

# AN MI TOOLS



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Ha Noi : Suite 409, CT4 Building, Song Da Urban Area, Me Tri Street,  
Nam Tu Liem District, Ha Noi  
Tel : +84 24 3556 2635

Ho Chi Minh : 75 Do Xuan Hop, W. Phuoc Long B, Thu Duc, HCM  
Tel : +84 28 6262 3959

Hai Phong : P2825 Hoang Huy Grand Tower 2A, Hong Bang District, Hai Phong

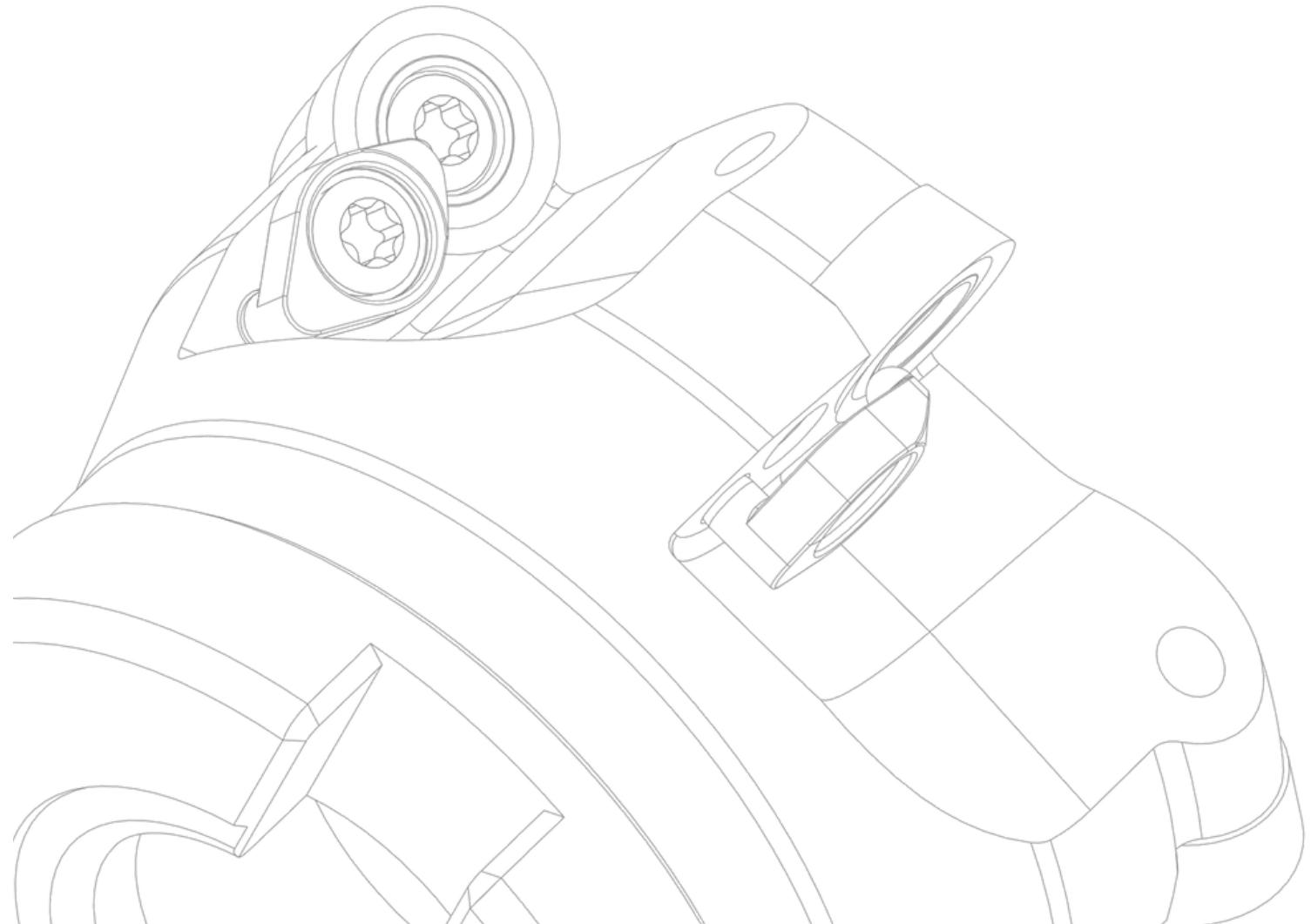
Da Nang : 85 Hoang Van Thai, Lien Chieu, Da Nang  
Vinh Phuc : 17 Ton Duc Thang, Vinh Yen, Vinh Phuc  
Bac Ninh : 76 Nguyen Dang, Suoi Hoa, Bac Ninh

North Factory: L3, Pho Noi Textile Garment Industrial Park, My Hao District, Hung Yen

South Factory: 75 Do Xuan Hop, W. Phuoc Long B, Thu Duc, HCM

## BEST - SELLING MILLING INSERT

# 2025



## Milling Insert Naming Rule

### Shape

T | P | K | N2204ED | T32 | R — OPM

A	B	C
85°	82°	80°
D	E	H
55°	75°	Hexagon
K	L	M
55°	Rectangular	86°
O	P	R
Octagonal	Pentagonal	Circle
S	T	T
Square	Triangle	75°
V	W	Z
35°	80°	

### Clearance Angle

T | P | K | N2204ED | T32 | R — OPM

A	B
3°	5°
C	D
7°	15°
E	F
20°	25°
G	N
30°	0°
P	O
11°	Others

### Chip Breaker and Hole

T | P | K | N2204ED | T32 | R — OPM

Symbol	Center Hole	Chip Breaker	Insert Profile	Symbol	Center Hole	Chip Breaker	Insert Profile
B	Y	N	>65°	N	N	N	
H	Y	S	>65°	R	N	S	
C	Y	N	>65°	F	N	D	
J	Y	D	>65°	A	Y	N	
W	Y	N	<65°	M	Y	S	
T	Y	S	<65°	G	Y	D	
Q	Y	N	<65°	X			
U	Y	D	<65°				

### Tolerance

T | P | K | N2204ED | T32 | R — OPM

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

## Milling Insert Naming Rule

### Cutting Edge Length

T | P | K | N2204ED | T32 | R — OPM

Inscribed Circle diameter(mm)	Insert Shape							
	C	D	R	S	T	V	W	K
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 | N2204ED | T32 | R — OPM

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

The Height Between Insert Bottom And Nose

## Milling Tools Naming Rule

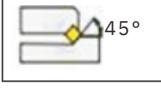
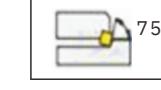
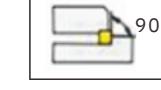
### Type of Tools

