

Side and face milling tools code key

Cutter style	
FM	Face milling
EM	Square shoulder milling
HM	Helical end milling
SM	Side and face milling
BM	Profile milling
CM	Chamfer milling
XM	Special milling
TM	T-slot milling
AM	Aluminum alloy high speed milling

Approach angle		
P	90°	
E	75°	
D	60°	
A	45°	
R		

Sequence number of series

Cutting diameter ØD (mm)

Cutting width of milling tools

Coupling structure and demension

A	A type of coupling	D	D type of coupling
B	B type of coupling	K	Mounting by keyway
C	C type of coupling		

SM P 03 - 160 × 16 - K40

- M P 12 - 12 L

Insert shape	
C	Diamond with 80°
D	Diamond with 55°
R	Round
S	Square
T	Regular triangle
V	Diamond with 35°
M	Diamond with 86°

Insert clearance angle	
N	0°
B	5°
C	7°
P	11°
D	15°
E	20°

Diameter of IC	Length of cutting edge					
	C	D	R	S	T	V
5.556	—	—	—	—	09	—
6.350	06	07	—	—	11	—
9.525	09	11	09	09	16	16
12.700	12	15	12	12	22	22
15.875	16	19	15	15	27	—
19.050	19	—	19	19	33	—
25.400	25	—	25	25	44	—

Cutting direction

(R: Right L: Left)

Number of teeth

Indexable milling tools

Side and face milling tools

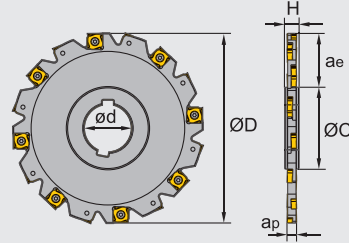
Side and face milling tools



SMP01 P M K



K-type coupling



Specification of tools

Type	Stock	Basic dimensions(mm)						Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)	
		ØD	ød	øc	H	ap	aemax					
SMP01 Mounting by keyway	-100×4-K27-SN12-10	△	100	27	45	12	4	25	XSEQ1202	10	K	0.2
	-125×4-K40-SN12-12	△	125	40	56	12	4	32		12	K	0.3
	-160×4-K40-SN12-16	△	160	40	67	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	56	12	5	32		12	K	0.3
	-160×5-K40-SN12-16	△	160	40	67	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	56	12	6	32		12	K	0.4
	-160×6-K40-SN12-16	△	160	40	67	12	6	44		16	K	0.7
	-200×6-K50-SN12-18	△	200	50	71	12	6	62		18	K	1.1
	-250×6-K50-SN12-24	△	250	50	71	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	56	12	7	32		12	K	0.4
	-160×7-K40-SN12-16	△	160	40	67	12	7	44		16	K	0.8
	-200×7-K50-SN12-18	△	200	50	71	12	7	62		18	K	1.2
	-250×7-K50-SN12-24	△	250	50	71	12	7	87		24	K	1.9
	-100×8-K27-SN12-10	△	100	27	45	12	8	25	XSEQ12T4	10	K	0.3
	-125×8-K40-SN12-12	△	125	40	56	12	8	32		12	K	0.5
	-160×8-K40-SN12-16	△	160	40	67	12	8	44		16	K	0.9
	-200×8-K50-SN12-18	△	200	50	71	12	8	62		18	K	1.4
	-250×8-K50-SN12-24	△	250	50	71	12	8	87		24	K	2.2

