

# B

Milling Tools



# Milling Insert Naming Rule

## Shape

T P K N 22 04 ED T32 R OPM

<b>A</b> 	<b>B</b> 	<b>C</b> 
<b>D</b> 	<b>E</b> 	<b>H</b> 
<b>K</b> 	<b>L</b> 	<b>M</b> 
<b>O</b> 	<b>P</b> 	<b>R</b> 
<b>S</b> 	<b>T</b> 	<b>T</b> 
<b>V</b> 	<b>W</b> 	<b>Z</b> 

## Chip Breaker and Hole

T P K N 22 04 ED T32 R OPM

Symbol	Center Hole	Chip Breaker	Insert Profile	Symbol	Center Hole	Chip Breaker	Insert Profile
<b>B</b>	Y	N		<b>N</b>	N	N	
<b>H</b>	Y	S		<b>R</b>	N	S	
<b>C</b>	Y	N		<b>F</b>	N	D	
<b>J</b>	Y	D		<b>A</b>	Y	N	
<b>W</b>	Y	N		<b>M</b>	Y	S	
<b>T</b>	Y	S		<b>G</b>	Y	D	
<b>Q</b>	Y	N		<b>X</b>			
<b>U</b>	Y	D					

## Clearance Angle

T P K N 22 04 ED T32 R OPM

<b>A</b> 	<b>B</b> 
<b>C</b> 	<b>D</b> 
<b>E</b> 	<b>F</b> 
<b>G</b> 	<b>N</b> 
<b>P</b> 	<b>O</b> Others

## Tolerance

T P K N 22 04 ED T32 R OPM

Symbol	m(mm)	d=l.C.(mm)	s(mm)	(reference)M grade tolerance detail(according to shape, size.) Tolerance of insert nose height						
				Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	Round
<b>A</b>	±0.005	±0.025	±0.025	6.35	±0.08	±0.08	±0.08	±0.11	±0.16	...
<b>F</b>	±0.005	±0.013	±0.025	9.525	±0.08	±0.08	±0.08	±0.11	±0.16	...
<b>C</b>	±0.013	±0.025	±0.025	12.7	±0.13	±0.13	±0.13	±0.15	...	...
<b>H</b>	±0.013	±0.013	±0.013	15.875	±0.15	±0.15	±0.15	±0.18	...	...
<b>E</b>	±0.013	±0.013	±0.013	19.05	±0.15	±0.15	±0.15	±0.18	...	...
<b>J</b>	±0.025	±0.025	±0.025	25.4	...	±0.18	...	...	...	...
<b>G</b>	±0.025	±0.025	±0.13	●Tolerance of Inscribed Circle						
<b>K</b>	±0.013	±0.05-±0.13	±0.025	Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	Round
<b>L</b>	±0.025	±0.05-±0.13	±0.025	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	
<b>M</b>	±0.08-±0.18	±0.05-±0.13	±0.13	9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
<b>N</b>	±0.08-±0.18	±0.05-±0.13	±0.025	12.7	±0.08	±0.08	±0.08	±0.08	...	±0.08
<b>U</b>	±0.13-±0.38	±0.08-±0.25	±0.1	15.875	±0.1	±0.1	±0.1	±0.1	...	±0.1
				19.05	±0.1	±0.1	±0.1	±0.1	...	0.1
				25.4	...	±0.13	±0.13	...	...	±0.13

# Milling Insert Naming Rule

## Cutting Edge Length

T P K N 22 04 ED T32 R OPM

Inscribed Circle diameter(mm)	Insert Shape							
	<b>C</b>	<b>D</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>V</b>	<b>W</b>	<b>K</b>
3.97					06			
5			05					
5.56					09			
6			06					
6.35	06	07			11	11		
8			08					
9.525	09	11	09	09	16	16	06	16
10			10					
12			12					
12.7	12	15	12	12	22	22	08	
15.875	16		15	15	27			
16			19	16				
19.05	19		19	19	33			
20			20					
25	25	25	25					
25.4			25	25				
31.75			31					
32			32					

## Thickness

T P K N 22 04 ED T32 R OPM

Symbol	Thickness(mm)
<b>00</b>	0.79
<b>T0</b>	0.99
<b>01</b>	1.59
<b>T1</b>	1.98
<b>02</b>	2.38
<b>T2</b>	2.58
<b>03</b>	3.18
<b>T3</b>	3.97
<b>04</b>	4.76
<b>T4</b>	4.96
<b>05</b>	5.56
<b>T5</b>	5.95
<b>06</b>	6.35
<b>T6</b>	6.75
<b>07</b>	7.94
<b>09</b>	9.52
<b>T9</b>	9.72
<b>11</b>	11.11
<b>12</b>	12.7

The Height Between Insert Bottom And Nose

## Wiper Land and Clearance Angle

T P K N 22 04 ED T32 R OPM

Symbol	Clearance Angle	Symbol	Clearance Angle
<b>A</b>	45°	<b>A</b>	3°
<b>D</b>	60°	<b>B</b>	5°
<b>E</b>	75°	<b>C</b>	7°
<b>F</b>	85°	<b>D</b>	15°
<b>P</b>	90°	<b>E</b>	20°
<b>Z</b>	其它	<b>F</b>	25°
		<b>G</b>	30°
		<b>N</b>	0°
		<b>P</b>	11°
		<b>Z</b>	其它

## Cutting Edge Preparation(mm)

T P K N 22 04 ED T32 R OPM

Symbol	Preparation 1	Preparation 2	Preparation 3	Preparation 4	Preparation 5	Preparation 6	Preparation 7	Symbol
<b>F</b>								<b>K</b>
<b>E</b>		0 5°	0 0.1					<b>P</b>
<b>T</b>		1 10°	1 0.15					<b>W</b>
<b>S</b>		2 15°	2 0.2					
		3 20°	3 0.25					
		4 25°	4 0.3					
		5 30°	5 0.35					
		6	0.4					
		7	0.45					

## Cutting Direction

T P K N 22 04 ED T32 R OPM

Symbol	Direction
<b>R</b>	Right
<b>L</b>	Left
<b>N</b>	Neutral

## Chip Breaker Code

T P K N 22 04 ED T32 R OPM

Code	Code
<b>OPF</b>	<b>OPM</b>
<b>OPR</b>	

## Milling Tools Naming Rule



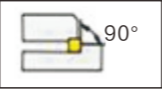
### Type of Tools

FM 45 2 A22 63 5 SN13 L

FM	LM	SM	HM	RM	CM
Face milling Quare-shoulder milling	Indexable Helical Milling Tool	Slot milling	High feed	Profiling tool	Chamfer milling

### Lead Angle

FM 45 2 A22 63 5 SN13 L

45°	75°	90°
		

### Differentiate Code

FM 45 2 A22 63 5 SN13 L

### Cutting Tool Diameter

FM 45 2 A22 63 5 SN13 L

## Milling Tools Naming Rule

### Adaptor Type

FM 45 2 A22 63 5 SN13 L

A	B	C	D	P	W	MT
A interface	B interface	C interface	D interface	Cylindrical shank	Lateral solid	Morse taper shank

### Teeth Number

FM 45 2 A22 63 5 SN13 L

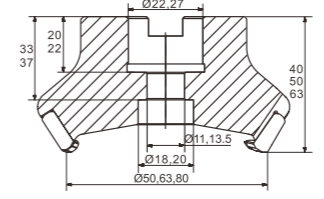
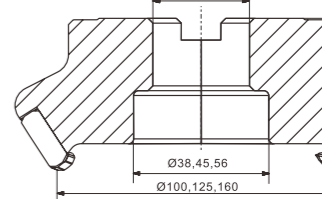
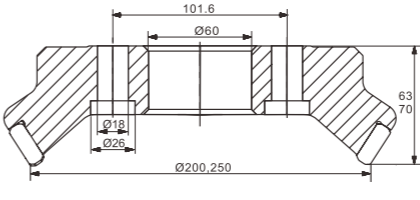
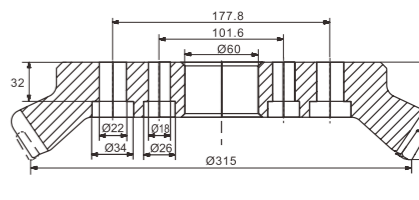
### Type

FM 45 2 A22 63 5 SN13 L

### Cutting Direction : Right/Left

FM 45 2 A22 63 5 SN13 L

### Shell Structure



Type of Adapter		Type of Adapter	
	GB5342-96 of $\phi 50-\phi 80$ shell Facmilling Cutter		GB5342-96 of $\phi 100-\phi 160$ shell Facmilling Cutter
Type of Adapter		Type of Adapter	
	GB5342-96 of $\phi 50-\phi 80$ shell Facmilling Cutter		GB5342-96 of $\phi 315$ Facmilling Cutter

## Grade introduction

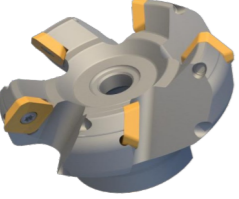



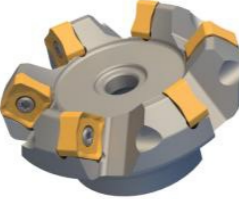



Coating	Brand	P	M	K	N	S	H
CVD	OC3220			»			
	OP2202	=		=			
PVD	OP1315	»	»	»			
	OP1325	»	»	»			
	OP1030	»		»			
	OP1630	»					
	OP1340	#	#				
Uncoated	OK434				»		

= stable cutting condition » normal cutting condition # bad cutting condition









## Chipbreaker introduction

chipbreaker	structure schematic	application scenarios
OM		strength cutting edge design, good anti-impact resistance, highly optimized for general use.
OL		sharp cutting edge design, provide smooth cutting, suitable for steady cutting condition.



