



EJ Carbide Co.,Ltd

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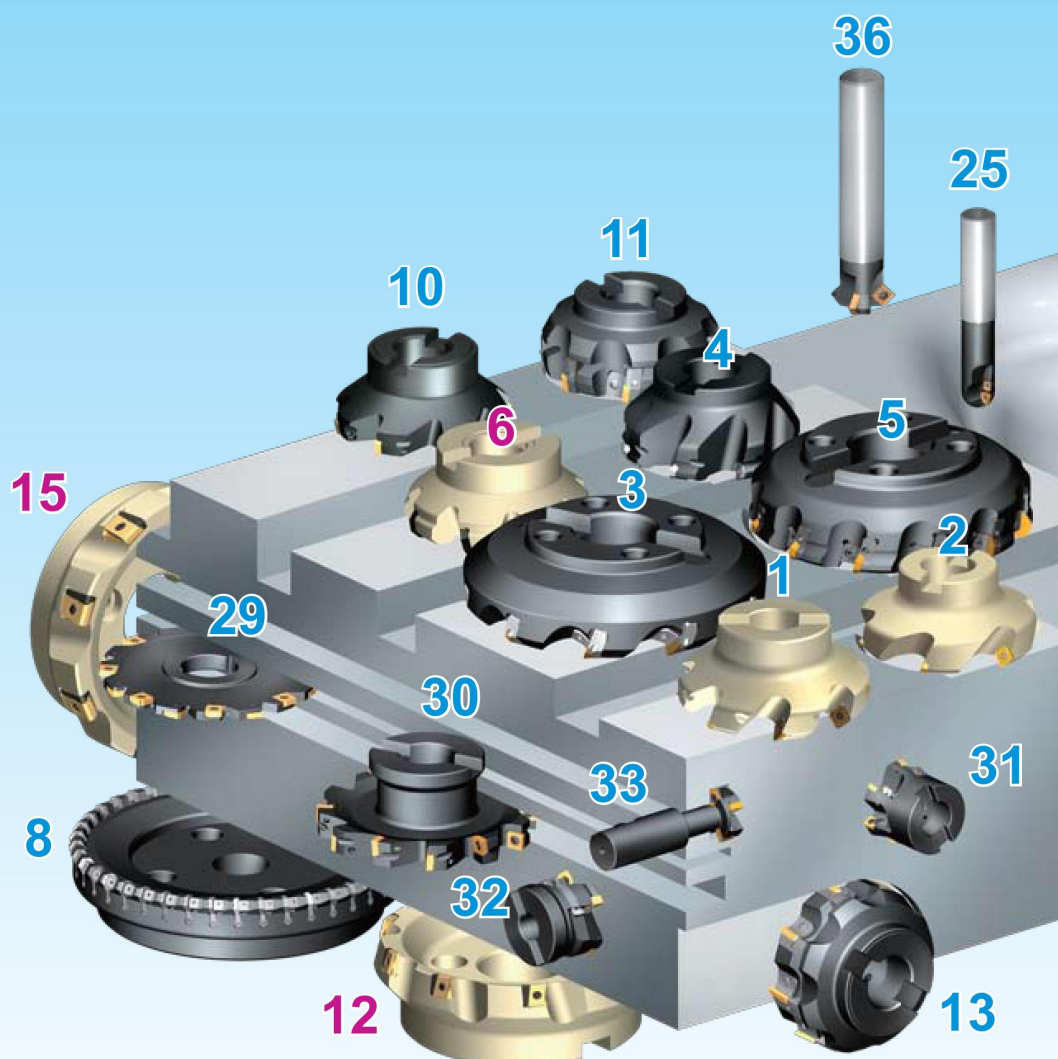


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Indexable milling tools family



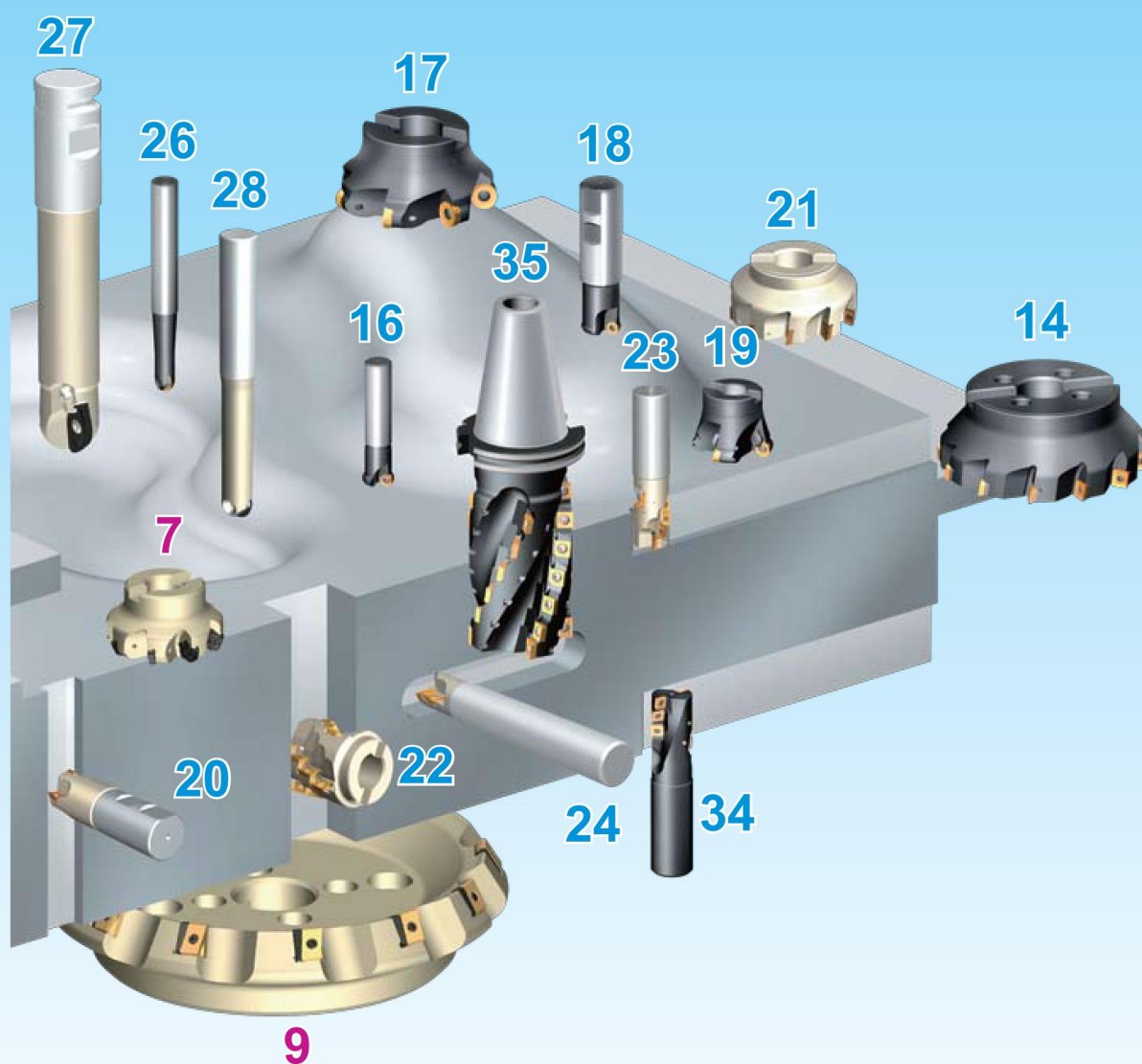
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2	FMA02	B23	9	FMD03	B47	16	FMR01	B68
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26	BMR02	B97	33	TMP01	B133			
27	BMR03	B99	34	HMP01(Ø40-Ø50)	B135			
28	BMR04	B111	35	HMP01(Ø50-Ø80)	B136			