▲ Stock available △ Make-to-order

Tools code key
B24-B25

Grade selection guide
B19-B23

Technical data
B234-B240

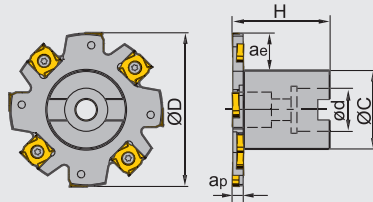
Side and face milling tools



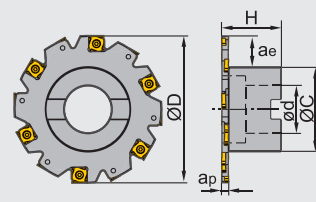
SMP01 P M K



A-type coupling



B-type coupling



Specification of tools

Type	Stock		Basic dimensions(mm)							Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
	R	L	ØD	ød	øc	H	ap	aemax					
SMP01 Arbor mounting	-063×4-A22-SN12-06	△	△	63	22	32	40	4	14	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	32	40	5	14	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	32	40	6	14	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-B32-SN12-12	△	△	125	32	70	50	6	30	XSEQ1204	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	32	40	7	14		6	A	0.2
	-080×7-A22-SN12-08	△	△	80	22	40	50	7	18	XSEQ1204	8	A	0.5
	-100×7-A27-SN12-10	△	△	100	27	48	50	7	23		10	A	0.7
	-125×7-B32-SN12-12	△	△	125	32	70	50	7	30		12	B	1.1
	-160×7-B40-SN12-16	△	△	160	40	70	50	7	41	XSEQ12T4	16	B	1.4
	-063×8-A22-SN12-06	△	△	63	22	32	40	8	14		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	XSEQ12T4	10	A	0.8
	-125×8-B32-SN12-12	△	△	125	32	70	50	8	30		12	B	1.1
	-160×8-B40-SN12-16	△	△	160	40	70	50	8	41		16	B	1.5

▲Stock available △Make-to-order

Indexable milling tools



Side and face milling tools


Tools code key
B24-B25

Grade selection guide
B19-B23

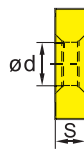
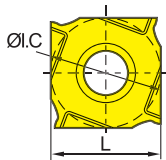
Technical data
B234-B240

▶▶ Spare parts

Diameter ØD	Edge width ap	Screw	Wrench
			
Ø63-Ø160	4	I91M4×3.2X	WT08IS/IP
Ø63-Ø160	5	I91M4×4.2X	
Ø63-Ø250	6	I91M4×5.1X	
Ø63-Ø250	7	I91M4×6.1X	
Ø63-Ø250	8	I91M4×7.1X	




▶▶ Selection of inserts



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

Workpiece material	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
P	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
M	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
K	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
N	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
S	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊

Insert shape	Type	Basic dimensions(mm)				CVD Coating					PVD Coating				Cermet	Cemented carbide											
		ØI.C	L	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC305	YD051	YD101	YD201
	XSEQ1202	12.7	12.7	2.3	5.0												★										
	XSEQ1203	12.7	12.7	3.0	5.0												★										
	XSEQ12T3	12.7	12.7	3.5	5.0												★										
	XSEQ1204	12.7	12.7	4.0	5.0												★										
	XSEQ12T4	12.7	12.7	4.5	5.0												★										

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

▶▶ Recommended cutting parameters

Cutting parameters	Hardness HB	Insert grade	Cutting parameters	
			Vc(m/min)	fz(mm/z)
P Low-carbon steel, Soft steel	≤ 180	YBG302	150 (100-200)	0.15(0.1-0.3)
	180-280	YBG302	120 (80-200)	0.15(0.1-0.3)
	280-350	YBG302	100 (80-200)	0.15(0.1-0.3)
M Stainless steel	≤ 270	YBG302	100 (80-200)	0.08(0.05-0.15)
K Cast iron	180-250	YBG302	150 (100-250)	0.08(0.05-0.15)

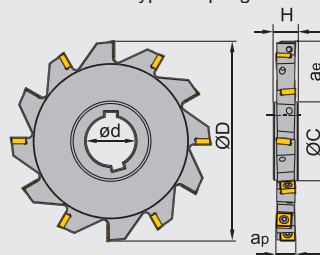
Side and face milling tools



SMP03 P M K



K-type coupling



Specification of tools

Type	Stock	Basic dimensions(mm)							Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
		ØD	øc	ød	aemax	ap	H					
SMP03 Mounting by keyway	△	80	43	27	17	8	12	MPHT060304-DM	10	K	0.2	
	△	100	47	32	25	8	12		14	K	0.3	
	△	100	47	32	25	10	14		14	K	0.4	
	△	125	55	40	34	10	14		16	K	0.6	
	△	125	55	40	34	12	16	MPHT080305-DM	12	K	0.7	
	△	160	62	40	47	12	16		14	K	1.3	
	△	160	62	40	49	16	20	MPHT120408-DM	12	K	1.6	
	△	160	62	40	49	18	24		12	K	1.9	
	△	160	62	40	49	20	26		12	K	2.1	
	△	200	72	50	62	16	20		14	K	2.5	
	△	200	72	50	62	18	24	14	K	2.9		
	△	200	72	50	62	20	26	14	K	3.3		