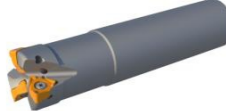


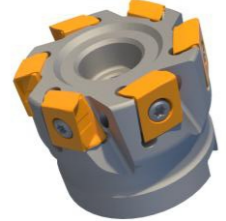



## Indexable milling insert list

Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Face Milling	FM451 	KAPR=45 APMX=5.9	Ø50-Ø200	SEKT12T3* SEET12T3*	
	FM454 	KAPR=45 APMX=4.3	Ø50-Ø200	ODMT0605*	
	FM452 	KAPR=45 APMX=6.5	Ø50-Ø250	SNMX1306A*	
	FM752 	KAPR=75 APMX=10.0	Ø50-Ø200	SNMX1306E*	

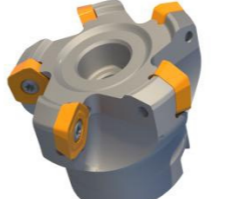
## Indexable milling insert list

Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Face Milling	FM882 	KAPR=88 APMX=11.0	50- 200	SNMX1306Z*	
	FM453 	KAPR=45 APMX=5.5	50- 200	ONMU0504* ONMU0705* ONMU0906*	
Square Shoulder Milling	FM901 	KAPR=90 APMX=15.0	16- 80	APMT1135* APMT1604*	
	FM901F 	KAPR=90 APMX=10.0	16- 26	BXKT11T3*	

## Indexable milling insert list

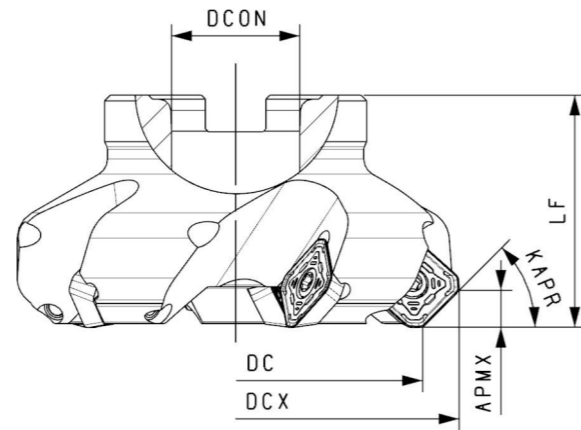
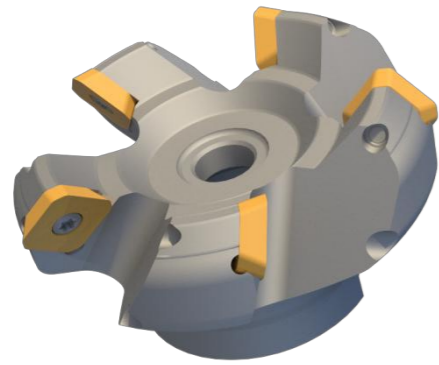
Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Square Shoulder Milling	FM902 	KAPR=90 °  APMX=13.0	Ø50-Ø200	TNGX1306*	
	FM903  	KAPR=90 °  APMX=8.0	Ø20-Ø200	WNMX0403* WNMX0806*	
	FM904 	KAPR=90 °  APMX=12.4	Ø20-Ø80	LNGX1306*	
	FM905 	KAPR=90 °  APMX=10.7	Ø40-Ø200	SDKT13T3*	

## Indexable milling insert list

Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Profiling tool	RM01 		Ø25-Ø125	RPMW1003* RPKT1204*	
	RM02 		Ø16-Ø63	RDKW10T3* RDKW1204*	
High feed	HM192 	KAPR=19 °  APMX=1.9	Ø50-Ø125	PDMT1305*	

# Face milling FM451 series

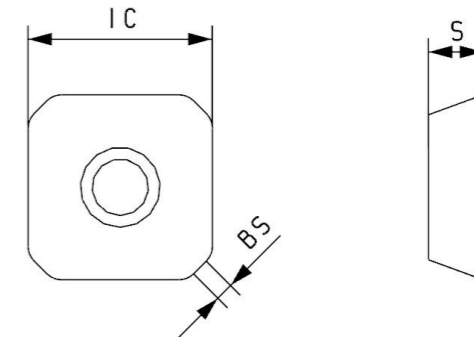
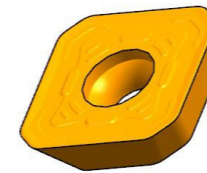
KAPR=45°



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM451-A22-50-3-SE12	●	3	50	63.7	22	40		5.9	A	SE*12T3 *	SA03512	T15P
FM451-A22-50-4-SE12	●	4	50	63.7	22	40		5.9	A			
FM451-A22-63-4-SE12	●	4	63	76.7	22	40		5.9	A			
FM451-A22-63-5-SE12	●	5	63	76.7	22	40		5.9	A			
FM451-A27-80-4-SE12	●	4	80	93.7	27	50		5.9	A			
FM451-A27-80-6-SE12	●	6	80	93.7	27	50		5.9	A			
FM451-B32-100-5-SE12	●	5	100	113.7	32	50		5.9	B			
FM451-B32-100-7-SE12	●	7	100	113.7	32	50		5.9	B			
FM451-B40-125-6-SE12	●	6	125	138.7	40	63		5.9	B			
FM451-B40-125-8-SE12	●	8	125	138.7	40	63		5.9	B			
FM451-C40-160-10-SE12	○	10	160	173.7	40	63		5.9	C			
FM451-C60-200-12-SE12	○	12	200	213.7	60	63		5.9	C			

● Stock available ○ Make-to-order

# FM451 milling insert



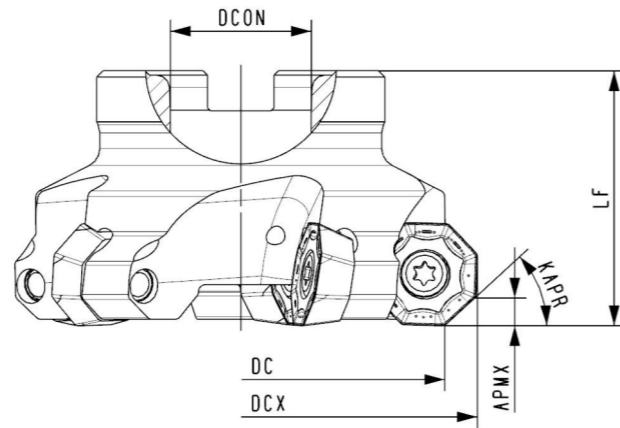
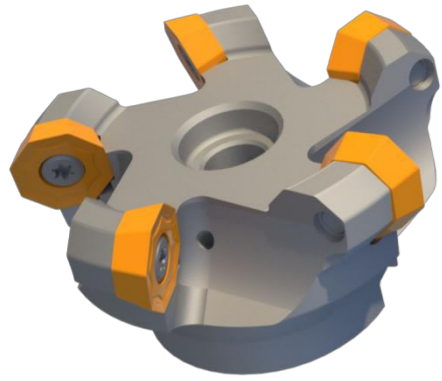
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						Uncoated OK434
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
								#		>>	>>	>>	>>	#		
P																#
M																#
K									>>	=	>>	>>	>>			
N																>>
S																
H																
SEET12T3-QPF	13.4			3.97			1.3				○					
SEET12T3-QPM	13.4			3.97			1.3			○	○		○			
SEET12T3-QPR	13.4			3.97			1.3			○	○					
SEKT12T3-OM	13.4			3.97			1.3			○		●				

● Stock available ○ Make-to-order

# Face milling FM454 series

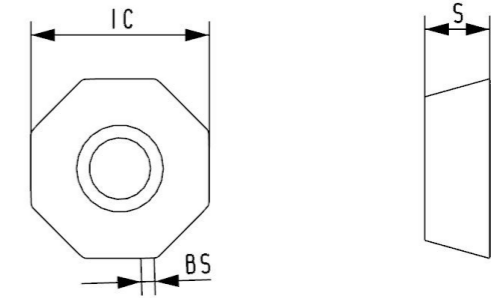
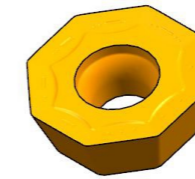
KAPR=45°



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM454-A22-50-4-OD06-C	●	4	50	60.4	22	40		4.3	A	OD*0605ADR*	SA0512	T20P
FM454-A22-63-5-OD06-C	●	5	63	73.4	22	40		4.3	A			
FM454-A27-80-6-OD06-C	●	6	80	90.4	27	50		4.3	A			
FM454-B32-100-7-OD06	●	7	100	110.4	32	50		4.3	B			
FM454-B40-125-8-OD06	●	8	125	135.4	40	63		4.3	B			
FM454-C40-160-10-OD06	○	10	160	170.4	40	63		4.3	C			
FM454-C60-200-12-OD06	○	12	200	210.4	60	63		4.3	C			

● Stock available ○ Make-to-order

# FM454 milling insert



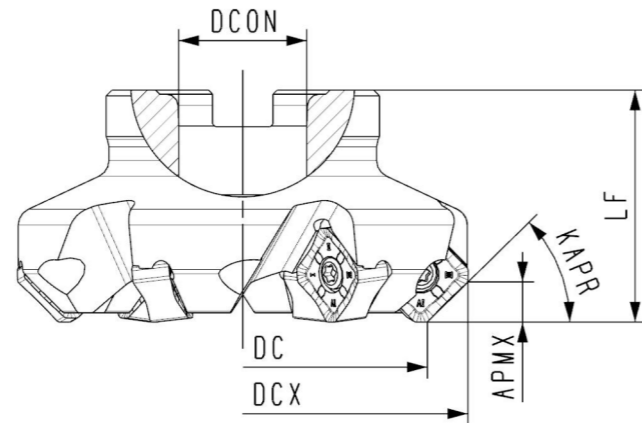
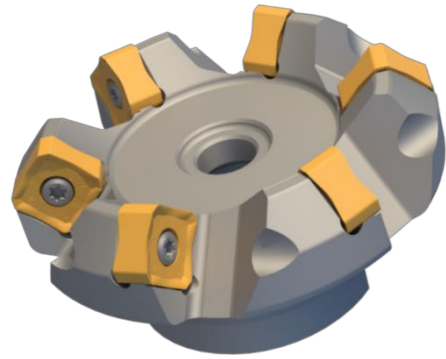
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D							Un pe re su n
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434	
P									=	>>	>>	>>	>>			#	
M										>>	>>					#	
K									>>	=	>>	>>	>>				
N																>>	
S																	
H																	
Type	IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434		
ODMT0605ADR-OM	16.2			5.9			1.2		O		●						