FM 45 2 A22 63 5 SN 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 SN L

45°	75°	90°
		

### Differentiate Code

FM 45 2 A22 63 5 SN L

### Cutting Tool Diameter

FM 45 2 A22 63 5 SN L

## Milling Tools Naming Rule

### Adaptor Type

FM 45 2 A22 63 5 SN 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 SN L

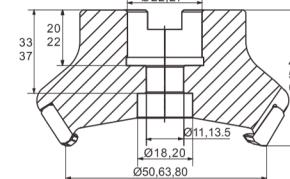
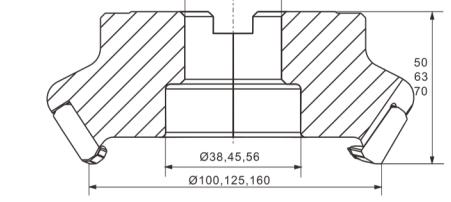
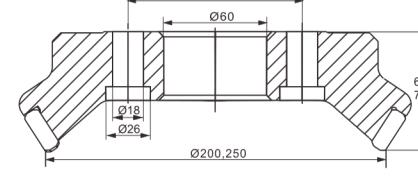
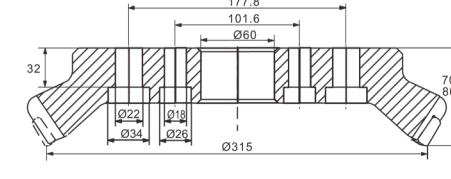
### Type

FM 45 2 A22 63 5 SN L

### Cutting Direction : Right / Left

FM 45 2 A22 63 5 SN L

### Shell Structure

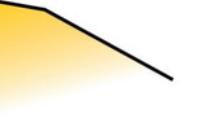
Type of Adapter		Type of Adapter			
GB5342-96 of φ50-φ80 shell Facmilling Cutter			GB5342-96 of φ100-φ160 shell Facmilling Cutter		
Type of Adapter		Type of Adapter			
GB5342-96 of φ50-φ80 shell Facmilling Cutter			GB5342-96 of φ315 Facmilling Cutter		

## A Grade introduction

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

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

## A Chipbreaker introduction

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

## Indexable milling insert list

Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Face Milling	FM451	KAPR=4°5 APMX=5.9	Ø50-Ø200	SEKT12T3* SEET12T3*	
	FM454	KAPR=4°5 APMX=4.3	Ø50-Ø200	ODMT0605*	
	FM452	KAPR=4°5 APMX=6.5	Ø50-Ø250	SNMX1306A*	
	FM752	KAPR=7°5 APMX=10.0	Ø50-Ø200	SNMX1306E*	

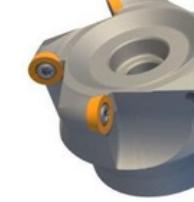
## Indexable milling insert list

Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Face Milling	FM882	KAPR=8°8 APMX=11.0	50- 200	SNMX1306Z*	
	FM453	KAPR=4°5 APMX=5.5	50- 200	ONMU0504* ONMU0705* ONMU0906*	
Square Shoulder Milling	FM901	KAPR=9°0 APMX=15.0	16- 80	APMT1135* APMT1604*	
	FM901F	KAPR=9°0 APMX=10.0	16- 26	BXKT11T3*	

## Indexable milling insert list

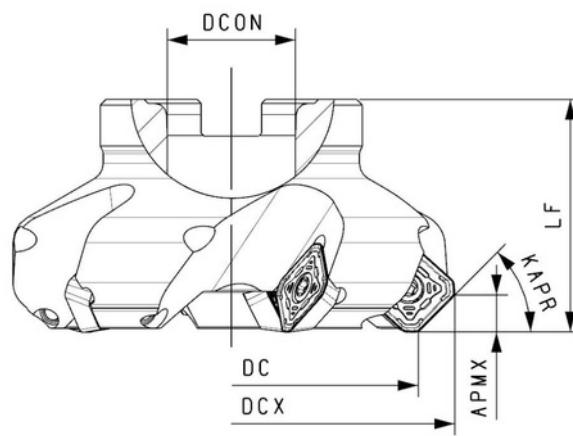
Type	Tool Shape	Approach angle La MAX	Diameter	Adaptable Inserts	Insert Shape
Square Shoulder Milling	FM902	KAPR=90 ° APMX=13.0	Ø50-Ø200	TNGX1306*	
	FM903	KAPR=90 ° APMX=8.0	Ø20-Ø200	WNMX0403* WNMX0806*	
	FM904	KAPR=90 ° APMX=12.4	Ø20-Ø80	LNGX1306*	
	FM905	KAPR=90 ° APMX=10.7	Ø40-Ø200	SDKT13T3*	

## Indexable milling insert list

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

## A Face milling FM451 series

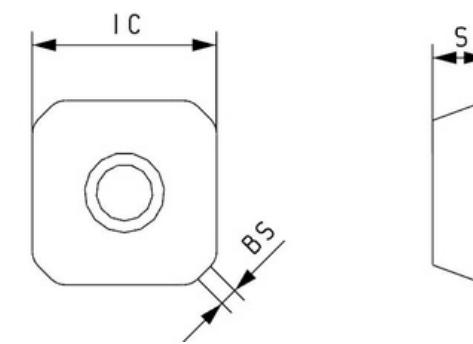
KAPR=45 °



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

● Stock available ○ Make-to-order

## A FM451 milling insert

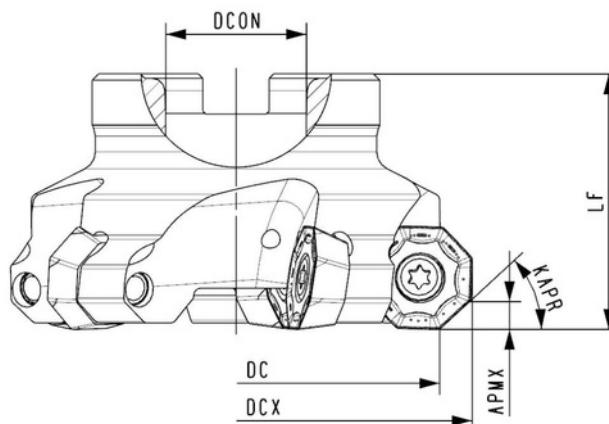
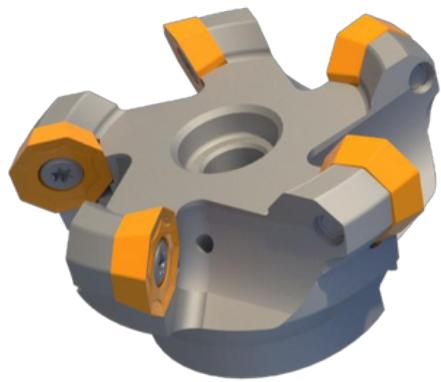


Material	P							C	V	D	P							uncolored			
	M	K	N	S	H	=	»				»	=	»	»	»	»	#				
Type	Dimension							IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1330	OP1340	OK434
IC-SEET12T3-QPF	13.4					3.97										○	○		○		
IC-SEET12T3-QPM	13.4					3.97										○	○		○		
IC-SEET12T3-QPR	13.4					3.97										○	○				
IC-SEKT12T3-OM	13.4					3.97										○	●				