▲ Stock available △ Make-to-order

Indexable milling tools

Side and face milling tools

Spare parts

Diameter Ød	Inserts	Screw	Wrench	
Ø80-Ø125	MP06	I60M2.5x6.5	WT07IP	--
Ø125-Ø160	MP08	I60M3x7	WT09IP	--
Ø160-Ø200	MP12	I60M5x13	--	WT20IS

Tools code key
B24-B25

Grade selection guide
B19-B23

Technical data
B234-B240

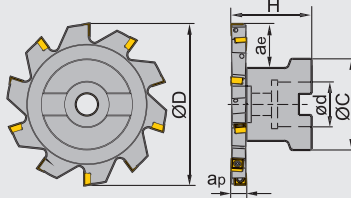
Side and face milling tools



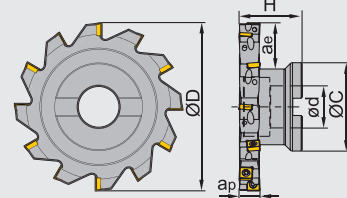
SMP03 P M K



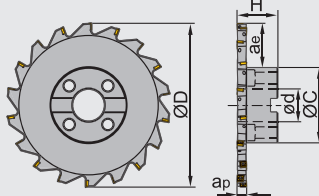
A-type coupling



B-type coupling



C-type coupling



Specification of tools

Type	Stock		Basic dimensions(mm)						Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
	R	L	ØD	øc	ød	aemax	ap	H				
SMP03 Arbor mounting	△	△	80	45	22	21	8	40	MPHT060304-DM	10	A	0.4
	△	△	100	55	27	24	8	40		14	B	0.6
	△	△	100	55	27	24	10	40		14	B	0.7
	△	△	125	65	32	33	10	45		16	B	1.1
	△	△	125	65	32	33	12	45	MPHT080305-DM	12	B	1.4
	△	△	160	80	40	45	12	50		14	B	1.9
	△	△	200	92	40	53	12	50	MPHT120408-DM	18	C	3.2
	△	△	125	65	32	33	16	50		10	B	2.3
	△	△	160	80	40	45	16	60		12	B	2.3
	△	△	160	80	40	45	18	60		12	B	2.4
	△	△	200	92	40	53	16	50	MPHT120408-DM	14	C	3.6
	△	△	200	92	40	53	18	50		14	C	3.9
	△	△	200	92	40	53	20	50		14	C	4.2

▲Stock available △Make-to-order

Spare parts

Diameter ØD	Inserts	Screw	Wrench	
Ø80-Ø125	MP06	I60M2.5×6.5	WT07IP	--
Ø125-Ø200	MP08	I60M3×7	WT09IP	--
Ø125-Ø200	MP12	I60M5×13	--	WT20IS

Tools code key
B24-B25

Grade selection guide
B19-B23

Technical data
B234-B240

Selection of inserts

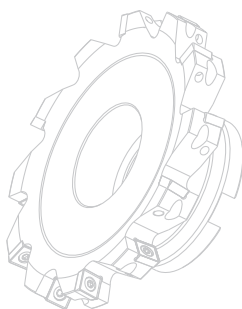
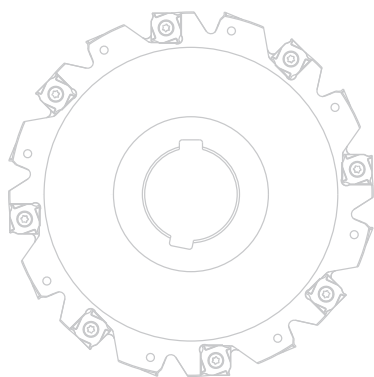
😊 Good working condition 🙄 Normal working condition 😞 Bad working condition

Insert shape	Type	Basic dimensions(mm)					CVD Coating					PVD Coating					Cermet		Cemented carbide									
		ØI.C	L	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	MPHT060304-DM	6.35	6.35	3.18	2.8	0.4													★									
	MPHT080305-DM	8.3	8.3	3.18	3.4	0.5													★									
	MPHT120408-DM	12.7	12.7	4.76	5.56	0.8													★									

★Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Recommended cutting parameters

