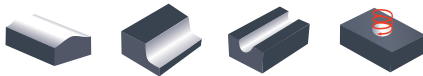


MILLING TOOLS

Profile Milling tool

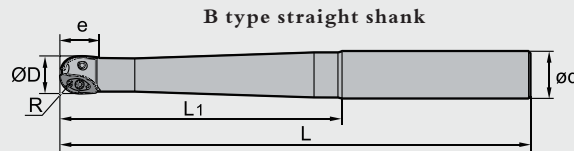
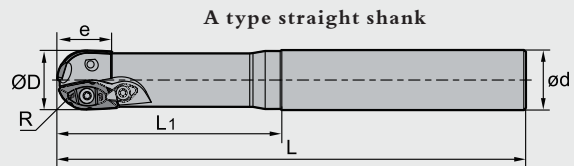


BMR03 P M K

A type (Ø30-Ø40)



B type (Ø16-Ø25)



■ Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)	Type	Block
			R	ØD	ød	L	L ₁	e				
BMR03	-016-G20-S	▲	8	16	20	150	70	16	2	0.3	B	WD-208
	-016-G20-M	▲	8	16	20	180	80	16	2	0.4	B	
	-020-G25-S	▲	10	20	25	180	80	20	2	0.5	B	
	-020-G25-M	▲	10	20	25	200	100	20	2	0.6	B	
	-020-G25-L	▲	10	20	25	250	150	20	2	0.7	B	
	-020-G25-XL	▲	10	20	25	300	110	20	2	1.0	B	
	-025-G25-S	▲	12.5	25	25	180	80	25	2	0.6	B	
	-025-G25-M	▲	12.5	25	25	200	100	25	2	0.7	B	
	-025-G25-L	▲	12.5	25	25	250	110	25	2	0.8	B	
	-025-G25-XL	▲	12.5	25	25	300	120	25	2	1.0	B	
	-030-G32-S	△	15	30	32	200	120	30	2	1.0	A	WD-208
	-030-G32-M	▲	15	30	32	250	150	30	2	1.3	A	
	-030-G32-L	▲	15	30	32	300	200	30	2	1.6	A	
	-030-G32-XL	△	15	30	32	350	200	30	2	1.9	A	
	-032-G32-S	▲	16	32	32	200	120	32	2	1.1	A	
	-032-G32-M	▲	16	32	32	250	150	32	2	1.4	A	
	-032-G32-L	▲	16	32	32	300	200	32	2	1.6	A	
	-032-G32-XL	△	16	32	32	350	200	32	2	2.0	A	
	-040-G40-S	△	20	40	40	200	120	40	2	1.6	A	CBH5R1
	-040-G40-M	▲	20	40	40	250	150	40	2	2.0	A	
	-040-G40-L	▲	20	40	40	300	200	40	2	2.5	A	
	-040-G40-XL	△	20	40	40	350	200	40	2	3.0	A	

▲ Stock △ Order

MILLING TOOLS

Profile Milling tool

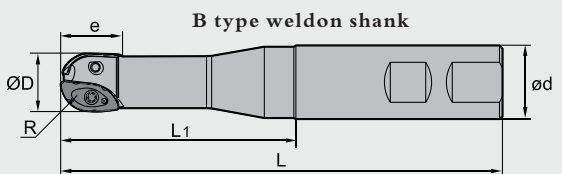
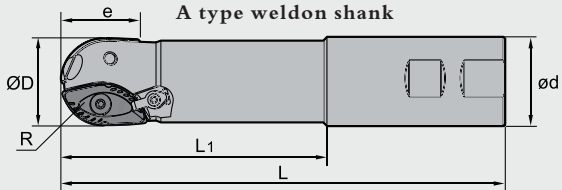
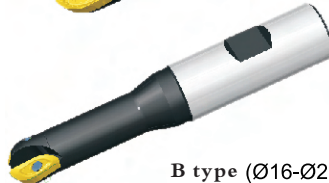


BMR03 P M K

A type Ø30-Ø40



B type (Ø16-Ø25)



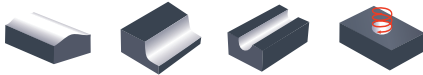
■ Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)	Type	Block
			R	ØD	ød	L	L1	e				
BMR03	-016-XP20-M	▲	8	16	20	111	60	16	2	0.2	B	WD-208
	-020-XP25-M	▲	10	20	25	127	70	20	2	0.3	B	
	-020-XP25-L	▲	10	20	25	150	80	20	2	0.4	B	
	-025-XP25-M	▲	12.5	25	25	137	80	25	2	0.4	B	
	-025-XP25-L	▲	12.5	25	25	200	100	25	2	0.6	B	
	-030-XP32-M	▲	15	30	32	161	100	30	2	0.8	A	WD-208
	-030-XP32-L	▲	15	30	32	250	150	30	2	1.3	A	
	-032-XP32-M	▲	16	32	32	161	100	32	2	0.8	A	
	-032-XP32-L	▲	16	32	32	250	120	32	2	1.3	A	
	-040-XP40-M	▲	20	40	40	175	100	40	2	1.3	A	CBH5R1
	-040-XP40-L	▲	20	40	40	250	120	40	2	2.0	A	
	-050-XP50-M	▲	25	50	50	200	100	50	2	2.5	A	
-050-XP50-L	▲	25	50	50	250	150	50	2	3.1	A		

▲ Stock △ Order

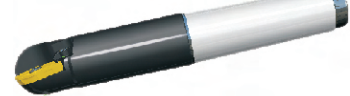
MILLING TOOLS

Profile Milling tool

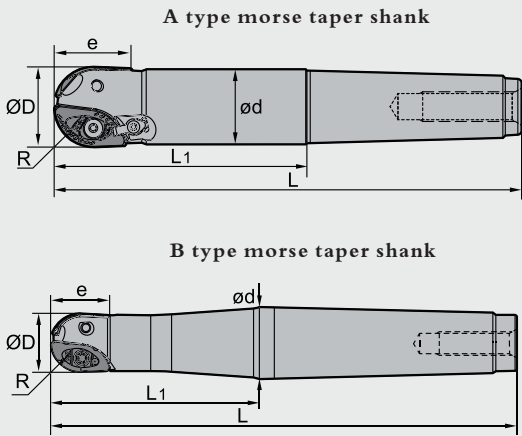


BMR03 P M K

A type (Ø30-Ø40)



B type (Ø16-Ø25)



Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)	Type	Block
			R	ØD	ød	L	L1	e				
BMR03	-020-MT3-M	▲	10	20	18.7	156	70	20	2	0.4	B	WD-208
	-020-MT3-L	△	10	20	18.7	186	100	20	2	0.4	B	
	-025-MT3-M	▲	12.5	25	23.5	156	70	25	2	0.4	B	
	-025-MT3-L	△	12.5	25	23.5	186	100	25	2	0.4	B	
	-030-MT4-M	▲	15	30	28.2	189	70	30	2	0.8	A	
	-030-MT4-L	△	15	30	28.2	229	120	30	2	1.0	A	
	-032-MT4-M	▲	16	32	29.2	179	70	32	2	0.9	A	CBH5R1
	-032-MT4-L	△	16	32	29.2	209	100	32	2	0.9	A	
	-040-MT4-M	▲	20	40	36.9	199	100	40	2	1.0	A	
	-040-MT5-L	▲	20	40	36.9	226	90	40	2	1.8	A	
	-40-MT5-XL	▲	20	40	36.9	256	120	40	2	2.0	A	
	-050-MT5-M	▲	25	50	46.8	236	100	50	2	2.2	A	
-050-MT5-L	▲	25	50	46.8	286	150	50	2	2.9	A		

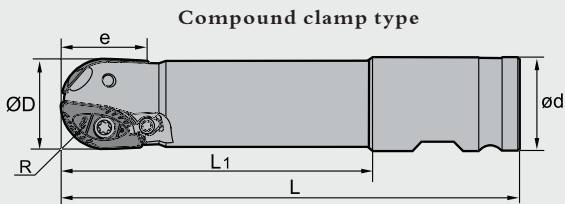
▲ Stock △ Order

MILLING TOOLS

Profile Milling tool



BMR03 P M K



Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)	Block
			R	ØD	ød	L	L ₁	e			
BMR03	-040-XPX-M	▲	20	40	50.8	250	170	40	2	1.3	CBH5R1
	-040-XPX-L	▲	20	40	50.8	300	220	40	2	3.1	
	-040-XPX-XL	▲	20	40	50.8	350	270	40	2	3.5	
	-050-XPX-M	▲	25	50	50.8	250	170	50	2	3.1	
	-050-XPX-L	▲	25	50	50.8	300	200	50	2	3.8	
	-050-XPX-XL	▲	25	50	50.8	350	270	50	2	4.4	