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Indexable Milling Tools

Indexable milling tools overview

MILLING

Operating pattern	Series/Shape	Approach angle / Max. cutting depth.	Applicable insert	Application overview	Features
Face milling	FMA01  B22	Kr=45° a _p max=6.0	SEET12T3-DF/DM/DR SEET12T3-CF/CM/CR SEET12T3-EF/EM SEET12T3-LH/W	General face milling of the following materials: steel, alloy steel, stainless steel, cast iron, aluminum alloy, high-temperature alloy	- Diameter range Ø50-Ø315 - Large rake angle makes cutting easier and faster - Wide applications can be achieved by using available inserts with different chipbreakers - Adopting inserts with wiper can improve surface quality
	FMA02  B23	Kr=45° a _p max=6.0	SEET12T3-DF/DM/DR SEET12T3-CF/CM/CR SEET12T3-EF/EM SEET12T3-LH/W	General face milling of the following materials: steel, alloy steel, stainless steel, cast iron, aluminum alloy, high-temperature alloy	- Diameter range Ø50-Ø315 - Large rake angle makes cutting easier and faster - Wide applications can be achieved by using available inserts with different chipbreakers - Coarse and differential pitch, reducing vibration
	FMA03  B27	Kr=45° a _p max=5.5	SE□N1203AF□□ SE□R1203AF□□	General face milling of steel, stainless steel, cast iron	- Diameter range Ø80-Ø315 - Large rake angle makes cutting easier and faster - Top clamping achieves better vibration resistance.
		Kr=45° a _p max=7.5	SE□N1504AF□□ SE□R1504AF□□		
	FMA04  B30	Kr=45° a _p max=3.5	OFKT05T3-DF/DM OFKT05T3-LH	Face milling of steel, alloy steel, cast iron, aluminum alloy	- Diameter range Ø50-Ø160 - High-economy milling tool with 8 cutting edges - Screw clamping, high precision
	 B34	Kr=45° a _p max=5.0	OFKR0704-DF/DM	Face milling of steel, alloy steel and cast iron	- Diameter range Ø125-Ø315 - High-economy milling tool with 8 cutting edges - Top clamping makes it easy to assemble and disassemble
	FMA07  B39	Kr=45° a _p max=4.0	ONHU060408-PF/PM/W	General face milling of iron, cast steel	- Diameter range Ø25-Ø50 - High-economy milling tool with 16 cutting edges
	 B38	Kr=45° a _p max=5.0	ONHU08T508-PF/PM/W	General face milling of iron, cast steel	- Diameter range Ø50-Ø315 - High-economy milling tool with 16 cutting edges
	FMD02  B42	Kr=67° a _p max=5.0	PNEG110512R-CR PNEG110512R-CM	Face milling of cast iron	- Diameter range Ø50-Ø315 - High-economy milling tool with 10 cutting edges
	 B45	Kr=55° a _p max=6.0	HNEX090512-DF/DM HNEX090512-DR	Face milling of cast iron	- Diameter range Ø80-Ø315 - High-economy milling tool with 12 cutting edges - Top clamping makes it easy to assemble and disassemble
	FMD03  B47	Kr=60° a _p max=12.0	LNKT2007DN-ZR	Heavy-duty face milling of steel and alloy steel	- Diameter range Ø125-Ø400 - Double positive rake angles can reduce cutting forces - Inserts are mounted upright, suitable for heavy machining with high cutting depth - Easy to assemble and clamp inserts
		Kr=60° a _p max=17.0	LNKT2510-ZR		
	FME02  B50	Kr=75° a _p max=6.0	SPKW1204EDFR SPKW1204EDSR SPKT1204EDR	Face milling of steel, alloy steel and cast iron	- Diameter range Ø50-Ø125 - Kr 750, general face milling - Wide applications can be achieved by using inserts with different chipbreakers