Workpiece material	Hardness HB	Insert grade	Cutting parameters	
			Vc(m/min)	fz(mm/z)
P Low-carbon steel, Soft steel	≤ 180	YBG302	150 (100-200)	0.15(0.1-0.3)
	180-280	YBG302	120 (80-200)	0.15(0.1-0.3)
	280-350	YBG302	100 (80-200)	0.15(0.1-0.3)
M Stainless steel	≤ 270	YBG302	100 (80-200)	0.08(0.05-0.15)
K Cast iron	180-250	YBG302	150 (100-250)	0.08(0.05-0.15)



Indexable milling tools

Side and face milling tools

SMP05 Slot milling

Groove Widths 1.1~4.8mm.
 Maximum cutting depth 5mm.
 Multi-function milling holder: slot milling,plunge
 milling, root cleaning

Slot milling specification code

Slot milling

Weldon shank

Insert

Teeth

SMP05 - 039×3.0 - XP 25 - QC 16- 03

Minimum machining diameter(mm)

Code	Diameter
25	25
39	39
44	44

Maximum cutting width(mm)

Code	Cutting width
3.0	3.0
4.8	4.8

Cutter diameter(mm)

Code	Diameter
25	25
32	32

Cutting edge length code

16
22

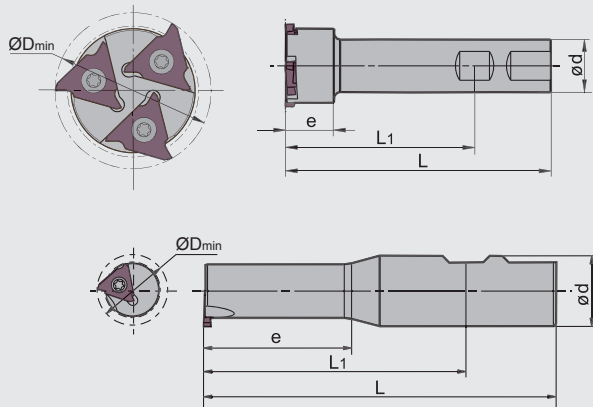
Inscribed circuler(mm)

9.525
12.70

Side and face milling tools



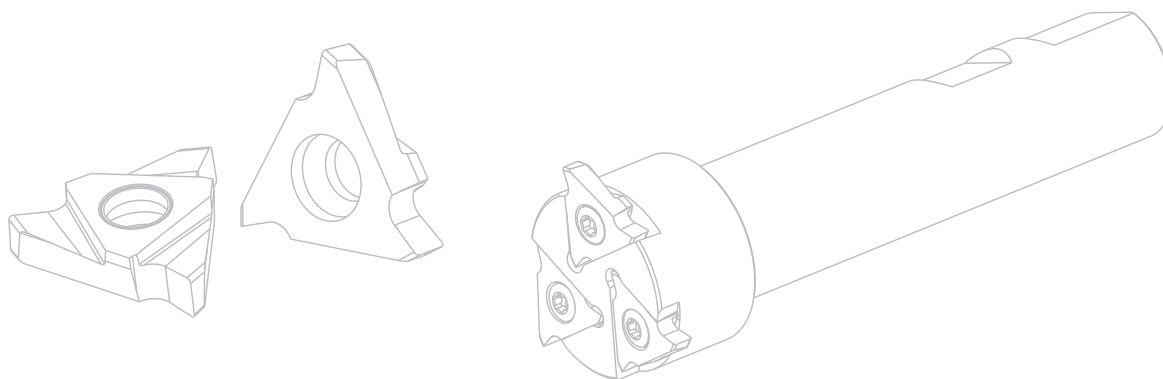
SMP05 P M K



Specification of tools

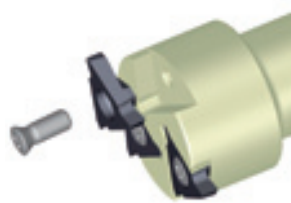
Type	Stock	Basic dimensions(mm)					Number of teeth Z	Applicable inserts	Width(mm)
		ØD _{min}	ød	e	L ₁	L			
SMP05 -025×3.0-XP25-QC16-01	△	25	25	40	89	125	1	QC16L 110~300	1.10-3.00
-039×3.0-XP25-QC16-03	△	39	25	23	89	125	3	QC16L 110~300	1.10-3.00
-044×4.8-XP25-QC22-03	△	44	25	23	89	125	3	QC22L 125~480	1.25-4.80

