



# General Milling Series

# MILLING CUTTER SERIES

## Face milling cutter

Application of milling insert material grade .....B002

Milling insert (High hardness processing) .....B003

Milling cutter catalogue .....B004

ON series .....B007

XNF45 series .....B011

HN45 series .....B013

4033 series .....B015

ASX445 series .....B017

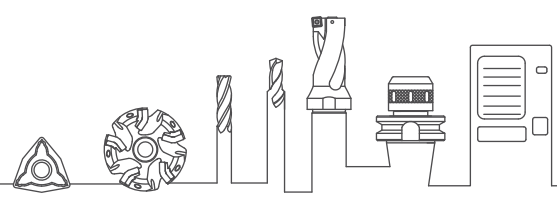
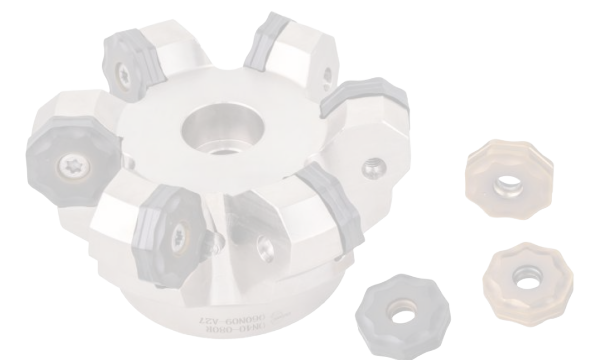
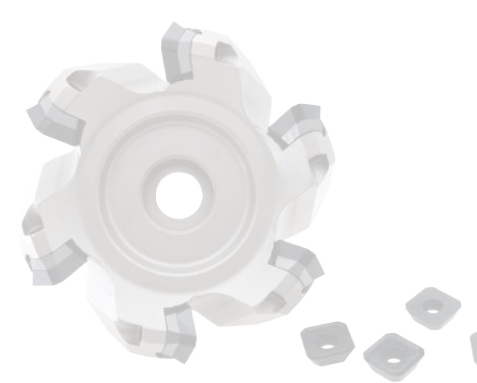
4047 series .....B019

4048 series .....B021

CMF series .....B023

AN90 series .....B025

LNf series .....B028



# Application of milling insert material grade



The workpiece material	ISO	Coating		
		CVD	PVD	Carbide
K Cast iron	K01			
	K10	HCK115B		
	K20	HCK215B	HPA225B	
	K30			
	K40			
P Steel	P01			
	P10			
	P20	HCP330B	HPA025B	
	P30	HCP125B		
	P40			
M Stainless steel	M01			
	M10			
	M20		HPA025B	
	M30		HPA225B	
	M40			
H High hardness steel	H01			
	H10		HPH105B	
	H20			
	H30		HPH120B	
	H40			HPH125B
S Heat-resisting alloy processing	S01			
	S10		HPS115B	
	S20			
	S30		HPS325B	
	S40			
N Aluminum	N01			
	N10			
	N20			HWK001B
	N30			
	N40			

A

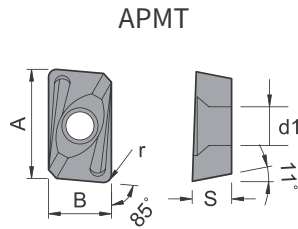
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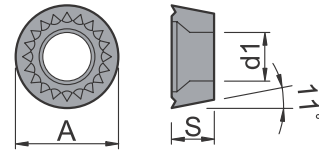
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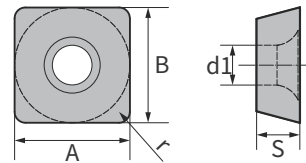
# Milling insert (High hardness processing)



RPMT



SDMT



**H** High hardness steel process

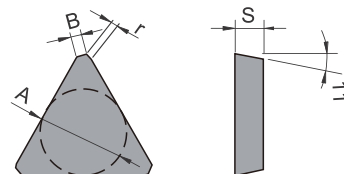
Part number	Material (PVD)			Size				
	HPH105B	HPH120B	HPH125B	A	B	s	r	d1
APMT1135PDER-H2	●	○	○	11	6.25	3.5	0.8	2.8
APMT1604PDER-H2	●	○	○	16.5	9.525	4.76	0.8	4.4
APKT1135PDER-H2	●	○	○	11	6.25	3.5	0.8	2.8
APKT1604PDER-H2	●	○	○	16.5	9.525	4.76	0.8	4.4
RPMW1003MO	●	○	○	10	-	3.18	-	4.6
RPMT1204MOE-JS	●	○	○	12	-	4.76	-	4.4
SDMT120408-M	●	○	○	12.7	-	4.76	0.8	5.5

Note: ● have stock ○ for reservation

## Material recommendation list

Working material	The insert material		
	HPH105B	HPH120B	HPH125B
High hardness steel	△	▲	△
Nodular cast iron	▲		







Note: ▲ recommended △ optional



Part number	Material (CVD)			Material (PVD)		Size			
	HCP330B	HCP340B	HCP025B	HPA025B	HPA225B	A	B	s	r
TPKN2204PDTR-D	○	○	●	●	●	11	6.25	3.5	0.8

Note: ● have stock ○ for reservation

# Milling cutter catalogue

Processing type	Lead angle	Product model and appearance	Maximum cutting depth ap(max)	Feature	The diameter of the cutting edge	Workpiece material					
						P Steel	M Stainless steel	K Cast iron	N Nonferrous metal	S Heat-resisting alloy	H High hardness steel
Face milling	45°	ON 	ON05 3.4mm	High performance facing milling. 16 corners economical double-sided insert.	Ø50 Ø63 Ø80 Ø100 Ø125 Ø160	→ B008					
			ON08 5mm		Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250 Ø315	→ B008					
			ON09 6mm		Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250 Ø315	→ B009					
Face milling	45°	XNF45 	XN07 4.5mm	Double-sided heptagon insert. Economical double-sided 14 corners insert. Thickening design, strong damage resistance.	Ø50 Ø63 Ø80 Ø100 Ø125 Ø160	→ B011					
		HN45 	HN09 5mm	Realize high feed processing. Low cutting resistance. Super universality. Collapse resistance. Double-sided positive insert with 12 cutting edges. The metric interface.	Ø50 Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø315	→ B013					
		4033 	SN12 5mm	Unique “Z” design and special cutting-edge guarantee. Reduce load and extend cutting life. 8 corners cutting edges, good economy. Low cutting resistance. Excellent cutting.	Ø50 Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250 Ø315	→ B015					

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B





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D



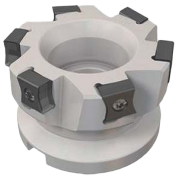
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- A
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- E

## Milling cutter catalogue

Process type	Lead angle	Product model and appearance	Maximum cutting depth ap(max)	Feature	The diameter of the cutting edge	Workpiece material					
						P	M	K	N	S	H
						Steel	Stainless steel	Cast iron	Nonferrous metal	Heat-resisting alloy	High hardness steel
Face milling	45°	ASX445 	SE12 6mm	High precision grinding insert, high positioning accuracy. Large radial direction, axial forward angle, light cutting. Insert adopts unique hole design, clamping more reliable. Quick insert replacement, simple and convenient. Used carbide insert pad to protect the milling cutter. Suitable for processing thin parts, box parts and poor rigidity of steel parts, stainless steel, cast iron.	Ø50 Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250 Ø315	➔ B017					
	75°	4047 	SN16 13.5mm	8 corners cutting edges indexable insert. Keep the maximum face milling efficiency is ensured by positive chip breaker and stable negative indexable insert.	Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250	➔ B019					
	88°	4048 	SN12 11mm	8 corners cutting edges indexable insert. Keep the maximum face milling efficiency is ensured by positive chip breaker and stable negative indexable insert.	Ø50 Ø63 Ø80 Ø100 Ø125	➔ B021					
			SN16 14.5mm	8 corners cutting edges indexable insert. Keep the maximum face milling efficiency is ensured by positive chip breaker and stable negative indexable insert.	Ø63 Ø80 Ø100 Ø125 Ø200 Ø250						
90°	CMF 	WN08 8mm	Cutting fast by special cutting edge design of large rake angle. G grade precision, left and right universal insert. The contact surface of the insert positioning is large, and the increase of thickness improves the collapse strength. High economy double-sided 6 corners insert. The metric interface.	Ø63 Ø80 Ø100 Ø125 Ø200 Ø250	➔ B023						

# Milling cutter catalogue

Processing type	Lead angle	Product model and appearance	Maximum cutting depth ap(max)	Feature	The diameter of the cutting edge	Workpiece material					
						P	M	K	N	S	H
						Steel	Stainless steel	Cast iron	Nonferrous metal	Heat-resisting alloy	High hardness steel
Face milling	90°	AN90 	AN09 7.5mm	Thickened insert design, strong enough for high feed milling. The dovetail chip breaker design, and combined with the finishing edge insert, could achieve the high precision milling surface.	Ø16 Ø20 Ø25	→ B025					
		AN12 10.5mm	Locking by right angle screw, and the contact surface is larger and more stable, to ensure higher clamping rigidity and accuracy.	Ø25 Ø32 Ø40							
			AN17 15.5mm	Dense tooth design, combined with the low cutting resistance design, high processing efficiency. Double-sided 4 corners insert design, high precision, efficient and economical.	Ø40 Ø50 Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250	→ B026					
	90°	LNF 	LN11 5mm	Various inserts are available for processing different materials and working conditions. Standing inserts constructure could achieve large cutting depth, high metal removal rate.	Ø40 Ø50 Ø63 Ø80 Ø100 Ø125 Ø160 Ø200 Ø250	→ B028					
		LN15 7mm	Widely used in automobile, machine tool, ship and other industries.								

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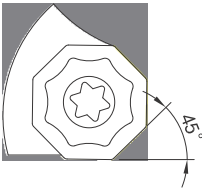
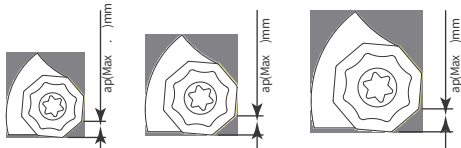
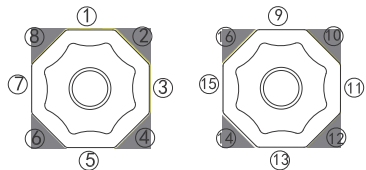
# ON




Face milling series

Features


High performance face milling



ON series 45° Lead Angle one option	The maximum depth of cutting have three options 3.4mm/5mm/6mm	Economical double-sided 16 corners insert
	 <p>ON05 insert   ON08 insert   ON09 insert</p>	 <p>Insert front view   Insert front view</p>

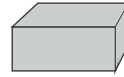
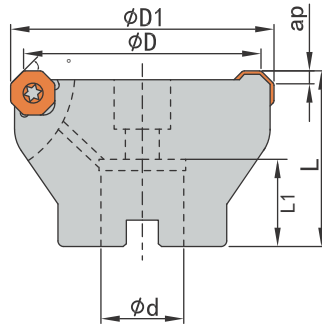
Insert picture	Part number	The maximum cutting depth (mm)
	ONGU050408-PM	3.4mm
	ONGU08T508-PM	5mm
	ONGU090520-PM	6mm

## ON series Chip breaker introduction

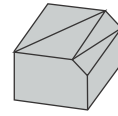
Insert	Chip breaker	Feature
ONGU050408-PM ONGU08T508-PM ONGU090520-PM		High strength front edge design, suitable for universal processing steel, stainless steel, cast iron, high temperature alloy steel.