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Indexable milling tools

Indexable milling tools overview



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Operating pattern	Series/Shape	Approach angle / Max. cutting depth.	Applicable insert	Application overview	Features
Face milling	FME03  B52	Kr=75° a _p max=6.0	SP□N1203(1504)ED□□ SP□R1203(1504)ED□□	Face milling of steel, alloy steel and cast iron	- Diameter range Ø80-Ø315 - Kr 75°, general face milling - Top clamping makes it easy to assemble and disassemble
	FME04  B56	Kr=75° a _p max=8.0	SP□N1504ED□□ SP□R1504ED□□	Heavy-duty face milling of steel and alloy steel	- Diameter range Ø125-Ø400 - Double positive rake angles can reduce the cutting force - Inserts are mounted upright, suitable for heavy machining at high cutting depth - Easy to assemble and clamp inserts
	FMP01  B58	Kr=90° a _p max=18.0	TP□N2204PD□ TPKN2204PD□ TPKN2204PD□	Face milling of steel, alloy steel and cast iron	- Diameter range Ø80-Ø315 - Kr 90°, for square shoulder milling - Top clamping makes it easy to assemble and disassemble.
	FMP02  B60	Kr=90° a _p max=6.7	SEET09T308PER-PF/PM SEET09T308PER-PR	Face milling of steel, alloy steel, stainless steel and cast iron	- Diameter range Ø50-Ø315 - Kr 90°, for square shoulder millin - Different pitches: coarse pitch, close pitch and extra close pitch - High precision insert, high work-piece surface quality - Optimized chipbreaker and grade, suitable for finishing, semi-finishing and roughing
	FMP03  B66	Kr=90° a _p max=8.0	LNKT1506EN-ZR	Heavy-duty face milling of steel and alloy steel	- Diameter range Ø125-Ø315 - Double positive rake angles can reduce the cutting force - Inserts are mounted upright, suitable for heavy machining at high cutting depth - Easy to assemble and clamp inserts
		Kr=90° a _p max=12.0	LNKT2007DN-ZR		
		Kr=90° a _p max=15.0	LNKT2510-ZR		
	FMR01  B68	a _p max=5.0	RCKT10T3MO-DM	Cavity profile milling of steel, alloy steel, stainless steel and cast iron	- Diameter range Ø25-Ø50 - R-type inserts have extra-strong cutting edges - Suitable for machining of curved surface of die - Economical milling tools with screw clamping
		a _p max=6.0	RCKT1204MO-DM/DR		
	FMR02  B71	a _p max=6.0	RCKT1204MO-DM/DR	Face milling and cavity profile milling of steel, alloy steel, stainless steel and cast iron	- Diameter range Ø63-Ø200 - R-type inserts have extra-strong cutting edges - Suitable for machining of curved surface of die - Economical milling tools with screw clamping
		a _p max=8.0	RCKT1606MO-DM/DR		
		a _p max=10.0	RCKT2006MO-DR		
	FMR03  B73	a _p max=4.0	RDKW0803MO	Cavity profile milling of steel, alloy steel, stainless steel and cast iron	- Diameter range Ø25-Ø50 - R-type inserts have extra-strong cutting edges - Suitable for machining of curved surface of die - Economical milling tools with screw clamping
		a _p max=5.0	RDKW10T3MO		
		a _p max=6.0	RDKW1204MO		
	FMR04  B75	a _p max=6.0	RDKW1204MO	Face milling and cavity profile milling of steel, alloy steel, stainless steel and cast iron	- Diameter range Ø50-Ø160 - R-type inserts have extra-strong cutting edges - Suitable for machining of curved surface of die
		a _p max=8.0	RDKW1605MO		
		a _p max=10.0	RDKW2006MO		



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Square shoulder milling	EMP01  B78	Kr=90° a _p max=10.5	APKT11T3□□-PF/PM/PR APKT11T3□□-LH	Multi-function milling of steel, alloy steel, stainless steel, cast iron and Al alloy	- Two mounting styles: Straight shank and Weldon shank, diameter range Ø12-Ø63 - Kr 90°, for square shoulder milling, slot milling, ramp milling, etc. - Inserts with wiper, also suitable for face milling. - Inserts with 3D helical cutting edge, less cutting force
		Kr=90° a _p max=15.5	APKT160408- PF/PM/PR APKT160408-LH		
	EMP02  B85	Kr=90° a _p max=10.5	APKT11T3□□- PF/PM/PR APKT11T3□□-LH	Face milling of steel, alloy steel, stainless steel, cast iron and Al alloy	- Diameter range Ø50-Ø160 - Kr 90°, for square shoulder milling, slot milling, ramp milling, etc. - Inserts with wiper, also suitable for face milling - Inserts with 3D helical cutting edge, less cutting force
		Kr=90° a _p max=15.5	APKT160408- PF/PM/PR APKT160408-LH		
	EMP03  B88	Kr=90° a _p max=39.0	APKT11T3□□-PF/PM/PR APKT11T3□□-LH	Milling of steel, alloy steel, stainless steel, cast iron and Al alloy at high cutting depth	- Diameter range Ø50-Ø100 - End mills with positive helical angle, good chip removal - For side face milling and slot machining - Close pitch, high machining efficiency
	EMP04  B89	Kr=90° a _p max=58.0	APKT11T3□□-PF/PM/PR APKT11T3□□-LH	Multi-function drilling and milling of steel alloy steel, stainless steel and cast iron	- Diameter range Ø20-Ø40 - End mills with positive helical angle, good chip removal - For side face milling and slot machining - Close pitch, high machining efficiency
	EMP05  B93	Kr=90° a _p max=40.0	APMT1135PDR APMT160408PDER	Face milling of steel, alloy steel, stainless steel, cast iron and Al alloy	- Diameter range Ø25-Ø40 - End edge over center, for drilling directly

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Operating pattern	Series/Shape	Approach angle / Max. cutting depth.	Applicable insert	Application overview	Features
Profile milling	BMR01  B95	Cutting depth: see the detailed information about tool specifications	ZDET□□CYR□□ ZPNT2204CYR□□ SPMT060304 SDMT□□	Profile machining of steel, stainless steel and cast iron	- Diameter range Ø20-Ø63 - Very suitable for rough machining large mold - Ball nose cutter with 3-cutting-edge inserts, perfect economical efficiency
	BMR02  B97		ROHX□□	Profile machining of steel, stainless steel and cast iron	- Diameter range Ø12-Ø20 - For profile finish machining. - Stable assembly - Insert with two cutting edges, perfect economical efficiency
	BMR03  B99  B100  B101  B102		XPHT□□R□□- GM	Profile machining of steel, stainless steel and cast iron	- Diameter range Ø12-Ø20 - For profile finish machining. - Stable assembly - Insert with two cutting edges, perfect economical efficiency.
	BMR04  B111  B112		ZOHX□□	Profile machining of steel, stainless steel and cast iron	- Diameter range Ø10-Ø40 - High precision, for finish profile machining - Two types of chipbreaker, used in different machining conditions - High assembling precision, good stability

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Side and face milling	SMP01  B119	Cutting depth: see the detailed information about tool specifications	XSEQ12□□	Slot milling of steel, stainless steel and cast iron	- Diameter range Ø100-Ø250 - Two mounting styles: mounting by keyway and Arbor mounting - Groove width range : 4, 5, 6, 7, 8mm
	 B120				
	SMP03  B122		MPHT□□	Slot milling of steel, stainless steel and cast iron	- Diameter range Ø80-Ø250 - Two mounting styles: mounting by keyway and arbor mounting - Groove width range : 8, 10, 12, 16, 18, 20mm
	 B123				
Special milling (high feed)	XMR01  B125	Cutting depth: see the detailed information about tool specifications	SDMT□□-DM	Slot milling of steel, stainless steel and cast iron	- Diameter range Ø25-Ø100 - Two mounting types: straight shank and arbor mounting - Cutting forces are resolved effectively, achieving cutting with high feed rate - For plunge milling - Double clamping, firm and reliable
	 B125				
	 B127		WPGT□□ZSR	Face and cavity profile milling of steel, stainless steel and cast iron in cavity applications	- Diameter range Ø25-Ø100 - Two mounting types: straight shank and arbor mounting - Cutting forces are resolved effectively, achieving cutting with high feed rate - Double clamping, firm and reliable
	 B128				
T-slot milling	TMP01  B133	Kr=90°	MPHT□□	Machining T slot in cast iron	- Diameter range Ø21-Ø60 - Machining T-slot with nominal size 12, 14, 18, 22, 28, 36 86° rhombic inserts with positive angle