▲Stock available △Make-to-order



Spare parts

Diameter ØD	Screw	Wrench
ø25	I60M3.5×10	WT15IP
ø39	I60M3.5×10	WT15IP
ø44	I60M5×13	WT20IP



Tools code key
B24-B25

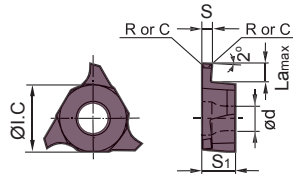
Grade selection guide
B19-B23

Technical data
B234-B240

Indexable milling tools

Side and face milling tools

Selection of inserts



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

Workpiece material	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
P Steel	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
M Stainless steel	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
K Cast iron	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
N Non-ferrous metal	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
S Heat resistant alloy, Ti alloy	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊

Insert shape	Type	Basic dimensions(mm)						CVD Coating						PVD Coating						Cermet		Cemented carbide							
		S±0.025	Lamax	R/C	ØI.C	S1	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	QC16L110-R01	1.10	2.00	R0.1	9.525	3.18	4.4								○	○													
	QC16L125-R02	1.25	2.00	R0.2	9.525	3.18	4.4								○	○													
	QC16L145-R02	1.45	2.00	R0.2	9.525	3.18	4.4								○	○													
	QC16L150-R02	1.50	2.00	R0.2	9.525	3.18	4.4								○	★													
	QC16L175-R02	1.75	2.00	R0.2	9.525	3.18	4.4								○	○													
	QC16L185-R02	1.85	2.50	R0.2	9.525	3.18	4.4								○	○													
	QC16L200-R02	2.00	2.50	R0.2	9.525	3.18	4.4								○	★													
	QC16L250-R02	2.50	2.50	R0.2	9.525	3.18	4.4								○	★													
	QC16L300-R02	3.00	3.00	R0.2	9.525	3.18	4.4								○	★													
	QC22L125-R02	1.25	2.00	R0.2	12.70	4.76	5.5								○	○													
	QC22L145-R02	1.45	2.00	R0.2	12.70	4.76	5.5								○	○													
	QC22L150-R02	1.50	3.50	R0.2	12.70	4.76	5.5								○	★													
	QC22L175-R02	1.75	3.50	R0.2	12.70	4.76	5.5								○	○													
	QC22L185-R02	1.85	3.50	R0.2	12.70	4.76	5.5								○	○													
	QC22L200-R02	2.00	3.50	R0.2	12.70	4.76	5.5								○	★													
	QC22L230-R02	2.30	3.50	R0.2	12.70	4.76	5.5								○	○													
	QC22L250-R03	2.50	4.00	R0.3	12.70	4.76	5.5								○	★													
	QC22L265-R03	2.65	4.00	R0.3	12.70	4.76	5.5								○	○													
	QC22L280-R03	2.80	4.00	R0.3	12.70	4.76	5.5								○	○													
	QC22L300-R03	3.00	4.00	R0.3	12.70	4.76	5.5								○	★													
	QC22L320-R03	3.20	4.00	R0.3	12.70	4.76	5.5								○	○													
	QC22L330-R03	3.30	4.00	R0.3	12.70	4.76	5.5								○	○													
	QC22L350-R03	3.50	5.00	R0.3	12.70	4.76	5.5								○	★													
	QC22L400-R04	4.00	5.00	R0.4	12.70	4.76	5.5								○	★													
	QC22L430-R04	4.30	5.00	R0.4	12.70	4.76	5.5								○	○													
	QC22L450-R04	4.50	5.00	R0.4	12.70	4.76	5.5								○	○													
	QC22L480-R04	4.80	5.00	R0.4	12.70	5.06	5.5								○	○													

