide le ns. condizioni generali di vendita.

Milling tools ...



... made by JONGEN

107 MK10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 12



Order-No.	Euro/Piece
VHM 107-02 MK10	18,80
VHM 107-03 MK10	18,80
VHM 107-04 MK10	21,60
VHM 107-05 MK10	24,60
VHM 107-06 MK10	28,40
VHM 107-08 MK10	36,60
VHM 107-10 MK10	55,20
VHM 107-12 MK10	73,80

207 MK10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 14



Order-No.	Euro/Piece
VHM 207-03 MK10	19,50
VHM 207-04 MK10	21,50
VHM 207-05 MK10	23,20
VHM 207-06 MK10	25,60
VHM 207-08 MK10	38,60
VHM 207-10 MK10	47,90
VHM 207-12 MK10	60,70
VHM 207-14 MK10	79,80
VHM 207-16 MK10	102,50

209 MK10 Vollhartmetallfräser

Catalogue 2011 Page 16



Order-No.	Euro/Piece
VHM 209-03 MK10	34,80
VHM 209-04 MK10	37,90
VHM 209-05 MK10	39,20
VHM 209-06 MK10	44,50
VHM 209-08 MK10	58,60
VHM 209-10 MK10	75,30
VHM 209-12 MK10	98,30
VHM 209-16 MK10	135,00
VHM 209-20 MK10	183,10

229 MK10 Vollhartmetallfräser

Catalogue 2011 Page 20



Order-No.	Euro/Piece
VHM 229-03 MK10	34,30
VHM 229-04 MK10	37,60
VHM 229-05 MK10	40,20
VHM 229-06 MK10	42,10
VHM 229-08 MK10	53,40
VHM 229-10 MK10	65,90
VHM 229-12 MK10	103,60
VHM 229-16 MK10	144,80
VHM 229-20 MK10	209,40

309 AL05 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 18



Order-No.	Euro/Piece
VHM 309-03 AL05	37,70
VHM 309-04 AL05	37,90
VHM 309-05 AL05	38,30
VHM 309-06 AL05	38,00
VHM 309-08 AL05	47,80
VHM 309-10 AL05	70,00
VHM 309-12 AL05	96,70
VHM 309-16 AL05	170,90
VHM 309-20 AL05	255,80

Catalogue -NEW-



Order-No.	Euro/Piece
VHM 309-03 R03 AL05	39,00
VHM 309-04 R04 AL05	41,40
VHM 309-05 R05 AL05	42,60
VHM 309-06 R05 AL05	44,50
VHM 309-06 R10 AL05	44,50
VHM 309-08 R10 AL05	60,10
VHM 309-10 R10 AL05	77,50
VHM 309-12 R10 AL05	104,30
VHM 309-08 R15 AL05	60,80
VHM 309-10 R15 AL05	77,50
VHM 309-12 R15 AL05	104,30
VHM 309-08 R20 AL05	60,80
VHM 309-10 R20 AL05	77,50
VHM 309-12 R20 AL05	104,30
VHM 309-16 R20 AL05	173,90
VHM 309-20 R20 AL05	253,60
VHM 309-12 R25 AL05	104,30
VHM 309-16 R25 AL05	173,90
VHM 309-20 R25 AL05	253,60
VHM 309-16 R30 AL05	173,90
VHM 309-20 R30 AL05	253,60
VHM 309-16 R40 AL05	173,90
VHM 309-20 R40 AL05	253,60

202(W) Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 24



Order-No.	Euro/Piece
VHM 202-02 Ti10	15,60
VHM 202-03 Ti10	17,30
VHM 202-04 Ti10	19,50
VHM 202-05 Ti10	22,40
VHM 202-06 Ti10	24,40
VHM 202-08 Ti10	35,70
VHM 202-10 Ti10	45,90
VHM 202-12 Ti10	57,00
VHM 202-14 Ti10	69,70
VHM 202-16 Ti10	87,00

Catalogue 2011 Page 24



Order-No.	Euro/Piece
VHM 202W-02 Ti10	31,00
VHM 202W-03 Ti10	30,60
VHM 202W-04 Ti10	30,50
VHM 202W-05 Ti10	30,30
VHM 202W-06 Ti10	28,90
VHM 202W-08 Ti10	39,20
VHM 202W-10 Ti10	48,60
VHM 202W-12 Ti10	63,20
VHM 202W-14 Ti10	74,10
VHM 202W-16 Ti10	94,10
VHM 202W-20 Ti10	152,30

302(W) Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 26



Order-No.	Euro/Piece
VHM 302-02 Ti10	19,50
VHM 302-03 Ti10	20,80
VHM 302-04 Ti10	22,60
VHM 302-05 Ti10	23,90
VHM 302-06 Ti10	31,20
VHM 302-08 Ti10	36,40
VHM 302-10 Ti10	45,90
VHM 302-12 Ti10	56,50
VHM 302-14 Ti10	75,70
VHM 302-16 Ti10	101,50