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Helical end mills	HMP01  B135	Kr=90° a _p max=55	APKT150412-PM/KM SPMT120408-PM/KM	Milling of steel, alloy steel and cast iron at high cutting depth.	Diameter range Ø40、Ø80 Coarse and differential pitch, less vibration Holistic structure with good rigidity, interchangeable heads achieve high economical efficiency
	 B136	Kr=90° a _p max=144			
	HMP01 EC  B137	Kr=90° a _p max=144			
Chamfer milling	CMZ01  B140	Kr=30°	SPMT120408	Chamfer machining of steel, alloy steel, stainless steel and cast iron	Diameter range Ø12、Ø25、Ø32、Ø36 With the function of milling small surface
	CMA01  B141	Kr=45°			
	CMD01  B142	Kr=60°			

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MILLING

Indexable Milling Tools

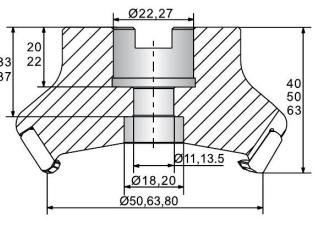
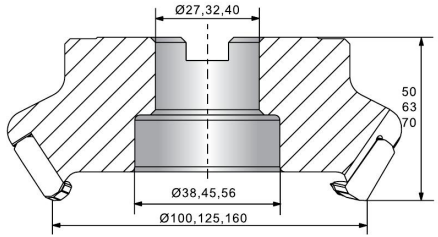
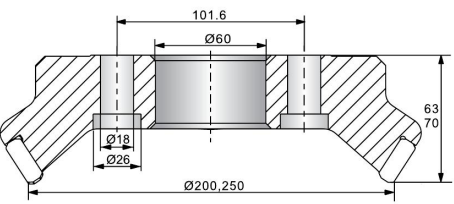
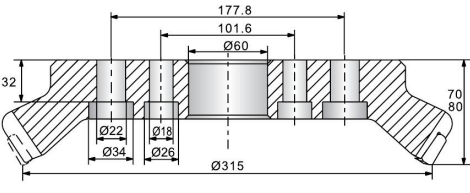
Indexable milling tools code key

Cutter type		Approach angle		Series code	
FM	Face milling	P	90° 	Cutting diameter ØD Side and face milling tool : diameter X cutting edge width	
EM	Square shoulder milling	E	75° 		
HM	Helical end milling	D	60° 	Coupling structure (see below)	
SM	Side and face milling	A	45° 		
BM	Profile milling	R			
CM	Chamfer milling				
XM	Special milling			Coupling size (mm) (see below)	
TM	T-slot milling				

Coupling structure (see below)			
A	A-type coupling	XP	Weldon shank
B	B-type coupling	G	Straight shank
C	C-type coupling	MW	Morse adapter with a conical hole and without a flat tail
D	D-type coupling		

FM E 03-100-B 32

Coupling structure of arbor

A-type coupling		B-type coupling	
	Ø50- Ø80 arbor face milling cutter as per GB5342-96		Ø100- Ø160 arbor face milling cutter as per GB5342-96
C-type coupling		D-type coupling	
	Ø200- Ø250 arbor face milling cutter as per GB5342-96		D≥Ø315 arbor face milling cutter as per GB5342-96

For coupling methods of Weldon shank, straight shank and Morse taper shank, etc., see technical information of tooling systems.

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Indexable milling tools

Indexable milling tools code key



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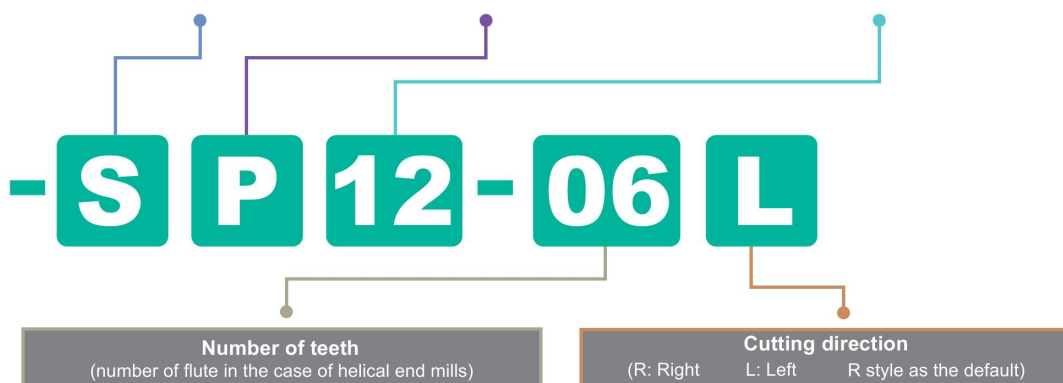
Indexable Milling Tools

