



VT MACHINE TOOLS CO., LTD.

บริษัท วิที แมชชีนทูลส์ จำกัด

 139/433 ชั้น 1 หมู่ 1 ต.รังสิต อ.ธัญบุรี จ. ปทุมธานี 12110

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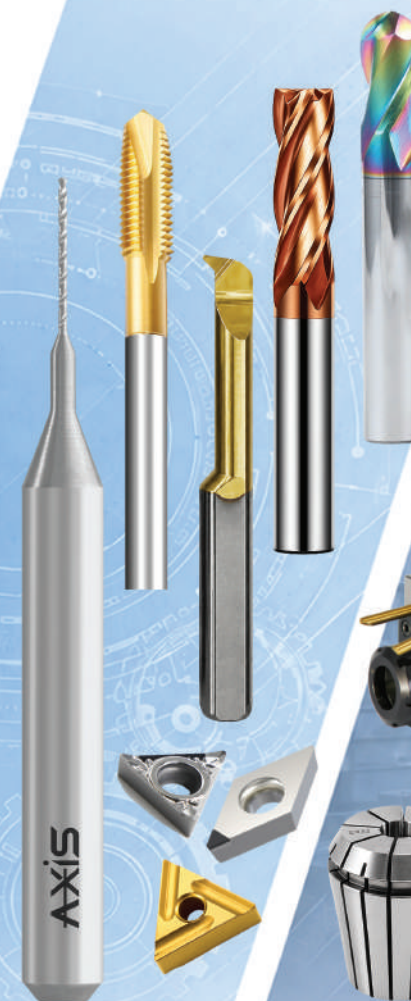


**VT TOOLS
MACHINE**

Total Solution

INDUSTRIAL SERVICE PROVIDER

CUTTING TOOLS



MACHINE & PARTS



MAINTENANCE
TOOLS & ACCESSORY



WHO WE ARE



บริษัท วีที แมชชีนทูลส์ จำกัด มีความเชี่ยวชาญในเครื่องมือตัดที่มีความแม่นยำสูง สำหรับเครื่องจักรที่มีความละเอียดระดับไมโคร รวมถึงเครื่องมือตัดพิเศษ ซึ่งสามารถรองรับให้กับกลุ่มอุตสาหกรรมการผลิต เช่น ยานยนต์, นาฬิกา, แม่พิมพ์, อิเล็กทรอนิกส์, เครื่องมือแพทย์, พลาสติก, เครื่องประดับ การบินและอวกาศ เป็นต้น

COMPANY PROFILE

Incorporation Date : 28 June 2016

Register Capital : 3,000,000 Baht

Registration Number : 0135559012482

OVERVIEW

เรามีความเชี่ยวชาญในเครื่องมือตัดที่มีความแม่นยำสูงที่มีคุณภาพที่ดียิ่งและมีประสิทธิภาพสูง เพื่อบรรลุถึงความพึงพอใจในระดับที่สูงสุด โดยได้รับการสนับสนุนจากผู้ผลิตแบรนด์ที่มีชื่อเสียงระดับโลกและได้รับการแต่งตั้งเป็นตัวแทนจำหน่ายอย่างเป็นทางการ

We specialize in high-precision cutting tools with excellent quality and high efficiency. To achieve the highest level of satisfaction, We are supported by world-renowned brand manufacturers and we have been appointed as their official distributor.



LOOK BEYOND OUR VISION & MISSION



VISION

เป็นบริษัทชั้นนำในธุรกิจการให้บริการทางด้านอุตสาหกรรม เรามุ่งมั่นสู่ความสำเร็จและการก้าวหน้าอย่างยั่งยืน

As a leading company in the Business Services industry. Committed to success and sustainable growth.



MISSION

เน้นการเลือกสินค้าที่มีคุณภาพเพื่อความพึงพอใจของลูกค้าเป็นสำคัญ

Focus on the selection of quality products to satisfaction of our customers is of most importance.

พัฒนาระบบบริหารจัดการเพื่อให้บริการที่รวดเร็วและมีประสิทธิภาพ

Develop a management system to provide fast and efficient service.

สร้างพันธมิตรที่ยั่งยืนกับลูกค้าและซัพพลายเออร์

Create a sustainable partnership with customers and suppliers.



PRODUCT CATEGORY

01 Cutting Tools



04 Drills



32 Taps



06 Endmills



40 Special & Material



18 Inserts



46 Grinding/Saw/Knives

02 Machine & Parts



50 Tool Holder



53 Spindle & Rotary Table



54 Coating Machine

03 Accessory & Tools



54 Accessory



55 Measurement Tools



58 Screwdriver

OUR PARTNERS



INDRILL

T301-SN T302-SN T303-SN

Dia Tolerance
Uncoated : h6
Coated : ±0.003

Steel Low/Unalloyed Non-Ferrous Plastics Steel High Alloyed SS Cast Iron

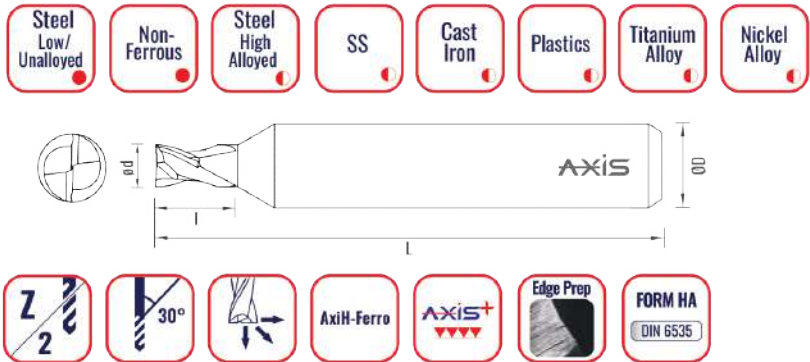
2 118° 130° 30° AxiP-Hyper FORM HA (DIN 5535)

Ød < 0.40mm Ød > 0.40mm

		T301-SN Stub Length		T302-SN Standard Length		T303-SN Long Length	
Ød	ØD h6	l	L	l	L	l	L
0.015 (+0.003)	3.00					0.15	38
0.020 (+0.003)	3.00					0.2	38
0.030 (+0.003)	3.00					0.3	38
0.040 (+0.003)	3.00					0.4	38
0.050 (+0.004)	3.00					0.5	38
0.060 (+0.004)	3.00					0.6	38
0.070 (+0.004)	3.00					0.7	38
0.080 (+0.004)	3.00					0.8	38
0.090 (+0.004)	3.00					0.9	38
0.10	3.00			0.8	38	1.0	38
0.11	3.00			0.8	38	1.0	38
0.12	3.00			1.0	38	1.5	38
0.13	3.00			1.0	38	1.5	38
0.14	3.00			1.0	38	1.5	38
0.15	3.00			1.0	38	2.0	38
0.16	3.00			1.0	38	2.0	38
0.17	3.00			1.0	38	2.0	38
0.18	3.00			1.5	38	2.5	38
0.19	3.00			1.5	38	2.5	38
0.20	3.00			1.5	38	2.5	38
0.21	3.00			1.5	38	2.5	38
0.22	3.00			1.5	38	2.5	38
0.23	3.00			2.0	38	4.0	38
0.24	3.00			2.0	38	4.0	38
0.25	3.00			2.0	38	4.0	38
0.26	3.00			2.0	38	4.0	38
0.27	3.00			2.0	38	4.0	38
0.28	3.00			2.0	38	4.0	38
0.29	3.00			2.0	38	4.0	38
0.30	3.00	1.5	38	3.0	38	5.5	38
0.31	3.00	1.5	38	3.0	38	5.5	38
0.32	3.00	1.5	38	3.0	38	5.5	38
0.33	3.00	1.5	38	3.0	38	5.5	38
0.34	3.00	1.5	38	3.0	38	5.5	38
0.35	3.00	1.5	38	3.0	38	5.5	38
0.36	3.00	1.5	38	3.0	38	5.5	38
0.37	3.00	1.5	38	3.0	38	5.5	38
0.38	3.00	1.5	38	3.0	38	5.5	38
0.39	3.00	1.5	38	3.0	38	5.5	38
0.40	3.00	1.5	38	3.0	38	6.0	38
0.41	3.00	2.0	38	4.0	38	6.0	38
0.42	3.00	2.0	38	4.0	38	6.0	38
0.43	3.00	2.0	38	4.0	38	6.0	38
0.44	3.00	2.0	38	4.0	38	6.0	38
0.45	3.00	2.0	38	4.0	38	6.0	38
0.46	3.00	2.0	38	4.0	38	6.0	38
0.47	3.00	2.0	38	4.0	38	6.0	38
0.48	3.00	2.0	38	4.0	38	6.0	38
0.49	3.00	2.0	38	4.0	38	6.0	38
0.50	3.00	2.0	38	4.0	38	6.0	38
0.51	3.00	2.5	38	4.0	38	6.0	38
0.52	3.00	2.5	38	4.0	38	6.0	38
0.53	3.00	2.5	38	4.0	38	6.0	38
0.54	3.00	2.5	38	4.0	38	6.0	38
0.55	3.00	2.5	38	5.0	38	8.0	38
0.56	3.00	2.5	38	5.0	38	8.0	38
0.57	3.00	2.5	38	5.0	38	8.0	38
0.58	3.00	2.5	38	5.0	38	8.0	38
0.59	3.00	2.5	38	5.0	38	8.0	38
0.60	3.00	2.5	38	5.0	38	8.0	38



Article	Tool Drawing and Range	Series	Article	Tool Drawing and Range	Series
T580-SN T581-SN	 Ø 0.050 - 6.00	NC Pointing Drills	F500-SN	 M0.6 - M1.6	Thread Whirlers
T579-SN	 Ø 0.20 - 6.00	Countersink Drills	F502-SN	 M1.8 - M6	Thread Whirlers
T301-SN T302-SN T303-SN	 Ø 0.015 - 3.00	INDRILL	F505-SN	 M0.6 - M1.6	Taper Thread Whirlers
T311-SN T312-SN T313-SN	 Ø 0.30 - 3.00	INDRILL+ High Performance Drills	G847-SN	 Ø 0.05-0.20	Engravers
T305-SC / T310-SC T315-SC / T320-SC T325-SC / T330-SC	 Ø 0.80 - 6.00	INDRILL Cool High Performance Through Coolant Drills	C676-SN	 Ø 3.00 - 6.00	Chamfering Cutters
E900-SN	 Ø 0.15 - 2.00	Torx End Mills	F401-SN	 Ø 4.00 - 6.00	T-Slot Cutters
E966-SN E967-SN	 Ø 0.050 - 6.00	INDMILL 2 / 4 Flute	E950-SN	 Ø 0.20 - 6.00	Taper End Mills 2 Flute
E305-SN E307-SN	 Ø 1.00 - 6.00	Variable Helix End Mills	Bxxx-SN	 Ø 0.30 - 4.00	End Mills for Digital Dentistry
B972-SN	 Ø 0.10 - 6.00	Ballnose End Mills 4 Flute	E964-SN	 Ø 0.15 - 0.50	End Mills 2 Flute



$\varnothing d$ h10	l	L	$\varnothing D$ h6
0.05	0.1	38	3.00
	0.15		
0.08	0.15	38	3.00
	0.25		
0.10	0.2	38	3.00
	0.3		
0.20	0.4	38	3.00
	0.6		
0.30	0.6	38	3.00
	0.9		
0.40	0.8	38	3.00
	1.2		
0.50	1.0	38	3.00
	1.5		
0.60	1.2	38	3.00
	1.8		
0.70	1.4	38	3.00
	2.1		
0.80	1.6	38	3.00
	2.4		
0.90	1.8	38	3.00
	2.7		
1.00	2.0	38	3.00
	3.0		
1.20	2.4	38	3.00
	3.6		
1.40	2.8	38	3.00
	4.2		
1.50	3.0	38	3.00
	4.5		
1.60	3.2	38	3.00
	4.8		
1.80	3.6	38	3.00
	5.4		
2.00	4.0	38	3.00
	6.0		
2.50	5.0	38	3.00
	7.5		
3.00	6.0	50	6.00
	9.0		
4.00	8.0	50	6.00
	12.0		
5.00	10.0	50	6.00
	15.0		
6.00	12.0	50	6.00
	18.0		

Series Endmill

Series	Dia range (mm)	Description
E823-SN	0.10 -12.00	Single Flute End Mills
E305-SN	1.00 -12.00	High Performance End Mills
E307-SN	1.00 -12.00	High Performance End Mills
E310-SN	1.00 -12.00	High Performance Square End Mills
E966-SN	0.05 -6.00	2 Flute End Mills
E967-SN	0.20 -6.00	4 Flute End Mills
E968-SN	1.00 -6.00	3 Flute End Mills
B970-SN B870-SN	0.20 -6.00	2 Flute Ballnose End Mills
B972-SN	0.20 -6.00	4 Flute Ballnose End Mills
G847-SN	0.05 -0.20	Engravers

Bone Plates



Hip Implants



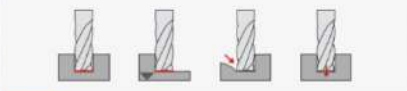
Carbide EndMill Economy Series

3F SQUARE FOR AL

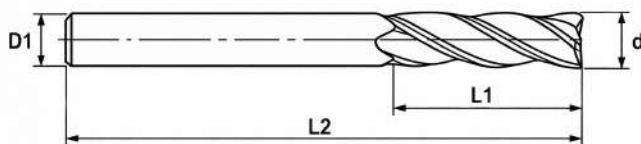
DLC

HRC 55

S



P	
M	
K	
N	
S	
H	



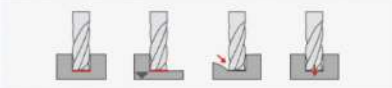
Diameter	Cutting Length	Shank	Overall Length
mm	mm	mm	mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3	9	4	50
3.5	11	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
8	24	8	60
9	25	10	75
10	25	10	75
10	30	10	75
11	30	12	75
12	30	12	75
12	35	12	75
13	45	14	100
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

4F SQUARE

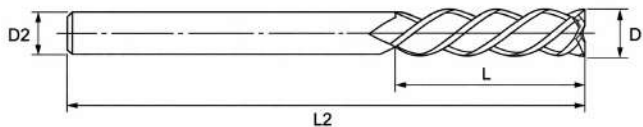
TISIN

HRC 55

S

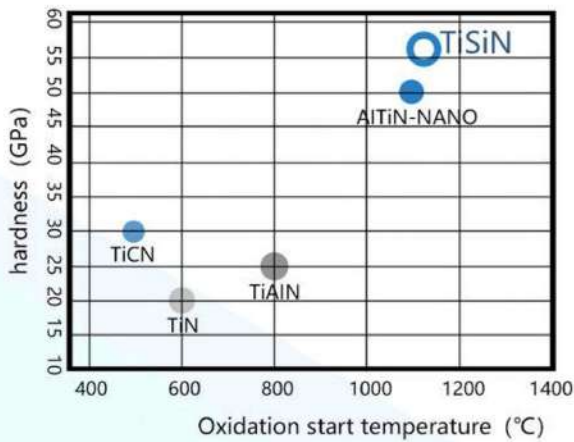


P	
M	
K	
N	
S	
H	

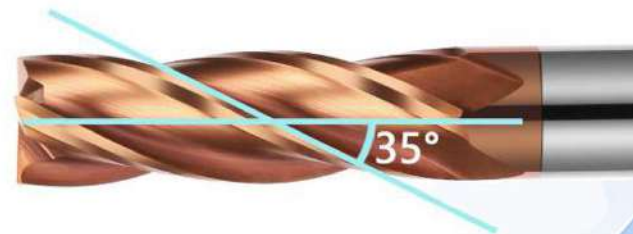


Diameter	Cutting Length	Shank	Overall Length
mm	mm	mm	mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3	9	4	50
3.5	11	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
8	24	8	60
9	25	10	75
10	25	10	75
10	30	10	75
11	30	12	75
12	30	12	75
12	35	12	75
13	45	14	100
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

FEATURES



Irregular helix angle



[Improved productivity with effective machining due to less vibration]

Carbide End Mill For Aluminum



Aluminum Profile

1F For AL



Applicable: spindle speed: 8000 rpm suitable for processing ; The rotational speed of tungsten steel material is above 15000rpm
materials: aluminium alloy doors and windows, curtain walls, plastic steel profiles, aluminium plate, etc.