Catalogue 2011 Page 26



Order-No.	Euro/Piece
VHM 302W-02 Ti10	33,10
VHM 302W-03 Ti10	33,90
VHM 302W-04 Ti10	33,10
VHM 302W-05 Ti10	33,10
VHM 302W-06 Ti10	33,10
VHM 302W-08 Ti10	38,70
VHM 302W-10 Ti10	48,60
VHM 302W-12 Ti10	62,80
VHM 302W-14 Ti10	79,00
VHM 302W-16 Ti10	104,90
VHM 302W-20 Ti10	152,90

402(W) Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 28



Order-No.	Euro/Piece
VHM 402-02 Ti10	19,20
VHM 402-03 Ti10	20,50
VHM 402-04 Ti10	22,20
VHM 402-05 Ti10	23,90
VHM 402-06 Ti10	30,60
VHM 402-08 Ti10	35,70
VHM 402-10 Ti10	43,80
VHM 402-12 Ti10	55,00
VHM 402-14 Ti10	71,20
VHM 402-16 Ti10	90,00

Catalogue 2011 Page 28



Order-No.	Euro/Piece
VHM 402W-02 Ti10	33,70
VHM 402W-03 Ti10	33,90
VHM 402W-04 Ti10	33,00
VHM 402W-05 Ti10	33,00
VHM 402W-06 Ti10	33,00
VHM 402W-08 Ti10	38,00
VHM 402W-10 Ti10	46,50
VHM 402W-12 Ti10	61,40
VHM 402W-14 Ti10	75,90
VHM 402W-16 Ti10	95,30
VHM 402W-20 Ti10	149,90

471W Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 30




Order-No.	Euro/Piece
VHM 471W-06 Ti10	33,60
VHM 471W-08 Ti10	39,50
VHM 471W-10 Ti10	47,00
VHM 471W-12 Ti10	59,30
VHM 471W-16 Ti10	97,00
VHM 471W-20 Ti10	137,40


472W Ti10 / TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 32

	Order-No.	Euro/Piece
	VHM 472W-06 Ti10	33,60
	VHM 472W-08 Ti10	40,50
	VHM 472W-10 Ti10	49,20
	VHM 472W-12 Ti10	62,40
	VHM 472W-16 Ti10	96,00
	VHM 472W-20 Ti10	144,90


Catalogue 2011 Page 34

	Order-No.	Euro/Piece
	VHM 472W-04 TS35	38,60
	VHM 472W-05 TS35	38,40
	VHM 472W-06 TS35	34,40
	VHM 472W-08 TS35	41,90
	VHM 472W-10 TS35	50,20
	VHM 472W-12 TS35	63,50
	VHM 472W-16 TS35	98,30
	VHM 472W-20 TS35	153,60

473W TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro


Catalogue 2011 Page 36

	Order-No.	Euro/Piece
	VHM 473W-04 TS35	42,50
	VHM 473W-05 TS35	42,70
	VHM 473W-06 TS35	36,90
	VHM 473W-08 TS35	44,20
	VHM 473W-10 TS35	53,00
	VHM 473W-12 TS35	67,10
	VHM 473W-16 TS35	106,30
	VHM 473W-20 TS35	161,50


475W Ti10 / TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 38

	Order-No.	Euro/Piece
	VHM 475W-04 Ti10	33,10
	VHM 475W-05 Ti10	32,40
	VHM 475W-06 Ti10	31,80
	VHM 475W-08 Ti10	38,00
	VHM 475W-10 Ti10	51,60
	VHM 475W-12 Ti10	64,60
	VHM 475W-16 Ti10	100,70
	VHM 475W-20 Ti10	149,10


Catalogue 2011 Page 40

	Order-No.	Euro/Piece
	VHM 475W-04 TS35	33,40
	VHM 475W-05 TS35	32,60
	VHM 475W-06 TS35	31,90
	VHM 475W-08 TS35	39,20
	VHM 475W-10 TS35	52,40
	VHM 475W-12 TS35	65,90
	VHM 475W-16 TS35	103,10
	VHM 475W-20 TS35	153,60

476W TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro


Catalogue 2011 Page 42

	Order-No.	Euro/Piece
	VHM 476W-04 TS35	36,80
	VHM 476W-05 TS35	34,30
	VHM 476W-06 TS35	34,30
	VHM 476W-08 TS35	41,70
	VHM 476W-10 TS35	55,20
	VHM 476W-12 TS35	67,40
	VHM 476W-16 TS35	107,30
	VHM 476W-20 TS35	162,80


.46W / .47W TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 44

	Order-No.	Euro/Piece
	VHM 446W-06 TS35	42,40
	VHM 446W-08 TS35	53,30
	VHM 446W-10 TS35	60,90
	VHM 446W-12 TS35	72,90
	VHM 546W-16 TS35	129,50
	VHM 546W-20 TS35	183,90

Catalogue 2011 Page 46

	Order-No.	Euro/Piece
	VHM 447W-06 TS35	53,30
	VHM 447W-08 TS35	64,20
	VHM 447W-10 TS35	75,10
	VHM 447W-12 TS35	89,30
	VHM 547W-16 TS35	151,20
	VHM 547W-20 TS35	216,50