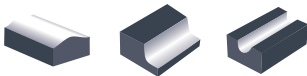
▲ Stock △ Order

Spare Parts

Diameter ØD	Applicable Insert	Inserts	Screw	Wrench
Φ16	XPHT16R803	—	L60M2.5×6.5	T08
Φ20	XPHT20R10T3	—	L60M3.5×08	T15
Φ25	XPHT25R1204	—	L60M4×10	T15
Φ30	XPHT30R1506	WD-208	L60M5×13	T20
Φ32	XPHT32R1606	WD-208	L60M5×13	T20
Φ40	XPHT40R2007	CBH5R1	L43M6×16	T20
Φ50	XPHT50R2507	CBH5R1	L43M8×21 L43M6×16	T30

MILLING TOOLS

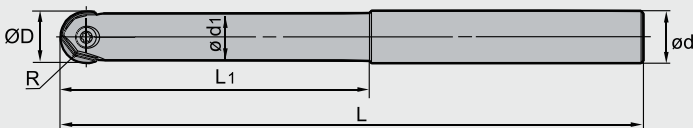
Profile Milling tool



BMR04 P M K



Straight shank and cone neck type



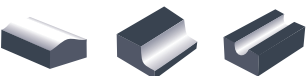
Type of Milling Tools

Type		Stock	Dimension (mm)						Weight (kg)
			R	ØD	ød	ød1	L1	L	
BMR04	-012-G12-M	▲	6	12	12	11	35	125	0.1
	-012-G12-L	△	6	12	12	11	45	150	0.1
	-016-G16-M	▲	8	16	16	14	40	150	0.2
	-016-G16-L	△	8	16	16	14	55	180	0.3
	-020-G20-M	▲	10	20	20	18	65	180	0.4
	-020-G20-L	△	10	20	20	18	100	250	0.6
	-025-G25-M	▲	12.5	25	25	23	70	200	0.7
	-025-G25-L	△	12.5	25	25	23	100	250	0.9
	-030-G32-M	▲	15	30	32	27	80	250	1.2
	-030-G32-L	△	15	30	32	27	110	300	1.5
	-032-G32-M	▲	16	32	32	29	80	250	1.4
	-032-G32-L	△	16	32	32	29	110	300	1.7

▲ Stock △ Order

MILLING TOOLS

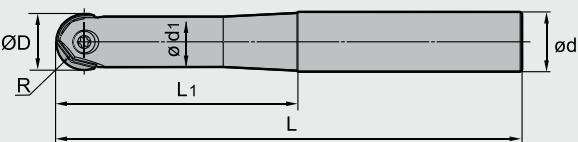
Profile Milling tool



BMR04 P M K



Straight shank and cone neck type



Type of Milling Tools

Type		Stock	Dimension (mm)						Weight (kg)
			R	ØD	ød	ød ₁	L ₁	L	
BMR04	-012-G16-M	▲	6	12	16	11	50	125	0.2
	-012-G16-L	△	6	12	16	11	70	150	0.2
	-016-G20-M	▲	8	16	20	14	60	150	0.3
	-016-G20-L	△	8	16	20	14	80	180	0.3
	-020-G25-M	▲	10	20	25	18	75	180	0.6
	-020-G25-L	△	10	20	25	18	95	200	0.6
	-025-G32-M	▲	12.5	25	32	23	90	200	1.0
	-025-G32-L	△	12.5	25	32	23	110	250	1.3
	-030-G40-M	▲	15	30	40	27	110	250	2.0
	-030-G40-L	△	15	30	40	27	125	300	2.4
	-032-G40-M	▲	16	32	40	29	110	250	2.0
	-032-G40-L	△	16	32	40	29	125	300	2.4

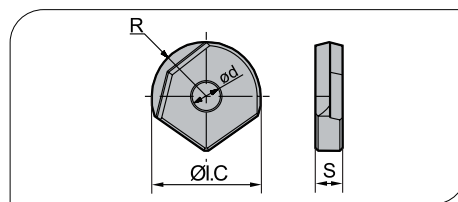
▲ Stock △ Order

MILLING TOOLS

■ Spare Parts

Diameter	Applicable Insert	Screw	Wrench	
				
Ø12	ZOHX1203	L90M4×10TT	T15	—
Ø16	ZOHX1604	L90M5×11TT	T20	—
Ø20	ZOHX2005	L90M5×13.5TT	T20	—
Ø25	ZOHX2506	L70M6×20TT	T20	—
Ø30	ZOHX3007	L70M8×25TT	—	T30S
Ø32	ZOHX3207	L70M8×25TT	—	T30S

Insert selection



		😊 良好工况			😐 一般工况			😞 恶劣工况		
工件材料	P 钢	😊	😊	😐				😊	😐	
	M 不锈钢	😐	😐	😐				😊	😐	
	K 铸铁				😞	😞	😊			
	N 有色金属									😐
	S 耐热合金、钛合金				😊	😐				

Insert shape	Type	Dimension (mm)					CVD coating					PVD coating					Cermet		hard alloy			
		R	LC	S	d	适用刀具ΦD	YBC301	YBM251	YBM351	YBD152	YBD252	YBG102	YBG202	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	ZOHX1203-GF	6	12	3	4	Φ12										★						
	ZOHX1604-GF	8	16	4	5	Φ16										★						
	ZOHX2005-GF	10	20	5	5	Φ20										★						
	ZOHX2506-GF	12.5	25	6	6	Φ25										☆						
	ZOHX3007-GF	15	30	7	8	Φ30										☆						
	ZOHX3207-GF	16	32	7	8	Φ32										☆						
	ZOHX1203-GM	6	12	3	4	Φ12										★						
	ZOHX1604-GM	8	16	4	5	Φ16										★						
	ZOHX2005-GM	10	20	5	5	Φ20										★						
	ZOHX2506-GM	12.5	25	6	6	Φ25										★						
	ZOHX3007-GM	15	30	7	8	Φ30										★						
	ZOHX3207-GM	16	32	7	8	Φ32										★						

MILLING TOOLS

type of tools		Lead angle		Number of Type
FM	Face milling tool	P	90° 	toolholders diameter ØD(mm)
EM	Square-shoulder milling tool	E	75° 	
HM	Helical and face milling tool	D	60° 	Cutter width
SM	Side and face milling tool	A	45° 	
BM	Profile milling tool	R		tools installation position and size
CM	Chamfer milling tool			
XM	Special milling tool			

SM P 03 - 160 × 16 - K40

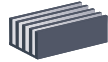
- M P 12 - 12 L

Shape of Blade		Insert Clearance Angle		Cutting Edge Length (mm)							Cutting Direction	
C	80 degrees diamond	N	0°	Insert in circle diameter	Shape of Blade						R: Right	L: Left
D	55 degrees diamond	B	5°		C	D	R	S	T	V		
R	Circle	C	7°	5.556	—	—	—	—	09	—		
S	Square	P	11°	6.350	06	07	—	—	11	—		
T	regular triangle square	D	15°	9.525	09	11	09	09	16	16		
V	35 degrees diamond	E	20°	12.700	12	15	12	12	22	22		
M	86 degrees diamond			15.875	16	19	15	15	27	—		
				19.050	19	—	19	19	33	—		
				25.400	25	—	25	25	44	—		

Tooth

MILLING TOOLS

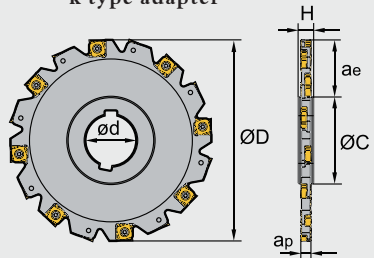
Side and face milling tool



SMP01 P M K



k type adapter



Type of Milling Tools

Type		Stock		Dimension (mm)						Applicable Insert	Tooth Z	Adapter	Weight (kg)
		R	L	ØD	ød	øc	H	ap	aemax				
SMP01	-100×4-K27-SN12-10	△	△	100	27	40.7	12	4	25	XSEQ1202	10	K	0.2
	-125×4-K40-SN12-12	△	△	125	40	50.5	12	4	32		12	K	0.3
	-160×4-K40-SN12-16	△	△	160	40	66.7	12	4	44		16	K	0.5
	-100×5-K27-SN12-10	△	△	100	27	45	12	5	25	XSEQ1203	10	K	0.2
	-125×5-K40-SN12-12	△	△	125	40	58	12	5	31		12	K	0.3
	-160×5-K40-SN12-16	△	△	160	40	68	12	5	44		16	K	0.6
	-100×6-K27-SN12-10	△	△	100	27	45	12	6	25	XSEQ12T3	10	K	0.3
	-125×6-K40-SN12-12	△	△	125	40	58	12	6	31		12	K	0.4
	-160×6-K40-SN12-16	△	△	160	40	68	12	6	44		16	K	0.7
	-200×6-K50-SN12-18	△	△	200	50	67.7	12	6	62		18	K	1.1
	-250×6-K50-SN12-24	△	△	250	50	72	12	6	87		24	K	1.7
	-100×7-K27-SN12-10	△	△	100	27	45	12	7	25	XSEQ1204	10	K	0.3
	-125×7-K40-SN12-12	△	△	125	40	58	12	7	31		12	K	0.4
	-160×7-K40-SN12-16	△	△	160	40	68	12	7	44		16	K	0.8
	-200×7-K50-SN12-18	△	△	200	50	72	12	7	62		18	K	1.2
	-250×7-K50-SN12-24	△	△	250	50	72	12	7	87		24	K	1.9
	-100×8-K27-SN12-10	△	△	100	27	45	12	8	25		10	K	0.3
	-125×8-K40-SN12-12	△	△	125	40	58	12	8	31	XSEQ12T4	12	K	0.5
	-160×8-K40-SN12-16	△	△	160	40	68	12	8	44		16	K	0.9
	-200×8-K50-SN12-18	△	△	200	50	72	12	8	62		18	K	1.4
	-250×8-K50-SN12-24	△	△	250	50	72	12	8	87		24	K	2.2