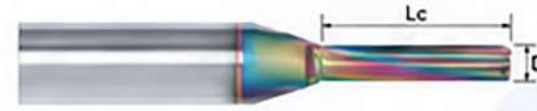
SHKxCEDxCeLxOVL
8*3*12*60
8*4*12*60
8*5*14*60
8*6*14*60
8*7*14*60
8*4*14*80
8*5*14*80
8*6*14*80
8*7*14*80
8*4*14 (35) *80
8*5*14 (35) *80

SHKxCEDxCeLxOVL
8*6*14 (35) *80
8*7*14 (35) *80
8*8*14*80
8*8*20*80
8*8*30*80
8*4*16*100
8*5*16*100
8*6*16*100
8*4*16 (45) *100
8*5*16 (45) *100
8*5*16 (60) *100

SHKxCEDxCeLxOVL
8*5*20 (45) *100
8*6*16 (45) *100
8*6*16 (60) *100
8*6*20 (45) *100
8*6*30 (50) *100
8*8*30 (60) *100
8*8*16*100
8*8*30*100
8*8*45*100
8*8*30 (80) *120
8*8*30*120

SHKxCEDxCeLxOVL
10*10*16*80
10*10*30 (65) *100
10*10*30*100
10*10*40*100
10*10*30*120
10*10*40*120
12*12*30*100
12*12*30*120
12*12*40*120

2F Straight Flute



Diameter	Flute Length	Overall Length	Shank
6	12	50	6
6	15	50	6
6	17	50	6
6	22	50	6
8	22	50	8
8	25	60	8
8	28	60	8
8	32	60	8
8	35	70	8
8	38	75	8
8	42	75	8
8	52	90	8
8	62	100	8
8	72	120	8
8	100	150	8
10	32	75	10
10	42	85	10
10	52	100	10
10	62	110	10
10	72	120	10
10	82	120	10
10	105	150	10
12	52	100	12
12	62	100	12
12	72	120	12
12	82	120	12
12	100	150	12

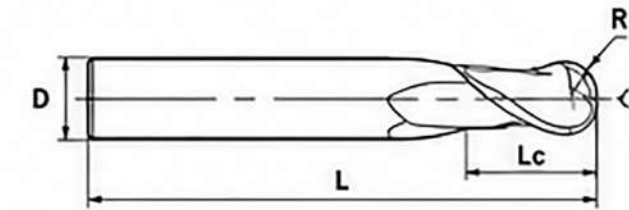
Diameter	Flute Length	Overall Length	Shank
6	12	50	6
6	15	50	6
6	17	50	6
6	22	50	6
8	22	50	8
8	25	60	8
8	28	60	8
8	32	60	8
8	35	70	8
8	38	75	8
8	42	75	8
8	52	90	8
8	62	100	8
8	72	120	8
8	100	150	8
10	32	75	10
10	42	85	10
10	52	100	10
10	62	110	10
10	72	120	10
10	82	120	10
10	105	150	10
12	52	100	12
12	62	100	12
12	72	120	12
12	82	120	12
12	100	150	12

Carbide End Mill Ball Nose



P	Blue
M	Yellow
K	Red
N	Green
S	Orange
H	Grey

Unit	(mm)		
R	R≤1.5	1.5<R<3	R≥3
Tol	0	0	0
	-0.015	-0.015	-0.02



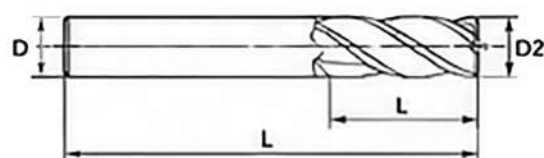
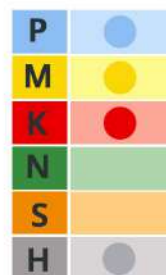
Diameter	Cutting Length	Shank	Overall Length
mm	mm	mm	mm
1	0.5	4	50
1.5	0.75	4	50
2	1	4	50
2.5	1.25	4	50
3	1.5	3	50
3	1.5	4	50
3.5	1.75	4	50
4	2	4	50
5	2.5	5	50
5	2.5	6	50
6	3	6	50
7	3.5	8	60
8	4	8	60
10	5	10	75
12	6	12	75
14	7	14	100
16	8	16	100
18	9	18	100
20	10	20	100



4F Square



Unit	(mm)		
D	D ≤ 12	D > 12	
Tol	0	0	
	-0.015	-0.02	



Diameter	Cutting Length	Shank	Overall Length
mm	mm	mm	mm
1	3	4	50
1.5	4	4	50
2	6	4	50
2.5	8	4	50
3	8	3	50
3	8	4	50
3.5	10	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
9	25	10	60
10	25	10	75
11	30	12	75
12	30	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

HRC65 P M K H

Suitable for stainless steel, cast iron high-efficiency processing series.
The special tool design is very suitable for stainless steel, cast iron materials processing



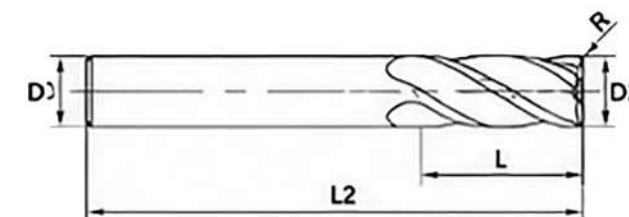
Excellent vibration resistance

- Suitable for efficient processing of high-hardness steel parts.
- Can process stainless steel, quenched and tempered steel and generally heat-treated steel.
- Suitable for finishing.

4F Corner Radius



Unit	(mm)		
D	D ≤ 12	D > 12	
Tol	0	0	
	-0.015	-0.02	



Diameter	Radius	Cutting Length	Shank	Overall Length
mm	mm	mm	mm	mm
1	0.2	3	4	50
1.5	0.2	5	4	50
2	0.2	6	4	50
2	0.5	6	4	50
2.5	0.2	8	4	50
2.5	0.5	8	3	50
3	0.5	8	3	50
3	0.2	9	4	50
3	0.5	9	4	50
4	0.2	10	4	50
4	0.5	10	4	50
4	1	10	4	50
5	0.5	13	5	50
5	1	13	5	50
5	0.5	13	6	50
5	1	13	6	50
6	0.2	15	6	50
6	0.5	15	6	50
6	1	15	6	50
8	0.5	20	8	60
8	1	20	8	60
10	0.5	25	10	75
10	1	25	10	75
12	0.5	30	12	75
12	1	30	12	75

Carbide End Mills HRC 55



CESM3-A / CES3-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 3F



超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	○
粗銑 Roughing	○

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	CESM30200A
2.5	6	50	4	CESM30250A
3.0	8	50	4	CESM30300A
3.5	9	50	4	CESM30350A
4.0	10	50	4	CESM30400A
2.0	5	50	6	CES30200A
2.5	6	50	6	CES30250A
3.0	8	50	6	CES30300A
3.5	9	50	6	CES30350A
4.0	10	50	6	CES30400A
4.5	11	50	6	CES30450A
5.0	13	50	6	CES30500A
5.5	14	50	6	CES30550A

CELFM4-A / CELF4-A / CEFF4-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type & (Extra) Long Flute- 4F



超精銑 Bright Finishing	○
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	—

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0	5	50	4	CELFM40100A
2.0	10	50	4	CELFM40200A
3.0	15	60	4	CELFM40300A
4.0	20	60	4	CELFM40400A
3.0	15	60	6	CELF40300A
4.0	20	60	6	CELF40400A
5.0	25	75	6	CELF40500A
6.0	30	75	6	CELF40600A
8.0	35	100	8	CELF40800A
10.0	45	100	10	CELF41000A
12.0	45	100	12	CELF41200A
14.0	70	150	14	CELF4140014A
14.0	70	150	16	CELF41400A
16.0	70	150	16	CELF41600A
18.0	75	150	20	CELF41800A
20.0	75	150	20	CELF42000A
25.0	75	150	25	CELF42500A
10.0	55	100	10	CEFF41000A
12.0	55	100	12	CEFF41200A
16.0	80	150	16	CEFF41600A
20.0	90	150	20	CEFF42000A

CEBS2-A

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed- 2F- Micro Diameter



超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	●
粗銑 Roughing	○

半徑 R	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
0.1R	0.4	50	3	CEBS20010A
0.15R	0.6	50	3	CEBS20015A
0.2R	0.8	50	3	CEBS20020A
0.25R	1.0	50	3	CEBS20025A
0.3R	1.2	50	3	CEBS20030A
0.35R	1.4	50	3	CEBS20035A
0.4R	1.6	50	3	CEBS20040A
0.45R	1.8	50	3	CEBS20045A
0.5R	2.0	50	3	CEBS20050A
0.6R	2.4	50	3	CEBS20060A
0.7R	2.8	50	3	CEBS20070A

CEB3-A

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed- 3F



超精銑 Bright Finishing	—
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	○

半徑 R	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0R	4	50	6	CEB30100A
1.5R	6	50	6	CEB30150A
2.0R	8	50	6	CEB30200A
2.5R	10	50	6	CEB30250A
3.0R	12	50	6	CEB30300A

CEBML4-A / CEBL4-A

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed & Long Shank- 4F



超精銑 Bright Finishing	○
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	—

半徑 R	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0R	4	75	4	CEBML40100A
1.25R	5	75	4	CEBML40125A
1.5R	6	75	4	CEBML40150A
1.75R	7	75	4	CEBML40175A
2.0R	8	75	4	CEBML40200A
3.0R	12	75	6	CEBL40300A



MESS2-A / MESM2-A

M520 ULTRA CARBIDE END MILLS- Square Type- 2F- Micro Diameter



超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	●
粗銑 Roughing	○

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
0.20	0.4	50	3	MESS20020A
0.25	0.5	50	3	MESS20025A
0.30	0.6	50	3	MESS20030A
0.35	0.7	50	3	MESS20035A
0.40	0.8	50	3	MESS20040A
0.50	1.0	50	3	MESS20050A
0.60	1.5	50	3	MESS20060A
0.70	2.0	50	3	MESS20070A
0.80	2.0	50	3	MESS20080A
0.90	2.0	50	3	MESS20090A
1.00	3.0	50	3	MESS20100A
1.50	4.0	50	3	MESS20150A
2.00	5.0	50	3	MESS20200A
2.50	6.0	50	3	MESS20250A
3.00	8.0	50	3	MESS20300A
0.20	0.4	50	4	MESM20020A
0.25	0.5	50	4	MESM20025A
0.30	0.6	50	4	MESM20030A
0.35	0.7	50	4	MESM20035A
0.40	0.8	50	4	MESM20040A
0.50	1.0	50	4	MESM20050A
0.60	1.5	50	4	MESM20060A
0.70	2.0	50	4	MESM20070A
0.80	2.0	50	4	MESM20080A
0.90	2.0	50	4	MESM20090A

MESS4-A / MESM4-A

M520 ULTRA CARBIDE END MILLS- Square Type- 4F



超精銑 Bright Finishing	○
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	—

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0	3	50	3	MESS40100A
1.5	4	50	3	MESS40150A
2.0	5	50	3	MESS40200A
2.5	6	50	3	MESS40250A
3.0	8	50	3	MESS40300A
1.0	3	50	4	MESM40100A
1.5	4	50	4	MESM40150A
2.0	5	50	4	MESM40200A
2.5	6	50	4	MESM40250A
3.0	8	50	4	MESM40300A
3.5	9	50	4	MESM40350A

Carbide End Mills HRC 60

MEMHM4-F / MEMH4-F

M520 ULTRA CARBIDE END MILLS FOR STAINLESS- High Helix- Square Type- 4F



超精銑 Bright Finishing	—
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	○

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
3.0	8	50	4	MEMHM40300F
4.0	10	50	4	MEMHM40400F
4.0	10	50	6	MEMH40400F
5.0	13	50	6	MEMH40500F
6.0	15	50	6	MEMH40600F
8.0	20	60	8	MEMH40800F
10.0	25	75	10	MEMH41000F
12.0	30	75	12	MEMH41200F

MES4-A

M520 ULTRA CARBIDE END MILLS- Square Type- 4F



超精銑 Bright Finishing	○
精銑 Finishing	●
中銑 Semi Finishing	○
粗銑 Roughing	—

刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
3.0	8	50	6	MES40300A
3.5	9	50	6	MES40350A
4.0	10	50	6	MES40400A
4.5	11	50	6	MES40450A
5.0	13	50	6	MES40500A
5.5	14	50	6	MES40550A
6.0	15	50	6	MES40600A
6.5	16	60	8	MES40650A
7.0	18	60	8	MES40700A
7.5	18	60	8	MES40750A
8.0	20	60	8	MES40800A
8.5	20	75	10	MES40850A
9.0	22	75	10	MES40900A
9.5	22	75	10	MES40950A
10.0	25	75	10	MES41000A
10.5	25	75	12	MES41050A
11.0	25	75	12	MES41100A
11.5	25	75	12	MES41150A
12.0	30	75	12	MES41200A
13.0	30	75	14	MES4130014A
14.0	30	75	14	MES4140014A
15.0	35	100	16	MES41500A
16.0	35	100	16	MES41600A
18.0	40	100	20	MES41800A
20.0	45	100	20	MES42000A
25.0	45	100	25	MES42500A

MICRO GRAIN CARBIDE HIGH SPEED DRILL- Straight Shank- Short Flute- 2F(3×d)

CDS20000F

規格DIN6539

有效加工深度=3倍刃徑

CUTTING EFFECTED LENGTH=3xd

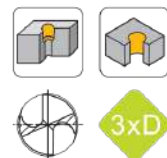
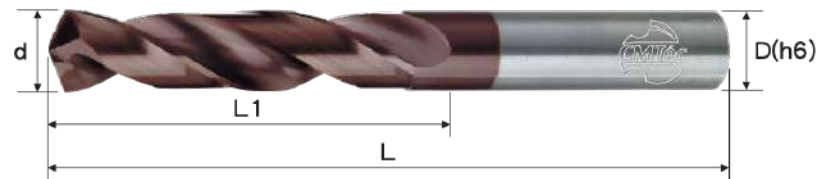
※ 另有118° 泛用型, 可供選擇。

※ Drill, Tip Angle =118° is on request.