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Indexable milling tools

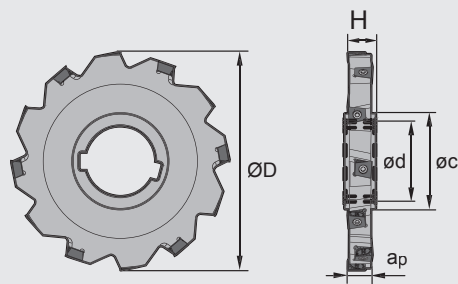
Side and face milling tools



Side and face milling tools



SMP09 P M K



K-type coupling

Specification of tools

Type	Stock	Basic dimensions(mm)						Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
		ØD	ød	øc	H	ap	aemax				
SMP09 -080×10-K27-LN10-08	△	80	27	43	14	10	17	LNGX1005□□-GM	8	K	0.2
-100×10-K32-LN10-10	△	100	32	47	14	10	25		10	K	0.37
-125×10-K40-LN10-12	△	125	40	55	14	10	34		12	K	0.5
-160×10-K40-LN10-14	△	160	40	62	14	10	47		14	K	1
-200×10-K50-LN10-16	△	200	50	72	14	10	62		16	K	1.6
-100×12-K32-LN14-08	△	100	32	47	16	12	25	LNGX1407□□-GM	8	K	0.4
-125×12-K40-LN14-10	△	125	40	55	16	12	34		10	K	0.6
-160×12-K40-LN14-12	△	160	40	62	16	12	47		12	K	1.1
-200×12-K50-LN14-14	△	200	50	72	16	12	62		14	K	1.8
-100×14-K32-LN10-10	△	100	32	47	18	14	25	LNGX1005□□-GM	10	K	0.4
-125×14-K40-LN10-12	△	125	40	55	18	14	34		12	K	0.9
-160×14-K40-LN10-14	△	160	40	62	18	14	47		14	K	1.6
-200×14-K50-LN10-16	△	200	50	72	18	14	62		16	K	2.5
-125×16-K40-LN10-12	△	125	40	55	20	16	34		12	K	1
-160×16-K40-LN10-14	△	160	40	62	20	16	47	LNGX1005□□-GM	14	K	1.8
-200×16-K50-LN10-16	△	200	50	72	20	16	62		16	K	2.9

▲Stock available △Make-to-order

Tools code key
B24-B25

Grade selection guide
B19-B23

Technical data
B234-B240

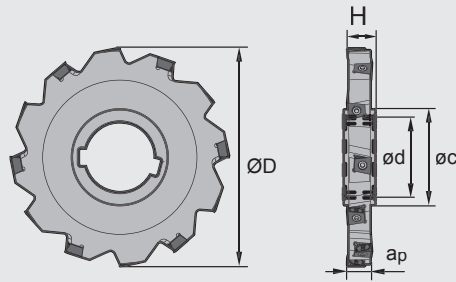
Indexable milling tools

Side and face milling tools

Side and face milling tools



SMP09 **P** **M** **K**



K-type coupling

Specification of tools

Type	Stock	Basic dimensions(mm)						Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
		ØD	ød	øc	H	ap	aemax				
SMP09 -125×18-K40-LN10-12	△	125	40	55	24	18	34	LNGX1005□□-GM	12	K	1.2
-160×18-K40-LN10-14	△	160	40	62	24	18	47		14	K	2.1
-200×18-K50-LN10-16	△	200	50	72	24	18	62		16	K	3.4
-250×18-K50-LN10-18	△	250	50	80	24	18	83		18	K	5.5
-125×20-K40-LN14-10	△	125	40	55	26	20	34	LNGX1407□□-GM	10	K	1.2
-160×20-K40-LN14-12	△	160	40	62	26	20	47		12	K	2.1
-200×20-K50-LN14-14	△	200	50	72	26	20	62		14	K	3.5
-250×20-K50-LN14-16	△	250	50	80	26	20	83		16	K	5.8
-160×25-K40-LN14-12	△	160	40	62	30	25	47	LNGX1407□□-GM	12	K	2.8
-200×25-K50-LN14-14	△	200	50	72	30	25	62		14	K	4.5
-250×25-K50-LN14-16	△	250	50	80	30	25	83		16	K	7.5

▲Stock available △Make-to-order

Spare parts

Diameter ØD	Edge width ap	Inserts	Screw	Wrench	
Ø80-Ø200	10	LNGX1005□□-GM	I60M3.5×8TT	WP10IS	
Ø100-Ø200	12	LNGX1407□□-GM	I60M4×10	WP15IS	
Ø100-Ø250	14-18	LNGX1005□□-GM	I60M3.5×8TT	WP10IS	
Ø125-Ø315	20-25	LNGX1407□□-GM	I60M4×12	WP15IS	