MILLING

Insert shape	
 C	 D
 R	 S
 T	 L
 H	 O

Insert clearance angle	
N	0°
B	5°
C	7°
P	11°
D	15°
E	20°
F	25°

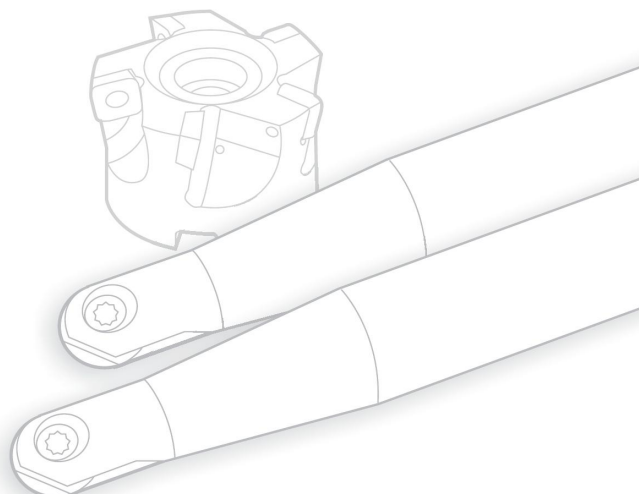
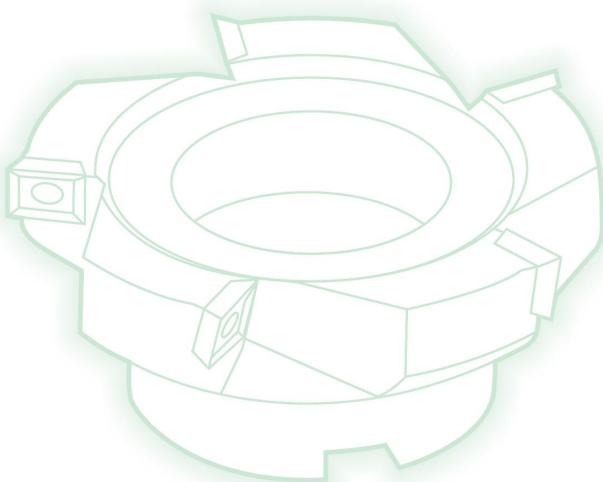
Diameter of insert's inscribed circle	Length of cutting edge					
	C	D	R	S	T	L
5.556	—	—	—	—	09	—
6.350	06	07	—	—	11	—
9.525	09	11	09	09	16	—
12.700	12	15	12	12	22	—
15.875	16	19	15	15	27	—
19.050	19	—	19	19	33	—
25.400	25	—	25	25	44	2



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MILLING

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Face milling tools

Kr:45°

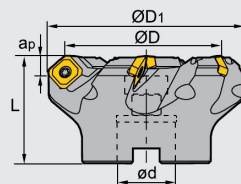


FMA01 P M K N S

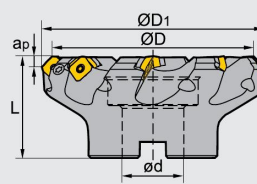


Close and even pitch

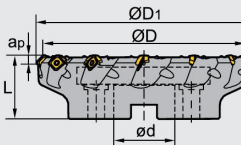
A-type coupling



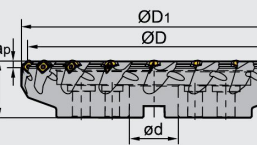
B-type coupling



C-type coupling



D-type coupling



Specification of tools

Type		Stock		Basic dimensions(mm)					Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ØD ₁	ød	L	a _{pmax}			
FMA01	-050-A22-SE12-04	▲	△	50	61	22	40	6	4	A	0.3
	-063-A22-SE12-05	▲	△	63	74	22	40	6	5	A	0.5
	-080-A27-SE12-06	▲	△	80	91	27	50	6	6	A	1.2
	-100-B32-SE12-07	▲	△	100	107	32	50	6	7	B	1.2
	-125-B40-SE12-08	▲	△	125	136	40	63	6	8	B	2.6
	-160-B40-SE12-10	▲	△	160	170	40	63	6	10	B	4.3
	-200-C60-SE12-12	▲	△	200	210	60	63	6	12	C	7.6
	-250-C60-SE12-14	▲	△	250	260	60	63	6	14	C	13.5
	-315-D60-SE12-18	△	△	315	325	60	70	6	18	D	20.8

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Insert screw	Shim	Shim screw	Wrench	Wrench
Ø50-Ø100	I60M3.5×10	--	--	WT15IS	--
Ø125-Ø315	I60M3.5×12	S13BS	SM5×7XA		WH35L





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Indexable Milling Tools

MILLING

Face milling tools

Kr:45°

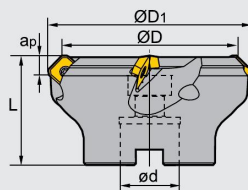


FMA02 P M K N S

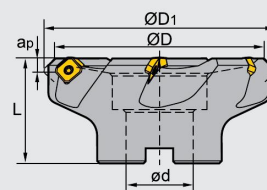


Coarse and differential pitch

A-type coupling



B-type coupling



Specification of tools

Type	Stock	Basic dimensions(mm)							Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ØD ₁	ød	L	a _{pmax}			
FMA02	-050-A22-SE12-03	▲	△	50	61	22	40	6	3	A	0.4
	-063-A22-SE12-04	▲	△	63	74	22	40	6	4	A	0.6
	-080-A27-SE12-04	▲	△	80	91	27	50	6	4	A	1.3
	-100-B32-SE12-05	▲	△	100	107	32	50	6	5	B	1.3
	-125-B40-SE12-06	▲	△	125	131	40	63	6	6	B	2.6

▲Stock available

△Make-to-order

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Indexable milling tools

Face milling tools

Spare parts

Diameter ØD	Insert screw	Wrench	
Ø50-Ø125	I60M3.5×10	WT15IS	

Tools code key [B20-B21](#)

Grade selection guide [B15-B19](#)

Technical data [B168-B173](#)



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MILLING

Face milling tools

Kr:45°



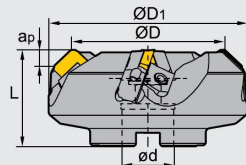
Face milling

Chamfering

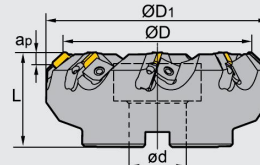
FMA03 P M K



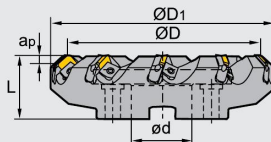
A-type coupling



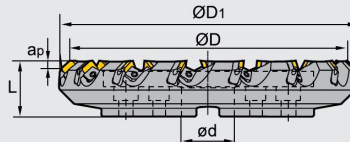
B-type coupling



C-type coupling



D-type coupling



Specification of tools

Type		Stock		Basic dimensions(mm)					Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ØD ₁	ød	L	a _{pmax}			
FMA03	-080-A27-SE12-04	▲	△	80	103	27	50	5.5	4	A	1.8
	-100-B32-SE12-05	▲	△	100	122	32	50	5.5	5	B	2.4
	-125-B40-SE12-06	▲	△	125	147	40	63	5.5	6	B	4.4
	-160-B40-SE12-08	▲	△	160	181	40	63	5.5	8	B	6.4
	-200-C60-SE12-10	▲	△	200	221	60	63	5.5	10	C	8.5
	-250-C60-SE12-12	▲	△	250	270	60	63	5.5	12	C	14.1
	-315-D60-SE12-15	△	△	315	353	60	63	5.5	15	D	22.2
	-080-A27-SE15-04	▲	△	80	103	27	50	7.5	4	A	1.7
	-100-B32-SE15-05	▲	△	100	122	32	50	7.5	5	B	2.3
	-125-B40-SE15-06	▲	△	125	147	40	63	7.5	6	B	4.2
	-160-B40-SE15-08	▲	△	160	181	40	63	7.5	8	B	6.1
	-200-C60-SE15-10	▲	△	200	221	60	63	7.5	10	C	8.3
	-250-C60-SE15-12	▲	△	250	270	60	63	7.5	12	C	13.6
	-315-D60-SE15-15	▲	△	315	353	60	63	7.5	15	D	21.8