※ 其他刃徑公差規格依需求生產。

※ Special Tolerance(Φ) is on request.

刃徑 d	公差 Tolerance
Φ	h7

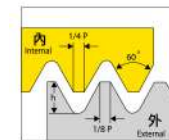


51

刃徑 d	溝長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	16.0	46	3.0	2	CDS20300	CDS20300F
3.1	16.0	49	3.1	2	CDS20310	CDS20310F
3.2	18.0	49	3.2	2	CDS20320	CDS20320F
3.3	18.0	49	3.3	2	CDS20330	CDS20330F
3.4	20.0	52	3.4	2	CDS20340	CDS20340F
3.5	20.0	52	3.5	2	CDS20350	CDS20350F
3.6	20.0	52	3.6	2	CDS20360	CDS20360F
3.7	20.0	52	3.7	2	CDS20370	CDS20370F
3.8	22.0	55	3.8	2	CDS20380	CDS20380F
3.9	22.0	55	3.9	2	CDS20390	CDS20390F
4.0	22.0	55	4.0	2	CDS20400	CDS20400F
4.1	22.0	55	4.1	2	CDS20410	CDS20410F
4.2	22.0	55	4.2	2	CDS20420	CDS20420F
4.3	24.0	58	4.3	2	CDS20430	CDS20430F
4.4	24.0	58	4.4	2	CDS20440	CDS20440F
4.5	24.0	58	4.5	2	CDS20450	CDS20450F
4.6	24.0	58	4.6	2	CDS20460	CDS20460F
4.7	24.0	58	4.7	2	CDS20470	CDS20470F
4.8	26.0	62	4.8	2	CDS20480	CDS20480F
4.9	26.0	62	4.9	2	CDS20490	CDS20490F
5.0	26.0	62	5.0	2	CDS20500	CDS20500F
5.1	26.0	62	5.1	2	CDS20510	CDS20510F
5.2	26.0	62	5.2	2	CDS20520	CDS20520F
5.3	26.0	62	5.3	2	CDS20530	CDS20530F
5.4	28.0	66	5.4	2	CDS20540	CDS20540F
5.5	28.0	66	5.5	2	CDS20550	CDS20550F
5.6	28.0	66	5.6	2	CDS20560	CDS20560F
5.7	28.0	66	5.7	2	CDS20570	CDS20570F
5.8	28.0	66	5.8	2	CDS20580	CDS20580F
5.9	28.0	66	5.9	2	CDS20590	CDS20590F
6.0	28.0	66	6.0	2	CDS20600	CDS20600F
6.1	31.0	70	6.1	2	CDS20610	CDS20610F
6.2	31.0	70	6.2	2	CDS20620	CDS20620F

MSHIDA1-A / MSHIDA2-A / MSHIDA3-A

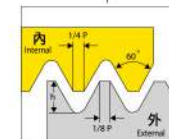
ULTRA CARBIDE MULTIPURPOSE THREAD MILLS- 1 / 2 / 3TEETH- HELIX FLUTE(DRILL-CHAMFER-THREAD)- HARD MATERIALS CUTTING- INTERNAL(ISO Metric)



螺紋 Thread	螺距 Pitch	刃徑 Dia.	有效 長 L2	全長 L	柄徑 D	倒角 C	牙數 Teeth	鍍膜訂購編號 Coated Order No.
M0.8	0.20	0.60	2.4	50	4	0.10	1	MSHIDA100604-020A
M0.9	0.225	0.66	2.7	50	4	0.12	1	MSHIDA100604-022A
M1.0	0.25	0.73	3.0	50	4	0.15	1	MSHIDA100704-025A
M1.2	0.25	0.92	3.6	50	4	0.15	1	MSHIDA100904-025A
M1.4	0.30	1.05	4.2	50	4	0.19	1	MSHIDA101004-030A
M1.6	0.35	1.21	4.8	50	4	0.22	1	MSHIDA101204-035A
M2.0	0.40	1.55	6.0	50	4	0.25	1	MSHIDA201504-040A
M2.5	0.45	2.00	7.5	50	4	0.29	1	MSHIDA202004-045A
M3.0	0.50	2.44	9.0	60	6	0.33	1	MSHIDA202406-050A
M4.0	0.70	3.20	12.0	60	6	0.45	1	MSHIDA203206-070A
M5.0	0.80	4.00	15.0	60	6	0.53	1	MSHIDA204006-080A
M6.0	1.00	4.85	18.0	75	6	0.65	2	MSHIDA304806-100A

CSH12-A

MICRO GRAIN CARBIDE DRILL- THREAD- CHAMFER- HELIX FLUTE- INTERNAL(ISO Metric)



螺紋 Thread	螺距 Pitch	刃徑 Dia.	d2	L1	L2	Nd	NL	全長 L	柄徑 D	鍍膜訂購編號 Coated Order No.
M6	1.00	5.0	4.85	1.0	14.5	6.6	9.5	60	8	CSH1205008-100A
M8	1.25	6.8	6.45	1.3	18.2	9.0	16.8	75	10	CSH1206810-125A
M10	1.50	8.5	8.08	1.5	23.4	11.0	11.6	80	12	CSH1208512-150A
M12	1.75	10.3	9.74	1.5	27.1	13.5	17.9	90	14	CSH1210314-175A

CEFM-D / CEF-D

CARBIDE END MILLS FOR COMPOSITES- Square Type

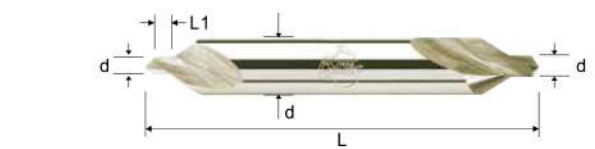


超精紋 Bright Finishing	—
精紋 Finishing	—
中紋 Semi Finishing	⊙
粗紋 Roughing	⊗

刃徑 d	刃長 L1	全長 L	柄徑 D	DIA 鍍膜訂購編號 Coated Order No.
4.0	20	60	4	CEFM80400D
6.0	25	60	6	CEF110600D
8.0	25	60	8	CEF140800D
10.0	30	75	10	CEF161000D
12.0	32	100	12	CEF171200D

CDC

MICRO GRAIN CARBIDE CENTER DRILLS

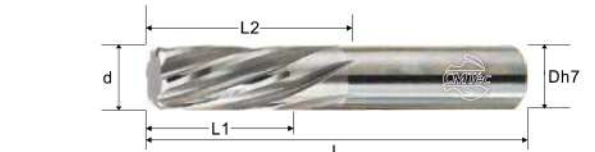


d(刃徑)	Tolerance(公差)
Φ	+0.02

刃徑 d	刃長 L1	全長 L	柄徑 D	60°白刀訂購編號 Uncoated Order No.
1.00	1.6	32	3.0	CDC010060
1.25	1.9	32	3.0	CDC012560
1.60	2.4	32	4.0	CDC016060
2.00	2.9	40	5.0	CDC020060
2.50	3.6	45	6.0	CDC025060
3.00	3.9	60	8.0	CDC030060
3.15	3.9	60	8.0	CDC031560
4.00	5.0	75	10.0	CDC040060
5.00	6.3	75	12.0	CDC050060

CRD4 / CRD6

MICRO GRAIN CARBIDE MACHINE REAMERS- Short Flute- 4/6F



d(刃徑)	Tolerance(公差)
6 ≥ Φ	+0.004
6 < Φ	+0.005

刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
2.98	15.0	20	50	4.0	4	CRD40298
2.99	15.0	20	50	4.0	4	CRD40299
3.00	15.0	20	50	4.0	4	CRD40300
3.01	15.0	20	50	4.0	4	CRD40301
3.02	15.0	20	50	4.0	4	CRD40302

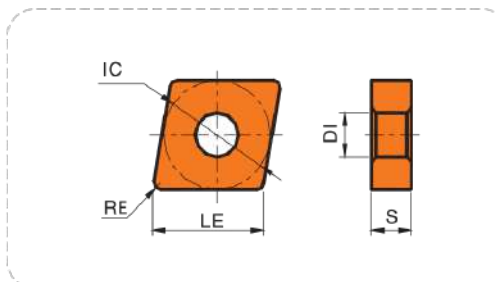
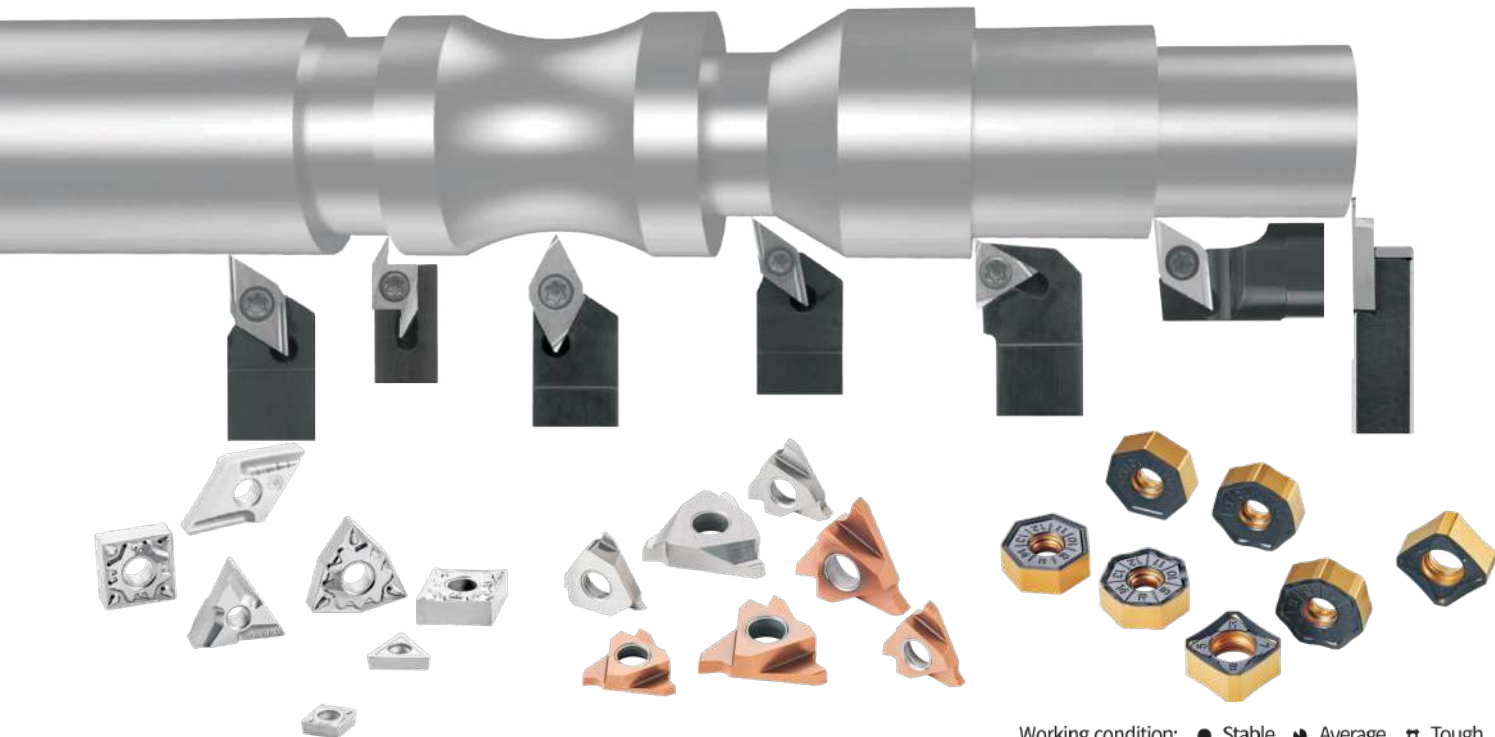
CEC2-A

MICRO GRAIN CARBIDE V-pointed END MILLS- 2F



角度	Tolerance(公差)
ε°	±1°

頂角 Tip Angle	刃徑 Diameter	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
90	3.0	6.0	50	6	CEC2030090A
90	4.0	8.0	50	6	CEC2040090A
90	5.0	10.0	75	6	CEC2050090A
90	6.0	12.0	75	6	CEC2060090A
120	3.0	6.0	50	6	CEC20300C0A



Workpiece material
P Steel
M Stainless steel
K Cast iron
N Non-ferrous metal
S Heat resistant super alloys Titanium alloy