.48W / .49W TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 48



Order-No.	Euro/Piece
VHM 348W-04 TS35	29,60
VHM 348W-05 TS35	30,20
VHM 348W-06 TS35	50,70
VHM 348W-08 TS35	66,80
VHM 348W-10 TS35	80,00
VHM 348W-12 TS35	91,40
VHM 448W-06 TS35	53,60
VHM 448W-08 TS35	60,80
VHM 448W-10 TS35	73,10
VHM 448W-12 TS35	83,20
VHM 448W-16 TS35	134,10
VHM 448W-20 TS35	192,60
VHM 548W-16 TS35	127,90
VHM 548W-20 TS35	180,00

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Order-No.	Euro/Piece
VHM 349W-04 TS35	31,80
VHM 349W-05 TS35	32,80
VHM 349W-06 TS35	52,90
VHM 349W-08 TS35	69,20
VHM 349W-10 TS35	72,30
VHM 349W-12 TS35	86,30
VHM 449W-06 TS35	54,20
VHM 449W-08 TS35	62,60
VHM 449W-10 TS35	74,00
VHM 449W-12 TS35	90,40
VHM 449W-16 TS35	140,50
VHM 449W-20 TS35	201,10
VHM 549W-16 TS35	147,80
VHM 549W-20 TS35	213,60

451 HX63 / HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 56



Order-No.	Euro/Piece
VHM 451-02 HX63	36,80
VHM 451-03 HX63	43,10
VHM 451-04 HX63	42,20
VHM 451-05 HX63	41,60
VHM 451-06 HX63	40,50
VHM 451-07 HX63	48,40
VHM 451-08 HX63	47,70
VHM 451-10 HX63	59,00
VHM 451-12 HX63	80,20
VHM 451-14 HX63	98,60
VHM 451-16 HX63	115,60

Catalogue 2011 Page 58



Order-No.	Euro/Piece
VHM 451-02 HX70	40,60
VHM 451-03 HX70	47,70
VHM 451-04 HX70	45,40
VHM 451-05 HX70	44,00
VHM 451-06 HX70	43,20
VHM 451-07 HX70	58,30
VHM 451-08 HX70	56,30
VHM 451-10 HX70	67,70
VHM 451-12 HX70	85,60
VHM 451-14 HX70	106,10
VHM 451-16 HX70	133,90

643 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue -NEW-



Order-No.	Euro/Piece
VHM 643-06 Ti02	33,00
VHM 643-08 Ti02	45,00
VHM 643-10 Ti02	59,00
VHM 643-12 Ti02	80,00
VHM 643-16 Ti02	140,00
VHM 643-20 Ti02	210,00

.54 HX63 / HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 60



Order-No.	Euro/Piece
VHM 454-03 HX63	40,40
VHM 454-04 HX63	45,60
VHM 454-05 HX63	40,60
VHM 654-06 HX63	44,90
VHM 654-08 HX63	52,30
VHM 654-10 HX63	60,30
VHM 654-12 HX63	88,60
VHM 654-16 HX63	131,80
VHM 854-20 HX63	234,50

Catalogue 2011 Page 62



Order-No.	Euro/Piece
VHM 454-03 HX70	45,40
VHM 454-04 HX70	45,60
VHM 454-05 HX70	46,30
VHM 654-06 HX70	49,80
VHM 654-08 HX70	58,70
VHM 654-10 HX70	68,70
VHM 654-12 HX70	96,10
VHM 654-16 HX70	149,20
VHM 854-20 HX70	283,10

.55 HX63 / HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 64



Order-No.	Euro/Piece
VHM 455-03 HX63	35,80
VHM 455-04 HX63	35,30
VHM 455-05 HX63	34,40
VHM 655-06 HX63	36,00
VHM 655-07 HX63	48,40
VHM 655-08 HX63	45,90
VHM 655-10 HX63	55,20
VHM 655-12 HX63	74,60
VHM 855-14 HX63	91,40
VHM 855-16 HX63	105,60

Catalogue 2011 Page 66



Order-No.	Euro/Piece
VHM 455-03 HX70	39,30
VHM 455-04 HX70	37,00
VHM 455-05 HX70	36,30
VHM 655-06 HX70	40,50
VHM 655-07 HX70	58,50
VHM 655-08 HX70	54,70
VHM 655-10 HX70	63,80
VHM 655-12 HX70	80,00
VHM 855-14 HX70	98,90
VHM 855-16 HX70	124,30

419 / 420 HX56 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 70



Order-No.	Euro/Piece
VHM 419-03 HX56	59,90
VHM 419-04 HX56	59,90
VHM 419-05 HX56	59,90
VHM 419-06 HX56	57,50
VHM 419-08 HX56	68,80
VHM 419-10 HX56	80,30
VHM 419-12 HX56	112,90
VHM 419-16 HX56	162,30

Catalogue 2011 Page 72



Order-No.	Euro/Piece
VHM 420-03 HX56	66,70
VHM 420-04 HX56	66,70
VHM 420-05 HX56	66,70
VHM 420-06 HX56	63,50
VHM 420-08 HX56	79,00
VHM 420-10 HX56	98,40
VHM 420-12 HX56	127,50
VHM 420-16 HX56	202,40