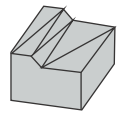
## ON05 milling cutter specification



Face mill



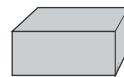
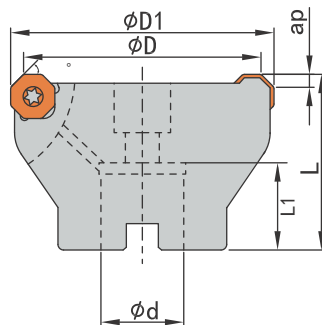
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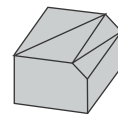
Forming m

Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
ON45T-050R04ON05-A22C	*50	22	62	40	20	4	3.4	ONGU05 O408-PM	S4012-1	T15	○
ON45T-063R05ON05-A22C	63	22	75	40	20	5					○
ON45T-080R06ON05-A27C	80	27	92	50	22	6					●
ON45T-100R08ON05-B32C	100	32	112	63	25	8					●
ON45T-125R08ON05-B40C	125	40	136	63	28	8					●
ON45T-160R10ON05-C40C	160	40	172	63	28	10					●

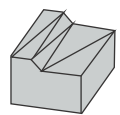
## ON08 milling cutter specification



Face mill



Chamfering r



Forming m

Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
ON45-063R05ON08-A22	63	22	78	40	20	5	5	ONGU08 T508-PM	S5012- A55-1	T20	○
ON45-080R06ON08-B27	80	27	95	50	22	6					○
ON45-100R07ON08-B32	100	32	115	63	25	7					○
ON45-125R08ON08-B40	125	40	140	63	28	8					●
ON45-160R10ON08-C40	160	40	175	63	28	10					●
ON45-200R12ON08-C60	200	60	215	63	32	12					○
ON45-250R14ON08-C60	250	60	265	63	32	14					○
ON45-315R16ON08-D60	315	60	330	80	32	16					○

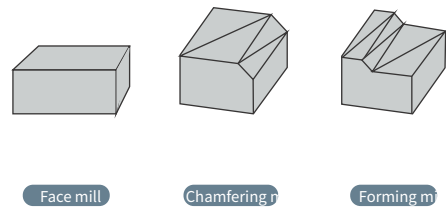
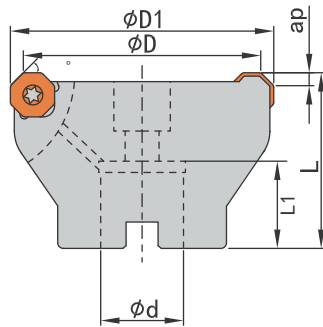
Note: ● have stock ○ for reservation

Take ON45T-050R04ON05-A22C \* as an example, "T" represents unequally spaced teeth pitch, "C" represents internal cooling,

"\*\*" represents customized product.

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## ON09 milling cutter specification



Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
ON45-063R05ON09-A22 *	63	22	78	40	20	5	6	ONGU09-0520-PM	S5012-A55-1	T20	○
ON45-080R06ON09-B27	80	27	95	50	22	6					●
ON45-100R07ON09-B32	100	32	115	63	25	7					●
ON45-125R08ON09-B40	125	40	140	63	28	8					●
ON45-160R10ON09-C40	160	40	175	63	28	10					●
ON45-200R12ON09-C60 *	200	60	215	63	32	12					○
ON45-250R14ON09-C60 *	250	60	265	63	32	14					○
ON45-315R16ON09-D60 *	315	60	330	80	32	16					○

Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
ON45-063R05ON09S-A22 *	63	22	78	40	20	5	6	ONGU09-0520-PM Special for heat resistant alloy	S5012-A55-1	T20	○
ON45-080R06ON09S-A27	80	27	95	50	22	6					●
ON45-100R07ON09S-B32	100	32	115	63	25	7					●
ON45-125R08ON09S-B40	125	40	140	63	28	8					●

## Insert specification



Part number	Material				Size			
	PVD			CVD	A	s	r	d
	HPS115B	HPA025B	HPA225B	HCK115B				
ONGU050408-PM		●	●		12.7	6.2	0.8	4.4
ONGU08T508-PM		●	●	●	20.2	5.79	0.8	5.3
ONGU090520-PM	●		●	●	22	5.8	2.0	5.3

Note: ● have stock ○ for reservation “\*” represents customized product.

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Mild steel (SS400, S10C and so on)	≤HB180	HPA025B	180(100-250)	0.2(0.15-0.25)
	Carbon steel, Alloy steel (S50C, SCM440 and so on)	HB180-350	HPA025B	180(100-250)	0.2(0.15-0.25)
	Pre hardened steel (NAK55 and so on)	HRC35-45	HPA025B	120(80-160)	0.15(0.1-0.2)
	High alloy steel (SKD, SK and so on)	≤HB300	HPA025B	120(80-160)	0.15(0.1-0.2)
M	Stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	125(100-150)	0.1(0.05-0.15)
			HPA025B	125(100-150)	0.1(0.05-0.15)
			HPS115B	125(100-150)	0.1(0.05-0.15)
	Stainless steel (SUS304LN, SUS316LN and so on)	≥HB200	HPA225B	100(75-125)	0.1(0.05-0.15)
			HPA025B	100(75-125)	0.1(0.05-0.15)
			HPS115B	100(75-125)	0.1(0.05-0.15)
K	Grey cast iron (FC250 and so on)	Tensile strength≤350MPa	HCK115B	220(150-300)	0.3(0.2-0.4)
	Nodular cast iron (FCD450 and so on)	Tensile strength360-500MPa	HCK115B	200(150-250)	0.2(0.1-0.3)
	Nodular cast iron (FCD500 and so on)	Tensile strength500-800MPa	HCK115B	170(150-200)	0.2(0.1-0.3)
S	Titanium alloy (Ti-6A-4V and so on)	-	HPS115B	40(20-50)	0.15(0.1-0.25)
			HPA225B	40(20-50)	0.15(0.1-0.25)
	Heat resistant alloy	-	HPS115B	30(10-40)	0.15(0.05-0.15)
			HPA225B	30(10-40)	0.15(0.05-0.15)

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A

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# XNF45



## Milling product

## Product feature

Double-sided 14 corners cutting edges, more economical.

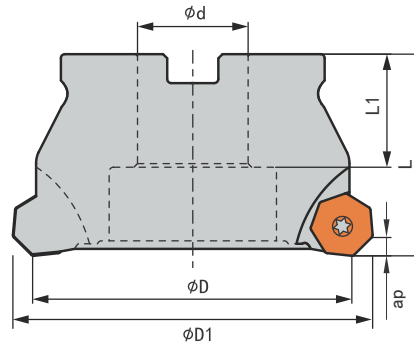
Thickening design, strong damage resistance.

Lead Angle: 45°

Maximum cutting depth: 4.5 mm

M type cutting edge insert could meet the universal processing requirements of customers.

## Milling cutter specification



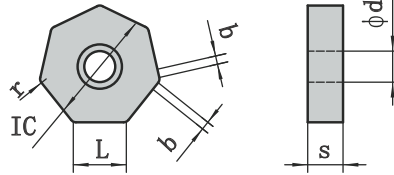
Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	$ap$ (max)				
XNF45-050R04XN07-A22	50	22	60.38	40	20	4	4.5	XNHF0705	Ts3510	T15	●
XNF45-063R05XN07-A22	63	22	73.38	50	20	5					●
XNF45-080R06XN07-A27	80	27	90.38	50	22	6					●
XNF45-100R07XN07-B32	100	32	110.38	50	25	7					●
XNF45-125R08XN07-B40	125	40	135.38	63	28	8					●
XNF45-160R10XN07-B40	160	40	170.38	63	28	10					●

## Chip breaker introduction

Chip breaker	Graphical	Feature
M chip breaker		Universal type, suitable for semi-finish to medium processing condition, and most of common materials

Note: ● have stock ○ for reservation

## Insert specification



Part number	Material						Size				
	PVD				CVD		IC	s	r	b/d	L
	HPA025B	HPA225B	HPS325B	HPS120D	HCK115B	HCK215B					
XNHF0705ANN-M	●	●	●		●	●	14.5	4.6	0.8	1.1	6.98
XNMU070508-S				●			14.5	4.6	0.8	1.1	6.98

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Mild steel (SS400, S10C and so on)	≤HB180	HPA025B	180(100-250)	0.2(0.15-0.25)
	Carbon steel, Alloy steel (S50C, SCM440 and so on)	HB180-350	HPA025B	180(100-250)	0.2(0.15-0.25)
	Pre hardened steel (NAK55 and so on)	HRC35-45	HPA025B	120(80-160)	0.15(0.1-0.2)
	High alloy steel (SKD, SK and so on)	≤HB300	HPA025B	120(80-160)	0.15(0.1-0.2)
M	Stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	125(100-150)	0.1(0.05-0.15)
			HPA025B	125(100-150)	0.1(0.05-0.15)
	Stainless steel (SUS304LN, SUS316LN and so on)	≥HB200	HPA225B	100(75-125)	0.1(0.05-0.15)
			HPA025B	100(75-125)	0.1(0.05-0.15)
K	Grey cast iron (FC250 and so on)	Tensile strength ≤350MPa	HCK115B	160(100-200)	0.25(0.2-0.3)
			HCK215B	160(100-200)	0.25(0.2-0.3)
	Nodular cast iron (FCD450 and so on)	Tensile strength 360-500MPa	HCK115B	160(100-220)	0.2(0.15-0.25)
			HCK215B	160(100-200)	0.2(0.15-0.25)
	Nodular cast iron (FCD500 and so on)	Tensile strength 500-800MPa	HCK115B	140(90-190)	0.2(0.15-0.25)
			HCK215B	140(90-190)	0.2(0.15-0.25)
S	Titanium alloy (Ti-6Al-4V and so on)	-	HPS325B	60(40-80)	0.15(0.1-0.25)
	Heat resistant alloy	-	HPS325B	30(10-40)	0.15(0.05-0.15)

A

# HN45

B

## Face milling seriest

C

### Product feature

D

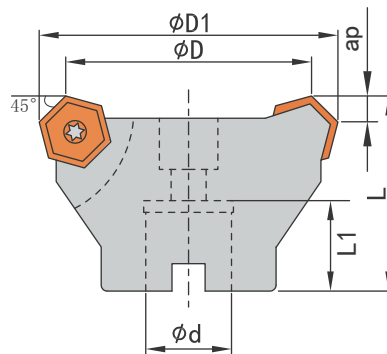
E

- Realize high feed processing
- Low cutting resistance
- Super universality
- Collapse resistance
- Double-sided positive insert with 12 cutting edges

- Lead Angle: 45°
- Maximum cutting depth: 5mm
- Diameter:  $\Phi 50\text{-}\Phi 315\text{mm}$
- Tool interface: the metric interface



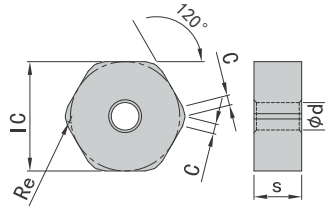
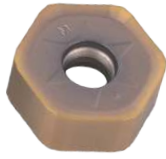
### Milling cutter specification



Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
HN45-50R04H09-A22	50	22	61.7	40	20	4				●	
HN45-63R06H09-A22	63	22	74.7	40	20	6				●	
HN45-80R06H09-A27	80	27	91.7	50	22	6				●	
HN45-80R08H09-A27	80	27	91.7	50	22	8				●	
HN45-100R06H09-B32	100	32	111.7	50	25	6				●	
HN45-125R06H09-B40	125	40	136.7	63	28	6				●	
HN45-125R08H09-B40	125	40	136.7	63	28	8	5	HNGX09 07ANSN	SC45 1260-F	T20	●
HN45-125R10H09-B40	125	40	136.7	63	28	10					●
HN45-160R08H09-C40	160	40	171.7	63	28	8					●
HN45-160R10H09-C40	160	40	171.7	63	28	10				●	
HN45-160R12H09-C40	160	40	171.7	63	28	12				●	
HN45-200R12H09-C60*	200	60	211.7	63	32	12				○	
HN45-315R16H09-C60*	315	60	326.7	80	32	16				○	

Note: ● have stock ○ for reservation “\*” represents customized product.