● Stock available ○ Make-to-order

## A Face milling FM454 series

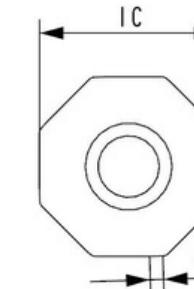
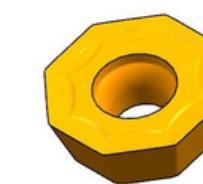
KAPR=45 °



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

● Stock available ○ Make-to-order

## A FM454 milling insert

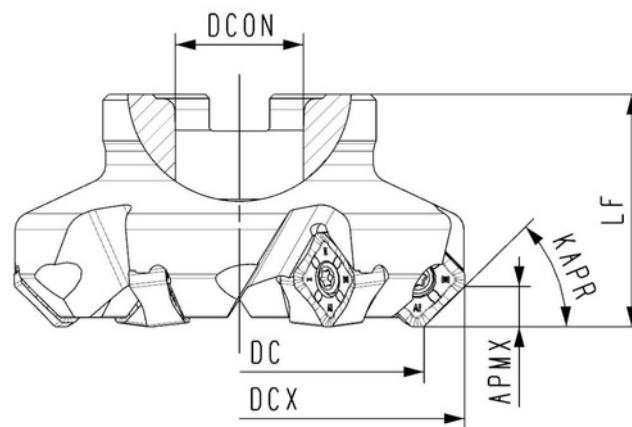
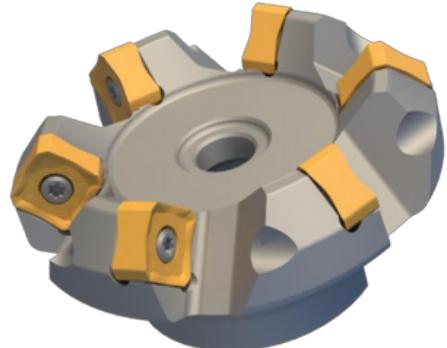


Material	P							» normal cutting condition			# bad cutting condition			
	M	K	N	S	H	C	V	D	P	V	D			
Type	Dimension							IC	L	W1	S	D1	RE	
IC-ODMT0605ADR-OM	16.2			5.9			1.2	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434

● Stock available ○ Make-to-order

## A Face milling FM452 series

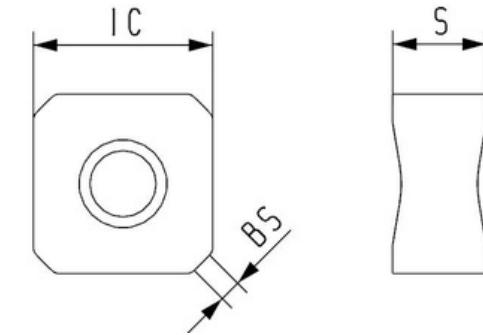
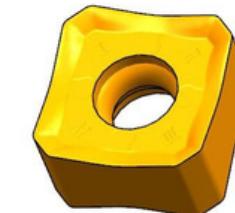
KAPR=45



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

● Stock available ○ Make-to-order

## A FM452 milling insert



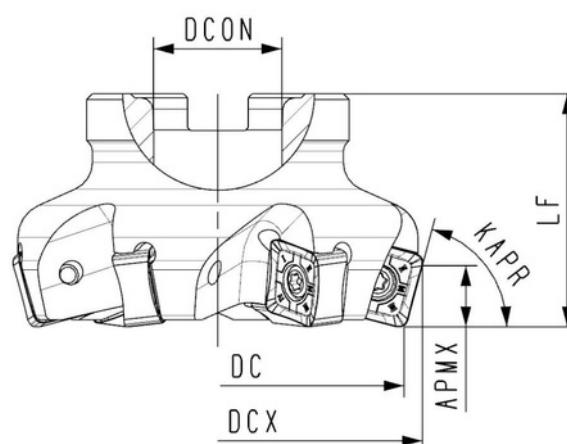
= stable cutting condition >> normal cutting condition # bad cutting condition

Material	P							=	>>	>>	>>	>>	#
	M												#
	K							>>	=	>>	>>	>>	
	N												>>
	S												
	H												
Type	Dimension							C	P	V	D		Uncolored
	IC	L	W1	S	D1	RE	BS	O	P	V	D		
	13			6.8			1.6	3.2	2.0				
	13			6.8			1.6	●	1.3	1.5			
IC-SNMX1306ANN-OL	13			6.8			1.6	●	1.3	1.5			
	13			6.8			1.6	●	1.3	1.5			
	13			6.8			1.6	●	1.3	1.5			

● Stock available ○ Make-to-order

## A Face milling FM752 series

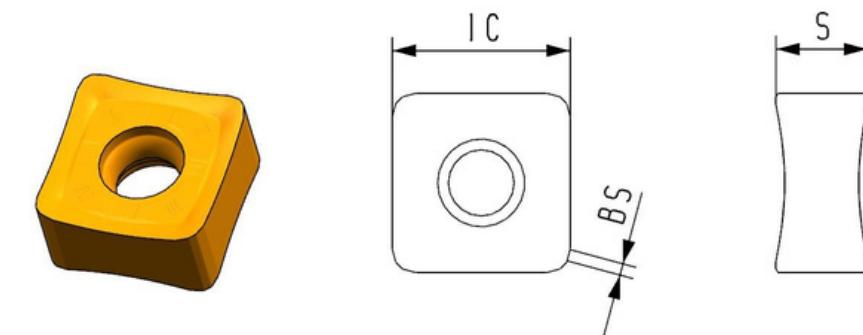
KAPR=75 °



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

● Stock available ○ Make-to-order

## A FM752 milling insert

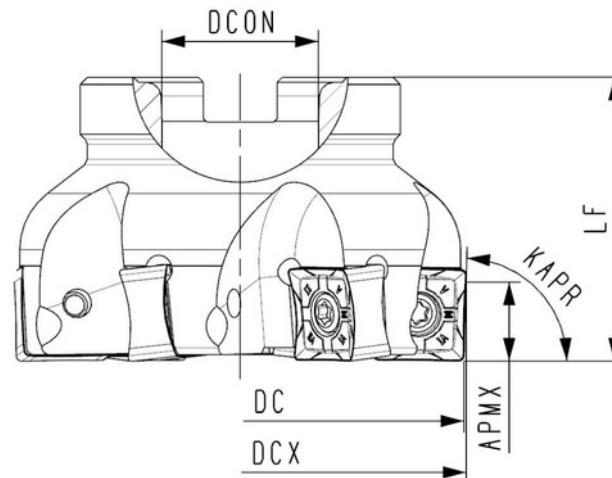
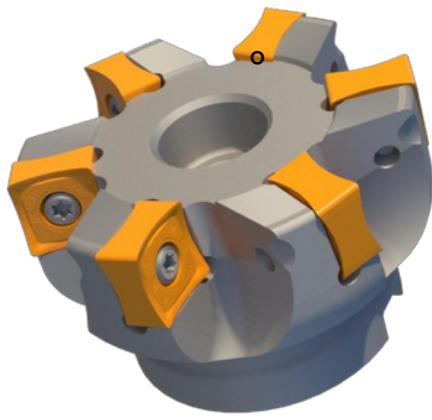