Tools code key
B24-B25

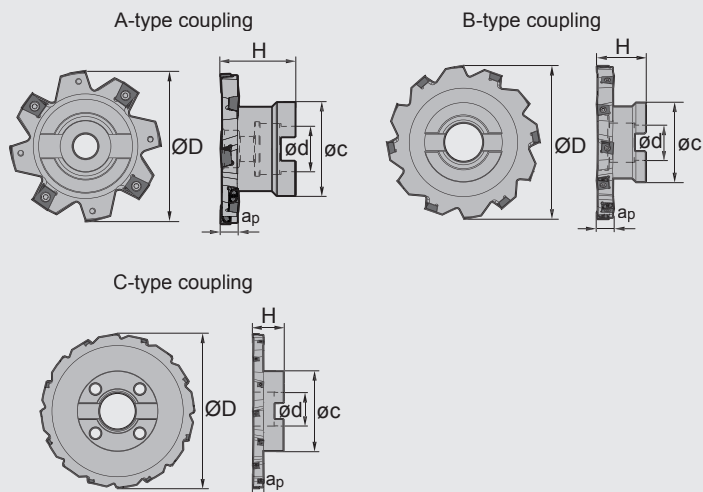
Grade selection guide
B19-B23

Technical data
B234-B240

Side and face milling tools



SMP09 P M K



Specification of tools

Type	Stock	Basic dimensions(mm)						Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
		ØD	ød	øc	H	ap	aemax				
SMP09 -080×10-A22-LN10-08	△	80	22	45	40	10	20	LNGX1005□□-GM	A	0.4	
-100×10-B27-LN10-10	△	100	27	55	45	10	24		B	0.6	
-125×10-B32-LN10-12	△	125	32	65	45	10	33		B	1	
-160×10-B40-LN10-14	△	160	40	80	50	10	42		B	2	
-200×10-C40-LN10-16	△	200	40	92	50	10	53	LNGX1407□□-GM	C	2.9	
-100×12-B27-LN14-08	△	100	27	55	45	12	24		B	0.6	
-125×12-B32-LN14-10	△	125	32	65	45	12	33		B	1	
-160×12-B40-LN14-12	△	160	40	80	50	12	42		B	2.1	
-200×12-C40-LN14-14	△	200	40	92	50	12	53	LNGX1005□□-G	C	2.9	
-100×14-B27-LN10-10	△	100	27	55	50	14	24		B	0.7	
-125×14-B32-LN10-12	△	125	32	65	50	14	33		B	1.2	
-160×14-B40-LN10-14	△	160	40	80	50	14	42		B	2.4	
-200×14-C40-LN10-16	△	200	40	92	50	14	53	LNGX1005□□-GM	C	3.6	
-125×16-B32-LN10-12	△	125	32	65	50	16	33		B	1.4	
-160×16-B40-LN10-14	△	160	40	80	50	16	42		B	2.6	
-200×16-C40-LN10-16	△	200	40	92	50	16	53		C	4	