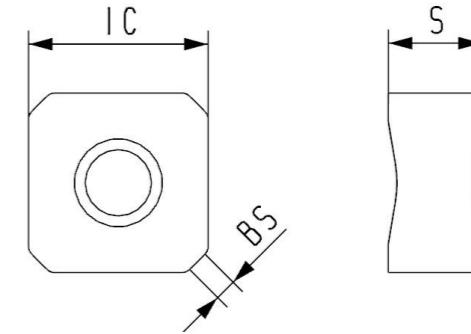
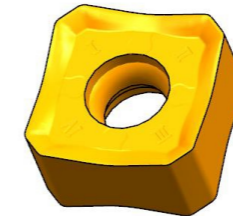
● Stock available ○ Make-to-order

# Face milling FM452 series

KAPR=45



# FM452 milling insert



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM452-A22-50-5-SN13	●	5	50	64.6	22	40		6.5	A	SN*1306ANN*	SA0411	T15P
FM452-A22-63-4-SN13	●	4	63	77.6	22	40		6.5	A			
FM452-A22-63-6-SN13	●	6	63	77.6	22	40		6.5	A			
FM452-A27-80-5-SN13	●	5	80	94.6	27	50		6.5	A			
FM452-A27-80-7-SN13	●	7	80	94.6	27	50		6.5	A			
FM452-B32-100-6-SN13	●	6	100	114.6	32	50		6.5	B			
FM452-B32-100-8-SN13	●	8	100	114.6	32	50		6.5	B			
FM452-B40-125-8-SN13	●	8	125	139.6	40	63		6.5	B			
FM452-B40-125-10-SN13	●	10	125	139.6	40	63		6.5	B			
FM452-C40-160-12-SN13	●	12	160	174.6	40	63		6.5	C			
FM452-C60-200-16-SN13	●	16	200	214.6	60	63		6.5	C			
FM452-C60-250-20-SN13		20	250	264.6	60	63		6.5	C			
FM452-D60-315-24-SN13	○	24	315	329.6	60	70		6.5	D			

● Stock available ○ Make-to-order

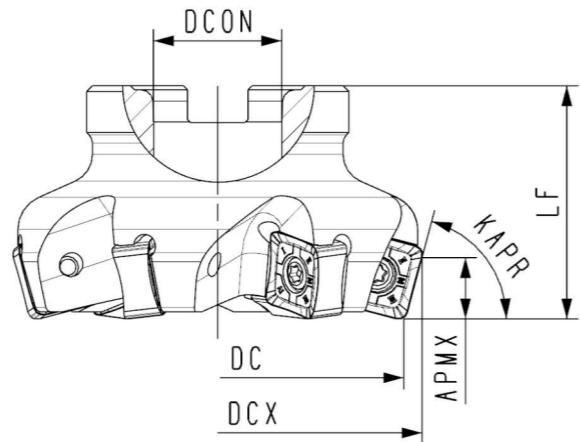
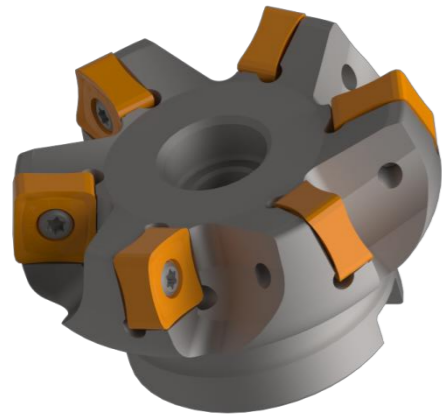
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434
	P	M	K	N	S	H	C	V								
P	=	>>	>>	>>	>>	>>										#
M		>>	>>													#
K	>>	=	>>	>>	>>											
N																>>
S																
H																
Type	IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434	
SNMX1306ANN-OL	13			6.8			1.6				●				○	
SNMX1306ANN-OM	13			6.8			1.6		●		●					
SNGX1306ANN-LM	13			6.8			1.6		○		○					

● Stock available ○ Make-to-order

# Face milling FM752 series

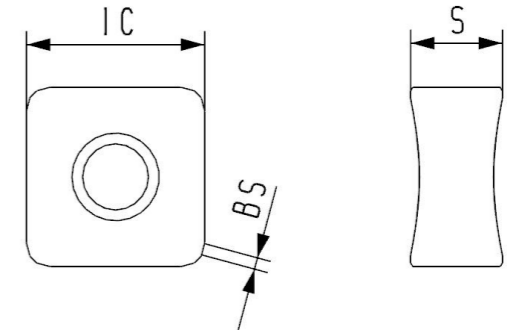
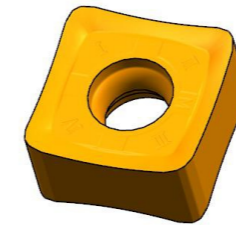
KAPR=75°



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM752-A22-50-5-SN13	●	5	50	57.2	22	40		10	A	SN*1306ENN*	SA0411	T15P
FM752-A22-63-6-SN13	●	6	63	87.2	22	40		10	A			
FM752-A27-80-7-SN13	●	7	80	87.2	27	50		10	A			
FM752-B32-100-8-SN13	●	8	100	114.6	32	50		10	B			
FM752-B40-125-10-SN13	●	10	125	139.6	40	63		10	B			
FM752-C40-160-12-SN13	○	12	160	174.6	40	63		10	C			
FM752-C60-200-16-SN13	○	16	200	214.6	60	63		10	C			

● Stock available ○ Make-to-order

# FM752 milling insert



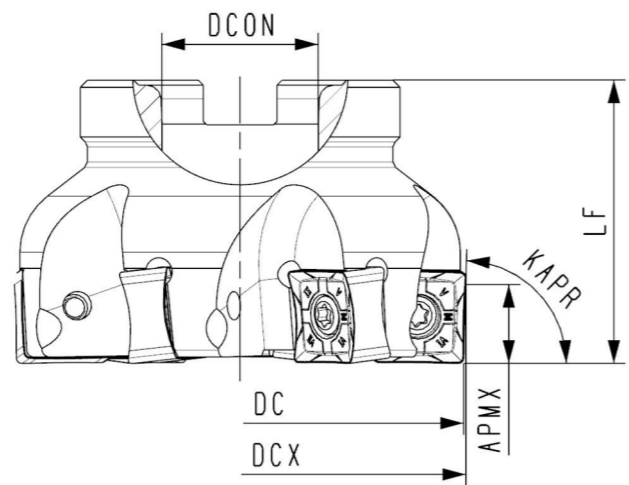
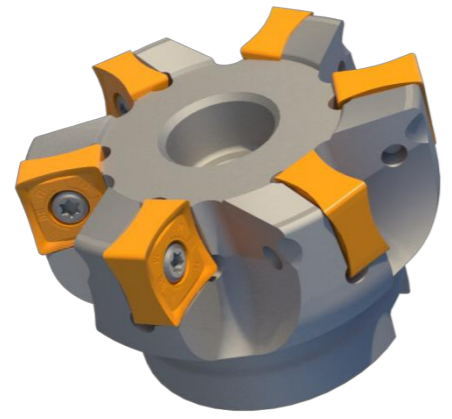
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D				Uncoated pelecoru	
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030		OP1630
P									=	>>	>>	>>	>>	#	
M										>>	>>			#	
K									>>	=	>>	>>	>>		
N															>>
S															
H															
SNMX1306ENN-OM	13			7			1		○		●				

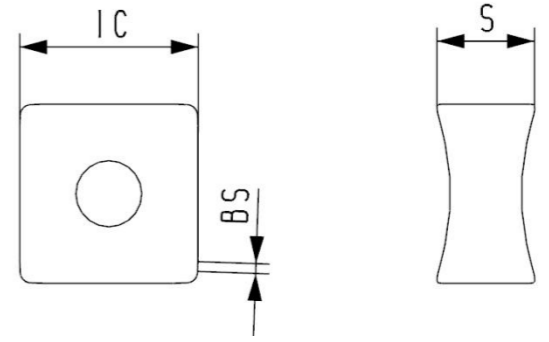
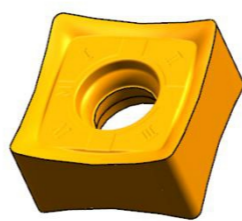
● Stock available ○ Make-to-order

# Face milling FM882 series

KAPR=88



# FM882 milling insert



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM882-A22-50-5-SN13	●	5	50	50.6	22	40		11	A	SN*1306ZNN*	SA0411	T15P
FM882-A22-63-6-SN13	●	6	63	63.6	22	40		11	A			
FM882-A27-80-7-SN13	●	7	80	80.6	27	50		11	A			
FM882-B32-100-8-SN13	●	8	100	100.6	32	50		11	B			
FM882-B40-125-10-SN13	●	10	125	125.6	40	63		11	B			
FM882-C40-160-12-SN13	○	12	160	160.6	40	63		11	C			
FM882-C60-200-16-SN13	○	16	200	200.6	60	63		11	C			