Material	= stable cutting condition							» normal cutting condition							# bad cutting condition		
	P							»							#		
	M							»							#		
	K							»							»		
	N							»							»		
	S							»							»		
	H							»							»		
Type	Dimension							C	V	D	P						
	IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434	Uncarded	
ICSNMX1306ENN-OM	13			7			1	○		●							

● Stock available ○ Make-to-order

## A Face milling FM882 series

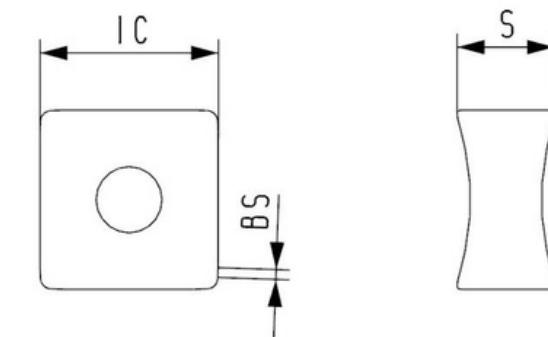
KAPR=88



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

● Stock available ○ Make-to-order

## A FM882 milling insert

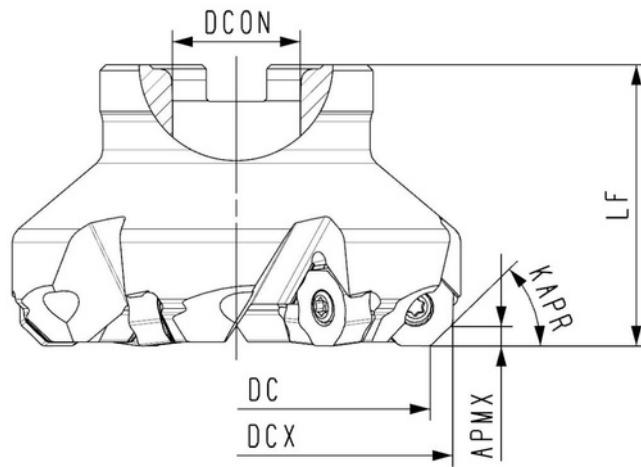
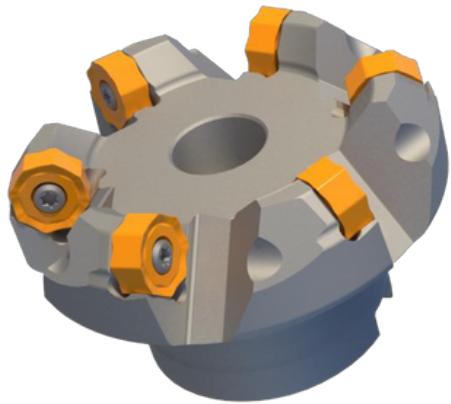


Material	= stable cutting condition							» normal cutting condition							# bad cutting condition		
	P	M	K	N	S	H	»	»	»	»	»	#	»	»	#	»	
Type	Dimension							C	V	D	P				V	D	Uncorrected
IC-SNMX1306ZNN-OL	13			7		0.8	1	OC3220	OP2202		●			OP1315	OP1325	OP1030	OP1630
IC-SNMX1306ZNN-OM	13			7		0.8	1				●			OP1340	OK434		

● Stock available ○ Make-to-order

## A Face milling FM453 series

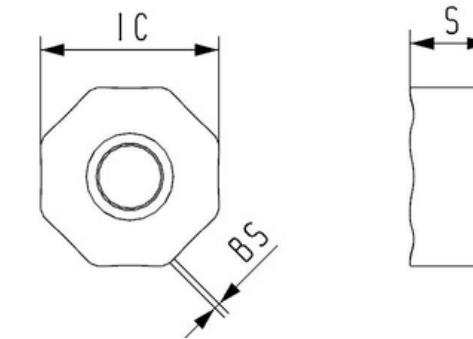
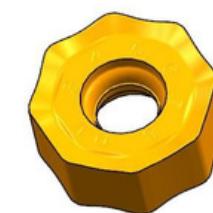
KAPR=45



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

● Stock available ○ Make-to-order

## A FM453 milling insert

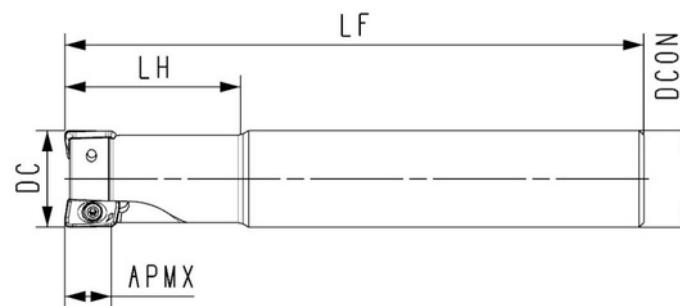


= stable cutting condition ≫ normal cutting condition # bad cutting condition

Material	P							C	V	D	P			uncutted			
	M	K	N	S	H	IC	L	W1	S	D1	RE	BS	IC	V	D		
IC-ONMU0504ANN-OL	13			5.9					0.8			OP2202	OP1315	OP1325	OP1030	OP1630	OK4340
IC-ONMU0504ANN-OM	13			5.9					0.4			●	●				○
IC-ONGU0504ANR-W	13			5.9						4.2			○				
IC-ONMU070508-OM	17.5			6.3								○	●				
IC-ONMU0906ANN-OL	20.5			7.2					1.2			●					
IC-ONMU0906ANN-OM	20.5			7.2					1.2			○	●				