Working condition: ● Stable ● Average ■ Tough

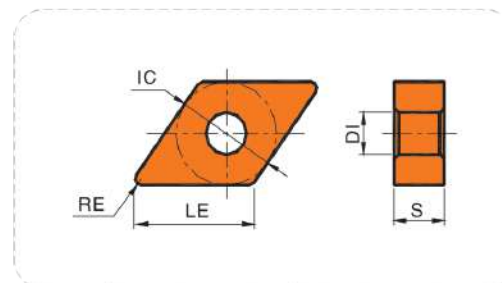
Processing	Insert shape	Type	Dimension (mm)					CVD					PVD					Cemented carbide	Cermet						
			LE	IC	S	DI	RE	HR8105	HR8115	HR8125	HR8225	HR8135	HR6115	HR1135	HR9105	HR7115	HR7125	HR7225	HR5125	HR5225	HRK10	HRK20	HRC10	HR115C	
Semi-finishing		CNMG120404-GM	12.9	12.7	4.76	5.16	0.4	☆	★	☆	★	☆													
		CNMG120408-GM	12.9	12.7	4.76	5.16	0.8	☆	★	☆	★	☆													
		CNMG120412-GM	12.9	12.7	4.76	5.16	1.2	☆	★	☆	★	☆													
		CNMG160608-GM	16.1	15.875	6.35	6.35	0.8	☆	★	☆	★	☆													
		CNMG160612-GM	16.1	15.875	6.35	6.35	1.2	☆	★	☆	★	☆													
		CNMG160616-GM	16.1	15.875	6.35	6.35	1.6	☆	★	☆	★	☆													
		CNMG190608-GM	19.3	19.05	6.35	7.94	0.8	☆	★	☆	★	☆													
		CNMG190612-GM	19.3	19.05	6.35	7.94	1.2	☆	★	☆	★	☆													
		CNMG190616-GM	19.3	19.05	6.35	7.94	1.6	☆	★	☆	★	☆													
Semi-finishing		CNMG120404-BM	12.9	12.7	4.76	5.16	0.4									☆	★								
		CNMG120408-BM	12.9	12.7	4.76	5.16	0.8										☆	★							
		CNMG120412-BM	12.9	12.7	4.76	5.16	1.2										☆	★							

★ Recommended grade ☆ Available grade

Applicable tools

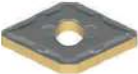


55°DN□□



Workpiece material
P Steel
M Stainless steel
K Cast iron
N Non-ferrous metal
S Heat resistant super alloys Titanium alloy

Working condition: ● Stable ● Average ■ Tough

Processing	Insert shape	Type	Dimension (mm)					CVD					PVD					Cemented carbide	Cermet					
			LE	IC	S	DI	RE	HR8105	HR8115	HR8125	HR8225	HR8135	HR6115	HR1135	HR9105	HR7115	HR7125	HR7225	HR5125	HR5225	HRK10	HRK20	HRC10	HR115C
Finishing		DNMG150404–GC	15.5	12.7	4.76	5.16	0.4	☆	★	☆	★	☆												
		DNMG150408–GC	15.5	12.7	4.76	5.16	0.8	☆	★	☆	★	☆												
Finishing		DNMG150404–GF	15.5	12.7	4.76	5.16	0.4	☆	★	☆	★	☆												
		DNMG150408–GF	15.5	12.7	4.76	5.16	0.8	☆	★	☆	★	☆												
		DNMG150604–GF	15.5	12.7	6.35	5.16	0.4	☆	★	☆	★	☆												
		DNMG150608–GF	15.5	12.7	6.35	5.16	0.8	☆	★	☆	★	☆												
Semi-finishing		DNMG110412–GM	11.6	9.525	4.76	3.81	1.2	☆	★	☆	★	☆												
		DNMG150404–GM	15.5	12.7	4.76	5.16	0.4	☆	★	☆	★	☆												
		DNMG150408–GM	15.5	12.7	4.76	5.16	0.8	☆	★	☆	★	☆												
		DNMG150412–GM	15.5	12.7	4.76	5.16	1.2	☆	★	☆	★	☆												
		DNMG150604–GM	15.5	12.7	6.35	5.16	0.4	☆	★	☆	★	☆												
		DNMG150608–GM	15.5	12.7	6.35	5.16	0.8	☆	★	☆	★	☆												
		DNMG150612–GM	15.5	12.7	6.35	5.16	1.2	☆	★	☆	★	☆												
Semi-finishing		DNMG150404–BM	15.5	12.7	4.76	5.16	0.4									☆	★							
		DNMG150408–BM	15.5	12.7	4.76	5.16	0.8										☆	★						
		DNMG150412–BM	15.5	12.7	4.76	5.16	1.2										☆	★						
		DNMG150604–BM	15.5	12.7	6.35	5.16	0.4										☆	★						
		DNMG150608–BM	15.5	12.7	6.35	5.16	0.8										☆	★						
		DNMG150612–BM	15.5	12.7	6.35	5.16	1.2										☆	★						
Cast iron machining		DNMG150404	15.5	12.7	4.76	5.16	0.4									★								
		DNMG150408	15.5	12.7	4.76	5.16	0.8									★								
		DNMG150412	15.5	12.7	4.76	5.16	1.2									★								
		DNMG150604	15.5	12.7	6.35	5.16	0.4									★								
		DNMG150608	15.5	12.7	6.35	5.16	0.8									★								
		DNMG150612	15.5	12.7	6.35	5.16	1.2									★								

★ Recommended grade ☆ Available grade

Applicable tools



90°SN

Working condition: ● Stable ● Average ■ Tough

Processing	Insert shape	Type	Dimension (mm)					CVD		PVD		Cemented carbide	Cermet
			LE	IC	S	DI	RE	HR8105	HR8115	HR8125	HR8135	HR8115	HR8135
			LE	IC	S	DI	RE	HR8105	HR8115	HR8125	HR8135	HR8115	HR8135
Finishing		SNMG120404-BF	12.7	12.7	4.76	5.16	0.4						
		SNMG120408-BF	12.7	12.7	4.76	5.16	0.8						
Semi-finishing		SNMG120404-GM	12.7	12.7	4.76	5.16	0.4	☆	☆	☆	☆		
		SNMG120408-GM	12.7	12.7	4.76	5.16	0.8	☆	☆	☆	☆		
		SNMG120412-GM	12.7	12.7	4.76	5.16	1.2	☆	☆	☆	☆		
		SNMG190612-GM	19.05	19.05	6.35	7.94	1.2	☆	☆	☆	☆		
		SNMG190616-GM	19.05	19.05	6.35	7.94	1.6	☆	☆	☆	☆		
Semi-finishing		SNMG120404-BM	12.7	12.7	4.76	5.16	0.4					☆	☆
		SNMG120408-BM	12.7	12.7	4.76	5.16	0.8					☆	☆
		SNMG120412-BM	12.7	12.7	4.76	5.16	1.2					☆	☆
Cast iron machining		SNMA120404	12.7	12.7	4.76	5.16	0.4					☆	
		SNMA120408	12.7	12.7	4.76	5.16	0.8					☆	
		SNMA120412	12.7	12.7	4.76	5.16	1.2					☆	
		SNMA150608	15.875	15.875	6.35	6.35	0.8					☆	
		SNMA150612	15.875	15.875	6.35	6.35	1.2					☆	
		SNMA150616	15.875	15.875	6.35	6.35	1.6					☆	
		SNMA190612	19.05	19.05	6.35	7.94	1.2					☆	
Heavy machining		SNMM190612-GZ	19.05	19.05	6.35	7.94	1.2	☆	☆				
		SNMM190616-GZ	19.05	19.05	6.35	7.94	1.6	☆	☆				
		SNMM190624-GZ	19.05	19.05	6.35	7.94	2.4	☆	☆				
		SNMM250924-GZ	25.4	25.4	9.525	9.12	2.4	☆	☆				
		SNMM250932-GZ	25.4	25.4	9.525	9.12	3.2	☆	☆				

★ Recommended grade ☆ Available grade

Applicable tools



60°TN

Working condition: ● Stable ● Average ■ Tough

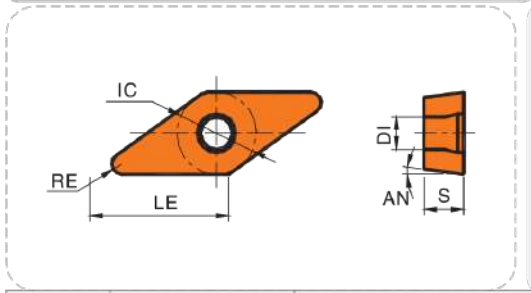
Machining type	Insert shape	Type	Basic dimension (mm)					CVD		PVD		Cemented carbide	Cermet
			LE	IC	S	DI	RE	HR8115	HR8125	HR8225	HR6115	HR9105	HR7115
			LE	IC	S	DI	RE	HR8115	HR8125	HR8225	HR6115	HR9105	HR7115
Finishing		TNMG160404-GF	16.5	9.525	4.76	3.81	0.4	★	☆	★			
		TNMG160408-GF	16.5	9.525	4.76	3.81	0.8	★	☆	★			
Finishing		TNMG160404-BF	16.5	9.525	4.76	3.81	0.4					☆	★
		TNMG160408-BF	16.5	9.525	4.76	3.81	0.8					☆	★
Semi-finishing		TNMG160404-GM	16.5	9.525	4.76	3.81	0.4	★	☆	★			
		TNMG160408-GM	16.5	9.525	4.76	3.81	0.8	★	☆	★			
		TNMG160412-GM	16.5	9.525	4.76	3.81	1.2	★	☆	★			
		TNMG220412-GM	22	12.7	4.76	5.16	1.2	★	☆	★			
Semi-finishing		TNMG160404-BM	16.5	9.525	4.76	3.81	0.4					☆	★
		TNMG160408-BM	16.5	9.525	4.76	3.81	0.8					☆	★
		TNMG160412-BM	16.5	9.525	4.76	3.81	1.2					☆	★
Cast iron machining		TNMA160404	16.5	9.525	4.76	3.81	0.4				★		
		TNMA160408	16.5	9.525	4.76	3.81	0.8				★		
		TNMA160412	16.5	9.525	4.76	3.81	1.2				★		
		TNMA220408	22	12.7	4.76	5.16	0.8				★		
		TNMA220412	22	12.7	4.76	5.16	1.2				★		
		TNMA220416	22	12.7	4.76	5.16	1.6				★		
Rough machining		TNMG160408-GR	16.5	9.525	4.76	3.81	0.8	☆	☆	★			
		TNMG160412-GR	16.5	9.525	4.76	3.81	1.2	☆	☆	★			

Applicable tools

★ Recommended grade ☆ Available grade



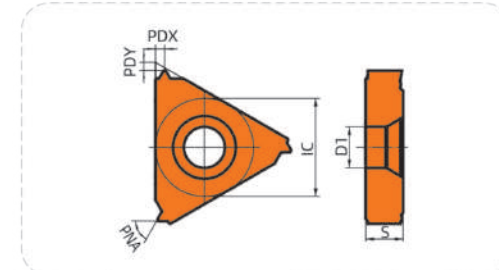
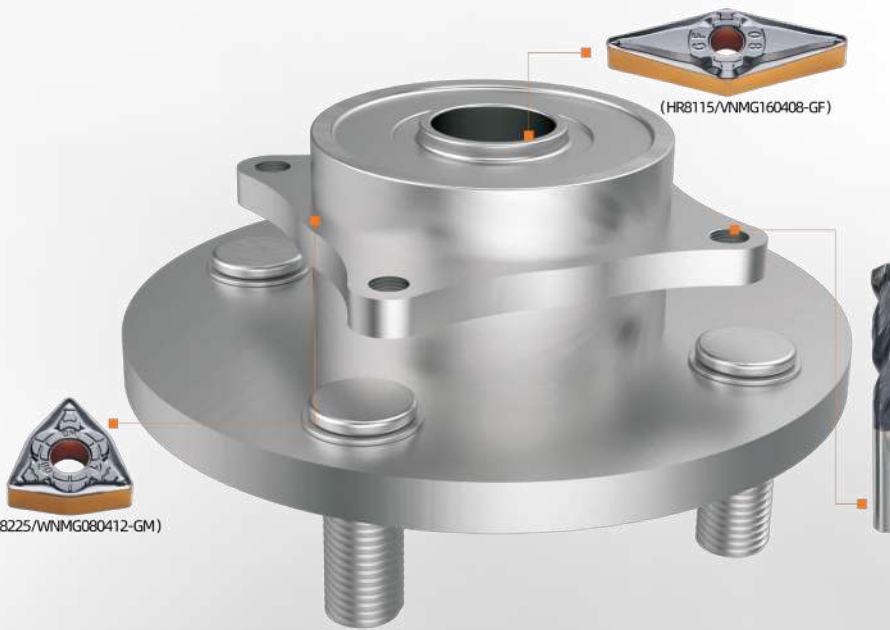
35°VB&VC



Machining type	Insert shape	Type	Basic dimension (mm)						CVD				PVD				Cemented carbide		Cermet			
			LE	IC	S	DI	RE	AN	HR8115	HR8125	HR8225	HR6115	HR9105	HR7115	HR7125	HR7225	HR5125	HR5225	HRK10	HRK20	HRC10	HRC20
Finishing		VBGT160402-AK	16.5	9.525	4.76	4.4	0.2	5.0											★	☆		
		VBGT160404-AK	16.5	9.525	4.76	4.4	0.4	5.0											★	☆		
		VBGT160408-AK	16.5	9.525	4.76	4.4	0.8	5.0											★	☆		
		VCGT110302-AK	11.0	6.35	3.18	2.8	0.2	7.0											★	☆		
		VCGT110304-AK	11.0	6.35	3.18	2.8	0.4	7.0											★	☆		
		VCGT160402-AK	16.5	9.525	4.76	4.4	0.2	7.0											★	☆		
		VCGT160404-AK	16.5	9.525	4.76	4.4	0.4	7.0											★	☆		
		VCGT160408-AK	16.5	9.525	4.76	4.4	0.8	7.0											★	☆		
Semi-finishing		VBMT110304-TM	11.0	6.35	3.18	2.8	0.4	5.0	★	☆	★				☆	★						
		VBMT110308-TM	11.0	6.35	3.18	2.8	0.8	5.0	★	☆	★				☆	★						
		VBMT160404-TM	16.5	9.525	4.76	4.4	0.4	5.0	★	☆	★				☆	★						
		VBMT160408-TM	16.5	9.525	4.76	4.4	0.8	5.0	★	☆	★				☆	★						
		VBMT160412-TM	16.5	9.525	4.76	4.4	1.2	5.0	★	☆	★				☆	★						
		VCMT110304-TM	11.0	6.35	3.18	2.8	0.4	7.0	★	☆	★				☆	★						
		VCMT110308-TM	11.0	6.35	3.18	2.8	0.8	7.0	★	☆	★				☆	★						
		VCMT160404-TM	16.5	9.525	4.76	4.4	0.4	7.0	★	☆	★				☆	★						
		VCMT160408-TM	16.5	9.525	4.76	4.4	0.8	7.0	★	☆	★				☆	★						
		VCMT160412-TM	16.5	9.525	4.76	4.4	1.2	7.0	★	☆	★				☆	★						