## Insert specification



Part number	Material			Size				
	PVD		CVD	IC	S	Re	C	d
	HPA225B	HPA025B	HCK115B					
HNGX0907ANSN-R	●	●	●	16.5	7.13	1	1.5	4.86
HNGX0907ANSN-M	●	●	●	16.5	7.13	1	1.5	4.86

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Mild steel (SS400, S10C and so on)	≤HB180	HPA025B	250(200-300)	0.3(0.2-0.4)
	Alloy steel (SCM*** and so on)	HB180-280	HPA025B	180(100-250)	0.2(0.15-0.25)
	Alloy steel (SNCM439 and so on)	HB280-350	HPA025B	140(100-180)	0.3(0.2-0.4)
M	Stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	150(100-200)	0.2(0.1-0.3)
K	Grey cast iron (FC300 and so on)	Tensile strength ≤350MPa	HCK115B	220(150-300)	0.3(0.2-0.4)
			HPA225B	180(130-230)	0.3(0.2-0.4)
	Nodular cast iron (FCD450 and so on)	Tensile strength ≤450MPa	HCK115B	200(150-250)	0.2(0.1-0.3)
			HPA225B	170(120-220)	0.2(0.1-0.3)
	Nodular cast iron (FCD700 and so on)	Tensile strength ≤800MPa	HCK115B	170(150-200)	0.2(0.1-0.3)
			HPA225B	150(125-170)	0.2(0.1-0.3)
H	High hardness steel (SKD61 and so on)	HRC40-50	HPA025B	80(60-100)	0.15(0.1-0.2)

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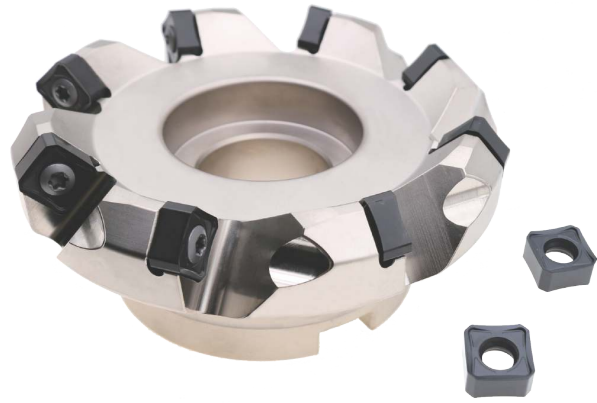
E

# 4033

## Face milling series

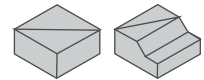
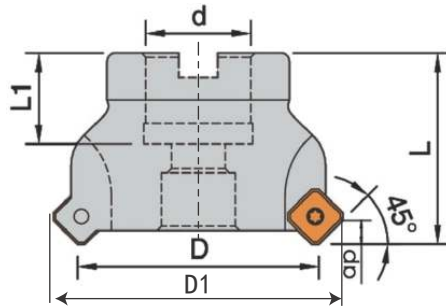
### Product feature

Unique “Z” design and special cutting-edge guarantee  
Reduce load and extend tool life  
8-corner cutting edges, economically  
Low cutting resistance



Excellent cutting effect  
Lead Angle: 45°  
Maximum cutting depth: 5 mm  
Diameter:  $\Phi 50\text{-}\Phi 315\text{mm}$

### Milling cutter specification

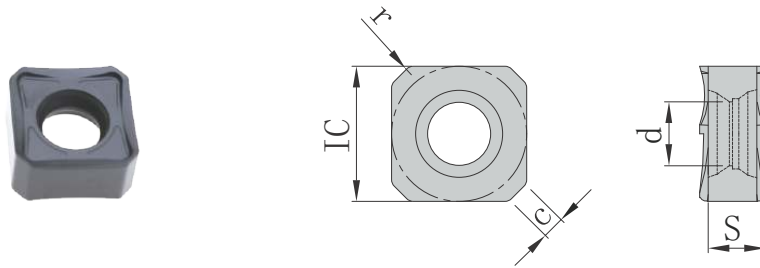


Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	$a_p$ (max)				
4033.A.050.Z04.SN12-22*	50	22	64.5	40	20	4	5	SNMX1 205ATN	TS4015	T15	○
4033.A.063.Z05.SN12-22	63	22	77.5	40	20	5					●
4033.A.080.Z07.SN12-27	80	27	94.5	50	22	7					●
4033.B.100.Z08.SN12-32	100	32	114.5	50	28	8					●
4033.B.125.Z10.SN12-40	125	40	139.5	63	35	10					●
4033.B.160.Z12.SN12-40*	160	40	174.5	63	35	12					○
4033.C.200.Z14.SN12-60*	200	60	214.5	63	42	14					○
4033.C.250.Z16.SN12-60*	250	60	264.5	63	42	16					○
4033.D.315.Z20.SN12-60*	315	60	329.5	63	57	20					○

Note: ● have stock ○ for reservation “\*” represents customized product.



## Insert specification



Part number	Material				Size			
	CVD		PVD		IC	s	r	d
	HCP330B	HCK115B	HPA025B	HPA225B				
SNMX1205ATN	●	●	●	●	12.7	6.2	0.8	6

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Carbon steel, Alloy steel (S45C, SCM440 and so on)	HB180-350	HCP330B	200(150-250)	0.2(0.15-0.25)
			HPA025B	120(80-160)	0.2(0.15-0.25)
M	Austenitic stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	120(70-160)	0.18(0.13-0.22)
	Austenitic stainless steel (SUS304LN, SUS316LN and so on)	> HB200	HPA225B	100(60-140)	0.18(0.13-0.22)
K	Grey cast iron (FC300 and so on)	≤350MPa	HCK115B	220(200-270)	0.2(0.15-0.25)
			HPA225B	180(130-250)	0.2(0.15-0.25)
	Nodular cast iron (FCD700 and so on)	≤800MPa	HCK115B	200(150-250)	0.2(0.15-0.25)
			HPA225B	180(130-250)	0.2(0.15-0.25)
H	High hardness steel (SKD61, SKT4 and so on)	HRC40-50	HPA025B	50(30-70)	0.08(0.05-0.12)

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# ASX445

## Face milling series

### Product feature

High precision grinding insert, high positioning accuracy.

Large radial direction, axial forward Angle, light cutting.

Insert adopts unique hole design, clamping more reliable.

Quick insert replacement, simple and convenient.

Used carbide insert pad to protect the milling cutter.

Suitable for processing thin parts, box parts and poor rigidity of steel parts, stainless steel, cast iron.

Lead Angle: 45°

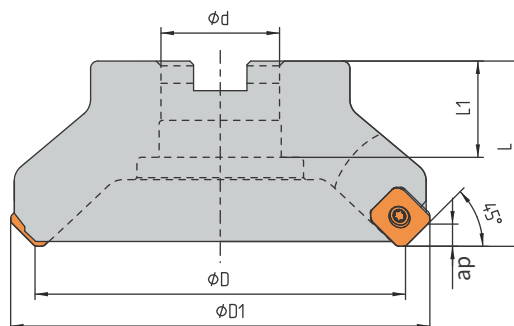
Maximum cutting depth: 5 mm

Tool interface: the metric interface

Diameter:  $\Phi 50$ - $\Phi 315$ mm



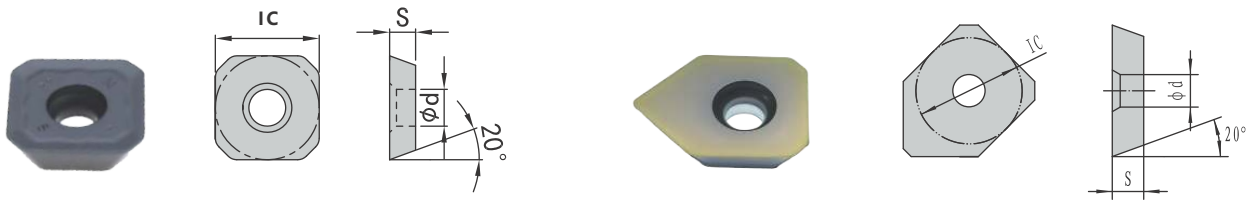
### Milling cutter specification



Part number	Size							Inserts	Shim	Shim Screw	Inserts Screw	Wrench (Shim)	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)							
ASX445L050-22-4T	50	22	62.4	40	20	4	6	SEET12T3 XEGT12T3	STASX445 N547	SMO508T	S3510	L3.5	T15	○
ASX445L063-22-5T	63	22	75.4	40	20	5								○
ASX445R050-22-4T	50	22	62.4	40	20	4								○
ASX445R063-22-5T	63	22	75.4	40	20	5								●
ASX445R080-27-6T	80	27	92.4	50	22	6								●
ASX445R100-32-7T	100	32	112.4	50	25	7								●
ASX445R125-40-8T	125	40	137.4	63	28	8								●
ASX445R160-40-10T	160	40	172.4	63	28	10								●
ASX445R200-60-12T	200	60	212.4	63	32	12								●
ASX445R250-60-14T	250	60	262.4	63	32	14								○
ASX445R315-60-18T	315	60	327.4	80	32	18								○

Note: ● have stock ○ for reservation

## Insert specification



Part number	Material						Size		
	CVD		PVD		Cermet	Carbide insert	IC	s	d
	HCP330B	HCK115B	HPA025B	HPA225B	HN200D	HWK001B			
SEET12T3-HL						●	13.4	3.97	4.1
SEET12T3-FM	●		●	●			13.4	3.97	4.1
SEET12T3-SM	●	●	●	●		○	13.4	3.97	4.1
SEET12T3AGEN					●		13.4	3.97	4.1
XEGT12T3-W			○	●			13.4	3.97	4.1

Note: ● have stock ○ for reservation

## Recommended cutting conditions

Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Finish machining- light cutting		Medium cutting	
				Feed per blade (mm/t)	Chip breaker	Feed per blade (mm/t)	Chip breaker
P Mild steel (SS400, S10C and so on)	≤HB180	HCP330B	260(210-350)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM
		HPA025B	180(130-230)	0.15(0.1-0.2)			
	HB180-280	HCP330B	240(210-300)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM
		HPA025B	160(130-230)	0.15(0.1-0.2)			
HB280-350	HCP330B	180(130-230)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM	
	HPA025B	140(100-180)	0.15(0.1-0.2)				
M Stainless steel (SUS304 and so on)	≤HB270	HPA225B	200(150-250)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM
K Cast iron Nodular cast iron (FCD250, FCD400 and so on)	Tensile strength ≤ 450MPa	HCK115B	180(150-230)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM
		HPA225B	160(130-200)	0.15(0.1-0.2)			
	Tensile strength ≥ 450MPa	HCK115B	180(150-230)	0.15(0.1-0.2)	FM	0.2(0.1-0.3)	SM
		HPA225B	120(100-180)	0.15(0.1-0.2)			
N Nonferrous metal	-	HWK001B	300(200-500)	0.15(0.05-0.2)	HL	0.15(0.05-0.2)	HL

# 4047

## Face milling series

### Product feature

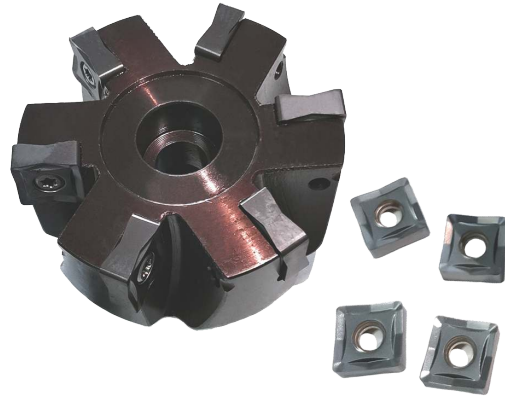
Lead Angle: 75°

Maximum cutting depth: 13.5 mm

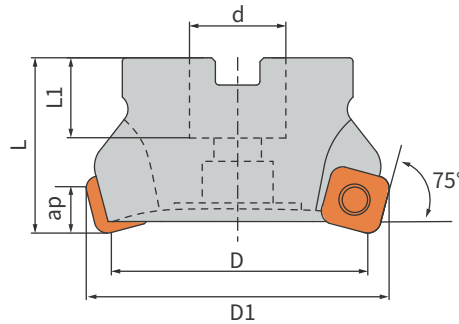
Enlarged and thickened insert, strengthened the cutting edge, to ensure the strength of the product.

Double-sided 8 corners indexable insert, suitable for different lead angle cutting tools.

Positive corner chip breaker with stable indexable insert, to ensure the highest producing efficiency.



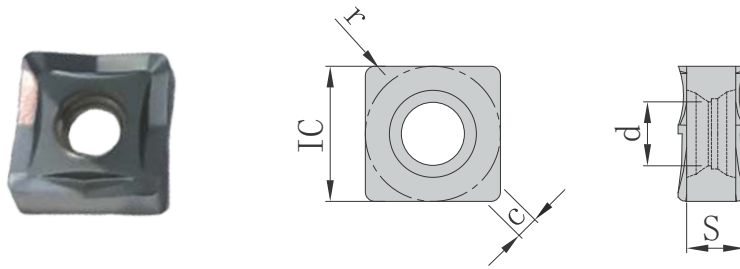
### Milling cutter specification



Part number	Size							Inserts	Screw	Wrench	Inventory
	D	d	D1	L	L1	T	ap (max)				
4047.A.063.Z05.08-22 *	63	22	72.5	40	20	5	13.5	SNGX16	S5012-A55-1	T20	●
4047.A.080.Z05.08-27 *	80	27	89.5	50	22	5					○
4047.B.100.Z08.08-32 *	100	32	109.5	50	25	8					○
4047.B.125.Z10.08-40 *	125	40	134.5	63	28	10					●
4047.B.160.Z10.08-40 *	160	40	169.5	63	28	10					○
4047.C.160.Z12.08-40 *	160	40	169.5	63	28	12					○
4047.C.200.Z14.08-60 *	200	60	209.5	63	32	14					○
4047.C.250.Z16.08-60 *	250	60	259.5	63	32	16					○

Note: ● have stock ○ for reservation "\*" represents customized product.