● Stock available ○ Make-to-order

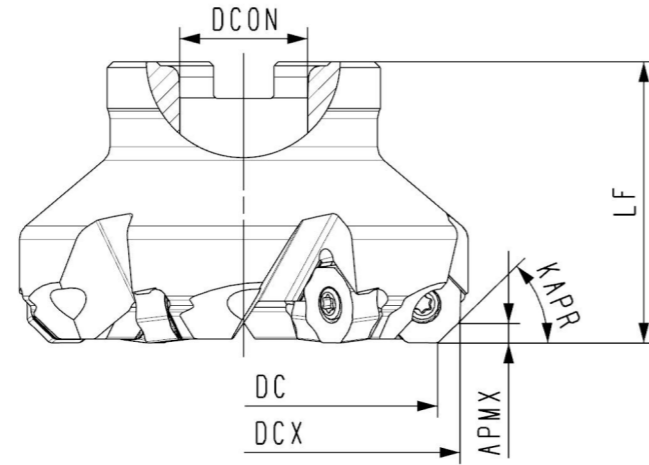
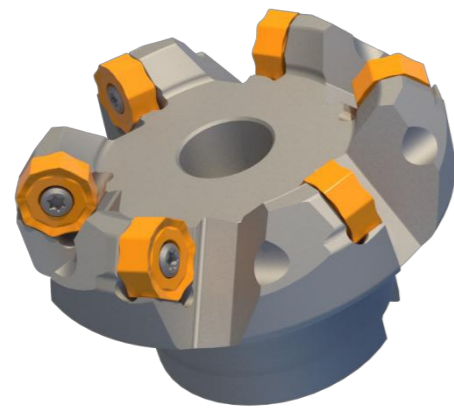
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						Uncoated
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P									=	>>	>>	>>	>>			#
M										>>	>>					#
K									>>	=	>>	>>	>>			
N																>>
S																
H																
SNMX1306ZNN-D	13			7		0.8	1					●				
SNMX1306ZNN-M	13			7		0.8	1		●		●					

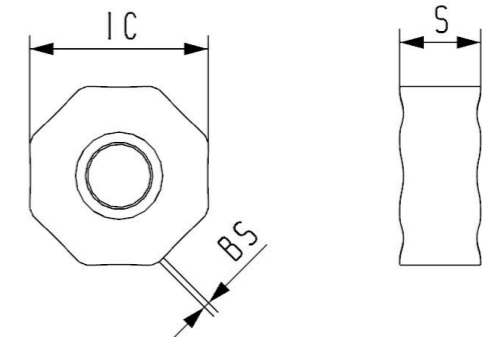
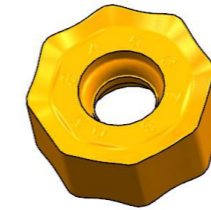
● Stock available ○ Make-to-order

# Face milling FM453 series

KAPR=45



# FM453 milling insert



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM453-A22-50-5-ON05	●	5	53	64.6	22	48.4		3.2	A	ON*0504*	SA0411	T15P
FM453-A22-63-6-ON05	●	6	66	77.6	22	48.4		3.2	A			
FM453-A27-80-7-ON05	●	7	83	94.6	27	48.4		3.2	A			
FM453-B32-100-8-ON05	●	8	103	114.6	32	48.4		3.2	B			
FM453-B40-125-10-ON05	●	10	128	139.6	40	61.4		3.2	B			
FM453-C40-160-12-ON05	○	12	163	174.6	40	61.4		3.2	C			
FM453-C60-200-16-ON05	○	16	203	214.6	60	61.4		3.2	C			
FM453-A22-63-6-ON07	●	6	63	74.4	22	50		4.3	A	ON*0705*	SA0512	T20P
FM453-A27-80-7-ON07	●	7	80	91.4	27	50		4.3	A			
FM453-B32-100-8-ON07	●	8	100	111.4	32	50		4.3	B			
FM453-B40-125-10-ON07	●	10	125	136.4	40	63		4.3	B			
FM453-C40-160-12-ON07	○	12	160	171.4	40	63		4.3	C			
FM453-C60-200-16-ON07	○	16	200	211.4	60	63		4.3	C			
FM453-A22-63-5-ON09	●	5	63	76.2	22	50		5.5	A	ON*0906*	SA0512	T20P
FM453-A27-80-6-ON09	●	6	80	93.2	27	50		5.5	A			
FM453-B32-100-7-ON09	●	7	100	113.2	32	50		5.5	B			
FM453-B40-125-8-ON09	●	8	125	138.2	40	63		5.5	B			
FM453-C40-160-10-ON09	○	10	160	173.2	40	63		5.5	C			
FM453-C60-200-12-ON09	○	12	200	213.2	60	63		5.5	C			

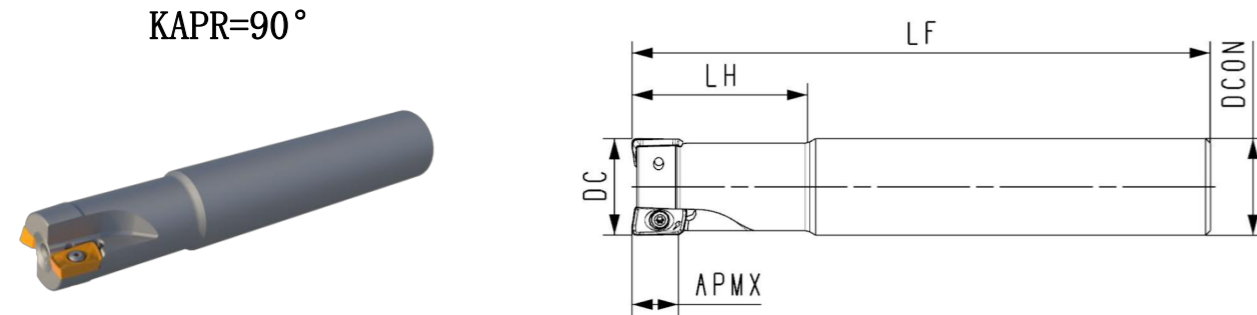
● Stock available ○ Make-to-order

= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434
	P	M	K	N	S	H	C	V								
Material	P		=	>>	>>	>>	>>									#
	M				>>	>>										#
	K	>>	=	>>	>>	>>										
	N															>>
	S															
Type	IC	L	W1	S	DI	RE	BS									
	ONMU0504ANN-OL	13			5.9		0.8				●				○	
	ONMU0504ANN-OM	13			5.9		0.4		●		●					
	ONGU0504ANR-W	13			5.9		4.2				○					
ONMU070508-OM	17.5			6.3					○		●					
ONMU0906ANN-OL	20.5			7.2			1.2				●					
ONMU0906ANN-OM	20.5			7.2			1.2		○		●					

● Stock available ○ Make-to-order

## Square shoulder milling insert FM901 series

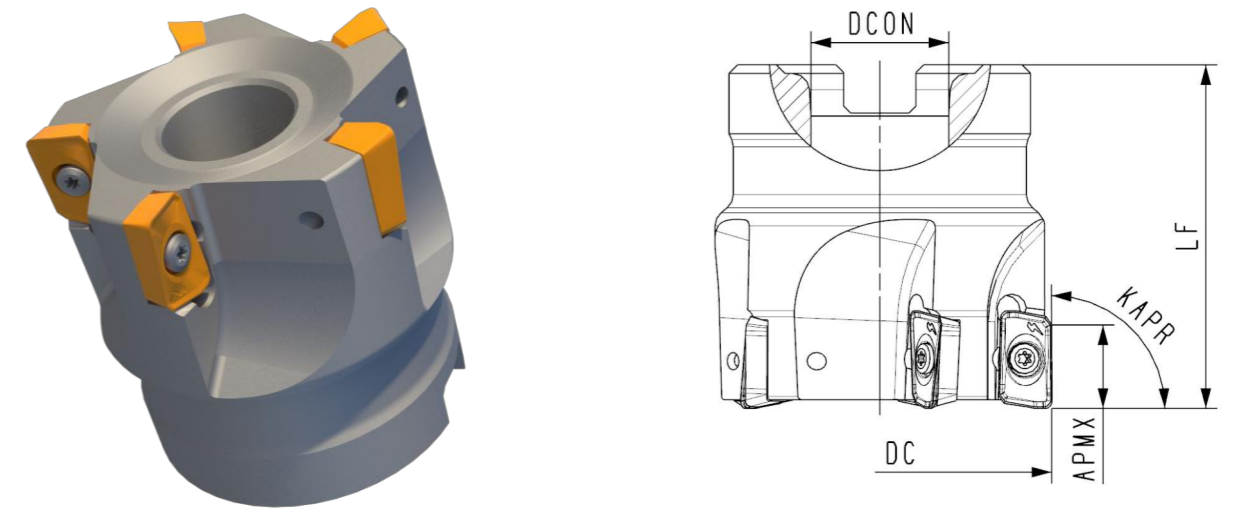


Type	stock	Number of flutes	Dimension					Interface	Adaptable Inserts	Screw	Wrench				
			DC	DCX	DCON	LF	LH					APMX			
FM901-P16-16-2-AP11-120	●	2	16		16	120	35	10	P	AP*1135*	SA025065	T08P			
FM901-P16-16-2-AP11-170	○	2	16		16	170	40	10	P						
FM901-P16-17-2-AP11-150	●	2	17		16	150	40	10	P						
FM901-P16-17-2-AP11-200	○	2	17		16	200	50	10	P						
FM901-P20-20-2-AP11-120	●	2	20		20	120	35	10	P						
FM901-P20-20-2-AP11-170	○	2	20		20	170	40	10	P						
FM901-P20-21-2-AP11-150	●	2	21		20	150	40	10	P						
FM901-P20-21-2-AP11-200	○	2	21		20	200	50	10	P						
FM901-P25-25-3-AP11-120	●	3	25		25	120	35	10	P						
FM901-P25-25-3-AP11-170	○	3	25		25	170	40	10	P						
FM901-P25-25-2-AP16-120	●	2	25		25	120	35	15	P				AP*1604*	SA0411	T15P
FM901-P25-25-2-AP16-170	○	2	25		25	170	40	15	P						
FM901-P25-26-2-AP16-160	●	2	26		25	160	40	15	P						
FM901-P25-26-2-AP16-200	○	2	26		25	200	50	15	P						
FM901-P32-32-3-AP16-160	●	3	32		32	160	40	15	P						
FM901-P32-32-3-AP16-200	○	3	32		32	200	50	15	P						
FM901-P32-40-4-AP16-160	●	4	40		32	160	40	15	P						
FM901-P32-40-4-AP16-200	○	4	40		32	200	50	15	P						