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Inserts	Locator	Wedge	Wedge screw	Locator screw	Wrench
Ø80-Ø315	SE12	LSE12R/L	W01R/L	DM8×21X	LOM5×15.1	WT20T WH40T
Ø80-Ø315	SE15	LSE15R/L				



Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**

B
Indexable
milling tools
Face milling tools



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MILLING

Indexable Milling Tools

Face milling tools

Kr:45°



Face milling

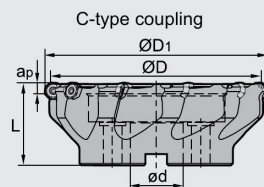
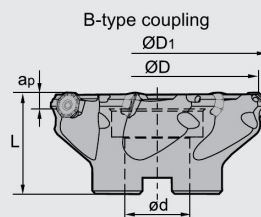
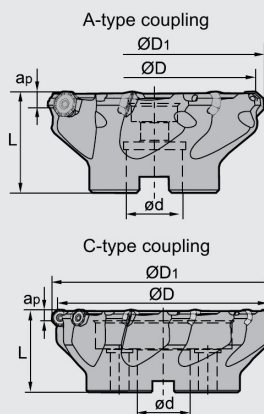


Chamfering

FMA04 P M K N



Screw clamping



Specification of tools

Type		Stock		Basic dimensions(mm)					Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ØD ₁	ød	L	a _{pmax}			
FMA04	-050-A22-OF05-04	▲	△	50	56	22	40	3.5	4	A	0.3
	-050-A22-OF05-05	△	△	50	56	22	40	3.5	5	A	0.4
	-063-A22-OF05-05	▲	△	63	69	22	40	3.5	5	A	0.5
	-080-A27-OF05-06	▲	△	80	86	27	50	3.5	6	A	0.8
	-100-B32-OF05-07	▲	△	100	106	32	50	3.5	7	B	1.2
	-125-B40-OF05-08	▲	△	125	130	40	63	3.5	8	B	2.7
	-160-B40-OF05-10	▲	△	160	165	40	63	3.5	10	B	5.1
	-160-C40-OF05-10	△	△	160	165	40	63	3.5	10	C	4.1

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Insert screw	Wrench	
Ø50- Ø63	I60M4×8.4	WT15IS	
Ø80 -Ø160	I60M4×10		



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MILLING

Indexable Milling Tools

Face milling tools

Kr:45°

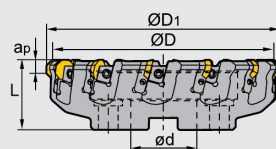


FMA04 P M K

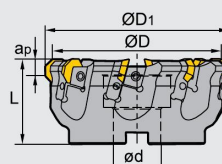


Top clamping

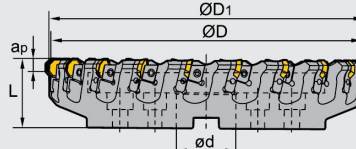
C-type coupling



B-type coupling



D-type coupling



Specification of tools

Type		Stock		Basic dimensions(mm)					Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ØD ₁	ød	L	a _{pmax}			
FMA04	-125-B40-OF07-08	▲	△	125	136	40	63	5	8	B	3.9
	-160-B40-OF07-10	▲	△	160	171	40	63	5	10	B	5.9
	-200-C60-OF07-12	▲	△	200	211	60	63	5	12	C	7.6
	-250-C60-OF07-16	▲	△	250	261	60	63	5	16	C	13.3
	-315-D60-OF07-20	▲	△	315	321	60	63	5	20	D	20.3

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Locator	Wedge	Wedge screw	Locator screw	Wrench
Ø125-Ø315	LOF07R/L	W02R/L	DM8×21X	LOM5×15.1	WT20T WH40T





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MILLING

Indexable Milling Tools

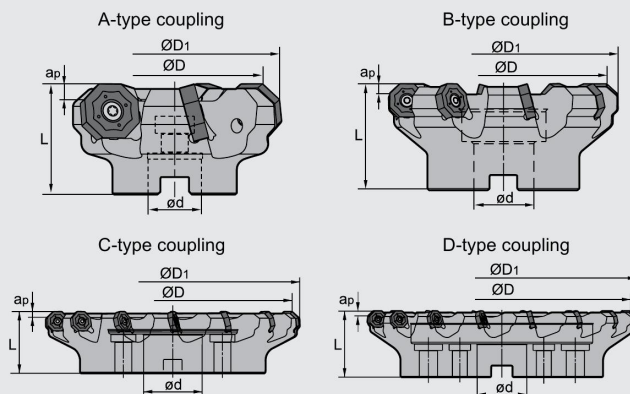
Face milling tools

Kr:45°



Face milling

FMA07 P M K



Specification of tools

type	Stock		Basic dimensions(mm)					Number of teeth Z	Style of coupling	Weight (kg)
	R	L	ØD	ØD ₁	Ød	L	a _{pmax}			
FMA07										
-050-A22-ON06-05	▲	△	50	62	22	40	4	5	A	0.3
-063-A22-ON06-06	▲	△	63	75	22	40	4	6	A	0.5
-080-B27-ON06-07	▲	△	80	92	27	50	4	7	B	1.0
-100-B32-ON06-08	▲	△	100	112	32	63	4	8	B	1.9
-125-B40-ON06-09	▲	△	125	137	40	63	4	9	B	3.5
-160-C40-ON06-11	▲	△	160	172	40	63	4	11	C	4.3
-200-C60-ON06-13	▲	△	200	212	60	63	4	13	C	6.4
-250-C60-ON06-15	▲	△	250	262	60	63	4	15	C	13.4
-315-D60-ON06-17	▲	△	315	327	60	80	4	17	D	21.9
-063-A22-ON08-05	▲	△	63	78	22	40	5	5	A	0.5
-080-B27-ON08-06	▲	△	80	95	27	50	5	6	B	0.9
-100-B32-ON08-07	▲	△	100	115	32	63	5	7	B	1.8
-125-B40-ON08-08	▲	△	125	140	40	63	5	8	B	3.1
-160-C40-ON08-10	▲	△	160	175	40	63	5	10	C	4.1
-200-C60-ON08-12	▲	△	200	215	60	63	5	12	C	6.1
-250-C60-ON08-14	▲	△	250	265	60	63	5	14	C	12.0
-315-D60-ON08-16	▲	△	315	330	60	80	5	16	D	21.0