## Insert specification



Part number	Material						Size			
	CVD		PVD				IC	s	r	d
	HCK115B	HCP340B	HPA025B	HPA220B	HPA225B	HPH125B				
SNGX160612EN-M	●	●	●	●	●	○	16	7.7	1.2	6

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Carbon steel, Alloy steel (S45C, SCM440 and so on)	HB180-350	HCP340B	200(150-250)	0.20(0.15-0.25)
			HPA025B	120(80-160)	0.20(0.15-0.25)
M	Austenitic stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	120(70-160)	0.18(0.13-0.22)
	Austenitic stainless steel (SUS304LN, SUS316LN and so on)	>HB200	HPA225B	100(60-140)	0.18(0.13-0.22)
K	Grey cast iron (FC300 and so on)	≤350MPa	HCK115B	220(200-270)	0.20(0.15-0.25)
			HPA225B	180(130-250)	0.20(0.15-0.25)
	Nodular cast iron (FCD700 and so on)	≤800MPa	HCK115B	200(150-250)	0.20(0.15-0.25)
			HPA225B	180(130-250)	0.20(0.15-0.25)
H	High hardness steel (SKD61, SKT4 and so on)	HRC40-50	HPA025B	50(30-70)	0.08(0.05-0.12)
			HPH125B	80(60-100)	0.08(0.05-0.12)

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# 4048

## Face milling series

### Product feature

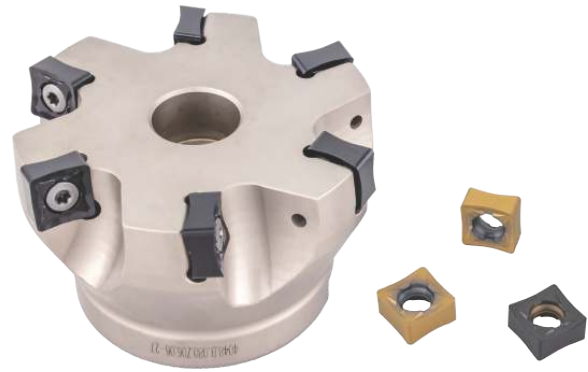
Lead Angle: 88°

Maximum cutting depth: 11 mm、14.5 mm

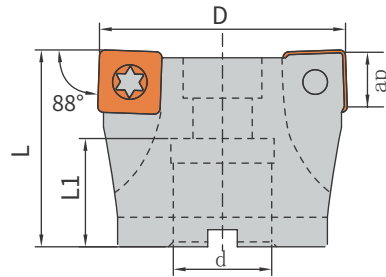
Enlarged and thickened insert, strengthened the cutting edge, to ensure the strength of the product.

Double-sided 8 corners indexable insert, suitable for different lead angle cutting tools.

Positive corner chip breaker with stable indexable insert, to ensure the highest producing efficiency.



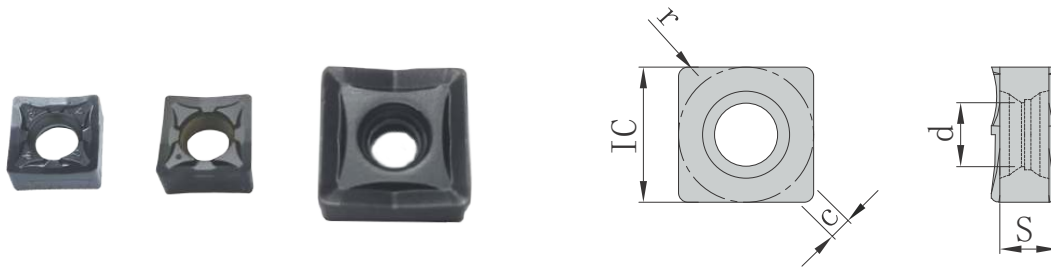
### Milling cutter specification



Part number	Size						Inserts	Screw	Wrench	Inventory				
	D	d	L	L1	T	$ap$ (max)								
4048.B.050.Z04.06-22	50	22	40	21	4	11	SNMX1205	TS4015	T15	●				
4048.B.063.Z05.06-22	63	22	40	21	5					○				
4048.B.063.Z05.06-25.4	63	25.4	40	21	5					○				
4048.B.080.Z06.06-25.4	80	25.4	50	25	6					○				
4048.B.080.Z06.06-27	80	27	50	25	6					●				
4048.B.100.Z07.06-31.75	100	31.75	50	25	7					●				
4048.B.100.Z11.06-31.75	100	31.75	50	25	11					●				
4048.B.125.Z08.06-38.1	125	38.1	63	38	8					○				
4048.B.125.Z08.06-40	125	40	63	38	8					●				
4048.A.063.Z04.08-22 *	63	22	40	20	4					14.5	SNGX1606	S5012- A55-1	T20	○
4048.A.063.Z05.08-22 *	63	22	40	20	5									○
4048.A.080.Z05.08-27 *	80	27	50	22	5									○
4048.A.080.Z06.08-27 *	80	27	50	22	6									○
4048.B.100.Z06.08-32 *	100	32	50	25	6									○
4048.B.100.Z08.08-32 *	100	32	50	25	8	○								
4048.B.125.Z08.06-40 *	125	40	63	28	8	○								
4048.C.200.Z12.08-60 *	200	60	63	32	12	○								
4048.C.250.Z14.08-60 *	250	60	63	32	14	○								

Note: ● have stock ○ for reservation "\*" represents customized product.

## Insert specification



Part number	Material					Size			
	CVD			PVD		IC	s	r	d
	HCP125B	HCP330B	HCK115B	HPA025B	HPA225B				
SNMX120512-M	○	○	○	●	○	12.7	6.2	1.2	6
SNEU1206ZNN-M	●	○	●	●	●	12.7	6.2	0.8	6
SNGX160612EN-M			●	●		16	7.7	1.2	6

Note: ● have stock ○ for reservation SNEU1206ZNN-M is a polishing insert

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Carbon steel, Alloy steel (S45C, SCM440 and so on)	HB180-350	HCP330B	200(150-250)	0.20(0.15-0.25)
			HPA025B	120(80-160)	0.20(0.15-0.25)
M	Austenitic stainless steel (SUS304, SUS316 and so on)	≤HB200	HPA225B	120(70-160)	0.18(0.13-0.22)
	Austenitic stainless steel (SUS304LN, SUS316LN and so on)	>HB200	HPA225B	100(60-140)	0.18(0.13-0.22)
K	Grey cast iron (FC300 and so on)	≤350MPa	HCK115B	220(200-270)	0.20(0.15-0.25)
			HPA225B	180(130-250)	0.20(0.15-0.25)
	Nodular cast iron (FCD700 and so on)	≤800MPa	HCK115B	200(150-250)	0.20(0.15-0.25)
			HPA225B	180(130-250)	0.20(0.15-0.25)
H	High hardness steel (SKD61, SKT4 and so on)	HRC40-50	HPA025B	50(30-70)	0.08(0.05-0.12)

A

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E

# CMF

## Face milling series

### Product feature

Lead Angle: 90°

Maximum cutting depth: 8 mm

Tool interface: the metric interface

Diameter:  $\Phi 50$ - $\Phi 315$ mm

Cutting fast by special cutting edge design of large rake angle.

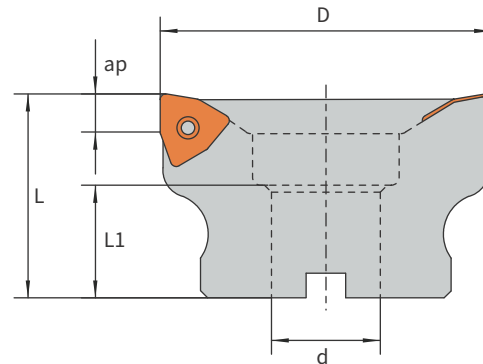
G grade precision, left and right universal insert.

The contact surface of the insert positioning is large, and the increase of thickness improves the collapse strength.

High economy double-sided 6 corners insert.



### Milling cutter specification

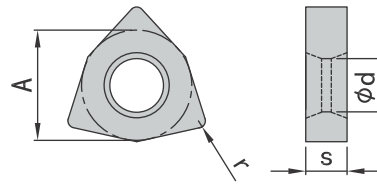
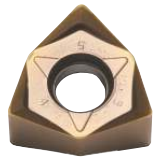


Part number	Size						Inserts	Screw	Wrench	Inventory
	D	d	L	L1	T	$a_p$ (max)				
CMFWN90063R-4T	63	22	40	21	4				●	
CMFWN90063R-5T	63	22	40	21	5				●	
CMFWN90080R-5T	80	27	50	26.5	5				●	
CMFWN90080R-7T	80	27	50	26.5	7				●	
CMFWN90100R-7T	100	32	50	30	7	8	WNGU080608N-GM	S5012-A55-1	T20	●
CMFWN90125R-8T	125	40	63	33	8				●	
CMFWN90160R-10T	160	40	63	32	10				●	
CMFWN90200R-12T	200	60	63	40	12				●	
CMFWN90250R-14T	250	60	63	40	14				○	

Note: ● have stock ○ for reservation



## Insert specification



Part number	Material				Size			
	PVD			CVD	A	s	r	d
	HPA025B	HPA220B	HPA225B	HCK125B				
WNGU080608N-GM	●	●	●	●	14.03	8.28	0.8	6.17

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Carbon steel (SS400, S10C and so on)	HB200-300	HPA025B	180(120-250)	0.2(0.1-0.3)
	Alloy steel (SCM and so on)	HB150-300	HPA025B	180(100-220)	0.2(0.1-0.3)
	Die steel (SKDQNAK and so on)	≤HB300	HPA025B	140(80-180)	0.15(0.1-0.25)
M	Stainless steel (SUS304, SUS316 and so on)	-	HPA225B	150(100-200)	0.15(0.1-0.25)
			HPA220B	150(100-200)	0.15(0.1-0.25)
K	Grey cast iron (FC300 and so on)	Tensile strength ≤ 350MPa	HCK125B	220(200-270)	0.2(0.15-0.25)
			HPA225B	180(120-250)	0.2(0.1-0.3)
	Nodular cast iron (FCD450 and so on)	Tensile strength ≤ 450MPa	HCK125B	220(150-250)	0.2(0.15-0.25)
			HPA225B	150(100-200)	0.15(0.1-0.25)

A

# AN90

B

Shoulder facing milling product

C

D

## Product feature

E

90° shoulder milling with double helix cutting edge, suitable for all sizes of face, shoulder, slot.

Thickened insert design, strong enough for high feed milling.

The dovetail chip breaker design, and combined with the finishing edge insert, could achieve the high precision milling surface.

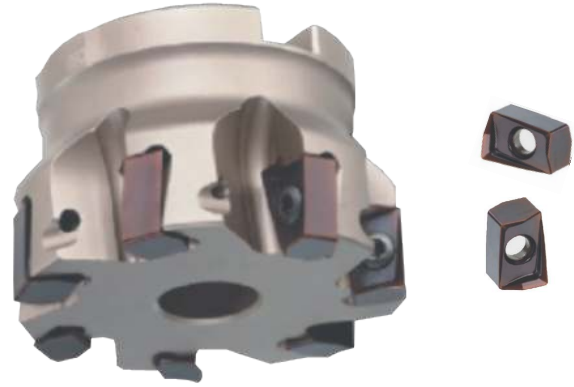
Locking by right angle screw, and the contact surface is larger and more stable, to ensure higher clamping rigidity and accuracy.

Dense tooth design, combined with the low cutting resistance design, high processing efficiency.

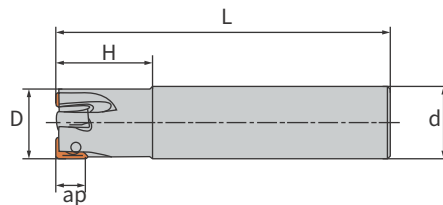
Double-sided 4 corners design, high precision, efficient and economical.