▲Stock available △Make-to-order

Indexable milling tools

Side and face milling tools

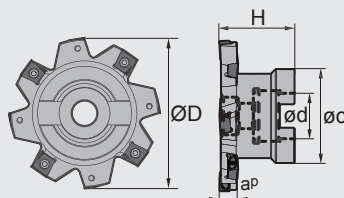
Side and face milling tools



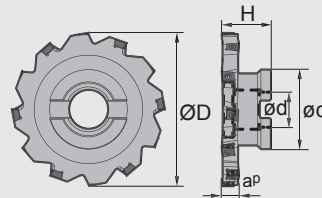
SMP09 P M K



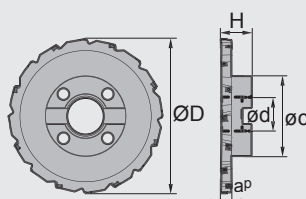
A-type coupling



B-type coupling



C-type coupling



Specification of tools

Type	Stock	Basic dimensions(mm)							Applicable inserts	Number of teeth Z	Type of coupling	Weight (kg)
		ØD	ød	øc	H	ap	aemax					
SMP09 -125×18-B32-LN10-12	△	125	32	65	50	18	33	LNGX1005□□-GM	12	B	1.5	
-160×18-B40-LN10-14	△	160	40	80	50	18	42		14	B	2.9	
-200×18-C40-LN10-16	△	200	40	92	50	18	53		16	C	4.3	
-250×18-C60-LN10-18	△	250	60	132	50	18	58		18	C	7.2	
-125×20-B32-LN14-10	△	125	32	65	50	20	33	LNGX1407□□-GM	10	B	1.6	
-160×20-B40-LN14-12	△	160	40	80	50	20	42		12	B	2.7	
-200×20-C40-LN14-14	△	200	40	92	50	20	53		14	C	4.6	
-250×20-C60-LN14-16	△	250	60	132	50	20	58		16	C	7.4	
-160×25-B40-LN14-12	△	160	40	80	50	25	42	LNGX1407□□-GM	12	B	3.2	
-200×25-C40-LN14-14	△	200	40	92	50	25	53		14	C	5.2	
-250×25-C60-LN14-16	△	250	60	132	50	25	58		16	C	8.6	
-315×25-C60-LN14-20	△	315	60	132	50	25	90		20	C	13.2	

▲Stock available △Make-to-order

Spare parts

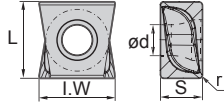
Diameter ØD	Edge width ap	Inserts	Screw	Wrench	
Ø80-Ø200	10	LNGX1005□□-GM	I60M3.5×8TT	WP10IS	
Ø100-Ø200	12	LNGX1407□□-GM	I60M4×10	WP15IS	
Ø100-Ø250	14-18	LNGX1005□□-GM	I60M3.5×8TT	WP10IS	
Ø125-Ø315	20-25	LNGX1407□□-GM	I60M4×12	WP15IS	

Tools code key
B24-B25

Grade selection guide
B19-B23

Technical data
B234-B240

Selection of inserts



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

Workpiece material	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
P	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
M	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
K	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
N	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊
S	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊	😊😊😊😊😊

Insert shape	Type	Basic dimensions(mm)					CVD Coating					PVD Coating					Cermet	Cemented carbide												
		I.W	L	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201		
	LNGX100504-GM	9.9	10	5.5	4.1	0.4			●								●													
	LNGX100508-GM	9.9	10	5.5	4.1	0.8			●									●												
	LNGX100512-GM	9.9	10	5.5	4.1	1.2			●										●											
	LNGX100516-GM	9.9	10	5.5	4.1	1.6			●											●										
	LNGX100520-GM	9.9	10	5.5	4.1	2.0			●												●									
	LNGX100524-GM	9.9	10	5.5	4.1	2.4			●													●								
	LNGX100530-GM	9.9	10	5.5	4.1	3.0			●														●							
	LNGX100540-GM	9.9	10	5.5	4.1	4.0			●															●						
	LNGX140704-GM	13.4	14	7.5	4.4	0.4			●																					
	LNGX140708-GM	13.4	14	7.5	4.4	0.8			●																					
	LNGX140712-GM	13.4	14	7.5	4.4	1.2			●																					
	LNGX140716-GM	13.4	14	7.5	4.4	1.6			●																					
	LNGX140720-GM	13.4	14	7.5	4.4	2.0			●																					
	LNGX140724-GM	13.4	14	7.5	4.4	2.4			●																					
	LNGX140730-GM	13.4	14	7.5	4.4	3.0			●																					
	LNGX140740-GM	13.4	14	7.5	4.4	4.0			●																					
LNGX140750-GM	13.4	14	7.5	4.4	5.0			●																						

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Recommended cutting parameters

Workpiece material	Hardness HB	Insert grade	Cutting parameters	
			Vc(m/min)	fz(mm/z)
P Steel	Low-carbon steel, Soft steel	YB9320 YBM253	150(100-200)	0.12(0.1-0.3)
	High-carbon steel, Alloy steel	YB9320 YBM253	120(80-200)	0.12(0.1-0.3)
	Alloy tool steel	YB9320 YBM253	100(80-200)	0.12(0.1-0.3)
M Stainless steel	≤ 270	YB9320 YBM253	100(80-200)	0.08(0.05-0.15)
K Cast iron, Ductile iron, High nickel cast iron	180-250	YB9320 YBM253	150(100-250)	0.08(0.05-0.15)

Indexable milling tools

Side and face milling tools