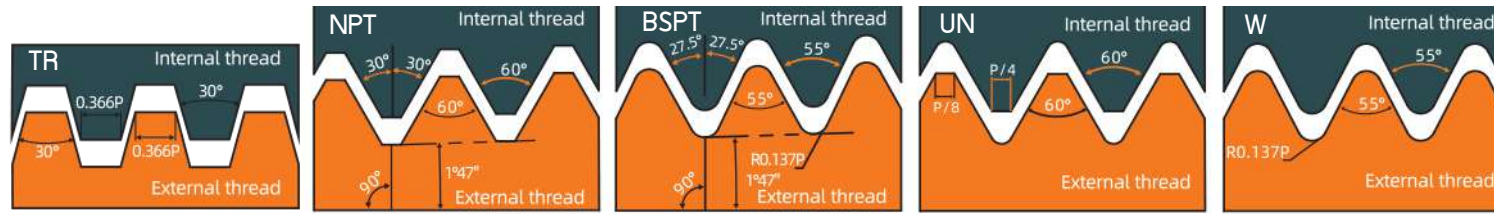
★ Recommended grade ☆ Available grade

Applicable tools



Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant super alloys Titanium alloy
● Stable	●	●	●	●	●
● Average	●	●	●	●	●
● Tough	●	●	●	●	●

Operation type	Insert shape	Type	Pitch/ number of teeth	Dimension (mm)						CVD					PVD					Cemented carbide	Cermet					
				IC	PDX	PDY	S	D1	PNA	HR8105	HR8115	HR8125	HR8225	HR8135	HR6215	HR7115	HR7125	HR7225	HR9205	HR9215	HR5125	HR5225	HRK10	HRK20	HRC10	HR115C
External thread		16ER100ISO	1.00	9.525	0.7	0.7	3.52	4.0	60°											☆	★					
		16ER125ISO	1.25	9.525	0.9	0.8	3.52	4.0	60°												☆	★				
		16ER150ISO	1.50	9.525	1.0	0.8	3.52	4.0	60°												☆	★				
		16ER175ISO	1.75	9.525	1.2	0.9	3.52	4.0	60°												☆	★				
		16ER200ISO	2.00	9.525	1.3	1.0	3.52	4.0	60°												☆	★				
		16ER250ISO	2.50	9.525	1.5	1.2	3.52	4.0	60°												☆	★				
		16ER300ISO	3.00	9.525	1.6	1.3	3.52	4.0	60°												☆	★				
		22ER350ISO	3.50	12.700	2.3	1.6	4.65	5.0	60°												☆	★				
		22ER400ISO	4.00	12.700	2.3	1.6	4.65	5.0	60°												☆	★				
		22ER450ISO	4.50	12.700	2.4	1.7	4.65	5.0	60°												☆	★				
		22ER500ISO	5.00	12.700	2.4	1.7	4.65	5.0	60°												☆	★				
		22ER550ISO	5.50	12.700	2.5	1.6	4.65	5.0	60°												☆	★				
		22ER600ISO	6.00	12.700	2.7	1.7	4.65	5.0	60°												☆	★				
Operation type	Insert shape	Type	Pitch/ number of teeth	Dimension (mm)						CVD					PVD					Cemented carbide	Cermet					
				IC	PDX	PDY	S	D1	PNA	HR8105	HR8115	HR8125	HR8225	HR8135	HR6215	HR7115	HR7125	HR7225	HR9205	HR9215	HR5125	HR5225	HRK10	HRK20	HRC10	HR115C
Internal thread		11IR100ISO	1.00	6.35	0.7	0.7	3.05	3.2	60°											☆	★					
		11IR125ISO	1.25	6.35	0.9	0.8	3.05	3.2	60°												☆	★				
		11IR150ISO	1.50	6.35	1.0	0.8	3.05	3.2	60°												☆	★				
		16IR100ISO	1.00	9.525	0.7	0.7	3.52	4.0	60°												☆	★				
		16IR125ISO	1.25	9.525	0.9	0.8	3.52	4.0	60°												☆	★				
		16IR150ISO	1.50	9.525	1.0	0.8	3.52	4.0	60°												☆	★				
		16IR175ISO	1.75	9.525	1.2	0.9	3.52	4.0	60°												☆	★				
		16IR200ISO	2.00	9.525	1.3	1.0	3.52	4.0	60°												☆	★				
		16IR250ISO	5.50	9.525	1.5	1.1	3.52	4.0	60°												☆	★				
		16IR300ISO	3.00	9.525	1.5	1.1	3.52	4.0	60°												☆	★				
		22IR350ISO	3.50	12.700	2.3	1.6	4.65	5.0	60°												☆	★				
		22IR400ISO	4.00	12.700	2.3	1.6	4.65	5.0	60°												☆	★				
		22IR450ISO	4.50	12.700	2.4	1.6	4.65	5.0	60°												☆	★				
		22IR500ISO	5.00	12.700	2.4	1.6	4.65	5.0	60°												☆	★				
		22IR550ISO	5.50	12.700	2.5	1.6	4.65	5.0	60°												☆	★				
		22IR600ISO	6.00	12.700	2.5	1.8	4.65	5.0	60°												☆	★				



shallow groove machining



THF16R025-005
THF16R050-005
THF16R075-005
THF16R100-005
THF16R125-010
THF16R150-010
THF16R175-010
THF16R200-010
THF16R225-010
THF16R250-010
THF16R300-010
THF16L025-005
THF16L050-005
THR16R200-100R
THR16R300-150R
THR16L200-100R
THR16L300-150R
THR22R100-050R
THR22R150-075R
THR22R200-100R
THR22R250-125R
THR22R300-150R
THR22R400-200R
THR22L100-050R
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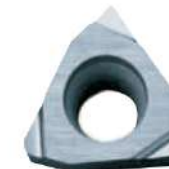
Parting & grooving



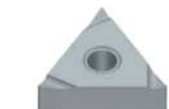
Back turning



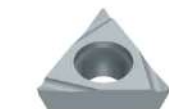
Ultra finishing



Ultra finishing



Ultra finishing

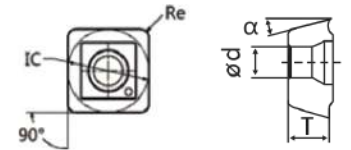


Pipe-stripping machining



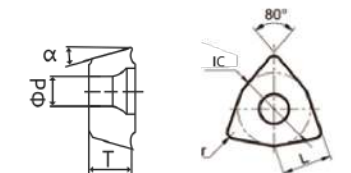
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HBS15R4005
HBS15R4015
WBGT060101L-XF
WBGT060102L-XF
WBGT060104L-XF
TNGG160402R-XS
TNGG160402L-XS
TNGG160404R-XS
TNGG160404L-XS
TNGG160408R-XS
TNGG160408L-XS
TBGT060101R
TBGT060101L
TBGT060102R
TBGT060102L
TBGT060104R
TBGT060104L
HDUB250414-BG
HDUB250417-BG
HDUB250422-BG
HDUB250430-BG
HDUB250440-BG
HDUB250450-BG

Drilling



● Good working condition ● Normal working condition ■ Bad working condition

Shape	Description	Specification					CVD Coating					PVD Coating					Cutting Parameters	
							HS8115	HS8125	HS8123	HS8133	HS6115	HS6120	HS7120	HS5115	HS5120	HS5130	HS5131	HS5125
		IC	T	r	ød	α												(mm)
	SPMG050204DG	11.5	4.3	0.8	4.5	16.5°												0.04-0.15
	SPMG060204DG	9.8	4.3	0.8	4.05	17.5°												0.04-0.16
	SPMG07T308DG	7.94	3.97	0.8	2.85	15.5°												0.04-0.20
	SPMG090408DG	6	2.38	0.4	2.61	14°												0.06-0.25
	SPMG110408DG	5	2.38	0.4	2.25	14°												0.06-0.28



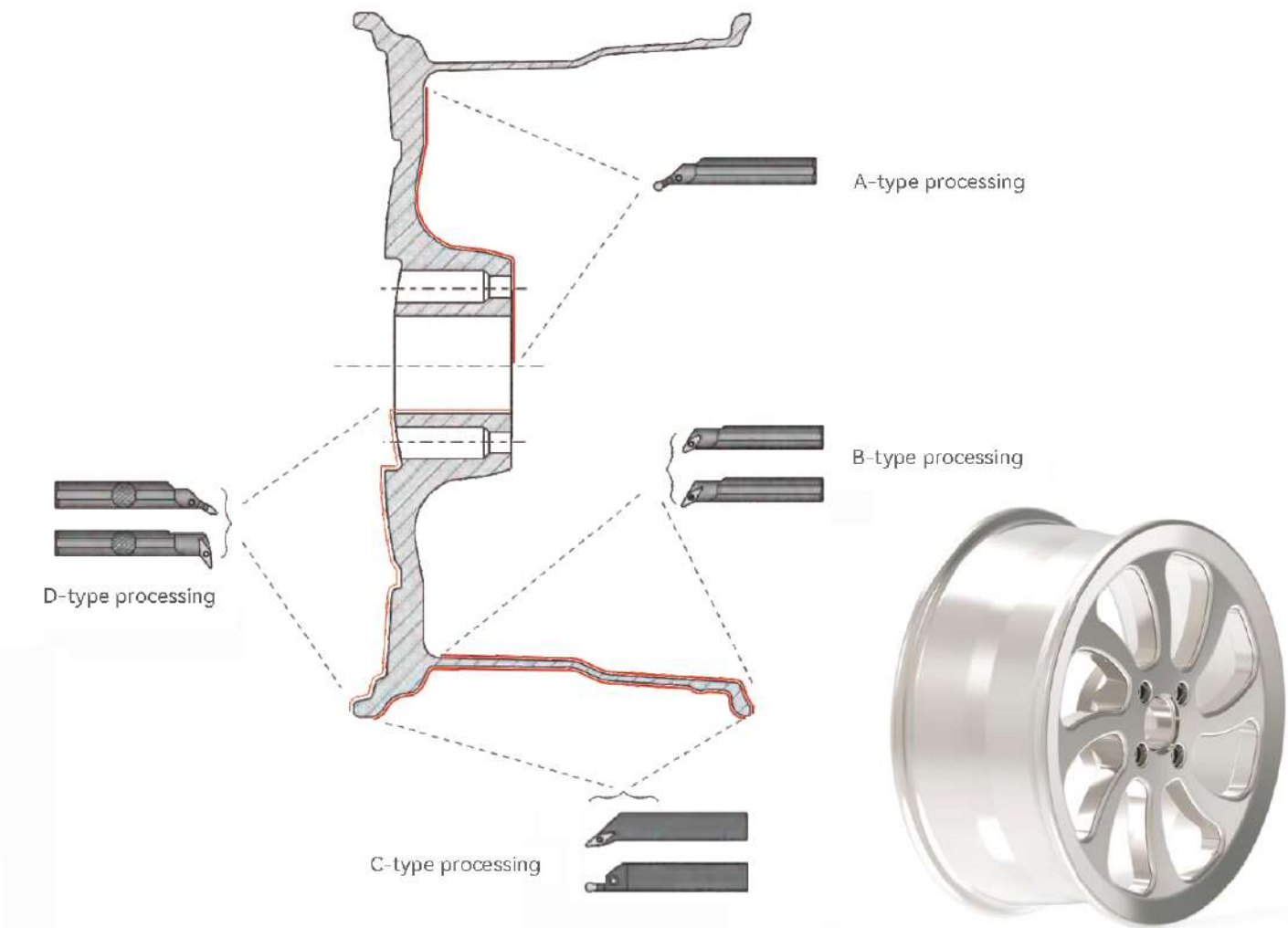
● Good working condition ● Normal working condition ■ Bad working condition

Shape	Description	Specification					CVD Coating					PVD Coating					Cutting Parameters	
							HS8115	HS8125	HS8123	HS8133	HS6115	HS6120	HS7120	HS5115	HS5120	HS5130	HS5131	HS5125
		(mm)	(mm/r)															
				IC	T	r												
	WCMX030204	5.56	2.38	0.8	2.8	7								●				0.04-0.15
	WCMX030208	5.56	2.38	0.8	2.8	7								●				0.04-0.15
	WCMX040204	6.35	2.38	0.8	3	7								●				0.04-0.16
	WCMX040208	6.35	2.38	0.8	3	7								●				0.04-0.16
	WCMX050308	7.94	3.18	0.8	3.4	7								●				0.04-0.20
	WCMX06T308	9.525	3.97	0.8	3.8	7								●				0.06-0.25
	WCMX080412	12.7	4.76	1.2	4.4	7								●				0.06-0.28

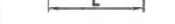
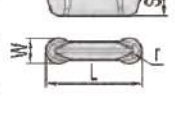
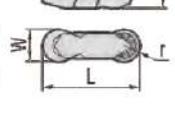
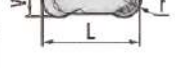
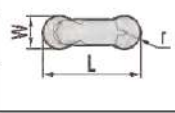
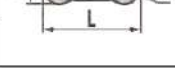
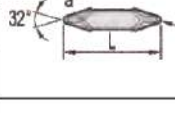
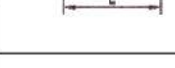
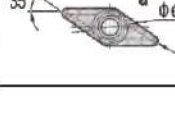
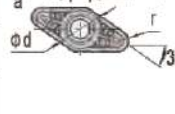
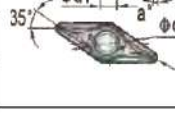