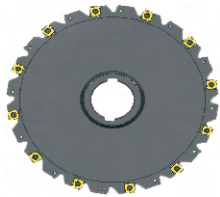
▲ Stock △ Order

MILLING TOOLS

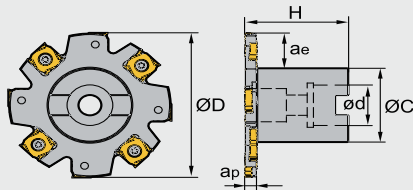
Side and face milling tool



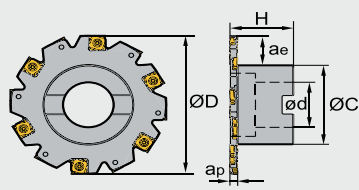
SMP01 P M K



A type of adapter



B type of adapter



Type of Milling Tools

Type		Stock		Dimension (mm)						Applicable Insert	Tooth Z	Adapter	Weight (kg)
		R	L	ØD	ød	øc	H	ap	aemax				
SMP01	-063×4-A22-SN12-06	△	△	63	22	40	50	4	10	XSEQ1202	6	A	0.2
	-080×4-A22-SN12-08	△	△	80	22	40	50	4	18		8	A	0.4
	-100×4-A27-SN12-10	△	△	100	27	48	50	4	23		10	A	0.6
	-063×5-A22-SN12-06	△	△	63	22	40	50	5	10	XSEQ1203	6	A	0.2
	-080×5-A22-SN12-08	△	△	80	22	40	50	5	18		8	A	0.4
	-100×5-A27-SN12-10	△	△	100	27	48	50	5	23		10	A	0.7
	-063×6-A22-SN12-06	△	△	63	22	40	50	6	10	XSEQ12T3	6	A	0.2
	-080×6-A22-SN12-08	△	△	80	22	40	50	6	18		8	A	0.5
	-100×6-A27-SN12-10	△	△	100	27	48	50	6	23		10	A	0.7
	-125×6-B40-SN12-12	△	△	125	40	70	50	6	24		12	B	1.0
	-160×6-B40-SN12-16	△	△	160	40	70	50	6	41		16	B	1.3
	-063×7-A22-SN12-06	△	△	63	22	40	50	7	10	XSEQ1204	6	A	0.2
	-080×7-A22-SN12-08	△	△	80	22	40	50	7	18		8	A	0.5
	-100×7-A27-SN12-10	△	△	100	27	48	50	7	23		10	A	0.7
	-125×7-B40-SN12-12	△	△	125	40	70	50	7	24		12	B	1.1
	-160×7-B40-SN12-16	△	△	160	40	70	50	7	41		16	B	1.4
	-063×8-A22-SN12-06	△	△	63	22	40	50	8	10	XSEQ12T4	6	A	0.2
	-080×8-A22-SN12-08	△	△	80	22	40	50	8	18		8	A	0.5
	-100×8-A27-SN12-10	△	△	100	27	48	50	8	23		10	A	0.8
	-125×8-B40-SN12-12	△	△	125	40	70	50	8	24		12	B	1.1
	-160×8-B40-SN12-16	△	△	160	40	70	50	8	41		16	B	1.5

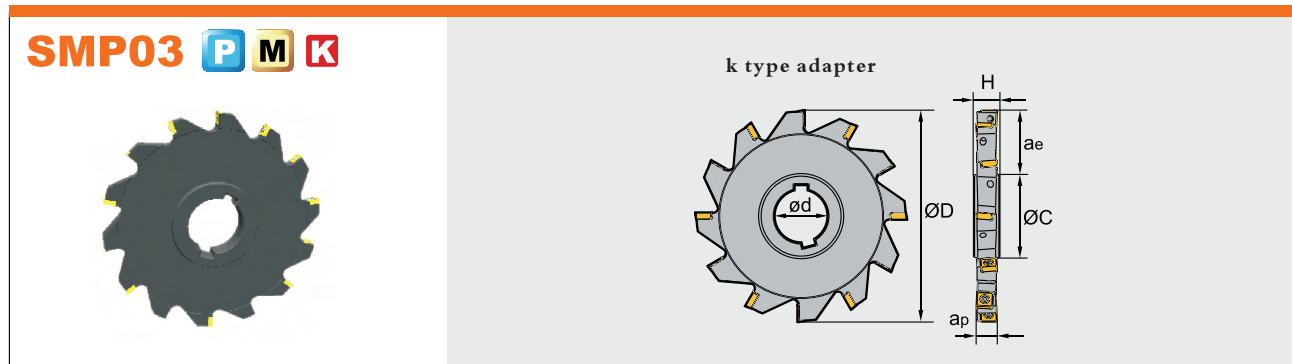
▲ Stock △ Order

Spare Parts

Diameter ØD	Blade width ap	Screw	Wrench
Ø63-Ø160	4	L91M4×3.3X	T10T
Ø63-Ø160	5	L91M4×4.3X	
Ø63-Ø250	6	L91M4×5.3X	
Ø63-Ø250	7	L91M4×6.3X	
Ø63-Ø250	8	L91M4×7.3X	

MILLING TOOLS

Side and face milling tool



Type of Milling Tools

Type		Stock		Dimension (mm)						Applicable Insert	Tooth Z	Adapter	Weight (kg)
		R	L	ØD	øc	ød	a _e max	a _p	H				
SMP03	-080×8-K27-MP06-10	△	△	80	41	27	17	8	12	MPHT060304-DM	10	K	0.2
	-100×8-K32-MP06-14	△	△	100	47	32	25	8	12		14	K	0.3
	-100×10-K32-MP06-14	△	△	100	47	32	25	10	14		14	K	0.4
	-125×10-K40-MP06-16	△	△	125	55	40	34	10	14		16	K	0.6
	-125×12-K40-MP08-12	△	△	125	55	40	34	12	16	MPHT080305-DM	12	K	0.7
	-160×12-K40-MP08-14	△	△	160	62	40	47	12	16		14	K	1.3
	-160×16-K40-MP12-12	△	△	160	62	40	49	16	20	MPHT120408-DM	12	K	1.6
	-160×18-K40-MP12-12	△	△	160	62	40	49	18	24		12	K	1.9
	-160×20-K40-MP12-12	△	△	160	62	40	49	18	26		12	K	2.1
	-200×16-K50-MP12-14	△	△	200	72	50	62	16	20		14	K	2.5
	-200×18-K50-MP12-14	△	△	200	72	50	62	18	24		14	K	2.9
	-200×20-K50-MP12-14	△	△	200	72	50	63	20	26		14	K	3.3