● Stock available ○ Make-to-order

## Square shoulder milling insert FM901 series

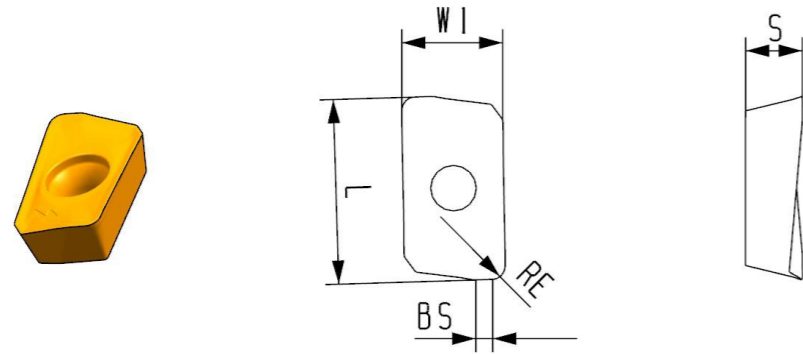
KAPR=90°



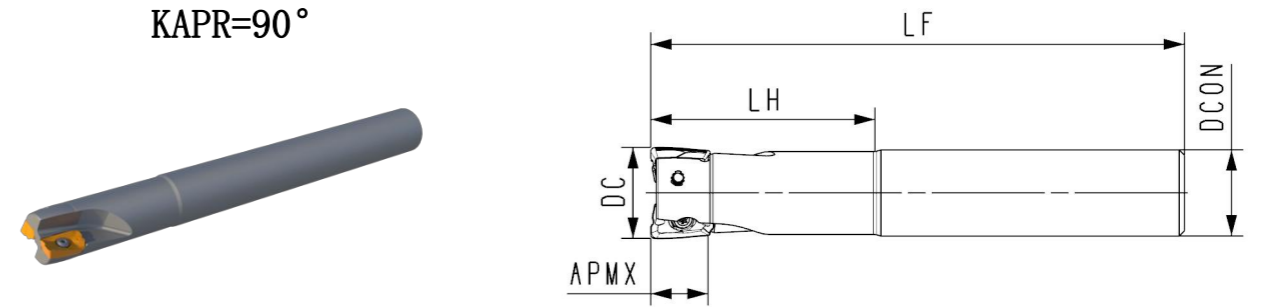
Type	stock	Number of flutes	Dimension					Interface	Adaptable Inserts	Screw	Wrench	
			DC	DCX	DCON	LF	LH					APMX
FM901-A16-40-5-AP11	○	5	40		16	50		10	A	AP*1135*	SA025065	T08P
FM901-A22-50-6-AP11	○	6	50		22	50		10	A			
FM901-A22-63-7-AP11	○	7	63		22	50		10	A			
FM901-A22-50-4-AP16	●	4	50		22	50		15	A	AP*1604*	SA0411	T15P
FM901-A22-63-5-AP16	●	5	63		22	50		15	A			
FM901-A27-80-6-AP16	○	6	80		27	50		15	A			

● Stock available ○ Make-to-order

# FM901 milling insert



# Square shoulder milling insert FM901 series



= stable cutting condition >> normal cutting condition # bad cutting condition

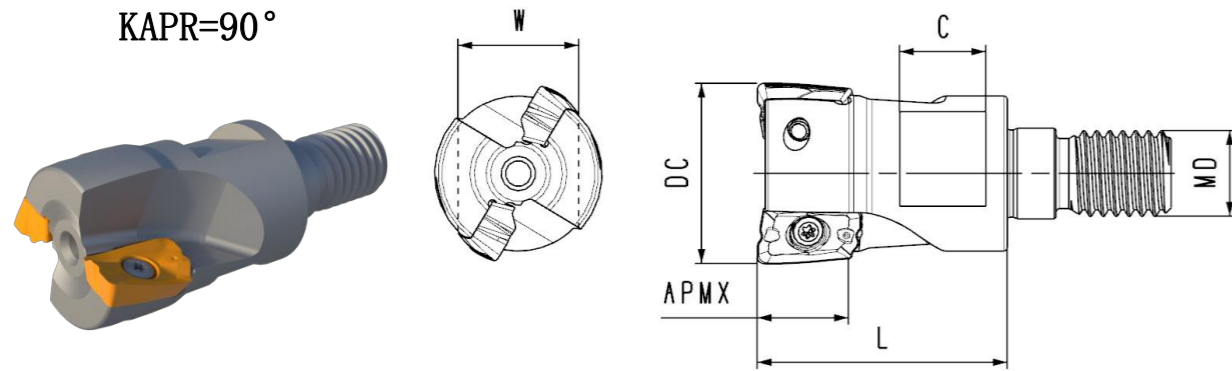
Material	Dimension								C V D	P V D				Uncoated paipocoun	
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030		OP1630
P								=	>>	>>	>>	>>	#		
M									>>	>>			#		
K								>>	=	>>	>>				
N															>>
S															
H															
APMT1135PDER-SDX		11.4	6.22	3.5		0.8	1						○		●
APMT1604PDER-SDX		17.4	9.27	4.8		0.8	1.5						○		●

● Stock available ○ Make-to-order

Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM901F-P16-16-2-BX11-100	○	2	16		16	120	35	10	P	BX*11T3*	SA025065	T08P
FM901F-P16-17-2-BX11-150	●	2	17		16	150	40	10	P			
FM901F-P20-20-2-BX11-120	○	2	20		20	120	35	10	P			
FM901F-P20-21-2-BX11-200	●	2	21		20	170	40	10	P			
FM901F-P25-25-3-BX11-120	○	3	25		25	120	35	10	P			
FM901F-P25-26-3-BX11-200	●	3	26		25	170	40	10	P			

● Stock available ○ Make-to-order

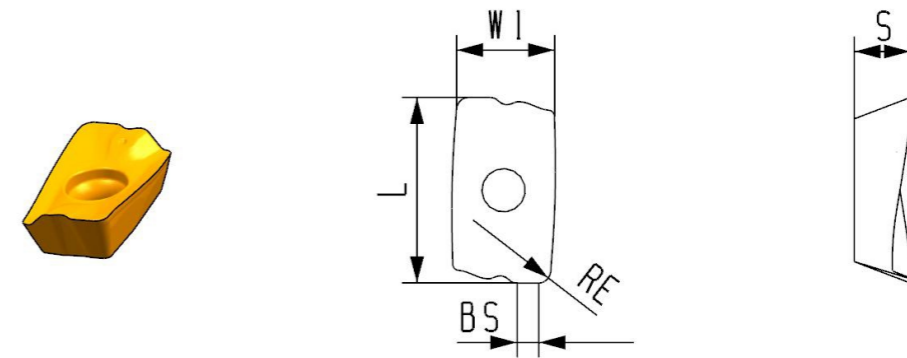
# FM901F indexable milling head



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	MD	L	W	APMX				
FM901F-M8-17-2-BX11	●	2	17		M8	25	12	10		BX*11T3*	SA025065	T08P
FM901F-M10-21-2-BX11	●	2	21		M10	29	14	10				
FM901F-M12-26-3-BX11	●	3	26		M12	37	17	10				

● Stock available ○ Make-to-order

# FM901F milling insert



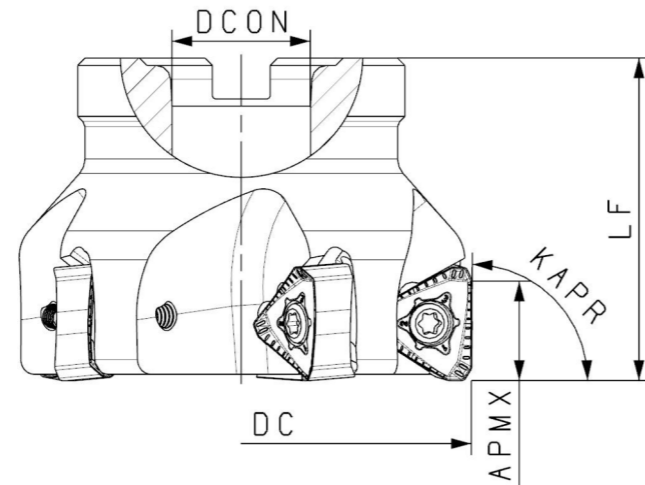
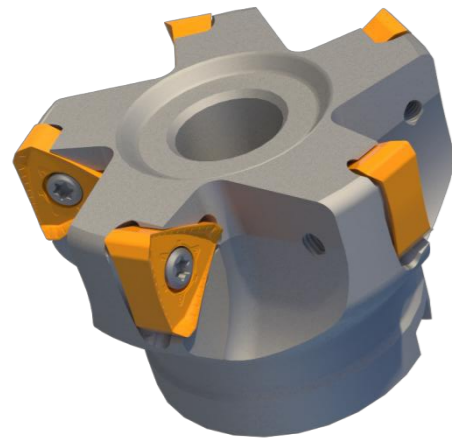
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						Uncoated pejapoc
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P										=	>>	>>	>>	>>	#	
M											>>	>>			#	
K									>>	=	>>	>>	>>			
N																>>
S																
H																
BXKT11T304PER-OM		12.2	6.8	3.7		0.4	1.8			○		●				
BXKT11T308PER-OM		12.2	6.8	3.7		0.8	1.4			○		●				