● Stock available ○ Make-to-order

## Square shoulder milling insert FM901 series



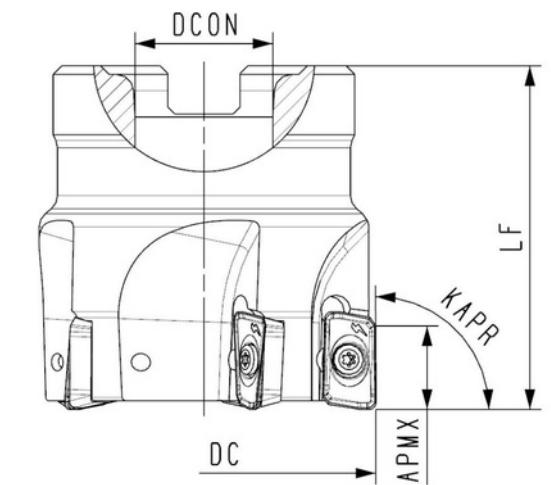
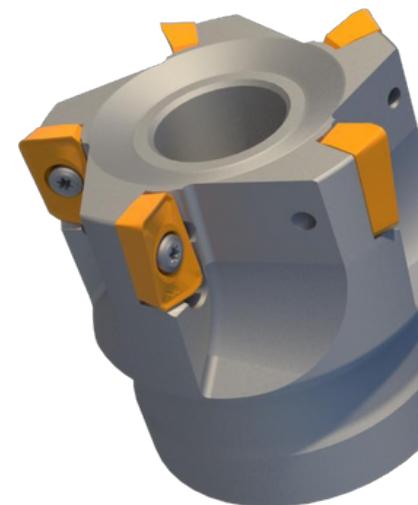
Type	stock	Number of flutes	Dimension						Interfa ce	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
TH-FM901-P16-16-2-AP11-120	●	2	16		16	120	35	10	P	AP*1135*	SA025065	T08P
TH-FM901-P16-16-2-AP11-170	○	2	16		16	170	40	10	P			
TH-FM901-P16-17-2-AP11-150	●	2	17		16	150	40	10	P			
TH-FM901-P16-17-2-AP11-200	○	2	17		16	200	50	10	P			
TH-FM901-P20-20-2-AP11-120	●	2	20		20	120	35	10	P			
TH-FM901-P20-20-2-AP11-170	○	2	20		20	170	40	10	P			
TH-FM901-P20-21-2-AP11-150	●	2	21		20	150	40	10	P			
TH-FM901-P20-21-2-AP11-200	○	2	21		20	200	50	10	P			
TH-FM901-P25-25-3-AP11-120	●	3	25		25	120	35	10	P			
TH-FM901-P25-25-3-AP11-170	○	3	25		25	170	40	10	P			

Type	stock	Number of flutes	DC	DCX	DCON	LF	LH	APMX	Interface	Adaptable Inserts	Screw	Wrench
TH-FM901-P25-25-2-AP16-120	●	2	25		25	120	35	15	P	AP*1604*	SA0411	T15P
TH-FM901-P25-25-2-AP16-170	○	2	25		25	170	40	15	P			
TH-FM901-P25-26-2-AP16-160	●	2	26		25	160	40	15	P			
TH-FM901-P25-26-2-AP16-200	○	2	26		25	200	50	15	P			
TH-FM901-P32-32-3-AP16-160	●	3	32		32	160	40	15	P			
TH-FM901-P32-32-3-AP16-200	○	3	32		32	200	50	15	P			
TH-FM901-P32-40-4-AP16-160	●	4	40		32	160	40	15	P			
TH-FM901-P32-40-4-AP16-200	○	4	40		32	200	50	15	P			

● Stock available ○ Make-to-order

## Square shoulder milling insert FM901 series

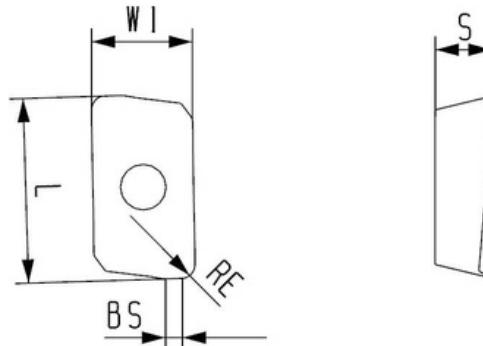
KAPR=90 °



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

● Stock available ○ Make-to-order

## FM901 milling insert



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

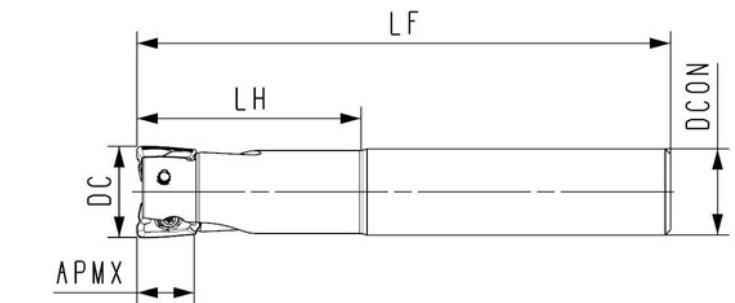
Material	P				=	»	»	»	»	#					
	M					»	»			#					
	K			»	=	»	»	»							
	N									»					
	S														
	H														
Type	Dimension					C	P	V	D	Uncoated					
	IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434