Milling shank diameter:  $\phi 16-40\text{mm}$

Milling cutter diameter:  $\phi 40-250\text{mm}$



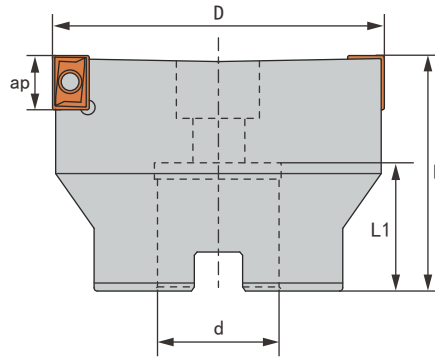
## Milling shank specification



Part number	Size						Inserts	Screw	Wrench	Inventory
	D	d	T	H	L	ap (max)				
ANE9016R02D16AN09L125	16	16	2	26	125					○
ANE9020R03D20AN09L125	20	20	3	26	125	7.5	ANKT090408S3007-SA	T8		○
ANE9025R04D25AN09L125	25	25	4	26	125					○
ANE9025R02D25AN12L125	25	25	2	26	125					○
ANE9032R03D32AN12L160	32	32	3	26	160	12.5	ANKT120508S4012-SA	T15		○
ANE9040R04D40AN12L200	40	40	4	26	200					○

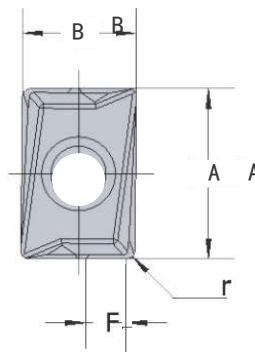
Note: ● have stock ○ for reservation

## Milling cutter specification



Part number	Size					ap (max)	Inserts	Screw	Wrench	Inventory
	D	d	L	L1	T					
ANF90-40R04AN12A16	40	16	40	15	4	12.5	ANKT120508	S4012-SA	T15	●
ANF90-50R05AN12A22	50	22	50	20	5					●
ANF90-63R06AN12A27	63	27	50	22	6					●
ANF90-80R07AN12A27	80	27	50	22	7					●
ANF90-100R09AN12B32	100	32	50	25	9					●
ANF90-200R10AN12C60	200	60	63	28	10					●
ANF90-40R03AN17A16	40	16	40	15	3	15.5	ANKT170608	S6016-SA	T20	○
ANF90-50R04AN17A22	50	22	50	20	4					○
ANF90-63R06AN17A27	63	27	50	22	6					○
ANF90-80R07AN17A27	80	27	50	22	7					○
ANF90-100R08AN17B32	100	32	50	25	8					○
ANF90-125R10AN17B40	125	40	63	28	10					○
ANF90-160R12AN17B40	160	40	63	28	12					○
ANF90-200R10AN17C60	200	60	63	32	10					○
ANF90-250R12AN17C60	250	60	63	32	12					○

## Insert specification



Part number	Material	Size				
	PVD	A	B	F	r	s
	HPA025B					
ANKT090408-M	●	8.6	6.6	2.5	0.8	5.2
ANKT120508-M	●	13.7	10	3.8	0.8	9.15
ANKT170608-M	●	16.7	11.2	4.7	0.8	10.4

Note: ● have stock ○ for reservation

## Recommended cutting conditions

	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	Low-carbon steel (S15C, C15C and so on)	≤HB180	HPA025B	160 (120-180)	0.1 (0.05-0.15)
	High-carbon steel (S45C, C45, S55C and so on)	HB200-300	HPA025B	120 (100-160)	0.08 (0.05-0.1)
	Alloy steel (SCM440, 42CrMo4 and so on)	HB150-300	HPA025B	100 (80-120)	0.08 (0.05-0.1)
	Die steel (SKD11 and so on)	≤HB300	HPA025B	90 (80-110)	0.08 (0.05-0.1)
	Stainless steel (SUS304, X5CrMoV12 and so on)	-	HPA025B	100 (80-120)	0.15 (0.1-0.25)
	Grey cast iron (FC250 and so on)	Tensile strength ≤ 350MPa	HPA025B	180 (150-200)	0.15 (0.1-0.2)
	Nodular cast iron (FCD450 and so on)	Tensile strength ≤ 450MPa	HPA025B	160 (120-180)	0.15 (0.1-0.2)
	Nodular cast iron (FCD500 and so on)	Tensile strength ≤ 500-800MPa	HPA025B	140 (130-150)	0.1 (0.05-0.15)

# LNF

## Facing milling series products

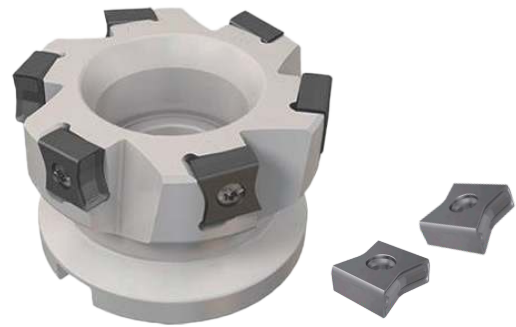
### Product feature

Various inserts are available for processing different materials and working conditions.  
 Standing inserts constructure could achieve large cutting depth, high metal removal rate.  
 Widely used in automobile, machine tool, ship and other industries.

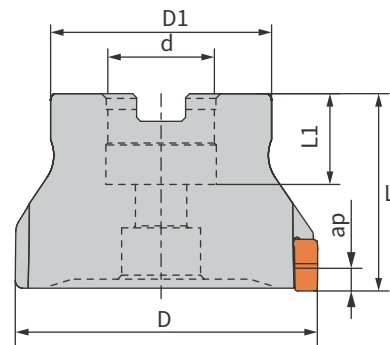
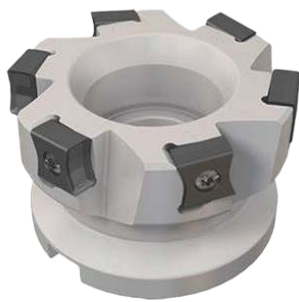
Main Angle :90°

Maximum cutting depth:5mm(LN11);7mm(LN15)

Diameter range:Φ40-Φ250mm



### Milling cutter specification



Part number	Size						Inserts	Screw	Wrench	Inventory
	D	D1	d	L	T	ap (max)				
LNFA90-040R04LN11-A16	40	38.4	16	40	4	5	LN11	TS3508	T10	○
LNFA90-040R06LN11-A16	40	38.4	16	40	6					○
LNFA90-050R05LN11-A22	50	47	22	40	5					○
LNFA90-050R07LN11-A22	50	47	22	40	7					○
LNFA90-063R06LN11-A22	63	59.2	22	40	6					○
LNFA90-063R09LN11-A22	63	59.2	22	40	9					○
LNFA90-080R08LN11-B27	80	70	27	50	8					○
LNFA90-080R11LN11-B27	80	70	27	50	11					○
LNFA90-100R09LN11-B32	100	77	32	50	9					○
LNFA90-100R14LN11-B32	100	77	32	50	14					○
LNFA90-125R10LN11-B40	125	95	40	63	10					○
LNFA90-125R18LN11-B40	125	95	40	63	18					○
LNFA90-160R12LN11-C40	160	120	40	63	12					○
LNFA90-200R15LN11-C60	200	135	60	63	15					○
LNFA90-250R20LN11-C60	250	150	60	63	20					○

Note: ● have stock ○ for reservation

A

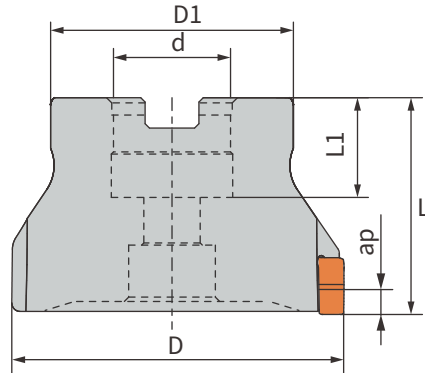
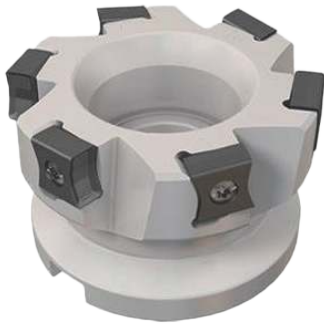
## Milling cutter specification

B

C

D

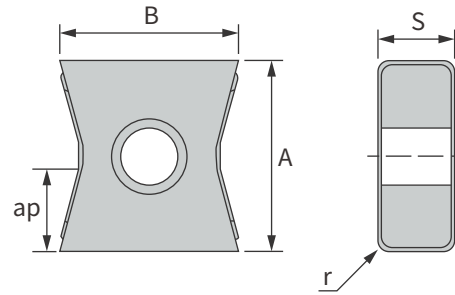
E



Part number	Size						Inserts	Screw	Wrench	Inventory
	D	D1	d	L	T	$a_p$ (max)				
LNFA90-050R05LN15-A22	50	47	22	40	5	7	LN15	TS4010	T15	○
LNFA90-063R05LN15-A22	63	59.2	22	40	5					○
LNFA90-063R08LN15-A22	63	59.2	22	40	8					○
LNFA90-080R07LN15-B27	80	70	27	50	7					○
LNFA90-080R10LN15-B27	80	70	27	50	10					○
LNFA90-100R08LN15-B32	100	78	32	50	8					○
LNFA90-100R12LN15-B32	100	78	32	50	12					○
LNFA90-125R09LN15-B40	125	95	40	63	9					○
LNFA90-125R15LN15-B40	125	95	40	63	15					○
LNFA90-160R10LN15-C40	160	120	40	63	10					○
LNFA90-160R20LN15-C40	160	120	40	63	20					○
LNFA90-200R12LN15-C60	200	135	60	63	12					○
LNFA90-200R20LN15-C60	200	135	60	63	20					○
LNFA90-250R15LN15-C60	250	150	60	63	15					○
LNFA90-250R30LN15-C60	250	150	60	63	30					○

Note: ● have stock ○ for reservation

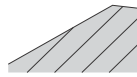
## Insert specification



Part number	Material	Size				
	PVD	A	B	S	r	ap
	HPA325B					
LNMT1106PNTR-M	●	11.16	11	6	0.8	5
LNKX1506PN-M	●	15	13.88	6	0.8	7

Note: ● have stock ○ for reservation

## Cutting edge description



PNTR-M/PN-M

## Recommended cutting conditions

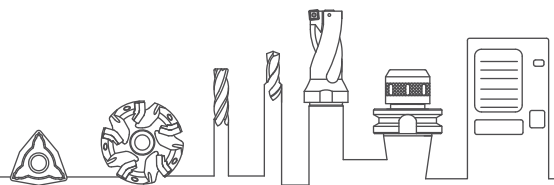
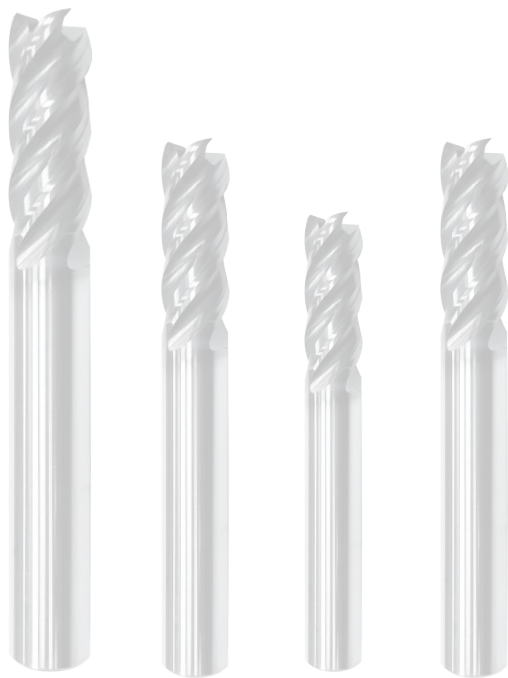
	Workpiece material	Hardness	Insert material	Cutting speed (m/min)	Feed per blade (mm/t)
P	low carbon steel	≤HB180	HPA325B	220(180-230)	0.25 (0.1-0.4)
	Carbon steel	HB180-280	HPA325B	180(160-210)	0.25 (0.1-0.4)
	Alloy steel	HB280-350	HPA325B	150(120-180)	0.25 (0.1-0.4)
M	Stainless steel	≤HB275	HPA325B	120(100-150)	0.15 (0.1-0.3)
K	Grey cast iron	≤HB350	HPA325B	130(90-170)	0.25 (0.1-0.4)
	Nodular cast iron	≤HB350	HPA325B	180(140-250)	0.25 (0.1-0.4)
S	high temperature alloy, titanium alloy	HRC25-35	HPA325B	40(30-60)	0.2 (0.1-0.3)

# MILLING CUTTER SERIES

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## Carbide end mill

End mill for Titanium Alloy	.....B032
Corner radius end mill for Titanium Alloy	.....B033
End mill for stainless steel (3 flutes)	.....B034
End mill for stainless steel (4 flutes)	.....B035
Fast feed milling tools	.....B036



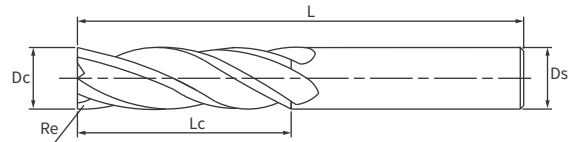


# End mill for Titanium Alloy

## Product feature

Suitable for slot and face milling of aerospace titanium alloy, heat-resistant alloy and other difficult materials.