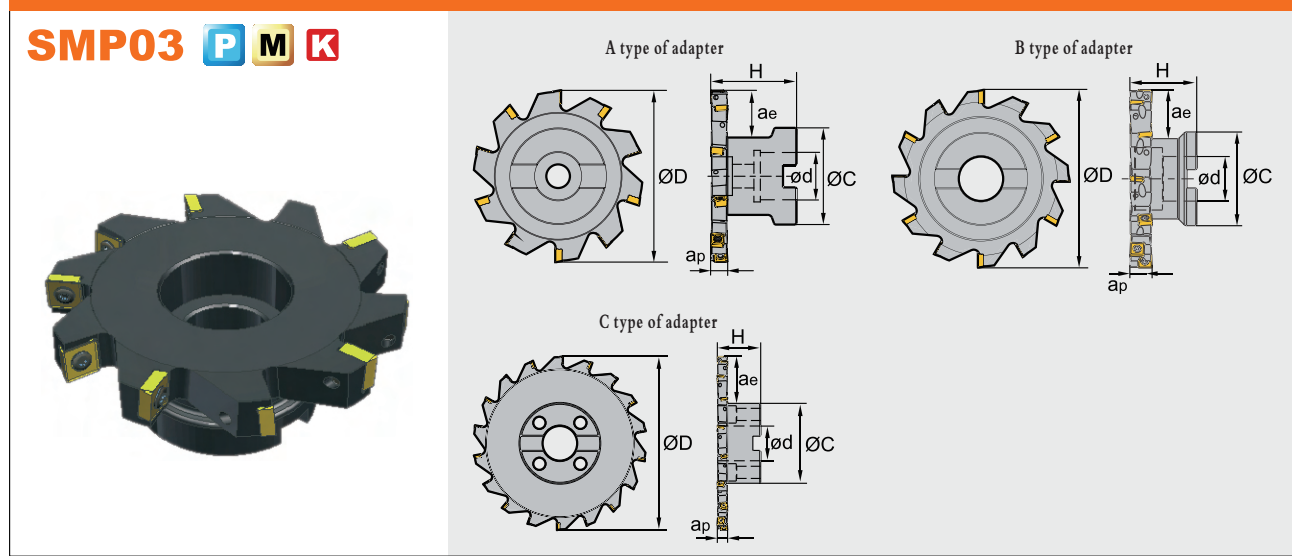
▲ Stock △ Order

Spare Parts

Diameter ØD	Insert	Screw	Wrench
Ø80-Ø125	MPHT0603	L60M2.5x6.5	T08T
Ø125-Ø160	MPHT0803	L60M3x7	T10T
Ø160-Ø200	MPHT1204	L60M5x13	T20T

MILLING TOOLS

Side and face milling tool



Type of Milling Tools

Type		Stock		Dimension (mm)						Applicable Insert	Tooth Z	Adapter	Weight (kg)
		R	L	ØD	øc	ød	ae _{max}	ap	H				
SMP03	-080×8-A22-MP06-10	△	△	80	45	22	21	8	40	MPHT060304-DM	10	A	0.4
	-100×8-B27-MP06-14	△	△	100	55	27	24	8	40		14	B	0.6
	-100×10-B27-MP06-14	△	△	100	55	27	24	10	40		14	B	0.7
	-125×10-B32-MP06-16	△	△	125	65	32	33	10	45		16	B	1.1
	-125×12-B32-MP08-12	△	△	125	65	32	33	12	45	MPHT080305-DM	12	B	1.4
	-160×12-B40-MP08-14	△	△	160	80	40	45	12	50		14	B	1.9
	-200×12-C40-MP08-18	△	△	200	92	40	53	12	50		18	C	3.2
	-125×16-B32-MP12-10	△	△	125	65	32	30	16	50	MPHT120408-DM	10	B	2.3
	-160×16-B40-MP12-12	△	△	160	80	40	45	16	60		12	B	2.3
	-160×18-B40-MP12-12	△	△	160	80	40	45	18	60		12	B	2.4
	-200×16-C40-MP12-14	△	△	200	92	40	53	16	50		14	C	3.6
	-200×18-C40-MP12-14	△	△	200	92	40	53	18	50		14	C	3.9
	-200×20-C40-MP12-14	△	△	200	92	40	53	20	50		14	C	4.2

▲ Stock △ Order

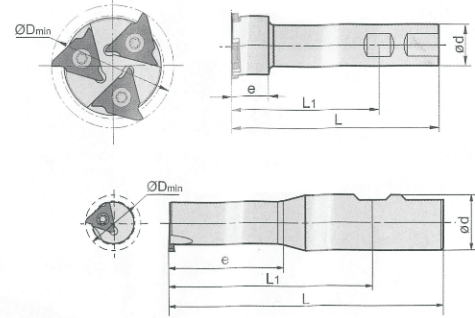
Spare Parts

Diameter ØD	Insert	Screw	Wrench
Ø80-Ø125	MPHT0603	L60M2.5x6.5	T08T
Ø125-Ø200	MPHT0803	L60M3x7	T10T
Ø125-Ø200	MPHT1204	L60M5x13	T20T

MILLING TOOLS

Slot milling tool

SMP05 P M K



Slot milling tool Code Key

Slot milling tool Weldon shank shallow groove blade Tooth

SMP05 - 039×3.0 - XP 25 - QC 16- 03

minimum machining diameter(mm)		maximum cutting width(mm)		diameter of toolholder (mm)		number of cutting edge		incircle diameter(mm)
Number	Diameter	Number	Cutting width	Number	Diameter			
25	25	3.0	3.0	25	25	16		9.525
39	39	4.8	4.8	32	32	22		12.70
44	44							

Type of Milling Tools

Type	Stock	Dimension (mm)					Applicable Insert	Tooth Z	Width
		ØD _{min}	ød	e	L1	L			
SMP05 -025×3.0-XP25-QC16-01	△	25	25	40	89	125	QC16L 050-300	1	0.50-3.0
-039×3.0-XP25-QC16-03	△	39	25	23	89	125	QC16L 050-300	3	0.50-3.00
-044×4.8-XP25-QC22-03	△	44	25	23	89	125	QC22L 100-480	3	1.0-4.8

▲ Stock △ Order

Spare Parts

Diameter ØD	Screw	Wrench
Ø25	L60M3.5x10	T15
Ø39	L60M3.5x10	T15
Ø44	L60M5x13	T20

MILLING TOOLS

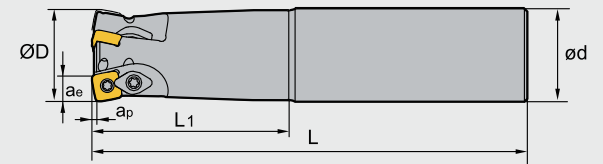
大进给刀具



XMR01 P M K



SDMT insert straight shank type



Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)
			ØD	a _p	a _e	L ₁	L	ød		
XMR01	-025-G25-SD09-02	▲	25	1.4	8.8	60	140	25	2	0.5
	-032-G32-SD09-03	▲	32	1.4	8.8	70	150	32	3	0.8
	-035-G32-SD09-03	▲	35	1.4	8.8	70	150	32	3	0.8
	-032-G32-SD12-02	▲	32	1.8	11.7	70	150	32	2	0.8
	-040-G40-SD12-03	▲	40	1.8	11.7	70	150	40	3	1.3

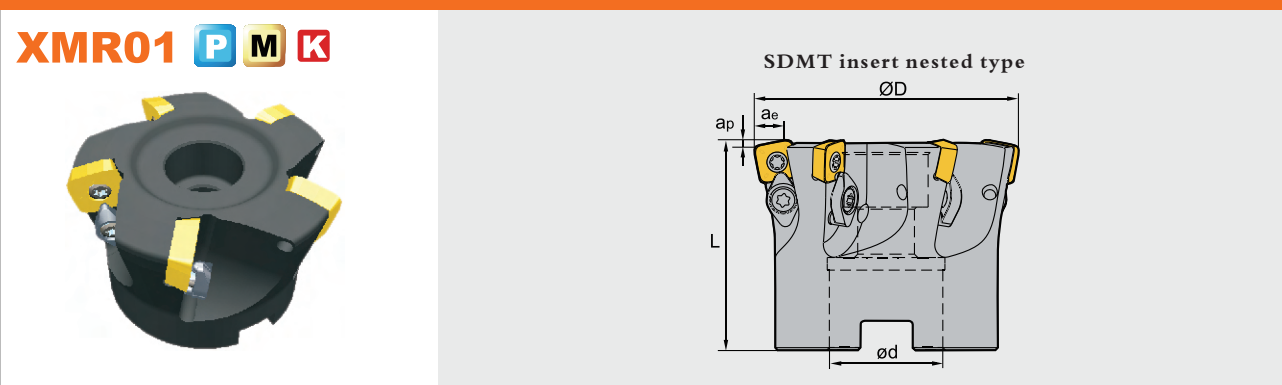
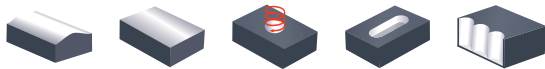
▲ Stock △ Order

Spare Parts

Type	Applicable Insert	Insert Screw	Clamp screw	Clamp	Insert wrench	Clamp wrench
XMR01□□-SD09□□	SDMT09T3	L60M3.5×8	L60M4×8	WD-204	T10	T15
XMR01□□-SD12□□	SDMT1204	L60M4×8			T15	

MILLING TOOLS

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Type of Milling Tools

Type		Stock	Dimension (mm)					Tooth Z	Adapter	Weight (kg)
			ØD	ap	ae	L	ød			
XMR01	-050-A22-SD09-04	▲	50	1.4	8.8	40	22	4	A	0.3
	-063-A22-SD09-06	▲	63	1.4	8.8	40	22	6	A	0.5
	-063-A27-SD09-06	▲	63	1.4	8.8	50	27	6	A	0.6
	-063-A22-SD12-05	▲	63	1.8	11.7	40	22	5	A	0.5
	-063-A27-SD12-05	▲	63	1.8	11.7	50	27	5	A	0.6
	-080-A27-SD12-05	▲	80	1.8	11.7	63	27	5	A	0.9
	-100-B32-SD12-06	▲	100	1.8	11.7	50	32	6	B	1.8