212 / 213 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 74



Order-No.	Euro/Piece
VHM 212-02 R05 HX63	47,10
VHM 212-03 R05 HX63	46,00
VHM 212-04 R05 HX63	45,40
VHM 212-05 R05 HX63	43,50
VHM 212-06 R05 HX63	41,00
VHM 212-08 R05 HX63	49,70
VHM 212-03 R10 HX63	46,00
VHM 212-04 R10 HX63	47,00
VHM 212-05 R10 HX63	43,50
VHM 212-06 R10 HX63	41,00
VHM 212-08 R10 HX63	49,70
VHM 212-10 R10 HX63	65,10
VHM 212-12 R10 HX63	82,80
VHM 212-16 R10 HX63	117,80
VHM 212-08 R15 HX63	49,70
VHM 212-10 R15 HX63	65,10
VHM 212-12 R15 HX63	82,80
VHM 212-16 R15 HX63	117,80
VHM 212-08 R20 HX63	49,70
VHM 212-10 R20 HX63	65,10
VHM 212-12 R20 HX63	82,80

Catalogue 2011 Page 78



Order-No.	Euro/Piece
VHM 213-02 R05 HX63	49,70
VHM 213-03 R05 HX63	47,10
VHM 213-04 R05 HX63	46,00
VHM 213-05 R05 HX63	44,70
VHM 213-06 R05 HX63	43,50
VHM 213-08 R05 HX63	57,50
VHM 213-03 R10 HX63	47,10
VHM 213-04 R10 HX63	46,00
VHM 213-05 R10 HX63	44,70
VHM 213-06 R10 HX63	43,50
VHM 213-08 R10 HX63	57,50
VHM 213-10 R10 HX63	72,30
VHM 213-12 R10 HX63	95,60
VHM 213-16 R10 HX63	149,90
VHM 213-08 R15 HX63	57,50
VHM 213-10 R15 HX63	72,30
VHM 213-14 R15 HX63	122,10
VHM 213-16 R15 HX63	149,90
VHM 213-08 R20 HX63	57,50
VHM 213-10 R20 HX63	72,30
VHM 213-12 R20 HX63	95,60
VHM 213-14 R20 HX63	122,10
VHM 213-16 R20 HX63	149,90

217 / 218 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro, Fresas integrales de metal duro

Catalogue 2011 Page 82



Order-No.	Euro/Piece
VHM 217-02 HX63	40,00
VHM 217-03 HX63	37,80
VHM 217-04 HX63	38,40
VHM 217-05 HX63	38,40
VHM 217-06 HX63	38,40
VHM 217-08 HX63	55,80
VHM 217-10 HX63	64,60
VHM 217-12 HX63	84,10
VHM 217-16 HX63	119,60
VHM 217-02 R05 HX63	40,00
VHM 217-03 R05 HX63	37,80
VHM 217-04 R05 HX63	38,40
VHM 217-05 R05 HX63	38,40
VHM 217-06 R05 HX63	38,40
VHM 217-08 R05 HX63	55,80
VHM 217-10 R05 HX63	64,60
VHM 217-04 R10 HX63	38,40
VHM 217-05 R10 HX63	38,40
VHM 217-06 R10 HX63	38,40
VHM 217-08 R10 HX63	52,10
VHM 217-10 R10 HX63	64,60
VHM 217-12 R10 HX63	84,10
VHM 217-16 R10 HX63	119,60
VHM 217-08 R15 HX63	52,10
VHM 217-10 R15 HX63	64,60
VHM 217-12 R15 HX63	84,10
VHM 217-08 R20 HX63	52,10
VHM 217-10 R20 HX63	64,60
VHM 217-12 R20 HX63	84,10
VHM 217-16 R20 HX63	119,60

Catalogue 2011 Page 86



Order-No.	Euro/Piece
VHM 218-02 HX63	49,80
VHM 218-03 HX63	47,10
VHM 218-04 HX63	47,10
VHM 218-05 HX63	47,10
VHM 218-06 HX63	47,10
VHM 218-08 HX63	60,10
VHM 218-10 HX63	73,20
VHM 218-12 HX63	97,30
VHM 218-16 HX63	168,10
VHM 218-02 R05 HX63	49,80
VHM 218-03 R05 HX63	47,10
VHM 218-04 R05 HX63	47,10
VHM 218-05 R05 HX63	47,10
VHM 218-06 R05 HX63	47,10
VHM 218-08 R05 HX63	60,10
VHM 218-10 R05 HX63	73,20
VHM 218-04 R10 HX63	47,10
VHM 218-05 R10 HX63	47,10
VHM 218-06 R10 HX63	47,10
VHM 218-08 R10 HX63	60,10
VHM 218-10 R10 HX63	73,20
VHM 218-12 R10 HX63	97,30
VHM 218-16 R10 HX63	168,10
VHM 218-08 R15 HX63	60,10
VHM 218-10 R15 HX63	73,20
VHM 218-12 R15 HX63	97,30
VHM 218-08 R20 HX63	60,10
VHM 218-10 R20 HX63	73,20
VHM 218-12 R20 HX63	97,30
VHM 218-16 R20 HX63	168,10