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Inserts	Insert screw	Wrench	
Ø50 -Ø315	ONHU06□□□□-PF/PM/W	I60M4×10	--	WT15IS
Ø63 -Ø315	ONHU08□□□□-PF/PM/W	I60M5×13	WT20IT	--





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Indexable Milling Tools

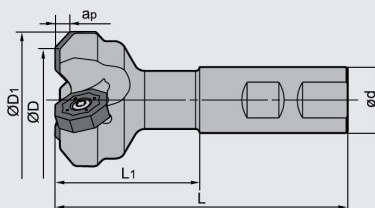
MILLING

Face milling tools

Kr:45°



FMA07 P M K



Specification of tools

type	Stock		Basic dimensions(mm)						Number of teeth Z	Weight (kg)
	R	L	ØD	ØD1	Ød	L	L1	apmax		
FMA07 -025-XP20-ON06-02	▲	△	25	37	20	95	45	4	2	0.2
-040-XP25-ON06-03	▲	△	40	52	25	106	50	4	3	0.4
-032-XP25-ON08-02	▲	△	32	47	25	111	55	5	2	0.4
-040-XP25-ON08-03	▲	△	40	55	25	111	55	5	3	0.5
-050-XP25-ON08-04	▲	△	50	65	25	111	55	5	4	0.6

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Inserts	Insert screw	Wrench	
Ø25 -Ø40	ONHU06□□□□-PF/PM/W	I60M4×10	--	WT15IS
Ø32 -Ø50	ONHU08□□□□-PF/PM/W	I60M5×13	WT20IT	--



Case for FMA07



Part: Gear pump body
Workpiece material: HT400
Hardness: HRC22
Cooling system: Dry cutting
Machine: Vertical machining center
Cutting parameters: $V_c=267\text{m/min}$
 $a_p=1.5\text{mm}$
 $f_z=0.42\text{mm/z}$
 $a_e=80\text{mm}$



■ Tool type: FMA07-100-B32-ON08-07

■ Insert type/grade: ONHU08T508-PM/YBD152

Milling style: Down milling
Area of machining: End surface

Comparison of insert abrasion



Tools code key B20-B21

Grade selection guide B15-B19

Technical data B168-B173



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MILLING

Indexable Milling Tools

Face milling tools

Kr:67°

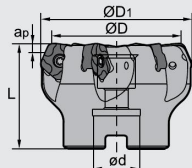


Face milling

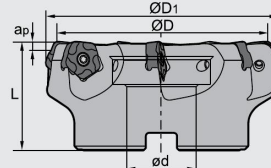
FMD02 K



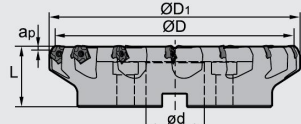
A-type coupling



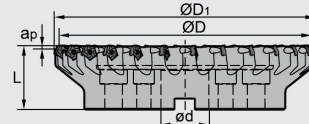
B-type coupling



C-type coupling



D-type coupling



Specification of tools

type	Stock		Basic dimensions(mm)					Number of teeth Z	Style of coupling	Weight (kg)
	R	L	ØD	ØD ₁	Ød	L	a _{pmax}			
FMD02 Coarse pitch (unequal pitch)	▲	△	50	60.1	22	50	5	4	A	0.6
	▲	△	63	73.1	22	50	5	5	A	0.8
	▲	△	80	90.1	27	50	5	6	A	1.1
	▲	△	100	110.1	32	50	5	7	B	1.8
	▲	△	125	135.1	40	63	5	8	B	2.9
	▲	△	160	170.1	40	63	5	10	B	5.6
	▲	△	200	210.1	60	63	5	12	C	7.9
	▲	△	250	260.1	60	63	5	14	C	13.4
Close pitch	▲	△	50	60.1	22	50	5	5	A	0.6
	▲	△	63	73.1	22	50	5	6	A	0.9
	▲	△	80	90.1	27	50	5	8	A	1.2
	▲	△	100	110.1	32	50	5	10	B	1.9
	▲	△	125	135.1	40	63	5	12	B	3.2
	▲	△	160	170.1	40	63	5	14	B	6.4
	▲	△	200	210.1	60	63	5	16	C	8.5
	▲	△	250	260.1	60	63	5	18	C	18.0
	▲	△	315	325.1	60	80	5	26	D	24.5

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Insert screw	Wrench	
Ø50 - Ø315	I60M4×10	WT15IS	



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Indexable Milling Tools

MILLING

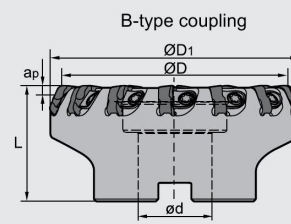
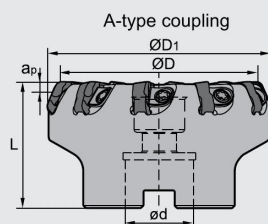
Face milling tools

Kr:67°



Face milling

FMD02 K



Specification of tools

type	Stock		Basic dimensions(mm)					Number of teeth Z	Style of coupling	Weight (kg)
	R	L	ØD	ØD ₁	Ød	L	a _{pmax}			
FMD02 Extra close pitch	▲	△	80	90.1	27	50	5	10	A	1.3
	▲	△	100	110.1	32	50	5	14	B	1.6
	▲	△	125	135.1	40	63	5	18	B	3.2
	▲	△	160	170.1	40	63	5	22	B	5.8

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Wedge	Screw	Wrench
Ø80 - Ø160	W18N	DM6×20A	WT15IT