● Stock available ○ Make-to-order

# Square shoulder milling insert FM902 series

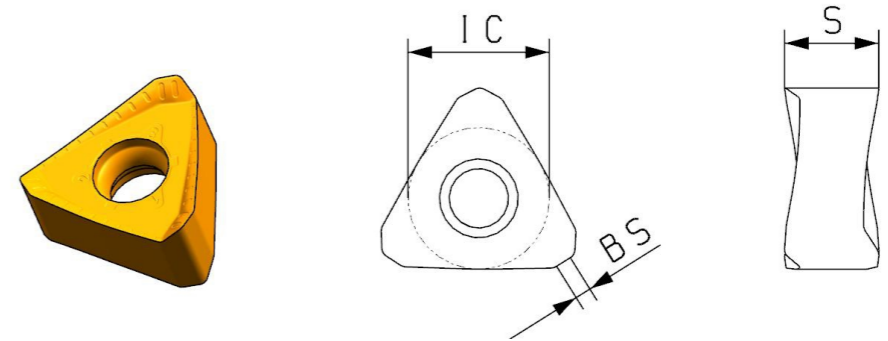
KAPR=90°



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM902-A22-50-4-TN13	●	4	50		22	40		13	A	TN*1306*	SA0411	T15P
FM902-A22-63-5-TN13	●	5	63		22	40		13	A			
FM902-A27-80-7-TN13	●	7	80		27	50		13	A			
FM902-B32-100-8-TN13	●	8	100		32	50		13	B			
FM902-B40-125-10-TN13	●	10	125		40	63		13	B			
FM902-C40-160-12-TN13	○	12	160		40	63		13	C			
FM902-C60-200-16-TN13	○	16	200		60	63		13	C			

● Stock available ○ Make-to-order

# FM902 milling insert

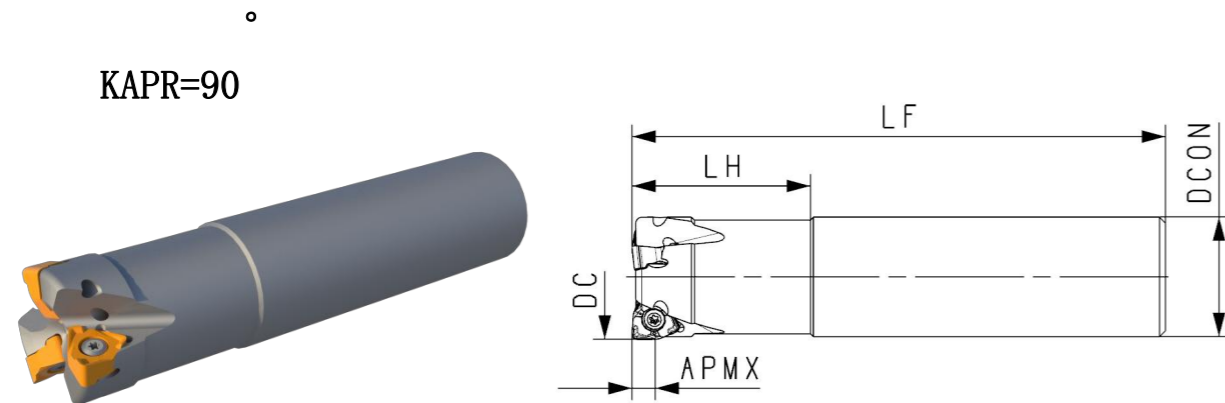


= stable cutting condition >> normal cutting condition # bad cutting condition

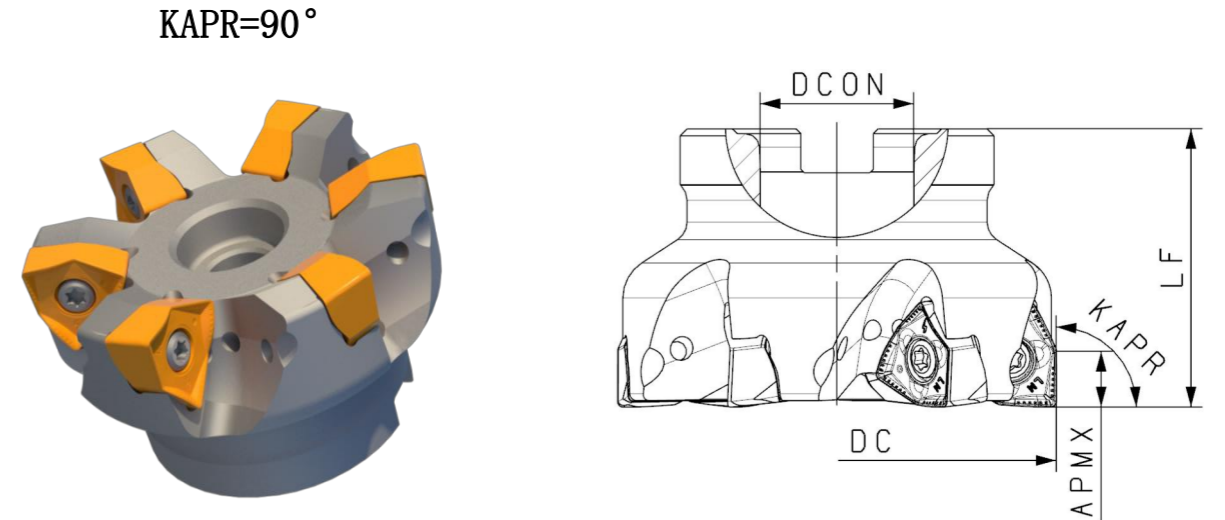
Material	P								C V D	P V D							Uncoated OK434		
	M	K	N	S	H	OC3220	OP2202	OP1315		OP1325	OP1030	OP1630	OP1340						
TNGX1306PNFR-1	11.46				7.6				1.3		○	○	●						

● Stock available ○ Make-to-order

## Square shoulder milling insert FM903 series



## Square shoulder milling insert FM903 series



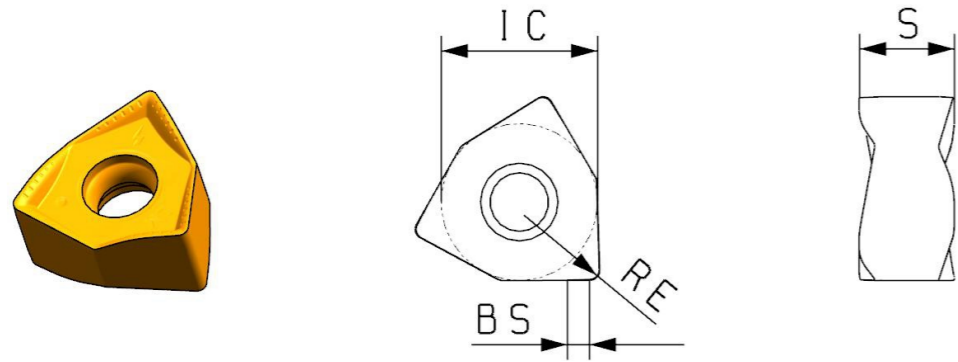
Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM903-P20-20-2-WN04-120	○	2	20			120	35	3.8	P	WN*X0403*	SA025065	T08P
FM903-P20-20-3-WN04-120	●	3	20			120	35	3.8	P			
FM903-P20-21-3-WN04-120	○	3	21			120	35	3.8	P			
FM903-P25-25-4-WN04-120	●	4	25			120	35	3.8	P			
FM903-P25-26-4-WN04-120	○	4	26			120	35	3.8	P			
FM903-P32-32-4-WN04-150	●	4	32			150	35	3.8	P			
FM903-P32-33-4-WN04-150	○	4	33			150	35	3.8	P			
FM903-W32-32-2-WN08-120	○	2	32			120	35	8	W	WN*X0806*	SA0411	T15P
FM903-W32-40-4-WN08-120	○	4	40			120	35	8	W			

● Stock available ○ Make-to-order

Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
FM903-A16-40-5-WN04	●	5	40		22	40		3.8	A	WN*X0403*	SA025065	T08P
FM903-A22-50-6-WN04	●	6	50		22	40		3.8	A			
FM903-A22-50-5-WN08	●	5	50		22	40		8	A	WN*X0806*	SA0411	T15P
FM903-A22-63-6-WN08	●	6	63		22	40		8	A			
FM903-A27-80-7-WN08	●	7	80		27	50		8	A			
FM903-B32-100-8-WN08	●	8	100		32	50		8	B			
FM903-B40-125-10-WN08	●	10	125		40	63		8	B			
FM903-C40-160-12-WN08	○	12	160		40	63		8	C			
FM903-C60-200-16-WN08	○	16	200		60	63		8	C			