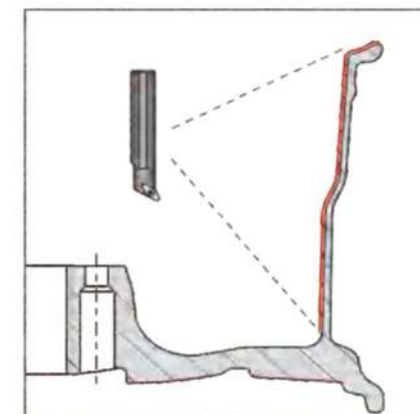
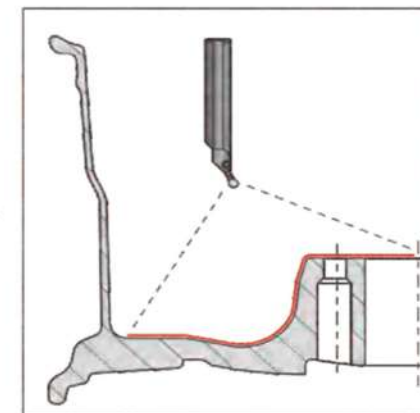
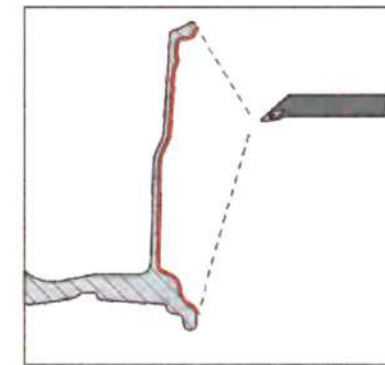
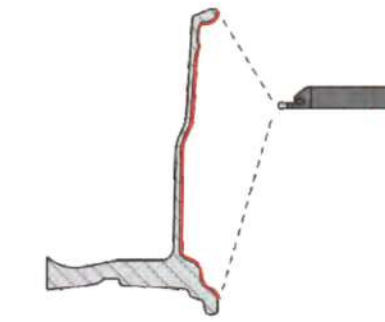
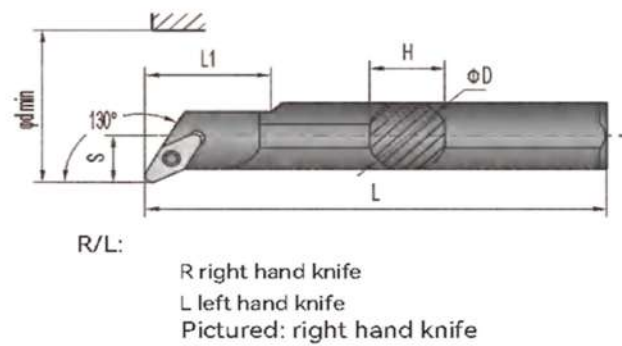
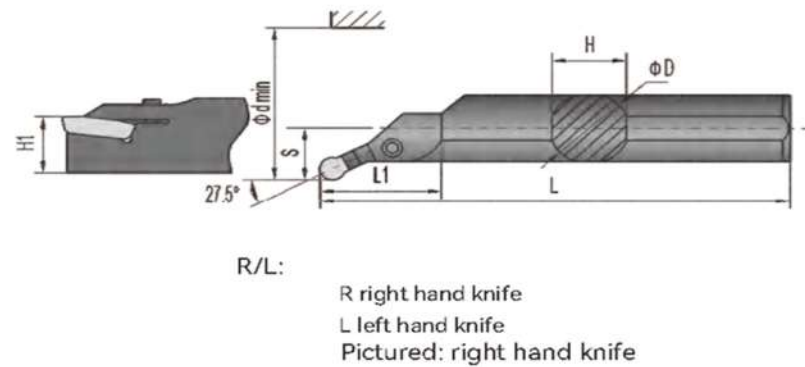
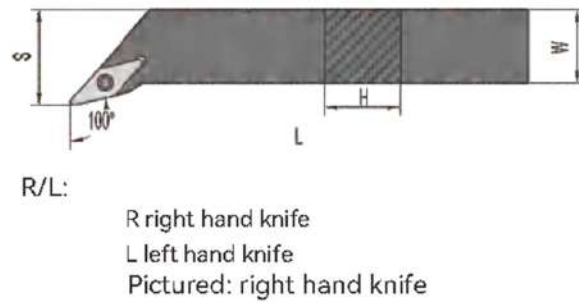
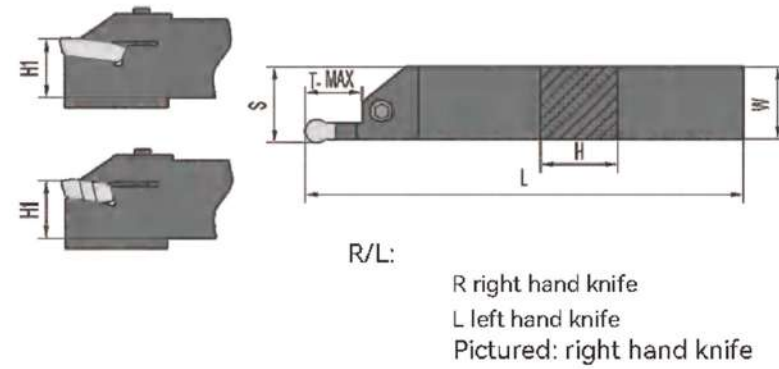
Pipe-stripping machining





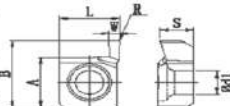
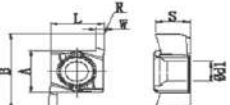
GDMA840-AF (General processing)	GDMA840-AL (Semi-finishing)	GDMA840-AN (Semi-finishing)
		
Large rake angle, sharp cutting edge with open chip breaker	Large rake angle, sharp cutting edge with closed chip breaker	Large rake angle, sharp cutting edge with closed chip breaker
GIP600-300-LH (General processing)	GIP600E-300-AL (Semi-finishing)	GIPATYZ-35V-1.2-LHC
		
Large rake angle, sharp cutting edge with open chip breaker	Large rake angle, sharp cutting edge with closed chip breaker	Large rake angle, large clearance angle
VCGT...-N1 (General processing)	VCGT...-N3 (Roughing)	VCGT...-LHK (Chip-breaking processing)
		
Wave mode chip pocket, sharp cutting edge	Sharp cutting edge, wide chip pocket	Large rake angle, sharp cutting edge with open chip breaker

Application	Shape	Specification	Coated cemented carbide		Dimension							Geometry
			BP5205	BP5215	L	W	d	s	d1	r	a°	
Aluminum wheel hub machining		GDMA840E-AL	☆	★	30.00	8.00	-	6.89	-	4.00	-	
												
												
		GDMA840E-AF	☆	★	30.00	8.00	-	6.89	-	4.00	-	
												
												
		GIP600-300-AL		★	18.00	6.00	-	6.50	-	3.00	-	
												
												
		GIP600-300-LHC	★	☆	18.00	6.00	-	6.50	-	3.00	-	
												
												
		GIPATYZ-35V-1.2-LH	★		30.00	6.00	-	7.00	-	1.20	-	
												
												
		VCGT160408-N3	★		-	-	9.525	4.76	4.40	0.80	7	
		VCGT160412-N3	★		-	-	9.525	4.76	4.40	1.20	7	
		VCGT220530-N3		★	-	-	12.70	5.56	5.50	3.00	7	
		VCGT220530E-N3	☆	★	-	-	12.70	5.56	5.50	3.00	7	
		VCGT160408-N1	★		-	-	9.525	4.76	4.40	1.20	7	
		VCGT160412-N1	★				9.525	4.76	4.40	1.20	7	
		VCGT220520-N1	★				12.70	5.56	5.50	2.00	7	
		VCGT220530-N1	★	☆			12.70	5.56	5.50	3.00	7	
		VCGT220530E-N1	★	☆			12.70	5.56	5.50	3.00	7	
		VCGT160412-LHK	★		-	-	9.525	5.56	5.50	1.20	7	
		VCGT220530-LHK	☆	★			12.70	5.56	5.50	3.00	7	
		VPGT220516-LHK		★			12.70	5.56	5.50	1.60	11	
		VPGT220612E-LHC	★		-	-	12.70	6.35	5.50	1.20	11	
												
												

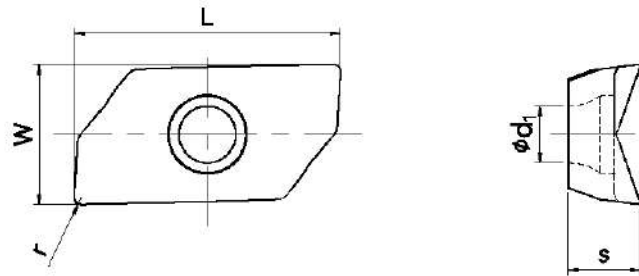


Profile	Specification	Dimension						Grade		Geometry
		W	W1	S	d1	A	R	BG2205	BG2225	
	TKF12R/L100-S	1.00	3.00	8.70	5.00	0°	0.05		★	
	TKF12R/L150-S	1.50	3.00	8.70	5.00	0°	0.05		★	
	TKF12R/L200-S	2.00	3.00	8.70	5.00	0°	0.05		★	
	TKF12R/L250-S	2.50	3.00	8.70	5.00	0°	0.05		★	
	TKF16R/L100-S	1.00	4.00	9.50	5.00	0°	0.05		★	
	TKF16R/L150-S	1.50	4.00	9.50	5.00	0°	0.05		★	
	TKF16R/L200-S	2.00	4.00	9.50	5.00	0°	0.05		★	
	TKF16R/L250-S	2.50	4.00	9.50	5.00	0°	0.05		★	
	TKF12R/L100-S-16DR	1.00	3.00	8.70	5.00	16°	0.05		★	
	TKF12R/L150-S-16DR	1.50	3.00	8.70	5.00	16°	0.05		★	
	TKF12R/L200-S-16DR	2.00	3.00	8.70	5.00	16°	0.05		★	
	TKF12R/L250-S-16DR	2.50	3.00	8.70	5.00	16°	0.05		★	
	TKF16R/L100-S-16DR	1.00	4.00	9.50	5.00	16°	0.05		★	
	TKF16R/L150-S-16DR	1.50	4.00	9.50	5.00	16°	0.05		★	
	TKF16R/L200-S-16DR	2.00	4.00	9.50	5.00	16°	0.05		★	
	TKF16R/L250-S-16DR	2.50	4.00	9.50	5.00	16°	0.05		★	

Profile	Specification	Dimension						Grade		Geometry
		D	S	d1	B	W	R	BG2205	BG2225	
	TGF32R/L-100-010	9.525	3.18	4.40	2.00	1.00	0.10		★	
	TGF32R/L-200-010	9.525	3.18	4.40	2.00	2.00	0.10		★	
	TGF43R/L-100-010	12.70	4.76	5.50	4.00	1.00	0.10		★	
	TGF43R/L-200-010	12.70	4.76	5.50	4.00	2.00	0.10		★	

Profile	Specification	Dimension							Grade		Geometry
		A	B	L	S	d1	W	R	BG2205	BG2225	
	ZGF7R100	5.56	7.36	5.56	3.08	2.58	1.00	0.20		★	
	ZGF7R150	5.56	7.36	5.56	3.08	2.58	1.50	0.20		★	
	ZGF7R200	5.56	7.36	5.56	3.08	2.58	2.00	0.20		★	
	ZGF7R250	5.56	7.36	5.56	3.08	2.58	2.50	0.20		★	
	ZGF8R100	5.56	10.16	6.15	3.87	2.58	1.00	0.20		★	
	ZGF8R150	5.56	10.16	6.15	3.87	2.58	1.50	0.20		★	
	ZGF8R200	5.56	10.16	6.15	3.87	2.58	2.00	0.20		★	
	ZGF8R250	5.56	10.16	6.15	3.87	2.58	2.50	0.20		★	
	ZGF9R100	6.35	12.95	7.74	4.66	2.86	1.00	0.20		★	
	ZGF9R150	6.35	12.95	7.74	4.66	2.86	1.50	0.20		★	
	ZGF9R200	6.35	12.95	7.74	4.66	2.86	2.00	0.20		★	
	ZGF9R250	6.35	12.95	7.74	4.66	2.86	2.50	0.20		★	

Mold Machining Mill APMT Series Insert



Insert	Type	Dimension (mm)						P		M		K		N		S	
		L	W	S	d1	r		BPJ208	BPJ206	BPJ206	BPJ206	BPJ208	BPJ11E	BPJ208	BPJ11E	BPJ208	BPJ11E
	APMT1135PDER-M2	11.2	6.2	3.5	2.8	0.8		★	☆	★	☆	☆	★	☆	☆		
	APMT1604PDER-M2	17.2	9.3	4.76	4.4	0.8		★	☆	★	☆	☆	★	☆	☆		
	APMT1135PDER-EM	11.2	6.2	3.5	2.8	0.8		★			★						
	APMT1604PDER-EM	17.25	9.3	5.3	4.4	0.8		★			★						
	APMT1135PDER-H2	11.2	6.2	3.5	2.8	0.8		★	☆	★	☆	☆	★	☆	☆		
	APMT1604PDER-H2	17.15	9.3	4.76	4.4	0.8		★	☆	★	☆	☆	★	☆	☆		
	APMT1604PDER-H6	17.15	9.3	4.76	4.4	3.1		★				★					

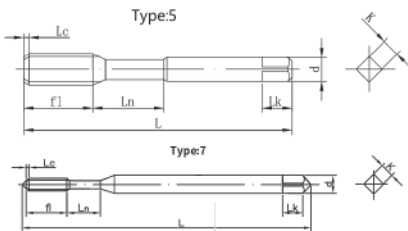
Insert	Type	Dimension (mm)							P		M		K		N		S	
		L	W	d1	s	R	r		BM6220	BM6230	BM6220	BM6230	BM6220	BM6230	BM6220	BM6230	BM6220	BM6230
	XOMT1202R6-MM	11.47	5.18	2	2.38	6	0.5				★	★					★	
	XOMT1503R8-MM	15.1	6.83	2.8	3.18	8	0.8				★	★					★	
	XOMT19T3R10-MM	19.04	8.59	3.5	3.97	10	1				★	★					★	