412 / 413 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 90



Order-No.	Euro/Piece
VHM 412-03 R05 HX63	47,10
VHM 412-04 R05 HX63	46,00
VHM 412-05 R05 HX63	44,70
VHM 412-06 R05 HX63	43,50
VHM 412-08 R05 HX63	57,00
VHM 412-10 R05 HX63	73,90
VHM 412-12 R05 HX63	83,40
VHM 412-03 R10 HX63	47,10
VHM 412-04 R10 HX63	46,00
VHM 412-05 R10 HX63	44,70
VHM 412-06 R10 HX63	43,50
VHM 412-08 R10 HX63	57,00
VHM 412-10 R10 HX63	70,40
VHM 412-12 R10 HX63	89,60
VHM 412-16 R10 HX63	133,70
VHM 412-08 R15 HX63	57,00
VHM 412-10 R15 HX63	70,40
VHM 412-12 R15 HX63	89,60
VHM 412-14 R15 HX63	117,90
VHM 412-16 R15 HX63	133,70
VHM 412-08 R20 HX63	57,00
VHM 412-10 R20 HX63	70,40
VHM 412-12 R20 HX63	89,60
VHM 412-14 R20 HX63	117,90
VHM 412-16 R20 HX63	133,70

Catalogue 2011 Page 94



Order-No.	Euro/Piece
VHM 413-03 R05 HX63	48,50
VHM 413-04 R05 HX63	47,10
VHM 413-05 R05 HX63	46,00
VHM 413-06 R05 HX63	44,70
VHM 413-08 R05 HX63	63,30
VHM 413-10 R05 HX63	88,50
VHM 413-12 R05 HX63	95,60
VHM 413-03 R10 HX63	48,50
VHM 413-04 R10 HX63	47,10
VHM 413-05 R10 HX63	46,00
VHM 413-06 R10 HX63	44,70
VHM 413-08 R10 HX63	63,30
VHM 413-10 R10 HX63	78,30
VHM 413-12 R10 HX63	98,10
VHM 413-16 R10 HX63	161,60
VHM 413-08 R15 HX63	63,30
VHM 413-10 R15 HX63	78,30
VHM 413-12 R15 HX63	98,10
VHM 413-16 R15 HX63	161,60
VHM 413-08 R20 HX63	63,30
VHM 413-10 R20 HX63	78,30
VHM 413-12 R20 HX63	98,10
VHM 413-16 R20 HX63	161,60

412 / 413 HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

Catalogue 2011 Page 98



Order-No.	Euro/Piece
VHM 412-03 R05 HX70	50,90
VHM 412-04 R05 HX70	49,70
VHM 412-05 R05 HX70	48,50
VHM 412-06 R05 HX70	47,10
VHM 412-08 R05 HX70	63,30
VHM 412-10 R05 HX70	76,80
VHM 412-12 R05 HX70	94,30
VHM 412-03 R10 HX70	50,90
VHM 412-04 R10 HX70	49,70
VHM 412-05 R10 HX70	48,50
VHM 412-06 R10 HX70	47,10
VHM 412-08 R10 HX70	63,30
VHM 412-10 R10 HX70	78,30
VHM 412-12 R10 HX70	94,40
VHM 412-16 R10 HX70	147,80
VHM 412-08 R15 HX70	63,30
VHM 412-10 R15 HX70	78,30
VHM 412-12 R15 HX70	94,40
VHM 412-14 R15 HX70	120,50
VHM 412-16 R15 HX70	147,80
VHM 412-08 R20 HX70	63,30
VHM 412-10 R20 HX70	78,30
VHM 412-12 R20 HX70	94,40
VHM 412-14 R20 HX70	120,50
VHM 412-16 R20 HX70	147,80

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Order-No.	Euro/Piece
VHM 413-03 R05 HX70	53,40
VHM 413-04 R05 HX70	52,10
VHM 413-05 R05 HX70	50,90
VHM 413-06 R05 HX70	49,70
VHM 413-08 R05 HX70	69,60
VHM 413-10 R05 HX70	96,10
VHM 413-12 R05 HX70	101,70
VHM 413-03 R10 HX70	53,40
VHM 413-04 R10 HX70	52,10
VHM 413-05 R10 HX70	50,90
VHM 413-06 R10 HX70	49,70
VHM 413-08 R10 HX70	69,60
VHM 413-10 R10 HX70	84,50
VHM 413-12 R10 HX70	101,90
VHM 413-16 R10 HX70	178,80
VHM 413-08 R15 HX70	69,60
VHM 413-10 R15 HX70	84,50
VHM 413-12 R15 HX70	101,90
VHM 413-16 R15 HX70	178,80
VHM 413-08 R20 HX70	69,60
VHM 413-10 R20 HX70	84,50
VHM 413-12 R20 HX70	101,90
VHM 413-16 R20 HX70	178,80