● Stock available ○ Make-to-order

# FM903 milling insert

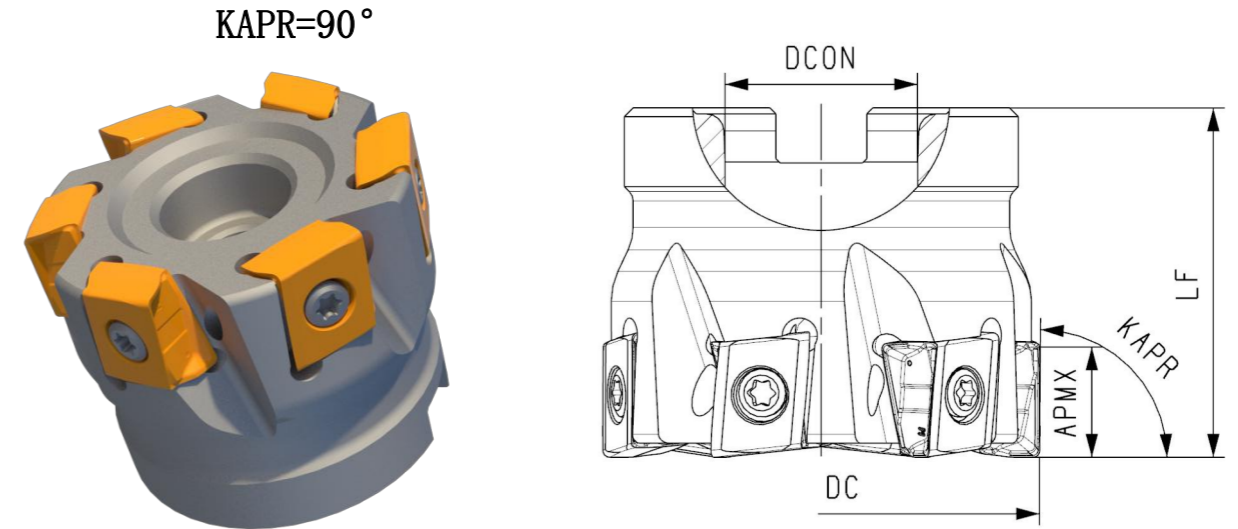


= stable cutting condition >> normal cutting condition # bad cutting condition

Material	P								C	V	D	P						V	D	pejapooU			
	M											OC3220	OP2202	OP1315	OP1325	OP1030	OP1630				OP1340	OK434	
Material	K								»	=	»							»	»	»			»
	N											»	»	»	»	»	»				»	»	
Material	S								»	»	»							»	»	»			»
	H											»	»	»	»	»	»				»	»	
Type	Dimension								IC	L	W1							S	D1	RE			BS
	WNGX040304R-LM	6.5			4		0.4	0.85															
WNMX040308R-OM	6.5			4		0.8	0.5																
WNGX080604R-LM	12.85			6.45		0.4	2.5																
WNMX080608R-OL	12.85			7.8		0.8	1.1																
WNMX080608R-OM	12.85			7.8		0.8	0.8																
WNGX080608R-LF	12.85			6.57		0.8	1.8																
WNGX080608R-LM	12.85			6.45		0.8	2																

● Stock available ○ Make-to-order

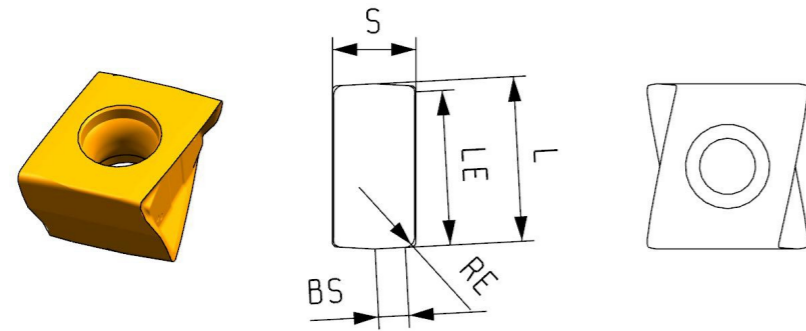
# Square shoulder milling insert FM904 series



Type	stock	Number of flutes	Dimension					Interface	Adaptable Inserts	Screw	Wrench	
			DC	DCX	DCON	LF	LH					APMX
FM904-A22-50-5-LN13	●	5	50		22	40		8	A	LNGX1306*	SA0411	T15P
FM904-A22-50-6-LN13	○	6	50		22	40		8	A			
FM904-A22-63-6-LN13	●	6	63		22	40		8	A			
FM904-A22-63-8-LN13	○	8	63		22	40		8	A			
FM904-A27-80-7-LN13	●	8	80		27	50		8	A			
FM904-A27-80-10-LN13	○	10	80		27	50		8	A			

● Stock available ○ Make-to-order

# FM904 milling insert



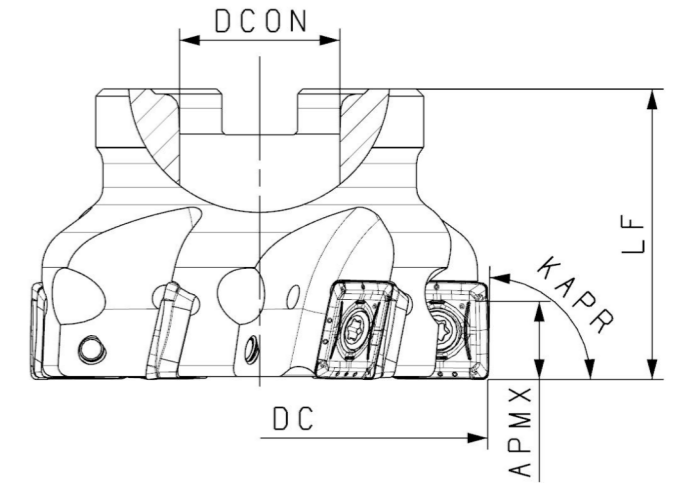
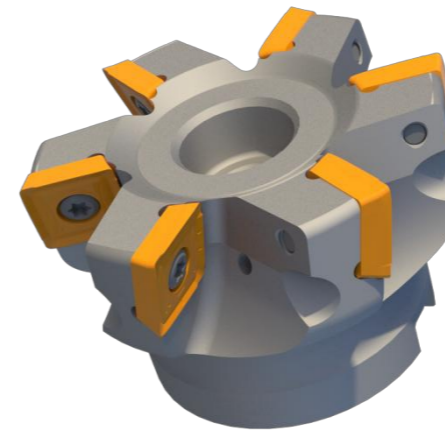
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						Универсальный OK434
	IC	L	LE	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P									=	>>	>>	>>	>>		#	
M										>>	>>				#	
K									>>	=	>>	>>				
N															>>	
S																
H																
LNGX130608PR-LM		13.2	12.4	6.7		0.8	2.4			○		●		○		

● Stock available ○ Make-to-order

# Square shoulder milling insert FM905 series

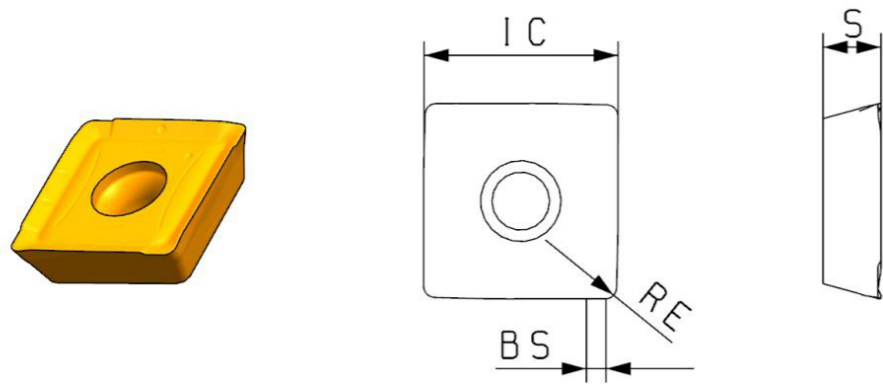
KAPR=90°



Type	stock	Number of flutes	Dimension					Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH				
FM905-A22-50-4-SD13	○	4	50		22	40		10.7	A		
FM905-A22-50-5-SD13	●	5	50		22	40		10.7	A		
FM905-A22-63-6-SD13	●	6	63		22	40		10.7	A		
FM905-A27-80-7-SD13	●	7	80		27	50		10.7	A	SDKT13T3*	SA0411 T15P
FM905-B32-100-8-SD13	●	8	100		32	50		10.7	B		
FM905-B40-125-10-SD13	●	10	125		40	63		10.7	B		
FM905-C40-160-12-SD13	○	12	160		40	63		10.7	C		
FM905-C60-200-16-SD13	○	16	200		60	63		10.7	C		

● Stock available ○ Make-to-order

# FM905 milling insert

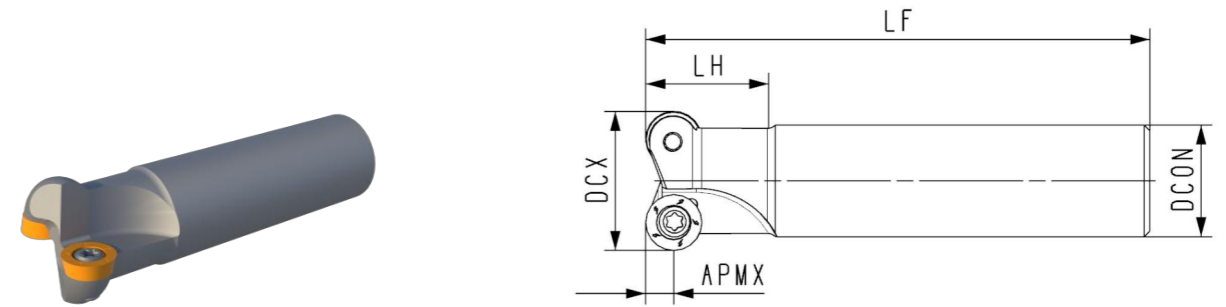


= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						U p a e r o u n
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P									=	>>	>>	>>	>>			#
M											>>	>>				#
K									>>	=	>>	>>	>>			
N																>>
S																
H																
SDKT13T308PER-OM	13.8			4.1			1.2		O		●					
SDKT13T320PER-OM	13.8			4.1			1.0		O		●					