Insert	Type	Dimension (mm)								P		M		K		N		S	
		L	W	d	s	d1	r	bs		BPJ05E	BPJ20E	BPJ05E	BPJ20E	BPJ05E	BPJ20E	BPJ05E	BPJ20E	BPJ05E	BPJ20E
	SPKN1203EDSR-SU	-	-	12.70	3.18	2.60	1.0			☆	★	☆	★	☆	★	☆	★		
	SPKN1504EDSR-SU	-	-	15.88	4.76	2.60	1.20			☆	★	☆	★	☆	★	☆	★		

insert		Specification	Grade			Cutting	
Application	Geometries Shape		BPJ6215	BPJ6225	BPJ6315	Feed speed	Depth of axial cutting
	S1	TNGG160402R-S1	★		★	0.08-0.2	0.1-0.8
		TNGG160402L-S1	★		★	0.08-0.2	0.1-0.8
		TNGG160404R-S1	★		★	0.08-0.2	0.1-0.8
		TNGG160404L-S1	★		★	0.08-0.2	0.1-0.8
		TNGG160408R-S1	★		★	0.08-0.2	0.1-0.8
		TNGG160408L-S1	★		★	0.08-0.2	0.1-0.8
	P1	TNGG160402R-P1	★		☆	0.03-0.15	0.2-1.0
		TNGG160402L-P1	★		☆	0.03-0.15	0.2-1.0
		TNGG160404R-P1	★		☆	0.03-0.15	0.2-1.0
		TNGG160404L-P1	★		☆	0.03-0.15	0.2-1.0
		TNGG160408R-P1	★		☆	0.03-0.15	0.2-1.0
		TNGG160408L-P1	★		☆	0.03-0.15	0.2-1.0
	C1	TNGG160402R-C1	★		☆	0.12-0.25	0.8-1.8
		TNGG160402L-C1	★		☆	0.12-0.25	0.8-1.8
		TNGG160404R-C1	★		☆	0.12-0.25	0.8-1.8
		TNGG160404L-C1	★		☆	0.12-0.25	0.8-1.8
		TNGG160408R-C1	★		☆	0.12-0.25	0.8-1.8
		TNGG160408L-C1	★		☆	0.12-0.25	0.8-1.8
		SNGG120402R-C1	★		☆	0.12-0.25	0.8-1.8
		SNGG120404R-C1	★		☆	0.12-0.25	0.8-1.8
		SNGG120402L-C1	★		☆	0.12-0.25	0.8-1.8
		SNGG120404L-C1	★		☆	0.12-0.25	0.8-1.8
		VNGG160402R-C1	★		☆	0.12-0.25	0.8-1.8
		VNGG160404R-C1	★		☆	0.12-0.25	0.8-1.8
		TPGH080202L-S	★		☆	0.03-0.12	0.1-0.8
		TPGH090202L-S	★		☆	0.03-0.12	0.1-0.8
		TPGH090204L-S	★		☆	0.03-0.12	0.1-0.8
		TPGH110302L-S	★		☆	0.03-0.12	0.1-0.8
		TPGH110304L-S	★		☆	0.03-0.12	0.1-0.8
		TCGT110202L-S	★		☆	0.03-0.12	0.1-0.8
		TCGT110204L-S	★		☆	0.03-0.12	0.1-0.8

Precision-ground insert

HSS Spiral Fluted Taps For Non-metal



- ◎ High-speed steel material;
- ◎ YC-C50 coating, smooth chip removal, excellent wear resistance.
- ◎ Suitable for processing non-ferrous metals, ADC, AC, ZDC, MC, Cu, BSC, etc.

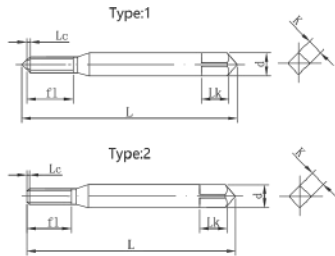


Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	fl	Ln	d	k	Lk	
M2×0.4	P2	2.5P	7	80	9	6	3	2.5	5	2
M2×0.4	P2	2.5P	7	100	9	6	3	2.5	5	2
M2.5×0.45	P2	2.5P	7	80	9	6	3	2.5	5	2
M2.5×0.45	P2	2.5P	7	100	9	6	3	2.5	5	2
M3×0.5	P2	2.5P	7	80	12	7	4	3.2	6	3
M3×0.5	P2	2.5P	7	100	12	7	4	3.2	6	3
M3×0.5	P2	2.5P	7	120	12	7	4	3.2	6	3
M3×0.5	P2	2.5P	7	150	12	7	4	3.2	6	3
M3.5×0.6	P2	2.5P	7	80	13	7	4	3.2	6	3
M3.5×0.6	P2	2.5P	7	100	13	7	4	3.2	6	3
M3.5×0.6	P2	2.5P	7	120	13	7	4	3.2	6	3
M3.5×0.6	P2	2.5P	7	150	13	7	4	3.2	6	3
M4×0.7	P2	2.5P	7	80	14	7	5	4	7	3
M4×0.7	P2	2.5P	7	100	14	7	5	4	7	3
M4×0.7	P2	2.5P	7	120	14	7	5	4	7	3
M4×0.7	P2	2.5P	7	150	14	7	5	4	7	3
M5×0.8	P2	2.5P	7	80	16	9	5.5	4.5	7	3
M5×0.8	P2	2.5P	7	100	16	9	5.5	4.5	7	3
M5×0.8	P2	2.5P	7	120	16	9	5.5	4.5	7	3
M5×0.8	P2	2.5P	7	150	16	9	5.5	4.5	7	3
M6×1	P2	2.5P	7	80	19.5	9.5	6	4.5	7	3
M6×1	P2	2.5P	7	100	19.5	9.5	6	4.5	7	3
M6×1	P2	2.5P	7	120	19.5	9.5	6	4.5	7	3
M6×1	P2	2.5P	7	150	19.5	9.5	6	4.5	7	3
M7X1	P3	2.5P	7	100	13	10	6.2	5	8	3
M7X1	P3	2.5P	7	120	13	10	6.2	5	8	3
M7X1	P3	2.5P	7	150	13	10	6.2	5	8	3
M8×1.25	P3	2.5P	5	100	22	15	6.2	5	8	3
M8×1.25	P3	2.5P	5	120	22	15	6.2	5	8	3
M8×1.25	P3	2.5P	5	150	22	15	6.2	5	8	3
M8×1	P3	2.5P	5	100	22	15	6.2	5	8	3
M8×1	P3	2.5P	5	120	22	15	6.2	5	8	3
M8×1	P3	2.5P	5	150	22	15	6.2	5	8	3
M10×1.5	P4	2.5P	5	100	24	19	7	5.5	8	3

P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
-	-	-	-	-	-	-	●	●	●	-	-	-



HSS Forming Taps For Steel



- 2P chamfers,for blind hole
- 4P chamfers,for through hole

- ◎ High-speed steel material;
- ◎ TiCN-AL coating, excellent wear resistance.
- ◎ Suitable for processing carbon steel and alloy steel below 30HRC.

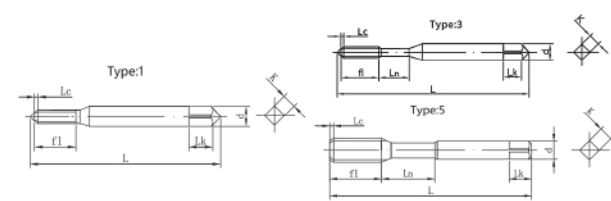


Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	fl	Ln	d	k	Lk	
M1×0.25	RH4	4P	1	32	4.5	—	3	2.5	3	-
M1×0.25	RH4	2P	2	31	3.5	—	3	2.5	3	-
M1.2×0.25	RH4	4P	1	32	4.5	—	3	2.5	3	-
M1.2×0.25	RH4	2P	2	31	3.5	—	3	2.5	3	-
M1.4×0.3	RH4	4P	1	37	6.5	—	3	2.5	3	-
M1.4×0.3	RH4	2P	2	36	6.5	—	3	2.5	3	-
M1.6×0.35	RH4	4P	1	37	8	—	3	2.5	3	-
M1.6×0.35	RH4	2P	2	35.5	8	—	3	2.5	3	-
M1.7×0.35	RH4	4P	1	37	8	—	3	2.5	3	-
M1.7×0.35	RH4	2P	2	35.5	8	—	3	2.5	3	-
M2×0.4	RH5	4P	1	45	10	—	3	2.5	3	-
M2×0.4	RH5	2P	2	43.5	10	—	3	2.5	3	-
M2.3×0.4	RH5	4P	1	45	10	—	3	2.5	3	-
M2.3×0.4	RH5	2P	2	43.5	10	—	3	2.5	3	-
M2.5×0.45	RH5	4P	1	45	13	—	3	2.5	3	-
M2.5×0.45	RH5	2P	2	43.5	13	—	3	2.5	3	-
M2.6×0.45	RH5	4P	1	45	13	—	3	2.5	3	-
M2.6×0.45	RH5	2P	2	43.5	13	—	3	2.5	3	-
M3×0.5	RH7	4P	1	50	16	—	4	3.2	6	-
M3×0.5	RH7	2P	2	48	16	—	4	3.2	6	-
M3.5×0.6	RH7	4P	1	50	16	—	4	3.2	6	-
M3.5×0.6	RH7	2P	2	48	16	—	4	3.2	6	-
M4×0.7	RH7	4P	1	57	18	—	5	4	7	-
M4×0.7	RH7	2P	2	55	18	—	5	4	7	-
M5×0.8	RH7	4P	1	66	20	—	5.5	4.5	7	-
M5×0.8	RH7	2P	2	63.5	20	—	5.5	4.5	7	-
M6×1	RH7	4P	1	69	27	—	6	4.5	7	2
M6×1	RH7	2P	2	66.5	27	—	6	4.5	7	2

Tolerances under 6H standard. Other tolerances and Special tap chamfer custom are available. More details, Please check with point of sales.

P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
●	●	●	-	-	-	-	-	-	-	-	-	-

HSS Spiral Pointed Taps For Stainless Steel



- ◎ High-speed steel material;
- ◎ YC-200 coating, suitable for difficult to machine stainless steel, excellent processing characteristics and wear resistance.
- ◎ Suitable for stainless steel 200 series, 300 series, etc.



Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	fl	Ln	d	k	Lk	
M1×0.25	P1	5P	1	37	4.5	-	3	2.5	3	2
M1.2×0.25	P1	5P	1	37	5.5	-	3	2.5	3	2
M1.4×0.3	P1	5P	1	37	9	-	3	2.5	3	2
M1.6×0.35	P2	5P	1	37	8	-	3	2.5	3	2
M2×0.4	P2	5P	1	45	11	-	3	2.5	3	2
M2.5×0.45	P2	5P	1	45	12	-	3	2.5	3	2
M3×0.5	P2	5P	3	50	12	7	4	3.2	6	3
M3.5×0.6	P2	5P	3	50	13	7	4	3.2	6	3
M4×0.7	P2	5P	3	57	14	7	5	4	7	3
M5×0.8	P2	5P	3	66	16	9	5.5	4.5	7	3
M6×1	P2	5P	3	69	19.5	9.5	6	4.5	7	3
M7×1	P3	5P	3	78	13	10	6.2	5	8	3
M8×1.25	P3	5P	5	70	22	15	6.2	5	8	3
M8×1	P3	5P	5	70	22	15	6.2	5	8	3
M10×1.5	P4	5P	5	75	24	19	7	5.5	8	3
M10×1.25	P3	5P	5	75	24	19	7	5.5	8	3
M10×1	P3	5P	5	75	24	19	7	5.5	8	3
M12×1.75	P4	5P	5	82	29	17	8.5	6.5	9	3
M12×1.5	P4	5P	5	82	29	17	8.5	6.5	9	3
M12×1.25	P4	5P	5	82	29	17	8.5	6.5	9	3
M12×1	P3	5P	5	82	29	17	8.5	6.5	9	3
M14×2	P5	5P	5	88	20	31	10.5	8	11	3
M14×1.5	P4	5P	5	88	20	31	10.5	8	11	3
M14×1.25	P4	5P	5	88	20	31	10.5	8	11	3
M14×1	P3	5P	5	88	20	31	10.5	8	11	3
M16×2	P5	5P	5	95	20	32	12.5	10	13	3
M16×1.5	P4	5P	5	95	20	32	12.5	10	13	3
M16×1.25	P4	5P	5	95	20	32	12.5	10	13	3
M16×1	P3	5P	5	95	20	32	12.5	10	13	3

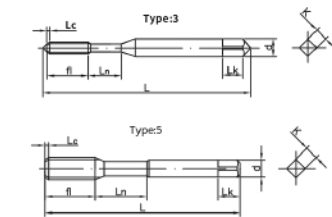
Tolerances under 6H standard. Other tolerances and Special tap chamfer custom are available. More details, Please check with point of sales.

Unit:mm



P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
-	-	-	-	●	-	-	-	-	-	-	-	-

HT Straight Fluted Taps For Cast Iron



- ◎ High-speed steel material;
- ◎ YC-T50 coating, excellent wear resistance.
- ◎ Suitable for gray cast iron, ductile cast iron mass continuous processing threading, high processing accuracy



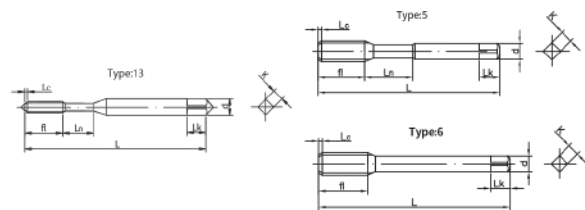
Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	fl	Ln	d	k	Lk	
M5×0.8	P3	2.5P	3	66	16	9	5.5	4.5	7	3
M6×1	P3	2.5P	3	69	19.5	9.5	6	4.5	7	3
M7×1	P3	2.5P	3	78	13	10	6.2	5	8	3
M8×1.25	P4	2.5P	5	70	22	15	6.2	5	8	3
M8×1	P4	2.5P	5	70	22	15	6.2	5	8	3
M10×1.5	P5	2.5P	5	75	24	19	7	5.5	8	4
M10×1.25	P4	2.5P	5	75	24	19	7	5.5	8	4
M10×1	P4	2.5P	5	75	24	19	7	5.5	8	4
M12×1.75	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1.5	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1.25	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1	P4	2.5P	5	82	29	17	8.5	6.5	9	4
M14×2	P6	2.5P	5	88	20	31	10.5	8	11	4
M14×1.5	P5	2.5P	5	88	20	31	10.5	8	11	4
M14×1.25	P5	2.5P	5	88	20	31	10.5	8	11	4
M14×1	P4	2.5P	5	88	20	31	10.5	8	11	4
M16×2	P6	2.5P	5	90	20	32	12.5	10	13	4
M16×1.5	P5	2.5P	5	90	20	32	12.5	10	13	4
M16×1.25	P5	2.5P	5	90	20	32	12.5	10	13	4
M16×1	P4	2.5P	5	90	20	32	12.5	10	13	4

Tolerances under 6H standard. Other tolerances and Special tap chamfer custom are available. More details, Please check with point of sales.