417 / 418 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 417-02 R05 HX63	52,30
VHM 417-03 R05 HX63	52,30
VHM 417-04 R05 HX63	51,80
VHM 417-05 R05 HX63	51,20
VHM 417-06 R05 HX63	54,10
VHM 417-08 R05 HX63	59,70
VHM 417-10 R05 HX63	73,40
VHM 417-04 R10 HX63	51,80
VHM 417-05 R10 HX63	51,20
VHM 417-06 R10 HX63	54,10
VHM 417-08 R10 HX63	59,70
VHM 417-10 R10 HX63	73,40
VHM 417-12 R10 HX63	87,70
VHM 417-16 R10 HX63	141,20
VHM 417-08 R15 HX63	59,70
VHM 417-10 R15 HX63	73,40
VHM 417-12 R15 HX63	87,70
VHM 417-08 R20 HX63	59,70
VHM 417-10 R20 HX63	73,40
VHM 417-12 R20 HX63	87,70
VHM 417-16 R20 HX63	141,20

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Order-No.	Euro/Piece
VHM 418-02 R05 HX63	55,90
VHM 418-03 R05 HX63	55,30
VHM 418-04 R05 HX63	54,80
VHM 418-05 R05 HX63	54,30
VHM 418-06 R05 HX63	59,60
VHM 418-08 R05 HX63	69,20
VHM 418-10 R05 HX63	79,60
VHM 418-04 R10 HX63	54,80
VHM 418-05 R10 HX63	54,30
VHM 418-06 R10 HX63	59,60
VHM 418-08 R10 HX63	69,20
VHM 418-10 R10 HX63	79,60
VHM 418-12 R10 HX63	104,00
VHM 418-16 R10 HX63	198,50
VHM 418-08 R15 HX63	69,20
VHM 418-10 R15 HX63	79,60
VHM 418-12 R15 HX63	104,00
VHM 418-08 R20 HX63	69,20
VHM 418-10 R20 HX63	79,60
VHM 418-12 R20 HX63	104,00
VHM 418-16 R20 HX63	198,50

417 / 418 HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 417-02 R05 HX70	52,30
VHM 417-03 R05 HX70	52,30
VHM 417-04 R05 HX70	51,80
VHM 417-05 R05 HX70	51,20
VHM 417-06 R05 HX70	54,10
VHM 417-08 R05 HX70	59,70
VHM 417-10 R05 HX70	73,40
VHM 417-04 R10 HX70	51,80
VHM 417-05 R10 HX70	51,20
VHM 417-06 R10 HX70	54,10
VHM 417-08 R10 HX70	59,70
VHM 417-10 R10 HX70	73,40
VHM 417-12 R10 HX70	87,70
VHM 417-16 R10 HX70	141,20
VHM 417-08 R15 HX70	59,70
VHM 417-10 R15 HX70	73,40
VHM 417-12 R15 HX70	87,70
VHM 417-08 R20 HX70	59,70
VHM 417-10 R20 HX70	73,40
VHM 417-12 R20 HX70	87,70
VHM 417-16 R20 HX70	141,20

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Order-No.	Euro/Piece
VHM 418-02 R05 HX70	55,90
VHM 418-03 R05 HX70	55,30
VHM 418-04 R05 HX70	54,80
VHM 418-05 R05 HX70	54,30
VHM 418-06 R05 HX70	59,60
VHM 418-08 R05 HX70	69,20
VHM 418-10 R05 HX70	79,60
VHM 418-04 R10 HX70	54,80
VHM 418-05 R10 HX70	54,30
VHM 418-06 R10 HX70	59,60
VHM 418-08 R10 HX70	69,20
VHM 418-10 R10 HX70	79,60
VHM 418-12 R10 HX70	104,00
VHM 418-16 R10 HX70	198,50
VHM 418-08 R15 HX70	69,20
VHM 418-10 R15 HX70	79,60
VHM 418-12 R15 HX70	104,00
VHM 418-08 R20 HX70	69,20
VHM 418-10 R20 HX70	79,60
VHM 418-12 R20 HX70	104,00
VHM 418-16 R20 HX70	198,50

476W R TS35 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 476W-04 R04 TS35	39,90
VHM 476W-05 R05 TS35	35,70
VHM 476W-06 R05 TS35	38,90
VHM 476W-06 R10 TS35	38,90
VHM 476W-08 R10 TS35	47,30
VHM 476W-10 R10 TS35	60,90
VHM 476W-12 R10 TS35	74,60
VHM 476W-08 R15 TS35	47,30
VHM 476W-10 R15 TS35	60,90
VHM 476W-12 R15 TS35	74,60
VHM 476W-08 R20 TS35	47,30
VHM 476W-10 R20 TS35	60,90
VHM 476W-12 R20 TS35	74,60
VHM 476W-16 R20 TS35	114,50
VHM 476W-20 R20 TS35	167,00
VHM 476W-12 R25 TS35	74,60
VHM 476W-16 R25 TS35	114,50
VHM 476W-20 R25 TS35	167,00
VHM 476W-16 R30 TS35	114,50
VHM 476W-20 R30 TS35	167,00
VHM 476W-16 R40 TS35	114,50
VHM 476W-20 R40 TS35	167,00