● Stock available ○ Make-to-order

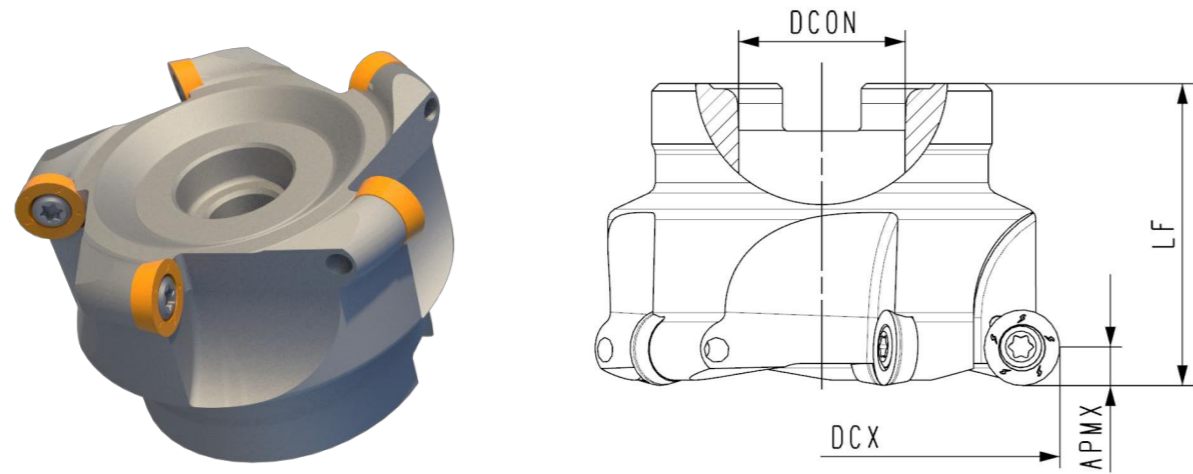
# Profiling milling insert RM01 series



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Accessories	Wrench
			DC	DCX	DCON	LF	LH	APMX				
RM01-P20-25-2-RP10-160-CR	●	2		25	20	160	45	5	P	RP*1003*	Pressing Plate: CR-R5  Screw: SA03510 SA04 09	T15P
RM01-P25-30-2-RP10-160-CR	●	3		30	25	160	45	5	P			
RM01-P32-35-3-RP10-160-CR	○	3		35	32	160	45	5	P			
RM01-P32-40-3-RP10-160-CR	●	3		40	32	160	45	5	P			
RM01-P32-40-4-RP10-160-CR	○	4		40	32	160	45	5	P			
RM01-P25-32-2-RP12-160-CR	○	2		32	25	160	50	6	P	RP*1204*	Pressing Plate: CR-R6  Screw: SA04 09	T15P
RM01-P25-32-3-RP12-160-CR	○	3		32	25	160	50	6	P			
RM01-P32-32-2-RP12-160-CR	●	2		32	32	160	45	6	P			
RM01-P32-32-3-RP12-160-CR	○	3		32	32	160	45	6	P			
RM01-P32-35-2-RP12-160-CR	○	2		35	32	160	50	6	P			
RM01-P32-40-3-RP12-200-CR	●	3		40	32	200	50	6	P			
RM01-P32-40-4-RP12-200-CR	○	4		40	32	200	50	6	P			

● Stock available ○ Make-to-order

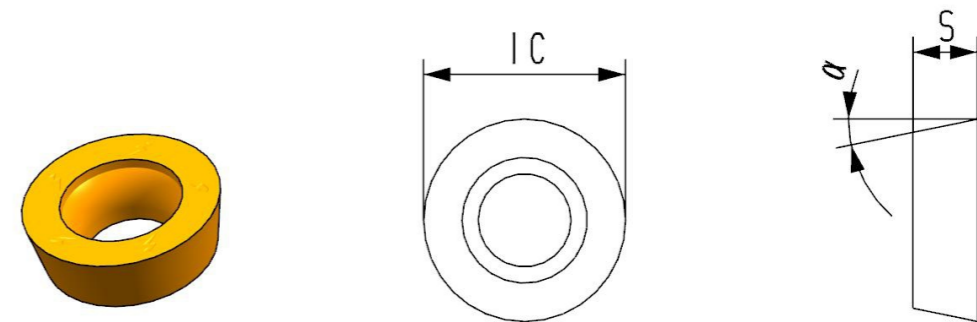
# Profiling milling insert RM01 series



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Accessories	Wrench
			DC	DCX	DCON	LF	LH	APMX				
RM01-A22-50-4-RP10-CR	●	4		50	22	50		5	A	RP*1003* Pressing Plate: CR-R5 Screw: SA03510 SA04 09	T15P	
RM01-A22-63-5-RP10-CR	○	5		63	22	50		5	A			
RM01-A27-80-6-RP10-CR	○	6		80	27	50		5	A			
RM01-B32-100-7-RP10-CR	○	7		100	32	50		5	B			
RM01-A22-50-4-RP12-CR	●	4		50	22	50		6	A	RP*1204* Pressing Plate: CR-R6 Screw: SA04 09	T15P	
RM01-A22-63-5-RP12-CR	●	5		63	22	50		6	A			
RM01-A27-80-6-RP12-CR	○	6		80	27	50		6	A			
RM01-B32-100-7-RP12-CR	○	7		100	32	50		6	B			

● Stock available ○ Make-to-order

# RM01 milling insert

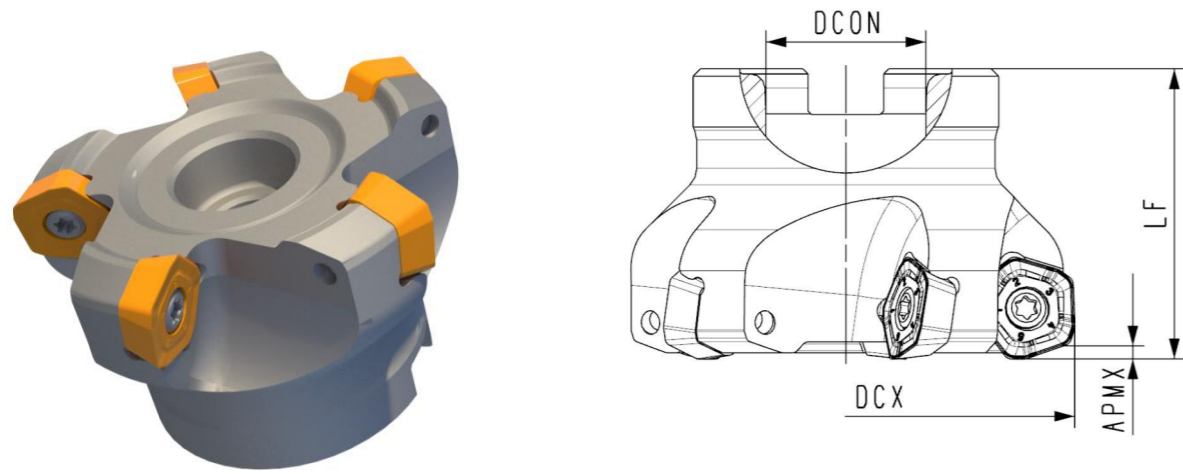


= stable cutting condition >> normal cutting condition # bad cutting condition

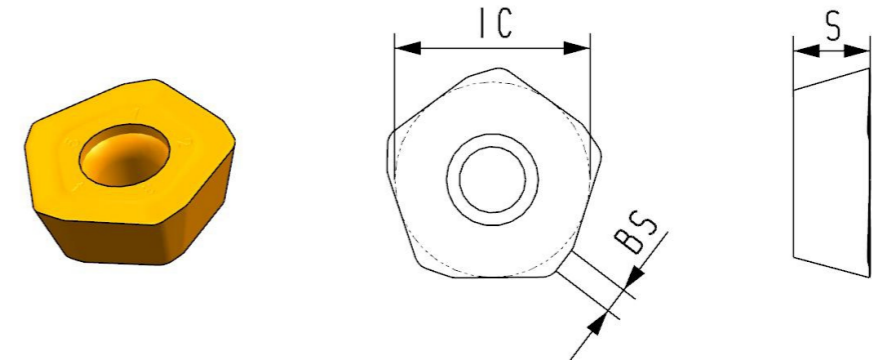
Material	Dimension								C V D	P V D						Универсальный OK434
	IC	L	W1	S	D1	α	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P									=	>>	>>	>>	>>		#	
M										>>	>>				#	
K									>>	=	>>	>>	>>			
N															>>	
S																
H																
RPMW1003MO-SD	10			3.18		11						○		●		
RPKT1204MO-SD	12			4.76		11						○		●		

● Stock available ○ Make-to-order

# High feed milling insert HM192 series



# HM192 milling insert



Type	stock	Number of flutes	Dimension						Interface	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
HM192-A22-50-4-PD13	●	4		50	22	40		1.9	A	PD*1305*	SA0411	T15P
HM192-A22-63-5-PD13	●	5		63	22	40		1.9	A			
HM192-A27-80-6-PD13	●	6		80	27	50		1.9	A			
HM192-B32-100-7-PD13	●	7		100	32	50		1.9	B			
HM192-B40-125-8-PD13	●	8		125	40	63		1.9	B			
HM192-C40-160-10-PD13	○	10		160	40	63		1.9	C			
HM192-C60-200-12-PD13	○	12		200	60	63		1.9	C			

● Stock available ○ Make-to-order

= stable cutting condition >> normal cutting condition # bad cutting condition

Material	Dimension								C V D	P V D						Un pe re o u n
	IC	L	W1	S	D1	RE	BS	OC3220		OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	
P									=	>>	>>	>>	>>			#
M											>>	>>				#
K									>>	=	>>	>>	>>			
N																>>
S																
H																
PDMT1305ZDSR-SAM	13			5.1			1.7						●			

● Stock available ○ Make-to-order