● Stock available   ○ Make-to-order

## Square shoulder milling insert FM901 series



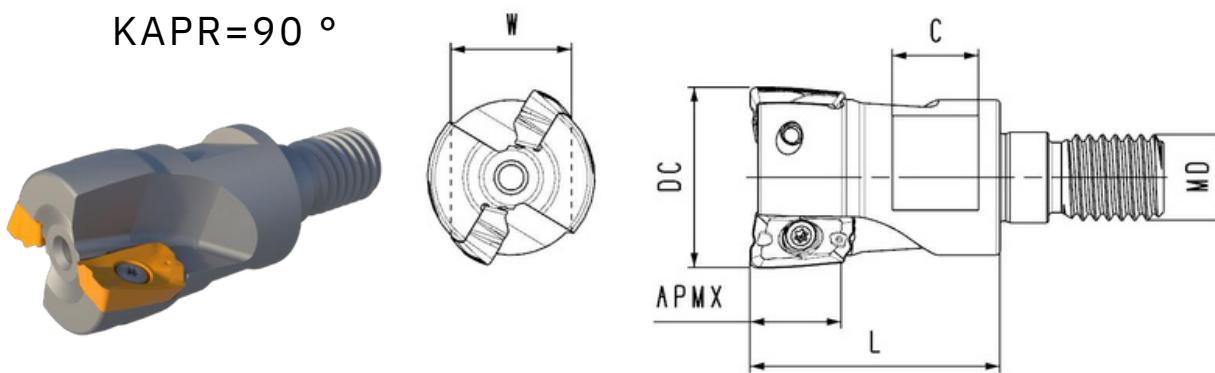
KAPR=90 °



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

● Stock available   ○ Make-to-order

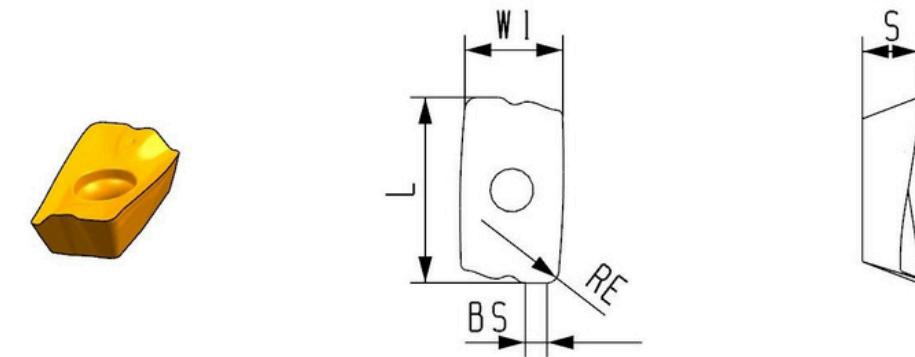
## FM901F indexable milling head



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

● Stock available    ○ Make-to-order

## FM901F milling insert

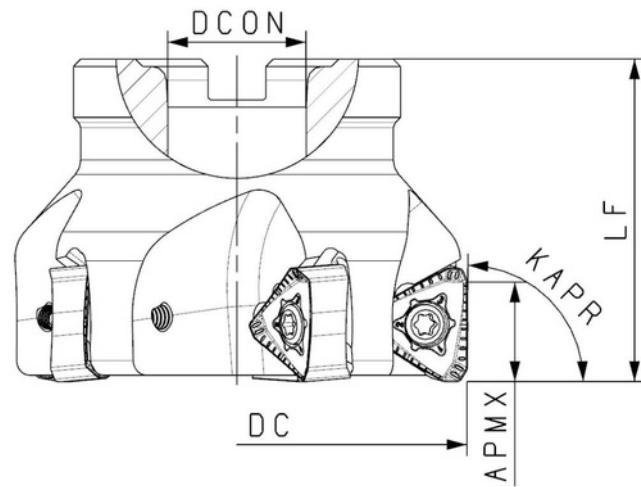


Material	= stable cutting condition							» normal cutting condition					# bad cutting condition
	P							=	»	»	»	»	#
	M							»	»	»	»	»	#
	K							»	=	»	»	»	
	N												»
	S												
Type	H							C	P	V	D	V	uncotted
	Dimension							V	P	V	D		
	IC	L	W1	S	D1	RE	BS	O C 3 2 2 0	O P 2 2 0 2	O P 1 3 1 5	O P 1 3 2 5	O P 1 0 3 0	O P 1 6 3 0
IC-BXKT11T304PER-OM		12.2	6.8	3.7		0.4	1.8	○	○	●	○	●	
IC-IC-BXKT11T308PER-OM		12.2	6.8	3.7		0.8	1.4		○	●			

● Stock available    ○ Make-to-order

## A Square shoulder milling insert FM902 series

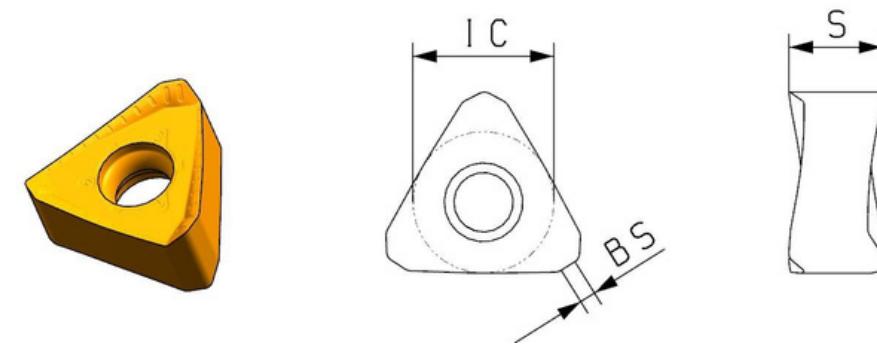
KAPR=90 °



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

● Stock available ○ Make-to-order

## A FM902 milling insert

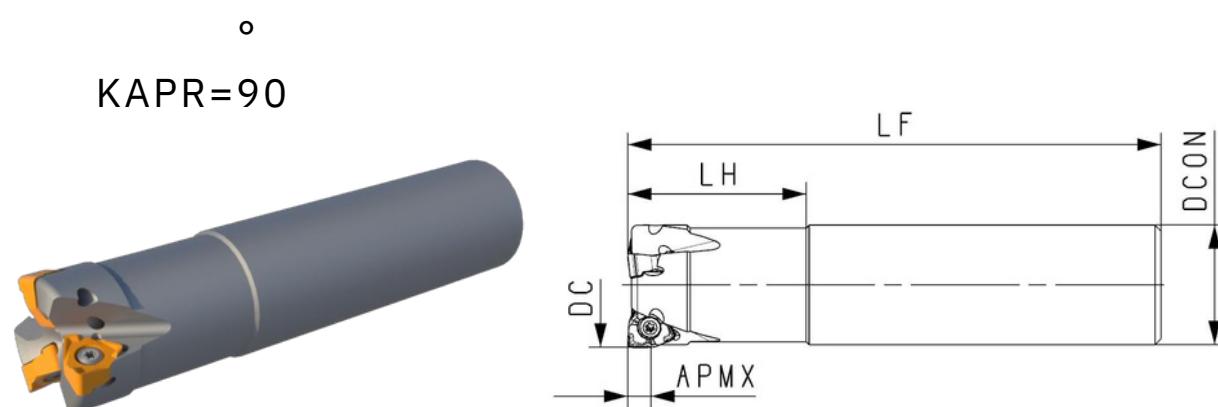


= stable cutting condition ≫ normal cutting condition # bad cutting condition

Material	P							C V D	P V D	uncoded					
	M														
	K														
	N														
	S														
	H														
Type	Dimension														
	IC	L	W1	S	D1	RE	BS								
IC-TNGX1306PNFR-1	11.46			7.6			1.3	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP2340	OK434

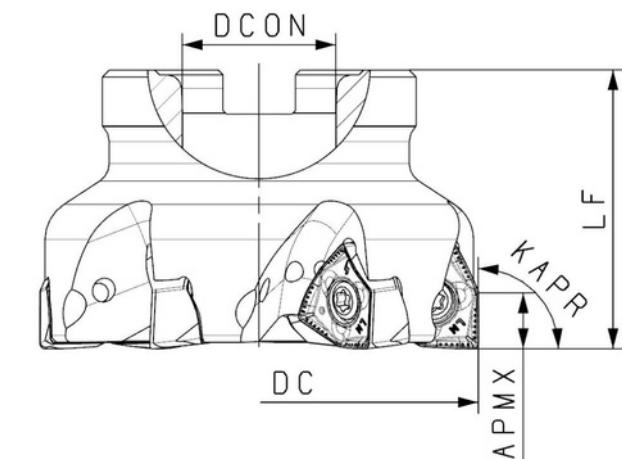
● Stock available ○ Make-to-order

## A Square shoulder milling insert FM903 series



## A Square shoulder milling insert FM903 series

KAPR=90 °



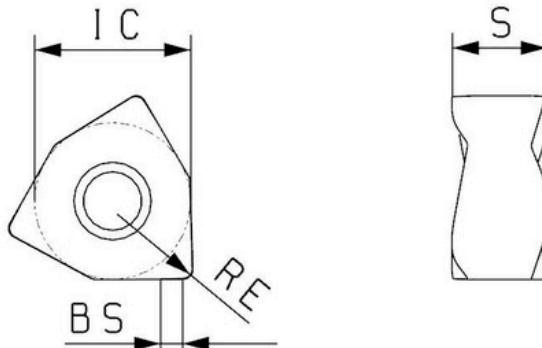
Type	stock	Number of flutes	Dimension						Interfa ce	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
TH-FM903-P20-20-2-WN04-120	○	2	20			120	35	3.8	P	WN*X0403*	SA025065	T08P
TH-FM903-P20-20-3-WN04-120	●	3	20			120	35	3.8	P			
TH-FM903-P20-21-3-WN04-120	○	3	21			120	35	3.8	P			
TH-FM903-P25-25-4-WN04-120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