222(W) Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 222-02 Ti10	18,20
VHM 222-03 Ti10	20,80
VHM 222-04 Ti10	23,10
VHM 222-05 Ti10	27,40
VHM 222-06 Ti10	31,20
VHM 222-08 Ti10	40,50
VHM 222-10 Ti10	50,80
VHM 222-12 Ti10	63,20
VHM 222-14 Ti10	88,00
VHM 222-16 Ti10	106,90

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Order-No.	Euro/Piece
VHM 222W-02 Ti10	34,90
VHM 222W-03 Ti10	34,90
VHM 222W-04 Ti10	34,90
VHM 222W-05 Ti10	34,90
VHM 222W-06 Ti10	34,90
VHM 222W-08 Ti10	43,40
VHM 222W-10 Ti10	53,40
VHM 222W-12 Ti10	69,50
VHM 222W-14 Ti10	91,10
VHM 222W-16 Ti10	110,30
VHM 222W-20 Ti10	155,20

236 / 237 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 236-02 HX63	47,10
VHM 236-03 HX63	46,00
VHM 236-04 HX63	44,70
VHM 236-05 HX63	43,50
VHM 236-06 HX63	42,40
VHM 236-07 HX63	56,00
VHM 236-08 HX63	53,40
VHM 236-10 HX63	67,20
VHM 236-12 HX63	86,90
VHM 236-16 HX63	118,00

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Order-No.	Euro/Piece
VHM 237-02 HX63	49,70
VHM 237-03 HX63	48,50
VHM 237-04 HX63	47,10
VHM 237-05 HX63	46,00
VHM 237-06 HX63	44,70
VHM 237-07 HX63	64,60
VHM 237-08 HX63	62,10
VHM 237-10 HX63	73,40
VHM 237-12 HX63	98,10
VHM 237-16 HX63	151,50

236 / 237 HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 236-02 HX70	50,90
VHM 236-03 HX70	49,70
VHM 236-04 HX70	48,50
VHM 236-05 HX70	47,10
VHM 236-06 HX70	46,00
VHM 236-07 HX70	65,70
VHM 236-08 HX70	62,10
VHM 236-10 HX70	74,60
VHM 236-12 HX70	91,90
VHM 236-16 HX70	136,60

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Order-No.	Euro/Piece
VHM 237-02 HX70	54,70
VHM 237-03 HX70	53,40
VHM 237-04 HX70	52,10
VHM 237-05 HX70	50,90
VHM 237-06 HX70	49,70
VHM 237-07 HX70	73,40
VHM 237-08 HX70	68,30
VHM 237-10 HX70	81,90
VHM 237-12 HX70	95,60
VHM 237-16 HX70	168,80

238 / 239 HX63 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 238-02 HX63	45,60
VHM 238-03 HX63	43,10
VHM 238-04 HX63	43,40
VHM 238-05 HX63	43,70
VHM 238-06 HX63	47,80
VHM 238-08 HX63	59,90
VHM 238-10 HX63	71,30
VHM 238-12 HX63	92,20
VHM 238-16 HX63	134,00

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Order-No.	Euro/Piece
VHM 239-02 HX63	51,90
VHM 239-03 HX63	46,50
VHM 239-04 HX63	47,30
VHM 239-05 HX63	48,00
VHM 239-06 HX63	51,90
VHM 239-08 HX63	67,00
VHM 239-10 HX63	83,20
VHM 239-12 HX63	103,60
VHM 239-16 HX63	161,20

238 / 239 HX70 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 238-02 HX70	48,70
VHM 238-03 HX70	48,00
VHM 238-04 HX70	45,70
VHM 238-05 HX70	45,30
VHM 238-06 HX70	49,60
VHM 238-08 HX70	62,50
VHM 238-10 HX70	73,70
VHM 238-12 HX70	95,70
VHM 238-16 HX70	139,50

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Order-No.	Euro/Piece
VHM 239-02 HX70	54,10
VHM 239-03 HX70	51,20
VHM 239-04 HX70	49,00
VHM 239-05 HX70	49,80
VHM 239-06 HX70	54,10
VHM 239-08 HX70	70,80
VHM 239-10 HX70	86,40
VHM 239-12 HX70	107,80
VHM 239-16 HX70	168,60

422(W) Ti10 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 422-02 Ti10	27,20
VHM 422-03 Ti10	28,00
VHM 422-04 Ti10	31,90
VHM 422-05 Ti10	32,40
VHM 422-06 Ti10	33,70
VHM 422-08 Ti10	47,00
VHM 422-10 Ti10	62,00
VHM 422-12 Ti10	72,10
VHM 422-14 Ti10	92,30
VHM 422-16 Ti10	110,80

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Order-No.	Euro/Piece
VHM 422W-02 Ti10	41,10
VHM 422W-03 Ti10	41,30
VHM 422W-04 Ti10	41,00
VHM 422W-05 Ti10	40,40
VHM 422W-06 Ti10	38,10
VHM 422W-08 Ti10	50,80
VHM 422W-10 Ti10	65,60
VHM 422W-12 Ti10	76,50
VHM 422W-14 Ti10	96,80
VHM 422W-16 Ti10	116,20
VHM 422W-20 Ti10	171,80