B
Indexable
milling tools
Face milling tools

Tools code key B20-B21

Grade selection guide B15-B19

Technical data B168-B173



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Indexable Milling Tools

MILLING

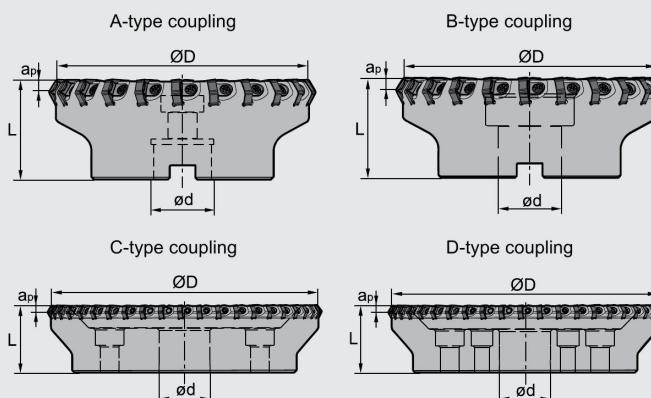
Face milling tools

Kr:55°



Face milling

FMD02 K



Specification of tools

Type		Stock		Basic dimensions(mm)				Number of teeth Z	Type of coupling	Weight (kg)
		R	L	ØD	ød	L	apmax			
FMD02	-080-A27-HN09-10	▲	△	80	27	50	6	8	A	1.1
	-100-B32-HN09-14	▲	△	100	32	63	6	10	B	2.6
	-125-B40-HN09-18	▲	△	125	40	70	6	14	B	3.7
	-160-B40-HN09-22	▲	△	160	40	63	6	18	B	5.6
	-200-C60-HN09-28	▲	△	200	60	63	6	22	C	6.3
	-250-C60-HN09-36	▲	△	250	60	63	6	28	C	10.3
	-315-D60-HN09-44	▲	△	315	60	63	6	32	D	21.7

▲Stock available

△Make-to-order

Spare parts

Diameter ØD	Wedge	Wedge screw	Wrench
Ø80-Ø315	W18N	DM6×20A	WT15IT



Tools code key [B20-B21](#)

Grade selection guide [B15-B19](#)

Technical data [B168-B173](#)



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Indexable Milling Tools

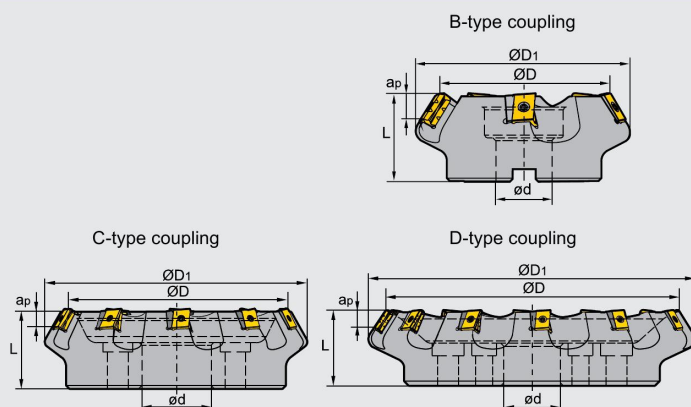
MILLING

Face milling tools

Kr:60°



FMD03 P M K



Specification of tools

type		Stock		Basic dimensions(mm)					Number of teeth Z	Applicable inserts	Style of coupling	Weight (kg)
		R	L	ØD	ØD ₁	Ød	L	a _{pmax}				
FMD03	-125-B40-LN20-06	▲	△	125	153	40	63	12	6	LNKT2007DN-ZR	B	4.5
	-160-C40-LN20-08	▲	△	160	187	40	63	12	8		C	6.9
	-200-C60-LN20-10	▲	△	200	227	60	70	12	10		C	10.5
	-250-C60-LN20-12	▲	△	250	276	60	70	12	12		C	13.4
	-315-D60-LN20-15	▲	△	315	339	60	80	12	15		D	26.2
	-125-B40-LN25-05	▲	△	125	154	40	63	17	5	LNKT2510-ZR	B	4.5
	-160-C40-LN25-06	▲	△	160	189	40	63	17	6		C	6.9
	-200-C60-LN25-08	▲	△	200	229	60	70	17	8		C	10.5
	-250-C60-LN25-10	▲	△	250	278	60	70	17	10		C	16.7
	-315-D60-LN25-12	▲	△	315	346	60	80	17	12		D	27.3
	-400-D60-LN25-16	▲	△	400	427	60	80	17	16		D	47.1

▲Stock available

△Make-to-order

Spare parts

Inserts	Shim	Shim screw	Insert screw	Wrench	
LNKT2007DN-ZR	LLN20R-ZR	I60M3×7	I60M4×15	WT15IS	WT10IS
LNKT2510-ZR	LLN25R-ZR	I60M3.5×10.4	I60M5×17	WT20IT	WT15IS



Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



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Indexable Milling Tools

MILLING

Case for FMD03



- Tool type: FMD03-315-D60-LN25-12
- Insert type/grade: LNK2510-ZR/YBG302

Workpiece material: ASTM A743 CA-6NM级(HB200)

Cooling system: Dry cutting

Machine: NC floor type boring and milling machine,
spindle power $\geq 30\text{KW}$

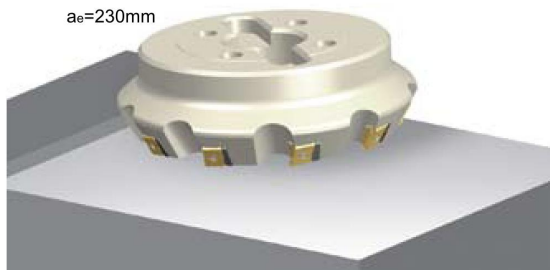
Cutting parameters:

$V_c = 120\text{m/min}$

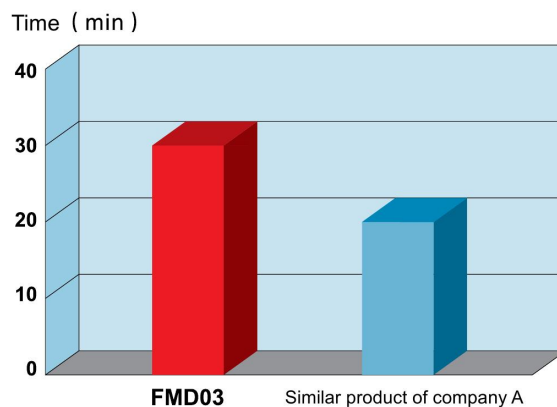
$a_p = 12\text{mm}$

$f_z = 0.55\text{mm/z}$

$a_e = 230\text{mm}$



Comparison of machining time



B
Indexable
milling tools
Face milling tools