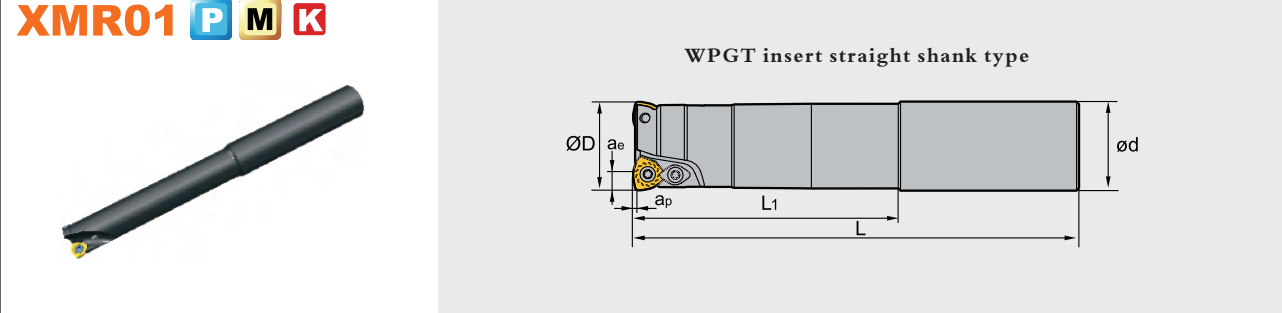
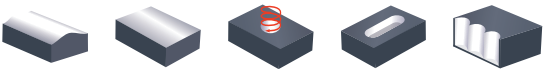
▲ Stock △ Order

Spare Parts

Type	Applicable Insert	Insert Screw	Clamp screw w	Clamp	Insert wrench	Clamp wrench
						
XMR01□□-SD09□□	SDMT09T3	L60M3.5×8	L60M4×8	WD-204	T10	T15
XMR01□□-SD12□□	SDMT1204	L60M4×8			T15	

MILLING TOOLS

大进给刀具



Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Weight (kg)
			ØD	a _p	a _e	L ₁	L	ød		
XMR01	-020-G20-WP05-02-M	△	20	1.5	3.8	50	130	20	2	0.2
	-020-G20-WP05-02-L	△	20	1.5	3.8	100	180	20	2	0.3
	-020-G20-WP05-02-XL	△	20	1.5	3.8	130	250	20	2	0.8
	-025-G25-WP06-02-M	△	25	1.5	4.35	60	140	25	2	0.4
	-025-G25-WP06-02-L	△	25	1.5	4.35	120	200	25	2	0.6
	-025-G25-WP06-02-XL	△	25	1.5	4.35	180	300	25	2	1.0
	-032-G32-WP06-03-M	△	32	1.5	4.35	70	150	32	3	0.8
	-032-G32-WP06-03-L	△	32	1.5	4.35	120	200	32	3	1.0
	-032-G32-WP06-03-XL	△	32	1.5	4.35	180	300	32	3	1.6
	-040-G32-WP06-03-M	△	40	1.5	4.35	50	150	32	3	0.9
	-040-G32-WP06-03-L	△	40	1.5	4.35	50	250	32	3	1.5
	-040-G32-WP06-03-XL	△	40	1.5	4.35	50	300	32	3	1.8
	-040-G32-WP08-02-M	△	40	1.5	5.66	50	150	32	2	0.9
	-040-G32-WP08-02-L	△	40	1.5	5.66	50	250	32	2	1.5
	-040-G32-WP08-02-XL	△	40	1.5	5.66	50	300	32	2	1.9
	-050-G32-WP09-02-M	△	50	3.0	6.8	50	150	32	2	1.9
	-050-G32-WP09-02-L	△	50	3.0	6.8	50	250	32	2	2.5

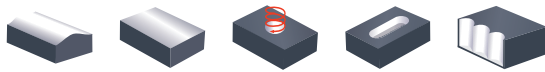
▲ Stock △ Order

Spare Parts

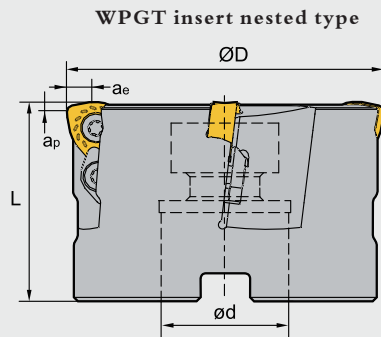
Type	Applicable Insert	Clamp/insert screw	Clamp	Wrench
XMR01□□-WP05□□	WPGT0503	L60M3.5×8	--	T10
XMR01□□-WP06□□	WPGT0604	L60M4×8		T15
XMR01□□-WP08□□	WPGT0806	L60M5×13	WD-208	T20
XMR01□□-WP09□□	WPGT0907			

MILLING TOOLS

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XMR01 P M K



Type of Milling Tools

Type		Stock	Dimension (mm)					Tooth Z	Adapter	Weight (kg)
			ØD	ap	ae	L	ød			
XMR01	-050-A22-WP06-04	△	50	1.5	4.35	50	22	4	A	0.4
	-050-A22-WP08-03	△	50	1.5	5.66	50	22	3	A	0.4
	-063-A22-WP08-04	△	63	1.5	5.66	50	22	4	A	0.7
	-063-A27-WP08-04	△	63	1.5	5.66	50	27	4	A	0.7
	-080-A27-WP08-05	△	80	1.5	5.66	63	27	5	A	1.5
	-100-B32-WP08-06	△	100	1.5	5.66	63	32	6	B	2.2
	-125-B40-WP08-07	△	125	1.5	5.66	63	40	7	B	3.5
	-160-B40-WP08-08	△	160	1.5	5.66	63	40	8	B	6.0
	-063-A22-WP09-03	△	63	3.0	6.8	50	22	3	A	0.7
	-080-A27-WP09-04	△	80	3.0	6.8	63	27	4	A	1.4
	-100-B32-WP09-05	△	100	3.0	6.8	63	32	5	B	2.1
	-125-B40-WP09-06	△	125	3.0	6.8	63	40	6	B	3.7
	-160-B40-WP09-07	△	160	3.0	6.8	63	40	7	B	6.3

▲ Stock △ Order

Spare Parts

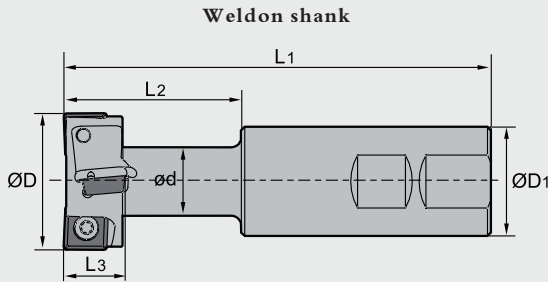
Type	Applicable Insert	Clamp/insert screw	Clamp	Wrench
XMR01□□-WP06□□				
XMR01□□-WP08□□	WPGT0806	L60M5×13	WD-208	T20T
XMR01□□-WP09□□	WPGT0907	L60M5×13	WD-208	T20T

MILLING TOOLS

T slot milling tool



TMP01 K



Type of Milling Tools

Type		Stock	Dimension (mm)						Tooth Z	Insert Quantity	T-slot size
			ØD	ØD ₁	ød	L ₁	L ₂	L ₃			
TMP01	-021-XP25-MP06-01	▲	21	25	10	100	32	9	1	2	12
	-025-XP25-MP06-01	▲	25	25	12	100	35	11	1	2	14
	-032-XP32-MP08-02	▲	32	32	15	110	45	14	2	4	18
	-040-XP32-MP12-02	▲	40	32	19	125	55	18	2	4	22
	-050-XP40-MP12-02	▲	50	40	25	140	65	22	2	4	28
	-060-XP50-MP12-02	▲	60	50	32	160	80	28	2	6	36

▲ Stock △ Order

Spare Parts

Type	Applicable Insert	Screw	Wrench
TMP01-021-XP25-MP06-01			
TMP01-025-XP25-MP06-01		L60M2.5×5.5	
TMP01-032-XP32-MP08-02			
TMP01-040-XP32-MP12-02		L60M5×10	
TMP01-050-XP40-MP12-02			
TMP01-060-XP50-MP12-02		L60M5×10	