461 Vollhartmetallfräser

Solid carbide cutters, Fraise carbure monobloc, Fresa a candela di metallo duro

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Order-No.	Euro/Piece
VHM 461-04-60 Ti10	21,60
VHM 461-06-60 Ti10	26,30
VHM 461-08-60 Ti10	34,80
VHM 461-10-60 Ti10	43,80
VHM 461-12-60 Ti10	60,30
VHM 461-16-60 Ti10	92,10

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Order-No.	Euro/Piece
VHM 461-04-90 Ti10	21,50
VHM 461-06-90 Ti10	26,10
VHM 461-08-90 Ti10	32,70
VHM 461-10-90 Ti10	40,80
VHM 461-12-90 Ti10	59,00
VHM 461-16-90 Ti10	91,80

Micro-Vollhartmetallfräser

Micro End Mills, VHM Micro-Fraises, VHM Micro

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Order-No.	Jongen-Code	Euro/Piece
MNF-0500-FG-MX70	MNF-2-050-120-012-3-MX70	38,90
MNF-0600-FG-MX70	MNF-2-060-150-015-3-MX70	36,60
MNF-0700-FG-MX70	MNF-2-070-180-018-3-MX70	40,50
MNF-0800-FG-MX70	MNF-2-080-180-018-3-MX70	40,00
MNF-1000-FG-MX70	MNF-2-100-200-020-3-MX70	35,90
MNF-1200-FG-MX70	MNF-2-120-250-025-4-MX70	44,50
MNF-1400-FG-MX70	MNF-2-140-300-030-4-MX70	41,40
MNF-1500-FG-MX70	MNF-2-150-400-040-4-MX70	42,90
MNF-1800-FG-MX70	MNF-2-180-450-045-4-MX70	43,90
MNF-2000-FG-MX70	MNF-2-200-500-050-4-MX70	42,00

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Order-No.	Jongen-Code	Euro/Piece
MKT-0500-HK-MX70	MKT-2-050-035-030-4-R10-MX70	51,80
MKT-0501-LM-MX70	MKT-2-050-035-045-4-R10-MX70	52,50
MKT-0502-NO-MX70	MKT-2-050-035-060-4-R10-MX70	52,10
MKT-0600-HK-MX70	MKT-2-060-040-040-4-R10-MX70	51,10
MKT-0601-LM-MX70	MKT-2-060-040-060-4-R10-MX70	52,10
MKT-0800-HK-MX70	MKT-2-080-050-040-4-R20-MX70	49,80
MKT-0801-LM-MX70	MKT-2-080-050-060-4-R20-MX70	50,70
MKT-1000-HK-MX70	MKT-2-100-080-040-4-R20-MX70	48,00
MKT-1001-LM-MX70	MKT-2-100-080-080-4-R20-MX70	49,80
MKT-1002-NO-MX70	MKT-2-100-080-120-4-R20-MX70	51,70
MKT-1500-HK-MX70	MKT-2-150-135-080-4-R20-MX70	49,40
MKT-1501-LM-MX70	MKT-2-150-135-120-4-R20-MX70	51,20
MKT-1502-NO-MX70	MKT-2-150-135-160-4-R20-MX70	53,20
MKT-2000-HK-MX70	MKT-2-200-170-080-4-R20-MX70	48,40
MKT-2001-LM-MX70	MKT-2-200-170-120-4-R20-MX70	50,50
MKT-2002-NO-MX70	MKT-2-200-170-160-4-R20-MX70	52,40
MKT-2003-PR-MX70	MKT-2-200-170-080-4-R50-MX70	48,40
MKT-2004-ST-MX70	MKT-2-200-170-120-4-R50-MX70	50,50
MKT-2005-VW-MX70	MKT-2-200-170-160-4-R50-MX70	52,40

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Order-No.	Jongen-Code	Euro/Piece
MNK-0500-CD-MX70	MNK-2-050-100-010-3-MX70	49,80
MNK-0600-CD-MX70	MNK-2-060-150-015-3-MX70	45,40
MNK-0800-CD-MX70	MNK-2-080-200-020-3-MX70	46,40
MNK-1000-CD-MX70	MNK-2-100-220-022-3-MX70	45,60
MNK-1200-CD-MX70	MNK-2-120-220-022-3-MX70	49,80
MNK-1500-CD-MX70	MNK-2-150-250-025-3-MX70	42,80
MNK-2000-CD-MX70	MNK-2-200-300-030-3-MX70	43,90

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Order-No.	Jongen-Code	Euro/Piece
MKK-0500-AB-MX70	MKK-2-050-035-030-6-MX70	55,80
MKK-0600-AB-MX70	MKK-2-060-040-040-6-MX70	53,20
MKK-0800-AB-MX70	MKK-2-080-050-050-6-MX70	53,40
MKK-1000-AB-MX70	MKK-2-100-080-060-6-MX70	51,30
MKK-1200-AB-MX70	MKK-2-120-102-080-6-MX70	51,30
MKK-1500-AB-MX70	MKK-2-150-135-080-6-MX70	52,20
MKK-2000-AB-MX70	MKK-2-200-170-100-6-MX70	51,90

Numerisches Vollhartmetallfräserverzeichnis

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