● Stock available ○ Make-to-order

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

● Stock available ○ Make-to-order

## FM903 milling insert



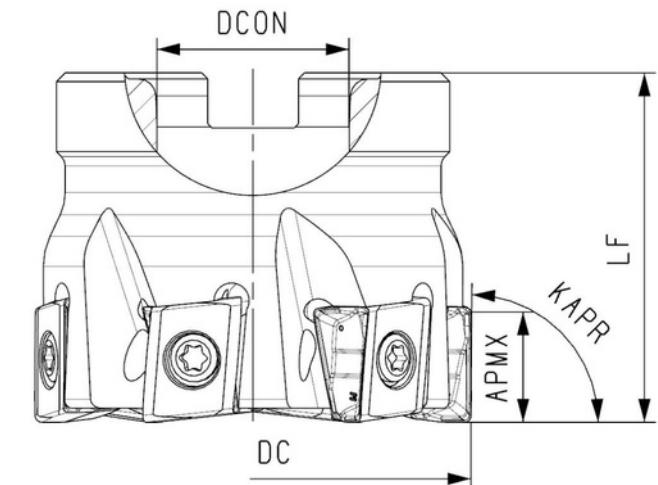
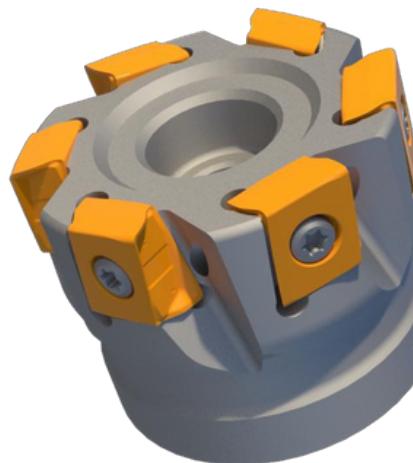
= stable cutting condition   » normal cutting condition   # bad cutting condition

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

● Stock available   ○ Make-to-order

## Square shoulder milling insert FM904 series

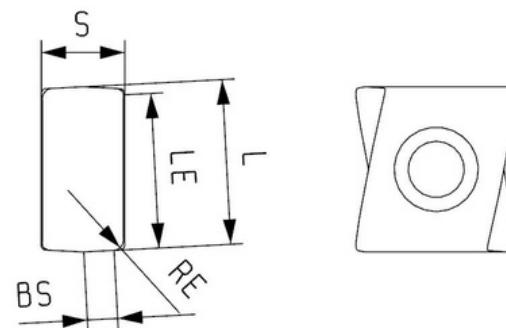
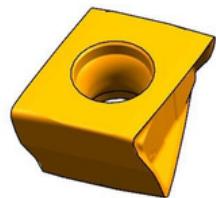
KAPR=90 °



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

● Stock available   ○ Make-to-order

## FM904 milling insert



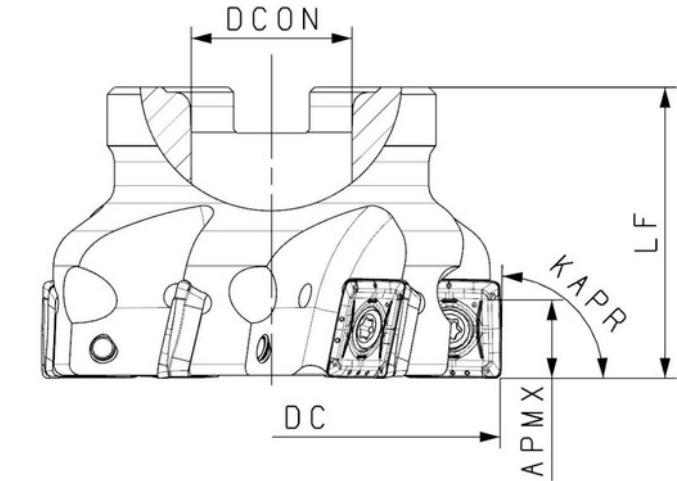
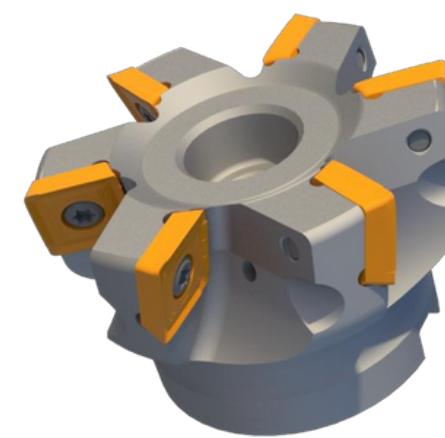
= stable cutting condition   » normal cutting condition   # bad cutting condition

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

● Stock available   ○ Make-to-order

## Square shoulder milling insert FM905 series

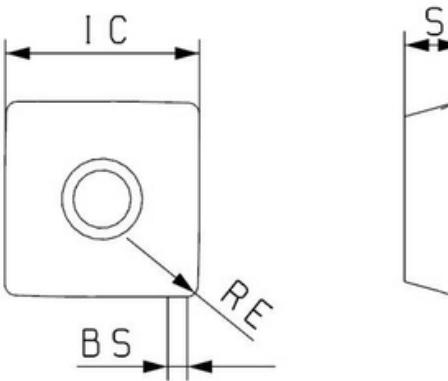
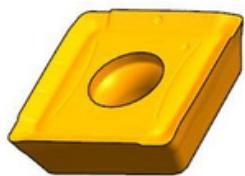
KAPR=90 °



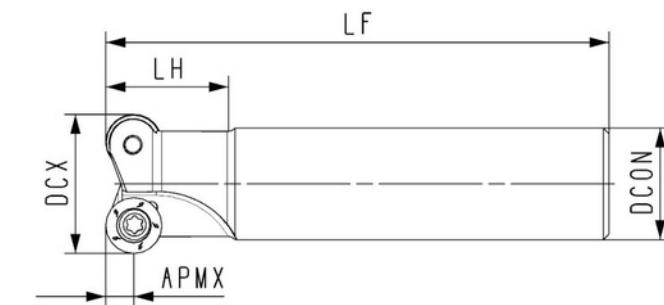
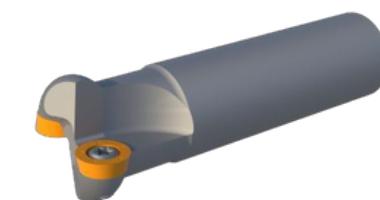
Type	stock	Number of flutes	Dimension						Interfa ce	Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX				
TH-FM905-A22-50-4-SD13	○	4	50			22	40		10.7	A	SDKT13T3*	SA0411 T15P
TH-FM905-A22-50-5-SD13	●	5	50			22	40		10.7	A		
TH-FM905-A22-63-6-SD13	●	6	63			22	40		10.7	A		
TH-FM905-A27-80-7-SD13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