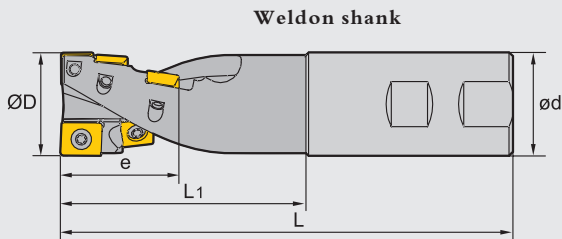
MILLING TOOLS

Helical and face milling tool

Kr:90°



HMP01 P K



Type of Milling Tools

Type		Stock		Dimension (mm)					Slot	Insert Quantity		Type of shank
		R	L	ØD	ød	e	L ₁	L		APKT 150412	SPMT 120408	
HMP01	-040×55-XP40-SP12-02	△	△	40	40	55	95	175	2	1	5	Weldon shank
	-050×55-XP40-SP12-04	△	△	50	40	55	95	175	4	2	10	Weldon shank

▲ Stock △ Order

Spare Parts

Diameter ØD	Screw	Wrench
Ø40	 L60M5×10	 T20T
Ø50	L60M5×13	T20T

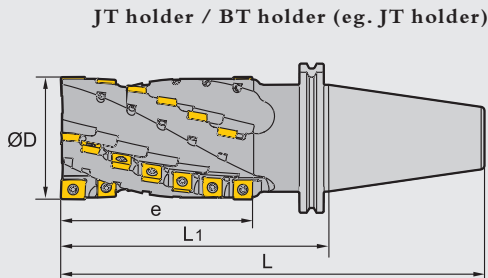
MILLING TOOLS

Helical and face milling tool

Kr:90°



HMP01 P K



Type of Milling Tools

Type	Stock		Dimension (mm)				Slot Z	Insert Quantity		Type of shank
	R	L	ØD	e	L ₁	L		APKT 150412	SPMT 120408	
HMP01	△	△	50	84	145	246.75	4	2	16	JT
	△	△	63	74	135	236.75	4	2	14	JT
	△	△	63	104	165	266.75	4	2	20	JT
	△	△	63	134	195	296.75	4	2	26	JT
	△	△	80	104	165	266.75	4	2	20	JT
	△	△	80	144	205	306.75	4	2	28	JT
	△	△	50	84	145	246.8	4	2	16	BT
	△	△	63	74	135	236.8	4	2	14	BT
	△	△	63	104	165	266.8	4	2	20	BT
	△	△	63	134	195	296.8	4	2	26	BT
	△	△	80	104	165	266.8	4	2	20	BT
	△	△	80	144	205	306.8	4	2	28	BT

▲ Stock △ Order

Spare Parts

Diameter ØD	Screw	Wrench
Ø50	 L60M5×13	 T20T
Ø63	L60M5×13	T20T
Ø80	L60M5×13	T20T

MILLING TOOLS

conversion head Helical and face milling tool

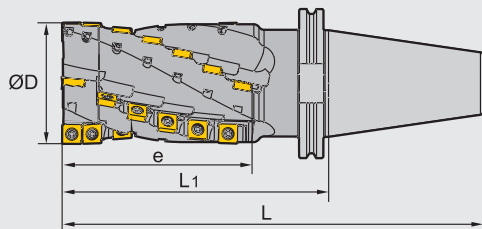
Kr:90°



HMP01 EC P K



JT holder / BT holder (eg. JT holder)



Type of Milling Tools

Type	Stock	Dimension (mm)						Slot Z	Insert Quantity		Type of shank
		R	L	ØD	e	L1	L		APKT 150412	SPMT 120408	
HMP01	-050×84EC-JT50-SP12-04	△	△	50	84	145	246.75	4	2	16	JT
	-063×74EC-JT50-SP12-04	△	△	63	74	135	236.75	4	2	14	JT
	-063×104EC-JT50-SP12-04	△	△	63	104	165	266.75	4	2	20	JT
	-063×134EC-JT50-SP12-04	△	△	63	134	195	296.75	4	2	26	JT
	-080×104EC-JT50-SP12-04	△	△	80	104	165	266.75	4	2	20	JT
	-080×144EC-JT50-SP12-04	△	△	80	144	205	306.75	4	2	28	JT
	-050×84EC-BT50-SP12-04	△	△	50	84	145	246.8	4	2	16	BT
	-063×74EC-BT50-SP12-04	△	△	63	74	135	236.8	4	2	14	BT
	-063×104EC-BT50-SP12-04	△	△	63	104	165	266.8	4	2	20	BT
	-063×134EC-BT50-SP12-04	△	△	63	134	195	296.8	4	2	26	BT
	-080×104EC-BT50-SP12-04	△	△	80	104	165	266.8	4	2	20	BT
	-080×144EC-BT50-SP12-04	△	△	80	144	205	306.8	4	2	28	BT

▲ Stock △ Order

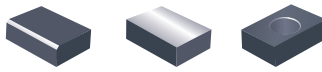
Spare Parts

Diameter ØD	Insert screw 	conversion head screw 	Wrench 	Wrench 	conversion head 
Ø50	L60M5×13	M10×50	T20T	S8	050EC
Ø63	L60M5×13	M10×50	T20T	S8	063EC
Ø80	L60M5×13	M12×55	T20T	S10	080EC

MILLING TOOLS

Chamfer milling tool

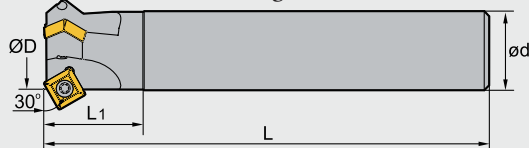
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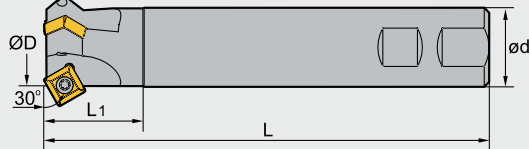
CMZ01 P M K



straight shank



Weldon shank



Type of Milling Tools

Type		Stock	Dimension (mm)				Tooth Z	Weight (kg)
			ØD	ød	L	L ₁		
CMZ01 直柄	-012-G20-SP12-01	△	12	20	100	40	1	0.2
	-025-G25-SP12-02	△	25	25	120	40	2	0.8
	-032-G32-SP12-03	△	32	32	180	40	3	1.1
削平柄	-012-XP20-SP12-01	△	12	20	100	40	1	0.2
	-025-XP25-SP12-02	△	25	25	120	40	2	0.6
	-032-XP32-SP12-03	△	32	32	180	40	3	1.0

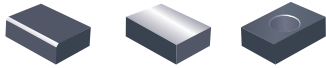
▲ Stock △ Order

Spare Parts

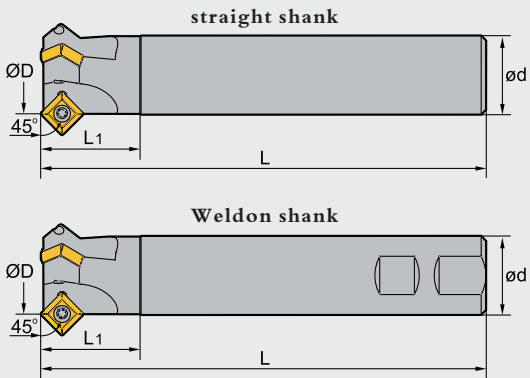
Diameter ØD	Applicable Insert 	Screw 	Wrench 
Ø12-Ø32	SPMT120408	L43M5×11	T20T

MILLING TOOLS

Chamfer milling tool **Kr:45°**



CMA01 P M K



Type of Milling Tools

Type		Stock	Dimension (mm)				Tooth Z	Weight (kg)
			ØD	ød	L	L ₁		
CMA01 直柄	-012-G20-SP12-01	▲	12	20	100	40	1	0.2
	-025-G25-SP12-02	▲	25	25	120	40	2	0.8
	-032-G32-SP12-03	▲	32	32	180	40	3	1.1
削平柄	-012-XP20-SP12-01	▲	12	20	100	40	1	0.2
	-025-XP25-SP12-02	▲	25	25	120	40	2	0.6
	-032-XP32-SP12-03	▲	32	32	180	40	3	1.0

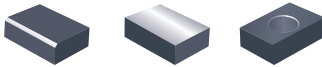
▲ Stock △ Order

Spare Parts

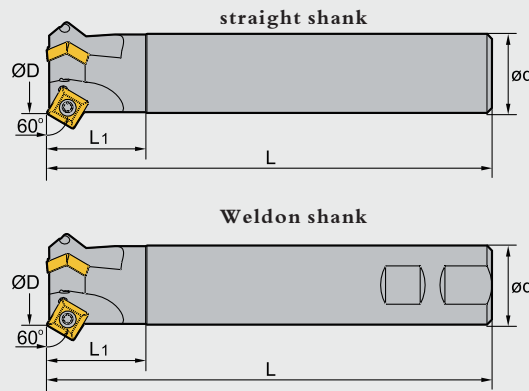
Diameter ØD	Applicable Insert	Screw	Wrench
Ø12-Ø32			
	SPMT120408	L43M5×11	T20T