Large helical Angle structure design, sharp cutting edge, low cutting resistance, cutting chip removal smoothly.



Part number	Re	Dc	Ds	Lc	L
CTIE4-04D0030L050	0.06	3	4	12	50
CTIE4-06D0040L050	0.08	4	6	12	50
CTIE4-06D0050L050	0.10	5	6	15	50
CTIE4-06D0060L050	0.12	6	6	18	50
CTIE4-08D0080L060	0.16	8	8	23	60
CTIE4-10D0100L075	0.20	10	10	26	75
CTIE4-12D0120L075	0.24	12	12	32	75
CTIE4-16D0160L100	0.32	16	16	42	100
CTIE4-20D0200L100	0.40	20	20	52	100

Note: This product is pre-order, the MOQ is 5 pcs.



A

B

C

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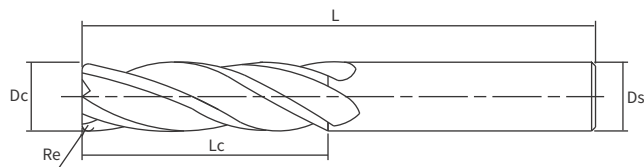
- A
- B
- C
- D
- E

# Corner radius end mill for Titanium Alloy

## Product feature

Suitable for slot and face milling of aerospace titanium alloy, heat-resistant alloy and other difficult materials.

Large helical Angle structure design, sharp cutting edge, low cutting resistance, cutting chip removal smoothly.

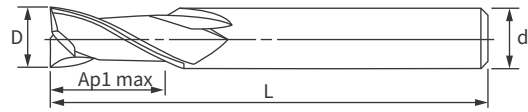


Part number	Re	Dc	Ds	Lc	L
CTIR4-04D0020R05	0.5	2	4	4	45
CTIR4-04D0030R05	0.5	3	4	5.5	45
CTIR4-06D0040R05	0.5	4	6	7	50
CTIR4-06D0040R10	1.0	4	6	7	50
CTIR4-06D0060R05	0.5	6	6	10	50
CTIR4-06D0060R10	1.0	6	6	10	50
CTIR4-08D0080R05	0.5	8	8	13	55
CTIR4-08D0080R10	1.0	8	8	13	55
CTIR4-10D0100R04	0.4	10	10	16	65
CTIR4-10D0100R10	1.0	10	10	16	65
CTIR4-10D0100R20	2.0	10	10	16	65
CTIR4-12D0120R06	0.6	12	12	19	78
CTIR4-12D0120R10	1.0	12	12	19	78
CTIR4-12D0120R20	2.0	12	12	19	78
CTIR4-12D0120R30	3.0	12	12	19	78

Note: This product is pre-order, the MOQ is 5 pcs.



# End mill for stainless steel (3 flutes)



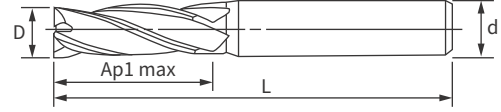
Part number	D	d	Ap1 max	L	Inventory
					50 series
CSUSE3-04D0010	1	4	3	50	○
CSUSE3-04D0015	1.5	4	4	50	○
CSUSE3-04D0020	2	4	6	50	○
CSUSE3-04D0025	2.5	4	7	50	○
CSUSE3-04D0030	3	4	8	50	○
CSUSE3-04D0035	3.5	4	10	50	○
CSUSE3-04D0040	4	4	11	50	○
CSUSE3-06D0045	4.5	6	13	50	○
CSUSE3-06D0050	5	6	13	50	○
CSUSE3-06D0055	5.5	6	13	50	○
CSUSE3-06D0060	6	6	15	50	○
CSUSE3-08D0065	6.5	8	17	60	○
CSUSE3-08D0070	7	8	17	60	○
CSUSE3-08D0075	7.5	8	17	60	○
CSUSE3-08D0080	8	8	20	60	○
CSUSE3-10D0085	8.5	10	23	75	○
CSUSE3-10D0090	9	10	23	75	○
CSUSE3-10D0095	9.5	10	25	75	○
CSUSE3-10D0100	10	10	25	75	○
CSUSE3-12D0105	10.5	12	25	75	○
CSUSE3-12D0110	11	12	28	75	○
CSUSE3-12D0115	11.5	12	28	75	○
CSUSE3-12D0120	12	12	30	75	○
CSUSE3-16D0130	13	16	33	100	○
CSUSE3-16D0140	14	16	35	100	○
CSUSE3-16D0150	15	16	38	100	○
CSUSE3-16D0160	16	16	40	100	○
CSUSE3-20D0170	17	20	40	100	○
CSUSE3-20D0180	18	20	40	100	○
CSUSE3-20D0190	19	20	40	100	○
CSUSE3-20D0200	20	20	40	100	○

## Tolerance

D size range	D tolerance	d tolerance
Φ1.0-Φ2.9	0/-0.02	h6
Φ3.0-Φ6.4	-0.01/-0.03	
Φ6.5-Φ10.9	-0.01/-0.035	
Φ11.0-Φ16.5	-0.01/-0.04	
Φ17.0-Φ20.0	-0.015/-0.045	

Note: ● have stock ○ for reservation, minimum order is 5 pieces

# End mill for stainless steel (4 flutes)



Part number	D	d	Ap1 max	L	Inventory
					50 series
CSUSE4-04D0010	1	4	3	50	●
CSUSE4-04D0015	1.5	4	4	50	●
CSUSE4-04D0020	2	4	6	50	●
CSUSE4-04D0025	2.5	4	7	50	●
CSUSE4-04D0030	3	4	8	50	●
CSUSE4-04D0035	3.5	4	10	50	○
CSUSE4-04D0040	4	4	11	50	●
CSUSE4-06D0045	4.5	6	13	50	○
CSUSE4-06D0050	5	6	13	50	●
CSUSE4-06D0055	5.5	6	13	50	○
CSUSE4-06D0060	6	6	15	50	●
CSUSE4-08D0065	6.5	8	17	60	○
CSUSE4-08D0070	7	8	17	60	○
CSUSE4-08D0075	7.5	8	17	60	○
CSUSE4-08D0080	8	8	20	60	●
CSUSE4-10D0085	8.5	10	23	75	○
CSUSE4-10D0090	9	10	23	75	○
CSUSE4-10D0095	9.5	10	25	75	○
CSUSE4-10D0100	10	10	25	75	●
CSUSE4-12D0105	10.5	12	25	75	○
CSUSE4-12D0110	11	12	28	75	○
CSUSE4-12D0115	11.5	12	28	75	○
CSUSE4-12D0120	12	12	30	75	●
CSUSE4-16D0130	13	16	33	100	○
CSUSE4-16D0140	14	16	35	100	○
CSUSE4-16D0150	15	16	38	100	○
CSUSE4-16D0160	16	16	40	100	●
CSUSE4-20D0170	17	20	40	100	○
CSUSE4-20D0180	18	20	40	100	○
CSUSE4-20D0190	19	20	40	100	○
CSUSE4-20D0200	20	20	40	100	●

## Tolerance

D size range	D tolerance	d tolerance
Φ1.0-Φ2.9	0/-0.02	h6
Φ3.0-Φ6.4	-0.01/-0.03	
Φ6.5-Φ10.9	-0.01/-0.035	
Φ11.0-Φ16.5	-0.01/-0.04	
Φ17.0-Φ20.0	-0.015/-0.045	

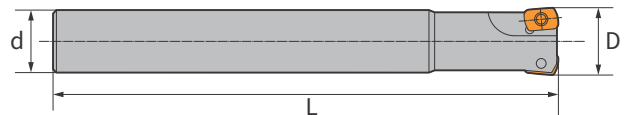
Note: ● have stock ○ for reservation, minimum order is 5 pieces

# ASR Milling tool series

## Product feature

- Multi-edge design, maximum cutting depth 1.5mm
- Strong broke resistance, high speed feed rate can be achieved.
- It is suitable for rough machining of workpiece surface and cavity, spiral interpolation milling of hole and inclined Angle surface milling
- Threaded connection, easy for loading and unloading
- Holder diameter  $\Phi 16-\Phi 40$
- Cutter diameter  $\Phi 50-\Phi 63$
- Tip diameter  $\Phi 16-\Phi 26$

## Milling Holder specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
ASR06-C16-16-120-2T	2	16	16	120	EPNW0603N8	M2.5×6	T8
ASR06-C16-16-150-2T	2	16	16	150			
ASR06-C16-16-200-2T	2	16	16	200			
ASR06-C16-17-120-2T	2	17	16	120			
ASR06-C16-17-150-2T	2	17	16	150			
ASR06-C16-17-200-2T	2	17	16	200			
ASR06-C19-20-150-2T	2	20	19	150			
ASR06-C19-20-200-2T	2	20	19	200			
ASR06-C20-20-150-3T	3	20	20	150			
ASR06-C20-20-200-3T	3	20	20	200			
ASR06-C20-21-150-3T	3	21	20	150			
ASR06-C20-21-200-3T	3	21	20	200			
ASR06-C24-25-150-3T	3	25	24	150			
ASR06-C24-25-200-3T	3	25	24	200			
ASR06-C24-25-250-3T	3	25	24	250			
ASR06-C25-25-150-3T	3	25	25	150			
ASR06-C25-25-200-3T	3	25	25	200			
ASR06-C25-25-250-3T	3	25	25	250			
ASR06-C25-26-150-3T	3	26	25	150			
ASR06-C25-26-200-3T	3	26	25	200			
ASR06-C25-26-250-3T	3	26	25				

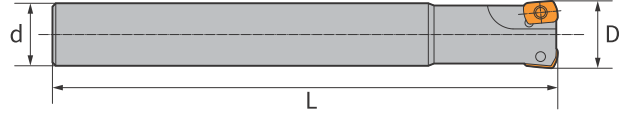
A

# ASR Milling tool series

B

## Milling Holder specifications

C

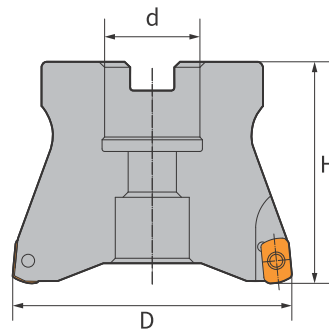


D

E

Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
ASR06-C25-30-150-4T	4	30	25	150	EPNW0603N8	M2.5×6	T8
ASR06-C25-30-200-4T	4	30	25	200			
ASR06-C25-30-250-4T	4	30	25	250			
ASR06-C32-32-150-4T	4	32	32	150			
ASR06-C32-32-200-4T	4	32	32	200			
ASR06-C32-32-250-4T	4	32	32	250			
ASR06-C32-33-150-4T	4	33	32	150			
ASR06-C32-33-200-4T	4	33	32	200			
ASR06-C32-33-250-4T	4	33	32	250			
ASR06-C32-35-150-4T	4	35	32	150			
ASR06-C32-35-200-4T	4	35	32	200			
ASR06-C32-35-250-4T	4	35	32	250			
ASR06-C32-40-150-4T	4	40	32	150			
ASR06-C32-40-200-4T	4	40	32	200			
ASR06-C32-40-250-4T	4	40	32	250			

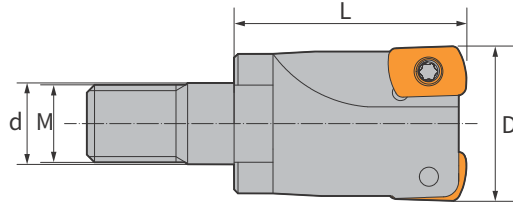
## Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
ASR06-50-22-6T	6	50	22	50	EPNW0603N8	M2.5×6	T8
ASR06-63-22-6T	6	63	22				

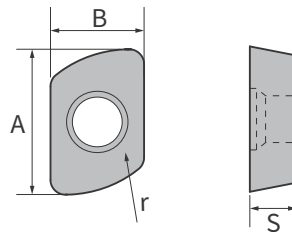
# ASR Milling tool series

## Milling tip specifications



Part number	Edge	Size				Insert	laminate	Insert screws	wrench
		D	d	L	M				
ASR06-16R2-M8	2	16	8.5	25	M8	EPNW0603N8	-	M2.5×6	T8
ASR06-17R2-M8	2	17	8.5	25	M8				
ASR06-20R2-M10	2	20	10.5	30	M10				
ASR06-21R2-M10	2	21	10.5	30	M10				
ASR06-25R3-M12	3	25	12.5	35	M12				
ASR06-26R3-M12	3	26	12.5	35	M12				

## Inserts specifications



Applicable materials	<b>P</b> <b>K</b> <b>M</b>	尺寸				
Part number	material(PVD)					
	HA3000	A	B	S	r	d1
EPNW0603N8	●	10.0	6.35	3.18	8.0	-

Note: ● have stock ○ for reservation

A

# BLMT Milling tool series

B

## Product feature

C

· Double-sided with 4 cutting edges

· Holder diameter  $\Phi 16$ - $\Phi 40$

D

· Edge with large radius, suitable for grooving, surface milling, slope milling, insert milling, forming and other processings.