● Stock available   ○ Make-to-order

## A FM905 milling insert



## A Profiling milling insert RM01 series



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

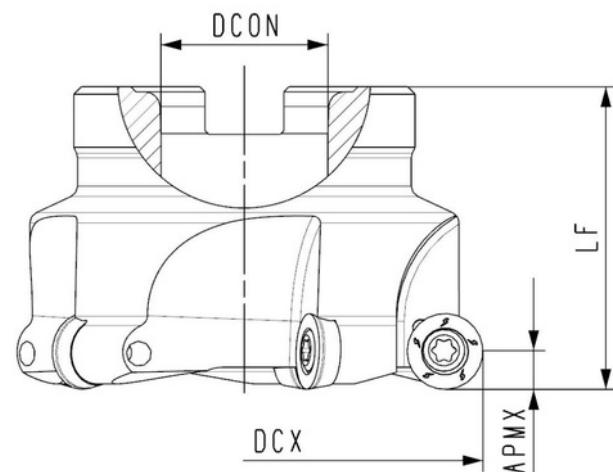
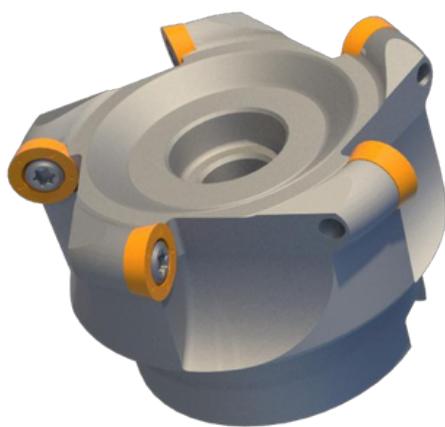
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	M					>>	>>			#
	K			>>	=	>>	>>	>>		
	N									>>
	S									
	H									
Type	Dimension					C V D	P V D			Uncotted
	IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315
	IC-SDKT13T308PER-OM	13.8			4.1			1.2		●
	IC-SDKT13T320PER-OM	13.8			4.1			1.0		●

● Stock available ○ Make-to-order

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

● Stock available ○ Make-to-order

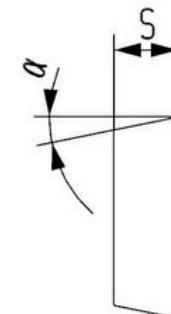
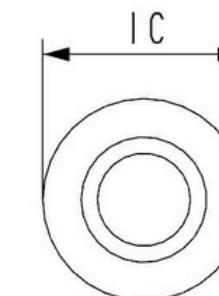
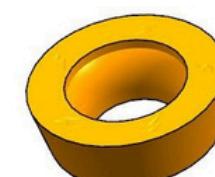
## Profiling milling insert RM01 series



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

● Stock available ○ Make-to-order

## RM01 milling insert

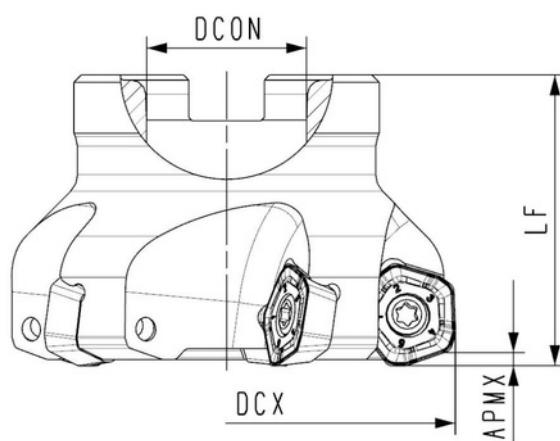
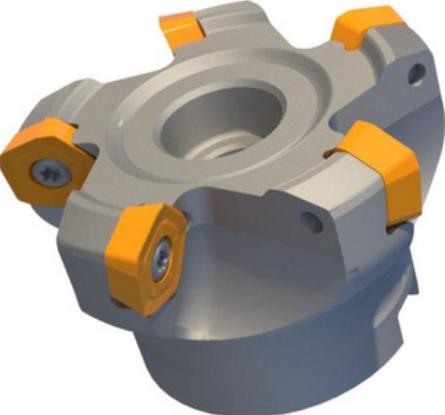


= stable cutting condition ≫ normal cutting condition # bad cutting condition

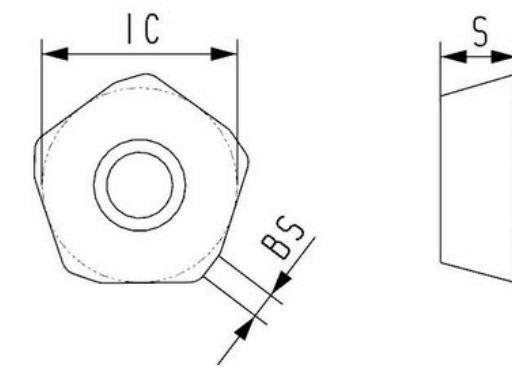
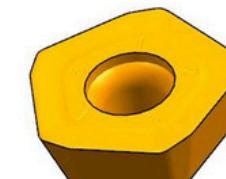
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	M							»	»	»	»	»	#	
	K							=	»	»	»	»		
	N												»	
	S													
	H													
Type	Dimension							C	P					
	IC	L	W1	S	D1	α	BS	V	V					
	IC-RPMW1003MO-SD	10			3.18		11	D	OC3220	OP2202	OP1315	OP1325	OP1030	OK434
	IC-RPKT1204MO-SD	12		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

● Stock available ○ Make-to-order

## A High feed milling insert HM192 series



## A HM192 milling insert



Type	stock	Number of flutes	Dimension						Adaptable Inserts	Screw	Wrench
			DC	DCX	DCON	LF	LH	APMX			
TH-HM192-A22-50-4-PD13	●	4	50	22	40		1.9	A	PD*1305*	SA0411	T15P
TH-HM192-A22-63-5-PD13	●	5	63	22	40		1.9	A			
TH-HM192-A27-80-6-PD13	●	6	80	27	50		1.9	A			
TH-HM192-B32-100-7-PD13	●	7	100	32	50		1.9	B			
TH-HM192-B40-125-8-PD13	●	8	125	40	63		1.9	B			
TH-HM192-C40-160-10-PD13	○	10	160	40	63		1.9	C			
TH-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	P							C V D	P				Uncorrected										
	M								V														
	K								D														
	N								P														
	S								V														
	H								D														
Type	Dimension								IC	L	W1	S	D1	RE	BS	OC3220	OP2202	OP1315	OP1325	OP1030	OP1630	OP1340	OK434
IC-PDMT1305ZDSR-SAM	13								5.1						1.7					●			

● Stock available ○ Make-to-order