MILLING TOOLS

Chamfer milling tool **Kr:60°**



CMD01 P M K



Type of Milling Tools

Type		Stock	Dimension (mm)				Tooth Z	Weight (kg)
			ØD	ød	L	L ₁		
CMD01 straight shank	-012-G20-SP12-01	▲	12	20	100	40	1	0.2
	-025-G25-SP12-02	▲	25	25	120	40	2	0.8
	-036-G32-SP12-03	▲	36	32	180	40	3	1.0
Weldon shank	-012-XP20-SP12-01	▲	12	20	100	40	1	0.2
	-025-XP25-SP12-02	▲	25	25	120	40	2	0.6
	-036-XP32-SP12-03	▲	36	32	180	40	3	1.0

▲ Stock △ Order

Spare Parts

Diameter ØD	Applicable Insert	Screw	Wrench
Ø12-Ø32			
	SPMT120408	L43M5×11	T20T

MILLING TOOLS

Indexable U drill Code Key

02, 03, 04, 05

Length-diameter ratio

160-580
16mm-58mm

toolholders diameter

W
S

Shape of Blade

C 7°
P 11°

Insert Clearance Angle

代号	刃长	
	W	S
03	3.8	
04	4.3	
05	5.4	
06	6.5	6.35
08	8.7	8.0
09		9.525
12		12.7

Cutting Edge Length(mm)

ZD03-300-XP32-WC05-02

type of tools

Number	Introduction
ZD	U drill

tools installation structure

Number	Introduction
XP	Weldon shank

tools installation dimension(mm)

25, 32, 40

Tooth

MILLING TOOLS

Indexable u drill

ZD03

Type	Stock	Dimension (mm)						Applicable Insert	Screw	Wrench
		D	D1	D2	L1	L2	L			
ZD03-160-XP25-WC03-02	▲	16	25	32	56	52	129	WCMX030208	L60M2.5×6	T08
ZD03-170-XP25-WC03-02	▲	17	25	32	56	55	133	WCMX030208	L60M2.5×6	T08
ZD03-180-XP25-WC03-02	▲	18	25	32	56	58	137	WCMX030208	L60M2.5×6	T08
ZD03-190-XP25-WC03-02	▲	19	25	32	56	61	140	WCMX030208	L60M2.5×6	T08
ZD03-200-XP25-WC03-02	▲	20	25	32	56	64	143	WCMX030208	L60M2.5×6	T08
ZD03-210-XP25-WC04-02	▲	21	25	45	56	67	153	WCMX040208	L60M2.5×6	T08
ZD03-220-XP25-WC04-02	▲	22	25	45	56	70	156	WCMX040208	L60M2.5×6	T08
ZD03-230-XP25-WC04-02	▲	23	25	45	56	73	159	WCMX040208	L60M2.5×6	T08
ZD03-240-XP25-WC04-02	▲	24	25	45	56	76	162	WCMX040208	L60M2.5×6	T08
ZD03-250-XP25-WC04-02	▲	25	25	45	56	79	165	WCMX040208	L60M2.5×6	T08
ZD03-260-XP32-WC05-02	▲	26	32	55	60	83	176	WCMX050308	L60M3×8	T10
ZD03-270-XP32-WC05-02	▲	27	32	55	60	86	180	WCMX050308	L60M3×8	T10
ZD03-280-XP32-WC05-02	▲	28	32	55	60	89	184	WCMX050308	L60M3×8	T10
ZD03-290-XP32-WC05-02	▲	29	32	55	60	92	188	WCMX050308	L60M3×8	T10
ZD03-300-XP32-WC05-02	▲	30	32	55	60	95	192	WCMX050308	L60M3×8	T10
ZD03-310-XP40-WC06-02	▲	31	40	60	70	98	203	WCMX06T308	L60M3×8	T10
ZD03-320-XP40-WC06-02	▲	32	40	60	70	101	206	WCMX06T308	L60M3×8	T10
ZD03-330-XP40-WC06-02	▲	33	40	60	70	104	209	WCMX06T308	L60M3×8	T10
ZD03-340-XP40-WC06-02	▲	34	40	60	70	107	212	WCMX06T308	L60M3×8	T10
ZD03-350-XP40-WC06-02	▲	35	40	60	70	110	215	WCMX06T308	L60M3×8	T10
ZD03-360-XP40-WC06-02	▲	36	40	60	70	113	218	WCMX06T308	L60M3×8	T10
ZD03-370-XP40-WC06-02	▲	37	40	60	70	116	221	WCMX06T308	L60M3×8	T10
ZD03-380-XP40-WC06-02	▲	38	40	60	70	119	225	WCMX06T308	L60M3×8	T10
ZD03-390-XP40-WC06-02	▲	39	40	60	70	122	228	WCMX06T308	L60M3×8	T10

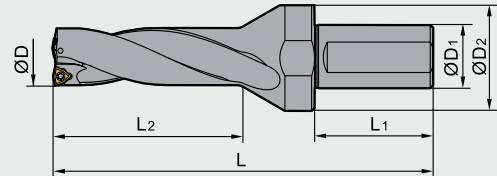
▲ Stock △ Order

MILLING TOOLS

Indexable u drill



ZD03



Type	Stock	Dimension (mm)						Applicable Insert	Screw	Wrench
		D	D1	D2	L1	L2	L			
ZD03-400-XP40-WC06-02	▲	40	40	60	70	125	231	WCMX06T308	L60M3×8	T10
ZD03-410-XP40-WC06-02	▲	41	40	60	70	128	234	WCMX06T308	L60M3×8	T10
ZD03-420-XP40-WC08-02	▲	42	40	60	70	131	239	WCMX080412	L60M3.5×10	T15
ZD03-430-XP40-WC08-02	▲	43	40	60	70	134	242	WCMX080412	L60M3.5×10	T15
ZD03-440-XP40-WC08-02	▲	44	40	60	70	137	245	WCMX080412	L60M3.5×10	T15
ZD03-450-XP40-WC08-02	▲	45	40	60	70	140	248	WCMX080412	L60M3.5×10	T15
ZD03-460-XP40-WC08-02	▲	46	40	60	70	143	251	WCMX080412	L60M3.5×10	T15
ZD03-470-XP40-WC08-02	▲	47	40	60	70	146	253	WCMX080412	L60M3.5×10	T15
ZD03-480-XP40-WC08-02	▲	48	40	70	70	149	255	WCMX080412	L60M3.5×10	T15
ZD03-490-XP40-WC08-02	▲	49	40	70	70	152	257	WCMX080412	L60M3.5×10	T15
ZD03-500-XP40-WC08-02	▲	50	40	70	70	155	259	WCMX080412	L60M3.5×10	T15
ZD03-510-XP40-WC08-02	▲	51	40	70	70	158	261	WCMX080412	L60M3.5×10	T15
ZD03-520-XP40-WC08-02	▲	52	40	70	70	161	263	WCMX080412	L60M3.5×10	T15
ZD03-530-XP40-WC08-02	▲	53	40	70	70	164	265	WCMX080412	L60M3.5×10	T15
ZD03-540-XP40-WC08-02	▲	54	40	70	70	167	267	WCMX080412	L60M3.5×10	T15
ZD03-550-XP40-WC08-02	▲	55	40	70	70	170	269	WCMX080412	L60M3.5×10	T15
ZD03-560-XP40-WC08-02	▲	56	40	70	70	173	271	WCMX080412	L60M3.5×10	T15
ZD03-570-XP40-WC08-02	▲	57	40	70	70	176	273	WCMX080412	L60M3.5×10	T15
ZD03-580-XP40-WC08-02	▲	58	40	70	70	179	275	WCMX080412	L60M3.5×10	T15