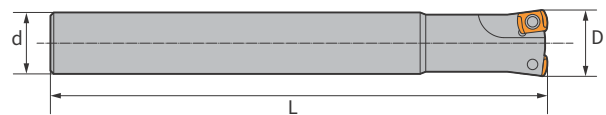
· Cutter diameter  $\Phi 40$ - $\Phi 100$

E

· High feed rate and low cutting resistance to ensure maximum productivity

· Max. cutting depth 1mm

## Milling Holder specifications

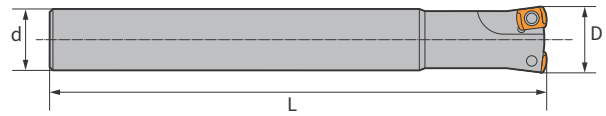


Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
BLMP0603R16D15d120L2T	2	16	15	120	BLMP0603R-M	M2.5×6	T8
BLMP0603R16D15d150L2T	2	16	15	150			
BLMP0603R16D15d200L2T	2	16	15	200			
BLMP0603R16D16d120L2T	2	16	16	120			
BLMP0603R16D16d150L2T	2	16	16	150			
BLMP0603R16D16d200L2T	2	16	16	200			
BLMP0603R17D16d120L2T	2	17	16	120			
BLMP0603R17D16d150L2T	2	17	16	150			
BLMP0603R17D16d200L2T	2	17	16	200			
BLMP0603R20D19d120L3T	3	20	19	120			
BLMP0603R20D19d150L3T	3	20	19	150			
BLMP0603R20D19d200L3T	3	20	19	200			
BLMP0603R20D19d250L3T	3	20	19	250			
BLMP0603R20D20d120L3T	3	20	20	120			
BLMP0603R20D20d150L3T	3	20	20	150			
BLMP0603R20D20d200L3T	3	20	20	200			
BLMP0603R20D20d250L3T	3	20	20	250			
BLMP0603R21D20d120L3T	3	21	20	120			
BLMP0603R21D20d150L3T	3	21	20	150			



# BLMT Milling tool series

## Milling Holder specifications

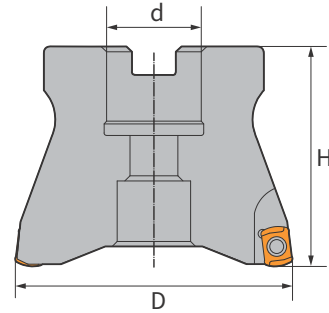


Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
BLMP0603R21D20d200L3T	3	21	20	200	BLMP0603R-M	M2.5×6	T8
BLMP0603R21D20d250L3T	3	21	20	250			
BLMP0603R22D20d150L3T	3	22	20	150			
BLMP0603R22D20d200L3T	3	22	20	200			
BLMP0603R25D24d150L4T	4	25	24	150			
BLMP0603R25D24d200L4T	4	25	24	200			
BLMP0603R25D24d250L4T	4	25	24	250			
BLMP0603R25D25d150L4T	4	25	25	150			
BLMP0603R25D25d200L4T	4	25	25	200			
BLMP0603R25D25d250L4T	4	25	25	250			
BLMP0603R26D25d150L4T	4	26	25	150			
BLMP0603R26D25d200L4T	4	26	25	200			
BLMP0603R26D25d250L4T	4	26	25	250			
BLMP0603R28D25d170L4T	4	28	25	170			
BLMP0603R32D32d150L5T	5	32	32	150			
BLMP0603R32D32d200L5T	5	32	32	200			
BLMP0603R32D32d250L5T	5	32	32	250			
BLMP0603R33D32d150L5T	5	33	32	150			
BLMP0603R33D32d200L5T	5	33	32	200			
BLMP0603R33D32d250L5T	5	33	32	250			
BLMP0603R35D32d150L5T	5	35	32	150			
BLMP0603R35D32d200L5T	5	35	32	200			
BLMP0603R35D32d250L5T	5	35	32	250			
BLMP0603R40D32d150L6T	6	40	32	150			
BLMP0603R40D32d200L6T	6	40	32	200			
BLMP0603R40D32d250L6T	6	40	32	250			



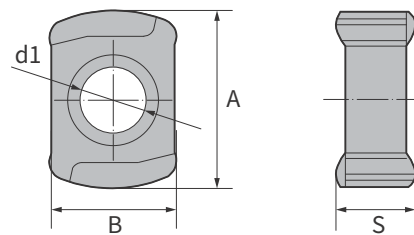
# BLMT Milling tool series

## Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
BLMP0603R40D16d5T	5	40	16	40	BLMP0603R-M	M2.5×6	T8
BLMP0603R40D22d5T	5	40	22	40			
BLMP0603R50D22d7T	7	50	22	50			
BLMP0603R63D22d8T	8	63	22	50			
BLMP0603R80D27d10T	10	80	27	50			
BLMP0603R100D32d12T	12	100	32	60			

## Inserts specifications



Applicable materials	<b>P</b> <b>K</b>	Size				
Part number	material(PVD)	A	B	S	r	d1
	HA1520					
BLMP0603R-M	●	9	6.39	3.73	-	2.85

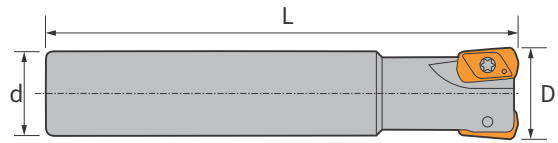
Note: ● have stock ○ for reservation

# EXN Milling tool series

## Product feature

- High feed rate and light load
- Maximum cutting depth
- Holder diameter  $\Phi 15-\Phi 40$
- Double-sided edge with 4 cutting tips
- Cutting edge design with low cutting resistance
- Cutter diameter  $\Phi 40-\Phi 100$
- Milling holder and cutter are available
- Stable and efficient cutting can be achieved
- Lock head diameter  $\Phi 16-\Phi 35$

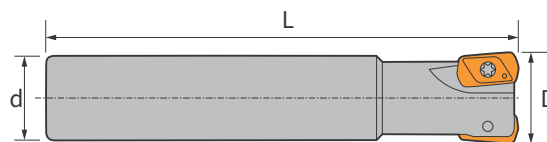
## Milling Holder specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
EXN03R15D14d150L2T	2	15	14	150	LNEG1103**	M2.5×6	T8
EXN03R16D15d120L2T	2	16	15	120			
EXN03R16D15d150L2T	2	16	15	150			
EXN03R16D15d200L2T	2	16	15	200			
EXN03R16D16d120L2T	2	16	16	120			
EXN03R16D16d150L2T	2	16	16	150			
EXN03R16D16d200L2T	2	16	16	200			
EXN03R17D16d120L2T	2	17	16	120			
EXN03R17D16d150L2T	2	17	16	150			
EXN03R17D16d200L2T	2	17	16	200			
EXN03R20D19d120L3T	3	20	19	120			
EXN03R20D19d150L3T	3	20	19	150			
EXN03R20D19d200L3T	3	20	19	200			
EXN03R20D19d250L3T	3	20	19	250			
EXN03R20D20d120L3T	3	20	20	120			
EXN03R20D20d150L3T	3	20	20	150			
EXN03R20D20d200L3T	3	20	20	200			
EXN03R20D20d250L3T	3	20	20	250			
EXN03R21D20d120L3T	3	21	20	120			
EXN03R21D20d150L3T	3	21	20	150			
EXN03R21D20d200L3T	3	21	20	200			
EXN03R21D20d250L3T	3	21	20	250			

# EXN Milling tool series

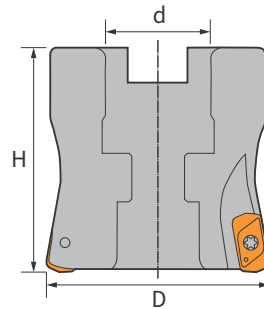
## Milling Holder specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
EXN03R22D20d150L3T	3	22	20	150	LNEG1103**	M2.5×6	T8
EXN03R22D20d200L3T	3	22	20	200			
EXN03R25D24d150L4T	4	25	24	150			
EXN03R25D24d200L4T	4	25	24	200			
EXN03R25D24d250L4T	4	25	24	250			
EXN03R25D25d150L4T	4	25	25	150			
EXN03R25D25d200L4T	4	25	25	200			
EXN03R25D25d250L4T	4	25	25	250			
EXN03R26D25d150L4T	4	26	25	150			
EXN03R26D25d200L4T	4	26	25	200			
EXN03R26D25d250L4T	4	26	25	250			
EXN03R28D25d170L4T	4	28	25	170			
EXN03R32D32d150L5T	5	32	32	150			
EXN03R32D32d200L5T	5	32	32	200			
EXN03R32D32d250L5T	5	32	32	250			
EXN03R33D32d150L5T	5	33	32	150			
EXN03R33D32d200L5T	5	33	32	200			
EXN03R33D32d250L5T	5	33	32	250			
EXN03R35D32d150L5T	5	35	32	150			
EXN03R35D32d200L5T	5	35	32	200			
EXN03R35D32d250L5T	5	35	32	250			
EXN03R40D32d150L6T	6	40	32	150			
EXN03R40D32d200L6T	6	40	32	200			
EXN03R40D32d250L6T	6	40	32	250			

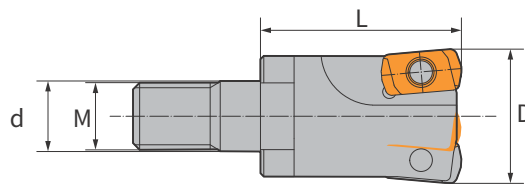
# EXN Milling tool series

## Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
EXN03R40D16d6T	6	40	16	40	LNEG1103**	M2.5×6	T8
EXN03R40D22d6T	6	40	22	40			
EXN03R50D22d8T	8	50	22	50			
EXN03R63D22d8T	8	63	22	50			
EXN03R80D27d10T	10	80	27	50			
EXN03R100D32d12T	12	100	32	50			

## Inserts specifications

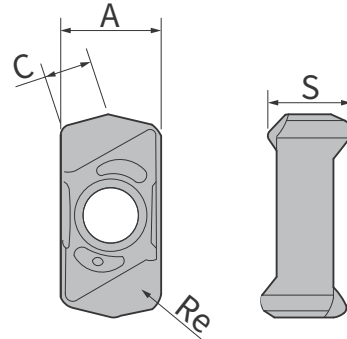


Part number	Edge	Size				Insert	laminate	Insert screws	wrench
		D	d	L	M				
EXN03R-16R2-M8	2	16	8.5	25	M8	LNEG1103**	-	M2.5×6	T8
EXN03R-17R2-M8	2	17	8.5	25	M8				
EXN03R-20R3-M10	3	20	10.5	30	M10				
EXN03R-21R3-M10	3	21	10.5	30	M10				
EXN03R-25R4-M12	4	25	12.5	35	M12				
EXN03R-26R4-M12	4	26	12.5	35	M12				
EXN03R-32R5-M16	5	32	17	40	M16				