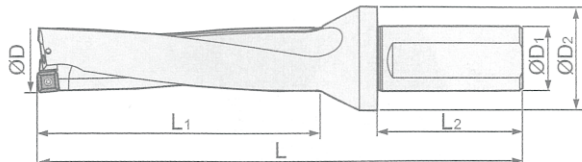
▲ Stock △ Order

MILLING TOOLS

Indexable u drill



ZTD03



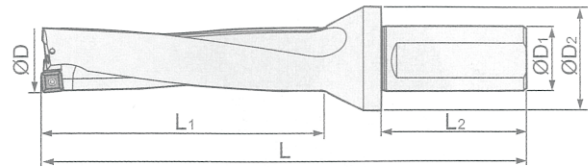
Type	Stock	Dimension (mm)						Applicable Insert	Screw	Wrench
		D	D1	D2	L1	L2	L			
ZTD03-170-XP25-SP06-02	▲	17	25	32	56	56	135	SPGT060204-PM	160M2.2×5	T08
ZTD03-180-XP25-SP06-02	▲	18	25	32	59	56	138	SPGT060204-PM	160M2.2×5	T08
ZTD03-190-XP25-SP06-02	▲	19	25	32	62	56	140	SPGT060204-PM	160M2.2×5	T08
ZTD03-200-XP25-SP06-02	▲	20	25	32	65	56	143	SPGT060204-PM	160M2.2×5	T08
ZTD03-210-XP25-SP06-02	▲	21	25	32	68	56	146	SPGT060204-PM	160M2.2×5	T08
ZTD03-220-XP25-SP06-02	▲	22	25	32	71	56	149	SPGT060204-PM	160M2.2×5	T08
ZTD03-230-XP25-SP07-02	▲	23	25	40	74	56	153	SPGT07T308-PM	160M2.5×6	T08
ZTD03-240-XP25-SP07-02	▲	24	25	40	77	56	159	SPGT07T308-PM	160M2.5×6	T08
ZTD03-250-XP25-SP07-02	▲	25	25	40	80	56	159	SPGT07T308-PM	160M2.5×6	T08
ZTD03-260-XP25-SP07-02	▲	26	25	40	83	56	162	SPGT07T308-PM	160M2.5×6	T08
ZTD03-270-XP25-SP07-02	▲	27	25	40	86	56	165	SPGT07T308-PM	160M2.5×6	T08
ZTD03-280-XP25-SP07-02	▲	28	25	40	89	56	168	SPGT07T308-PM	160M2.5×6	T08
ZTD03-290-XP25-SP07-02	▲	29	32	45	92	60	178	SPGT07T308-PM	160M2.5×6	T08
ZTD03-300-XP32-SP09-02	▲	30	32	45	95	60	181	SPGT090408-PM	160M3.5×8	T15
ZTD03-310-XP32-SP09-02	▲	31	32	45	98	60	184	SPGT090408-PM	160M3.5×8	T15
ZTD03-320-XP32-SP09-02	▲	32	32	45	101	60	187	SPGT090408-PM	160M3.5×8	T15
ZTD03-330-XP32-SP09-02	▲	33	32	45	104	60	190	SPGT090408-PM	160M3.5×8	T15
ZTD03-340-XP32-SP09-02	▲	34	32	45	107	60	193	SPGT090408-PM	160M3.5×8	T15
ZTD03-350-XP32-SP09-02	▲	35	32	45	110	60	196	SPGT090408-PM	160M3.5×8	T15
ZTD03-360-XP32-SP09-02	▲	36	32	45	113	60	199	SPGT090408-PM	160M3.5×8	T15
ZTD03-370-XP40-SP11-02	▲	37	40	55	117	70	217	SPGT110408-PM	160M4×10	T15
ZTD03-380-XP40-SP11-02	▲	38	40	55	119	70	220	SPGT110408-PM	160M4×10	T15
ZTD03-390-XP40-SP11-02	▲	39	40	55	122	70	223	SPGT110408-PM	160M4×11	T15
ZTD03-400-XP40-SP11-02	▲	40	40	55	125	70	231	SPGT110408-PM	160M4×10	T15
ZTD03-410-XP40-SP11-02	▲	41	40	55	128	70	229	SPGT110408-PM	160M4×10	T15
ZTD03-420-XP40-SP11-02	▲	42	40	55	131	70	232	SPGT110408-PM	160M4×10	T15
ZTD03-430-XP40-SP11-02	△	43	40	55	134	70	240	SPGT110408-PM	160M4×10	T15
ZTD03-440-XP40-SP14-02	△	44	40	60	138	70	248	SPGT140512-PM	160M5×13	T20
ZTD03-450-XP40-SP14-02	△	45	40	60	141	70	251	SPGT140512-PM	160M5×13	T20
ZTD03-460-XP40-SP14-02	△	46	40	60	144	70	254	SPGT140512-PM	160M5×13	T20
ZTD03-470-XP40-SP14-02	△	47	40	60	147	70	257	SPGT140512-PM	160M5×13	T20
ZTD03-480-XP40-SP14-02	△	48	40	60	149	70	260	SPGT140512-PM	160M5×13	T20
ZTD03-490-XP40-SP14-02	△	49	40	60	152	70	263	SPGT140512-PM	160M5×13	T20
ZTD03-500-XP40-SP14-02	△	50	40	60	155	70	266	SPGT140512-PM	160M5×13	T20

MILLING TOOLS

Indexable u drill



ZTD04



Type	Stock	Dimension (mm)						Applicable Insert	Screw	Wrench
		D	D1	D2	L1	L2	L			
ZTD04-170-XP25-SP06-02	▲	17	25	32	73	56	152	SPGT060204-PM	160M2.2×5	T08
ZTD04-180-XP25-SP06-02	▲	18	25	32	77	56	156	SPGT060204-PM	160M2.2×5	T08
ZTD04-190-XP25-SP06-02	▲	19	25	32	81	56	160	SPGT060204-PM	160M2.2×5	T08
ZTD04-200-XP25-SP06-02	▲	20	25	32	85	56	163	SPGT060204-PM	160M2.2×5	T08
ZTD04-210-XP25-SP06-02	▲	21	25	32	89	56	167	SPGT060204-PM	160M2.2×5	T08
ZTD04-220-XP25-SP06-02	▲	22	25	32	93	56	171	SPGT060204-PM	160M2.2×5	T08
ZTD04-230-XP25-SP07-02	▲	23	25	40	97	56	176	SPGT07T308-PM	160M2.5×6	T08
ZTD04-240-XP25-SP07-02	▲	24	25	40	101	56	180	SPGT07T308-PM	160M2.5×6	T08
ZTD04-250-XP25-SP07-02	▲	25	25	40	105	56	184	SPGT07T308-PM	160M2.5×6	T08
ZTD04-260-XP25-SP07-02	▲	26	25	40	109	56	188	SPGT07T308-PM	160M2.5×6	T08
ZTD04-270-XP25-SP07-02	▲	27	25	40	113	56	192	SPGT07T308-PM	160M2.5×6	T08
ZTD04-280-XP25-SP07-02	▲	28	25	40	117	56	196	SPGT07T308-PM	160M2.5×6	T08
ZTD04-290-XP32-SP07-02	▲	29	32	45	121	60	207	SPGT07T308-PM	160M2.5×6	T08
ZTD04-300-XP32-SP09-02	▲	30	32	45	125	60	211	SPGT090408-PM	160M3.5×8	T15
ZTD04-310-XP32-SP09-02	▲	31	32	45	129	60	215	SPGT090408-PM	160M3.5×8	T15
ZTD04-320-XP32-SP09-02	▲	32	32	45	133	60	219	SPGT090408-PM	160M3.5×8	T15
ZTD04-330-XP32-SP09-02	▲	33	32	45	137	60	223	SPGT090408-PM	160M3.5×8	T15
ZTD04-340-XP32-SP09-02	▲	34	32	45	141	60	227	SPGT090408-PM	160M3.5×8	T15
ZTD04-350-XP32-SP09-02	▲	35	32	45	145	60	231	SPGT090408-PM	160M3.5×8	T15
ZTD04-360-XP32-SP09-02	▲	36	32	45	149	60	235	SPGT090408-PM	160M3.5×8	T15
ZTD04-370-XP40-SP11-02	▲	37	40	55	154	70	254	SPGT110408-PM	160M4×10	T15
ZTD04-380-XP40-SP11-02	▲	38	40	55	158	70	258	SPGT110408-PM	160M4×10	T15
ZTD04-390-XP40-SP11-02	▲	39	40	55	161	70	267	SPGT110408-PM	160M4×11	T15
ZTD04-400-XP40-SP11-02	▲	40	40	55	165	70	271	SPGT110408-PM	160M4×10	T15
ZTD04-410-XP40-SP11-02	▲	41	40	55	169	70	270	SPGT110408-PM	160M4×10	T15
ZTD04-420-XP40-SP11-02	▲	42	40	55	173	70	279	SPGT110408-PM	160M4×10	T15
ZTD04-430-XP40-SP11-02	△	43	40	55	177	70	283	SPGT110408-PM	160M4×10	T15
ZTD04-440-XP40-SP14-02	△	44	40	60	182	70	292	SPGT140512-PM	160M5×13	T20
ZTD04-450-XP40-SP14-02	△	45	40	60	186	70	296	SPGT140512-PM	160M5×13	T20
ZTD04-460-XP40-SP14-02	△	46	40	60	190	70	300	SPGT140512-PM	160M5×13	T20
ZTD04-470-XP40-SP14-02	△	47	40	60	194	70	304	SPGT140512-PM	160M5×13	T20
ZTD04-480-XP40-SP14-02	△	48	40	60	198	70	308	SPGT140512-PM	160M5×13	T20
ZTD04-490-XP40-SP14-02	△	49	40	60	202	70	312	SPGT140512-PM	160M5×13	T20
ZTD04-500-XP40-SP14-02	△	50	40	60	206	70	316	SPGT140512-PM	160M5×13	T20



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