- A
- B
- C
- D
- E

# EXN Milling tool series

## Inserts specifications



Applicable materials	M	K	P	M	S					
Part number	material(PVD)				Size					
	HA1500B	HA1520	HA2520	HS2500	A	B	S	r	d1	
LNEG1103R-S	●	○	○	○	11.59	6	4.2	1.5	2.85	
LNEG1103R-M	○	○		●	11.59	6	4.2	1.5	2.85	

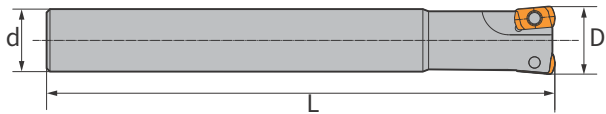
Note: ● have stock ○ for reservation

# MFH Milling tool series

## Product feature

- Double-sided with 4 tips, multi-edge, to achieve high feed processing.
- Sharp edge type, to achieve high feed machining.
- Good chip removal performance, control chip bite.
- Max. cutting depth 1mm
- Holder diameter  $\Phi 16\text{-}\Phi 40$
- Cutter diameter  $\Phi 40\text{-}\Phi 100$

## MFH03R Milling Holder specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
MFH03R16D15d120L2T	2	16	15	120	LOGU0303**	M3×6	T8
MFH03R16D15d150L2T	2	16	15	150			
MFH03R16D15d200L2T	2	16	15	200			
MFH03R16D16d120L2T	2	16	16	120			
MFH03R16D16d150L2T	2	16	16	150			
MFH03R16D16d200L2T	2	16	16	200			
MFH03R17D16d120L2T	2	17	16	120			
MFH03R17D16d150L2T	2	17	16	150			
MFH03R17D16d200L2T	2	17	16	200			
MFH03R20D19d120L3T	3	20	19	120			
MFH03R20D19d150L3T	3	20	19	150			
MFH03R20D19d200L3T	3	20	19	200			
MFH03R20D19d250L3T	3	20	19	250			
MFH03R20D20d120L3T	3	20	20	120			
MFH03R20D20d150L3T	3	20	20	150			
MFH03R20D20d200L3T	3	20	20	200			
MFH03R20D20d250L3T	3	20	20	250			
MFH03R21D20d120L3T	3	21	20	120			
MFH03R21D20d150L3T	3	21	20	150			
MFH03R21D20d200L3T	3	21	20	200			
MFH03R21D20d250L3T	3	21	20	250			
MFH03R22D20d150L3T	3	22	20	150			
MFH03R22D20d200L3T	3	22	20	200			

# MFH Milling tool series

## MFH03R Milling Holder specifications

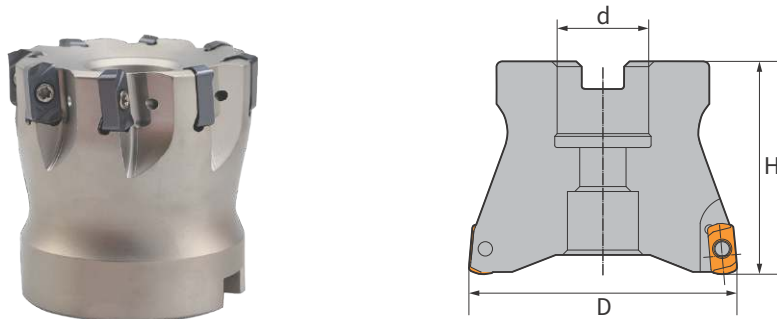


Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
MFH03R25D24d150L4T	4	25	24	150	LOGU0303**	M3×6	T8
MFH03R25D24d200L4T	4	25	24	200			
MFH03R25D24d250L4T	4	25	24	250			
MFH03R25D25d150L4T	4	25	25	150			
MFH03R25D25d200L4T	4	25	25	200			
MFH03R25D25d250L4T	4	25	25	250			
MFH03R26D25d150L4T	4	26	25	150			
MFH03R26D25d200L4T	4	26	25	200			
MFH03R26D25d250L4T	4	26	25	250			
MFH03R28D25d170L4T	4	28	25	170			
MFH03R32D32d150L5T	5	32	32	150			
MFH03R32D32d200L5T	5	32	32	200			
MFH03R32D32d250L5T	5	32	32	250			
MFH03R33D32d150L5T	5	33	32	150			
MFH03R33D32d200L5T	5	33	32	200			
MFH03R33D32d250L5T	5	33	32	250			
MFH03R35D32d150L5T	5	35	32	150			
MFH03R35D32d200L5T	5	35	32	200			
MFH03R35D32d250L5T	5	35	32	250			
MFH03R40D32d150L6T	6	40	32	150			
MFH03R40D32d200L6T	6	40	32	200			
MFH03R40D32d250L6T	6	40	32	250			



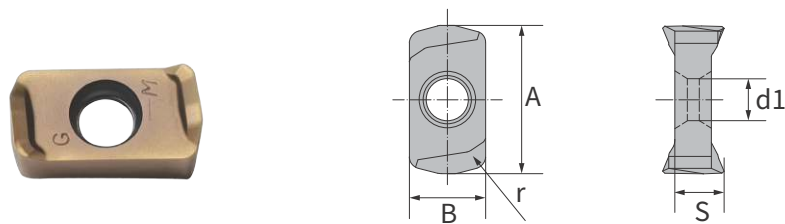
# MFH Milling tool series

## MFH03R Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
MFH03R40D16d6T	6	40	16	40	LOGU0303**	M3×6	T8
MFH03R40D22d6T	6	40	22	40			
MFH03R50D22d8T	8	50	22	50			
MFH03R63D22d8T	8	63	22	50			
MFH03R80D27d10T	10	80	27	50			
MFH03R100D32d12T	12	100	32	50			

## Inserts specifications



Applicable materials	<b>P</b>	<b>M</b>	<b>H</b>	Size				
Part number	material(PVD)			A	B	S	r	d1
	HA3000	HH1500						
LOGU030310ER-M	●	●		11.9	6.2	3.96	1	3.45

Note: ● have stock ○ for reservation

# MFH Milling tool series

A

B

## Product feature

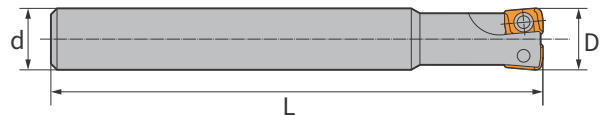
C

- Extremely small diameter, high feed tool holder
- The integral end mill can be replaced to reduce processing costs
- Low resistance, effectively reduce vibration, to achieve high efficiency machining
- Holder diameter  $\Phi 8 - \Phi 13$
- Good chip removal performance, control chip bite
- Max. cutting depth 0.5mm

D

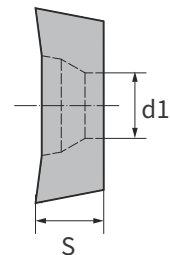
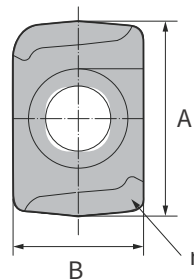
E

## MFH01R Milling Holder specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
MFH01R-08-S10-01-1T	1	8	10	75	LPGT0102**	M1.8×4	T6
MFH01R-09-S10-01-1T	1	9	10	75			
MFH01R-10-S10-01-2T	2	10	10	80			
MFH01R-11-S10-01-2T	2	11	10	80			
MFH01R-12-S12-01-3T	3	12	12	80			
MFH01R-13-S12-01-3T	3	13	12	80			

## Inserts specifications



Applicable materials	M		P		K		Size			
	material(PVD)					A	B	S	r	d1
Part number	HA1500B	HA1520								
LPGT010210ER-M	○	○				6.26	4.19	2.19	1.0	2.1

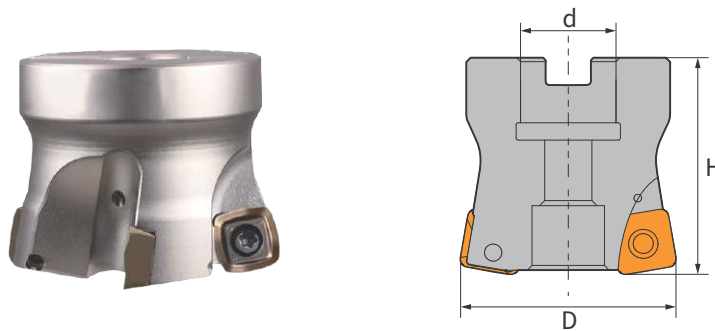
Note: ● have stock ○ for reservation

# MFH Milling tool series

## Product feature

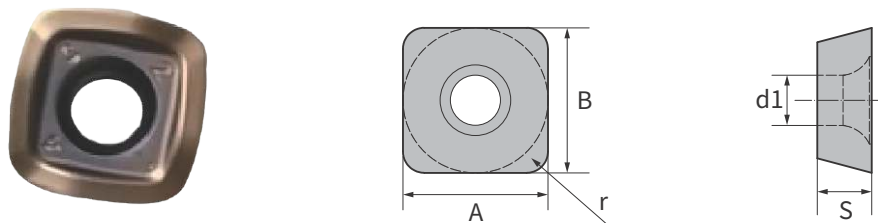
- High efficiency, high feed cutter
- To achieve stable high feed processing, corresponding to large cutting depth and low resistance processing
- For surface processing, bevel processing, spiral processing and other processing.
- Cutter diameter  $\Phi 50-\Phi 160$
- Max. cutting depth 2mm

## MFH14R Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
MFH14R-50D22d50L4T-C	4	50	22	50	SOMT140520ER-GM	M5×12	T20
MFH14R-63D22d50L4T-C	4	63	22	50			
MFH14R-80D27d50L6T-C	6	80	27	63			
MFH14R-100D32d50L6T-C	6	100	32	63			
MFH14R-125D40d50L8T-C	8	125	40	63			
MFH14R-160D40d50L8T-C	8	160	40	63			

## Inserts specifications



Applicable materials	<b>P</b>	<b>K</b>	<b>M</b>	Size				
Part number	material(PVD)			A	B	S	r	d1
	HA2520	HA3000						
SOMT140520ER-M	○	○		14.57	-	5.56	2	5.8

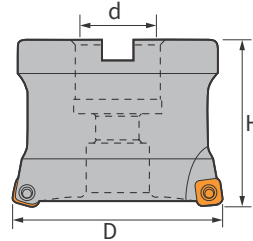
Note: ● have stock ○ for reservation

# ASRF Milling tool series

## Product feature

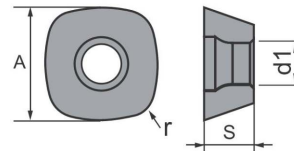
- Efficient and high feed processing · Unique edge radius design
- Economical four-corner edge
- Strengthened edge design, and the broke resistance is greatly improved
- Cutter diameter  $\Phi 50-\Phi 160$
- Max. cutting depth 2mm

## Milling cutter specifications



Part number	Edge	Size			Insert	Insert screws	wrench
		D	d	L			
ASRF12-50-22-4T	4	50	22	50	SDMT120512-M	M4×9	T15
ASRF12-50-25.4-4T	4	50	25.4	50			
ASRF12-63-22-4T	4	63	22	50			
ASRF12-63-25.4-4T	4	63	25.4	50			
ASRF12-63-22-5T	5	63	22	50			
ASRF12-80-27-5T	5	80	27	50			
ASRF12-100-32-6T	6	100	32	50			
ASRF12-125-32-8T	8	125	32	50			
ASRF12-160-32-8T	8	160	32	50			
ASRF15-63-22-4T	4	63	22	50	SDMT150512-M	M5×12	T20
ASRF15-63-25.4-4T	4	63	25.4	50			
ASRF15-80-27-5T	5	80	27	50			
ASRF15-100-32-6T	6	100	32	50			
ASRF15-125-32-8T	8	125	32	50			
ASRF15-160-32-8T	8	160	32	50			

## Inserts specifications



Applicable materials	P		K		M		S		Size					
	material(PVD)									A	B	S	r	d1
SDMT120512-M	●	●	●	●	●	●	●	●	●	12.7	-	5.56	1.2	4.4
SDMT150512-M	●	●	●	●	●	●	●	●	●	15.875	-	5.56	1.2	5.5

Note: ● have stock ○ for reservation



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