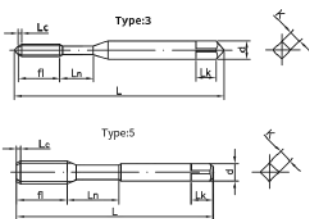
Unit:mm

P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
-	-	-	-	-	●	●	-	-	-	-	-	-





- ◎ Solid carbide material.
- ◎ Suitable for high-speed, long tool life mass production.
- ◎ Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.



- ◎ High-speed steel material;
- ◎ YC-T50 coating, excellent wear resistance.
- ◎ Suitable for gray cast iron, ductile cast iron mass continuous processing threading, high processing accuracy



Thread Size	Limit	LC	Type	L	(mm) Dimensions					Flutes
					fl	ln	d	k	Lk	
M4×0.7	P2	2.5P	13	63	13	8	4.5	3.4	6	3
M5×0.8	P2	2.5P	13	70	15	10	6	4.9	8	3
M6×1	P2	2.5P	13	80	17	13	6	4.9	8	3
M7×1	P3	2.5P	13	80	17	13	7	5.5	8	3
M8×1	P3	2.5P	5	90	16	19	8	6.2	9	3
M8×1.25	P3	2.5P	5	90	16	19	8	6.2	9	3
M10×1.5	P4	2.5P	5	90	18	21	10	8	11	3
M10×1.25	P3	2.5P	5	90	18	21	10	8	11	3
M12×1.75	P4	2.5P	6	110	22	—	9	7	10	3
M12×1.5	P4	2.5P	6	110	22	—	9	7	10	3
M12×1.25	P3	2.5P	6	110	22	—	9	7	10	3
M14×2	P5	2.5P	6	110	26	—	11	9	12	3
M14×1.5	P4	2.5P	6	110	22	—	11	9	12	3
M14×1.25	P3	2.5P	6	110	22	—	11	9	12	3
M16×2	P5	2.5P	6	110	27	—	12	9	12	3
M16×1.5	P4	2.5P	6	110	22	—	12	9	12	3
M16×1.25	P3	2.5P	6	110	18	—	12	9	12	3
M18×2.5	P6	2.5P	6	125	30	—	14	11	14	4
M18×2	P5	2.5P	6	125	26	—	14	11	14	4
M18×1.5	P4	2.5P	6	125	25	—	14	11	14	4
M20×2.5	P6	2.5P	6	140	32	—	16	12	15	4
M20×2	P5	2.5P	6	140	27	—	16	12	15	4
M20×1.5	P4	2.5P	6	140	25	—	16	12	15	4
M22×2.5	P6	2.5P	6	140	32	—	18	14.5	17	4
M22×2	P5	2.5P	6	140	27	—	18	14.5	17	4
M22×1.5	P4	2.5P	6	140	25	—	18	14.5	17	4
M24×3	P6	2.5P	6	140	34	—	18	14.5	17	4
M24×2	P5	2.5P	6	140	27	—	18	14.5	17	4
M24×1.5	P4	2.5P	6	140	27	—	18	14.5	17	4
M27×3	P6	2.5P	6	160	36	—	20	16	19	4
M30×3.5	P7	2.5P	6	180	40	—	22	18	21	4

Tolerances under 6HX standard.Other tolerances and Special tap chamfer custom are available. More details, please check with point of sales.

P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
-	-	-	-	-	-	-	●	●	●	-	-	-

Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	fl	ln	d	k	Lk	
M5×0.8	P3	2.5P	3	66	16	9	5.5	4.5	7	3
M6×1	P3	2.5P	3	69	19.5	9.5	6	4.5	7	3
M7×1	P3	2.5P	3	78	13	10	6.2	5	8	3
M8×1.25	P4	2.5P	5	70	22	15	6.2	5	8	3
M8×1	P4	2.5P	5	70	22	15	6.2	5	8	3
M10×1.5	P5	2.5P	5	75	24	19	7	5.5	8	4
M10×1.25	P4	2.5P	5	75	24	19	7	5.5	8	4
M10×1	P4	2.5P	5	75	24	19	7	5.5	8	4
M12×1.75	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1.5	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1.25	P5	2.5P	5	82	29	17	8.5	6.5	9	4
M12×1	P4	2.5P	5	82	29	17	8.5	6.5	9	4
M14×2	P6	2.5P	5	88	20	31	10.5	8	11	4
M14×1.5	P5	2.5P	5	88	20	31	10.5	8	11	4
M14×1.25	P5	2.5P	5	88	20	31	10.5	8	11	4
M14×1	P4	2.5P	5	88	20	31	10.5	8	11	4
M16×2	P6	2.5P	5	90	20	32	12.5	10	13	4
M16×1.5	P5	2.5P	5	90	20	32	12.5	10	13	4
M16×1.25	P5	2.5P	5	90	20	32	12.5	10	13	4
M16×1	P4	2.5P	5	90	20	32	12.5	10	13	4

Tolerances under 6H standard. Other tolerances and Special tap chamfer custom are available. More details, Please check with point of sales.

P	P	P	SCM	M	K	K	N	N	N	S	S	H
alloy steel	carbon steel	high carbon	<HRC35	SUS	FC	FCD	AL	Cu	ADC	Ti	Ni	>HRC35
-	-	-	-	-	●	●	-	-	-	-	-	-

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IMPROVE PRODUCTIVITY
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PRODUCT GROUP

01

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ทูลขนาดเล็กพิเศษ



02

SPECIAL ENDMILLS

เอ็นมิลสั่งทำพิเศษ



03

SPECIAL PCD MCD CBN Diamond

ความแข็งเทียบเพชรพิเศษ



04

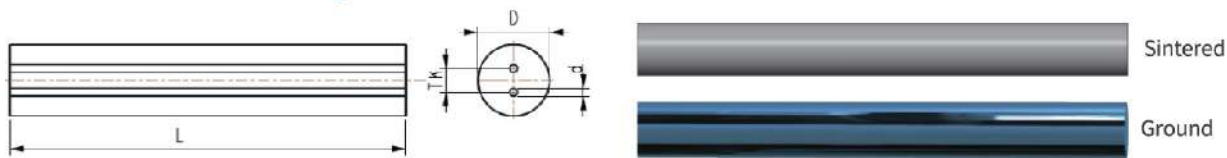
SPECIAL TOOLING SYSTEM

ระบบจับยึดและอุปกรณ์พิเศษ



ONE STOP SOLUTION ครบจบในที่เดียว เพื่อการผลิตที่เหนือกว่า

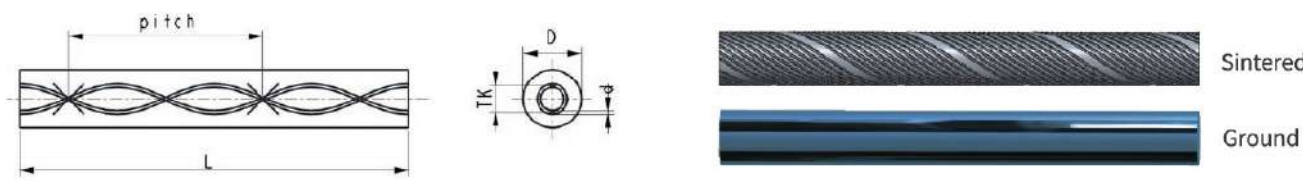
Carbide Rod Coolant Holes



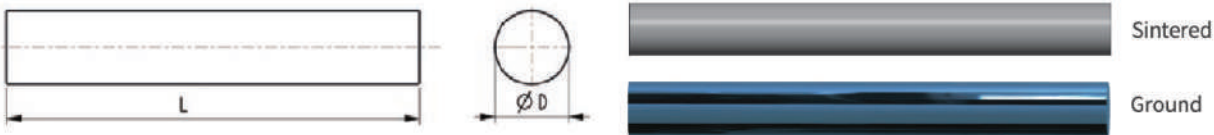
ØD	TOL.		Ød	TOL.	TKØ	TOL.	Length	Grade	
D(mm)	Sintered	Ground	d(mm)	TOL.	TK(mm)	TOL.	L(+5mm)	AK46	AK40
4.2	+0.0/+0.2	φ4 (h6)	0.80	±0.10	1.9	±0.20	330	●	
5.2	+0.0/+0.2	φ5 (h6)	0.80	±0.10	1.92	±0.20	330	●	
6.2	+0.0/+0.2	φ6 (h6)	1.00	±0.10	2.90	±0.20	330	●	
7.2	+0.0/+0.3	φ7 (h6)	1.00	±0.10	3.40	±0.30	330	●	
8.2	+0.0/+0.3	φ8 (h6)	1.00	±0.10	3.85	±0.30	330	●	
9.2	+0.0/+0.3	φ9 (h6)	1.40	±0.15	3.85	±0.30	330	●	
10.2	+0.0/+0.3	φ10 (h6)	1.40	±0.15	4.85	±0.30	330	●	
11.2	+0.0/+0.3	φ11 (h6)	1.40	±0.15	5.85	±0.40	330	●	
12.2	+0.1/+0.4	φ12 (h6)	1.75	±0.20	5.85	±0.40	330	●	
13.2	+0.1/+0.4	φ13 (h6)	1.75	±0.20	5.85	±0.40	330	●	
14.2	+0.1/+0.4	φ14 (h6)	1.75	±0.20	6.85	±0.40	330	●	
15.2	+0.1/+0.4	φ15 (h6)	2.00	±0.20	6.85	±0.40	330	●	
16.2	+0.1/+0.5	φ16 (h6)	2.00	±0.20	7.85	±0.40	330	●	
17.2	+0.1/+0.5	φ17 (h6)	2.00	±0.20	7.85	±0.40	330	●	
18.2	+0.1/+0.5	φ18 (h6)	2.00	±0.20	8.85	±0.40	330	●	
19.2	+0.1/+0.5	φ19 (h6)	2.00	±0.20	8.85	±0.40	330	●	
20.2	+0.1/+0.5	φ20 (h6)	2.50	±0.30	9.80	±0.40	330	●	
21.2	+0.1/+0.5	φ21 (h6)	2.50	±0.30	9.80	±0.40	330	●	
22.2	+0.2/+0.6	φ22 (h6)	2.50	±0.30	10.80	±0.50	330	●	
23.2	+0.2/+0.6	φ23 (h6)	2.50	±0.30	10.80	±0.50	330	●	
24.2	+0.2/+0.6	φ24 (h6)	3.00	±0.30	11.75	±0.50	330	●	
25.2	+0.2/+0.6	φ25 (h6)	3.00	±0.30	11.75	±0.50	330	●	
26.2	+0.2/+0.6	φ26 (h6)	3.00	±0.30	12.75	±0.50	330	●	
28.2	+0.2/+0.6	φ28 (h6)	3.00	±0.30	13.75	±0.50	330	●	
30.2	+0.5/+1.1	φ30 (h6)	3.00	±0.30	13.75	±0.50	330	●	
32.2	+0.5/+1.1	φ32 (h6)	3.00	±0.30	13.75	±0.50	330	●	



Carbide Rod Coolant Holes



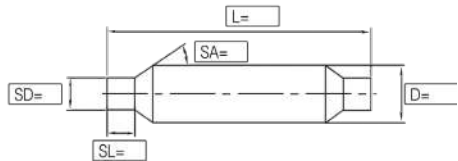
ØD	TOL.			Ød	TOL.	TKØ	TOL.	Lead	Length
D(mm)	毛坯 Sintered	粗磨 Rough Grind	精磨 Ground	d(mm)	TOL.	TK(mm)	TOL.	PITCH	L(+5mm)
3.3	+0.4~+1	+0.05~+0.35	φ3(h6)	0.40	±0.10	1.20	±0.10	16.32	330
4.3	+0.4~+1	+0.05~+0.35	φ4(h6)	0.60	±0.10	1.30	±0.10	21.77	330
4.3	+0.4~+1	+0.05~+0.35	φ4(h6)	0.50	±0.10	1.65	±0.15	21.77	330
4.3	+0.4~+1	+0.05~+0.35	φ4(h6)	0.70	±0.10	2.10	±0.15	21.77	330
5.3	+0.5~+1.1	+0.05~+0.35	φ5(h6)	0.70	±0.10	2.40	±0.15	27.21	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.50	±0.10	1.60	±0.15	32.65	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.50	±0.10	1.80	±0.15	32.65	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.60	±0.10	1.30	±0.10	32.65	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.70	±0.10	2.40	±0.15	32.65	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.80	±0.10	2.70	±0.20	32.65	330
6.3	+0.5~+1.1	+0.15~+0.45	φ6(h6)	0.90	±0.10	2.60	±0.20	32.65	330
7.3	+0.5~+1.1	+0.15~+0.45	φ7(h6)	1.00	±0.10	3.50	±0.30	38.09	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	0.70	±0.10	2.40	±0.15	43.53	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	1.00	±0.10	3.10	±0.30	43.53	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	1.00	±0.10	3.40	±0.30	43.53	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	1.00	±0.10	3.80	±0.30	43.53	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	1.15	±0.15	3.70	±0.30	43.53	330
8.3	+0.6~+1.2	+0.15~+0.45	φ8(h6)	1.25	±0.15	3.80	±0.30	43.53	330
9.3	+0.6~+1.2	+0.15~+0.45	φ9(h6)	0.70	±0.10	2.40	±0.15	48.97	330
9.3	+0.6~+1.2	+0.15~+0.45	φ9(h6)	1.40	±0.15	4.50	±0.30	48.97	330
10.3	+0.6~+1.2	+0.15~+0.45	φ10(h6)	0.80	±0.10	2.40	±0.15	54.41	330
10.3	+0.6~+1.2	+0.15~+0.45	φ10(h6)	1.00	±0.10	3.50	±0.30	54.41	330
10.3	+0.6~+1.2	+0.15~+0.45	φ10(h6)	1.40	±0.15	4.50	±0.30	54.41	330
10.3	+0.6~+1.2	+0.15~+0.45	φ10(h6)	1.30	±0.15	4.80	±0.30	54.41	330
10.3	+0.6~+1.2	+0.15~+0.45	φ10(h6)	1.40	±0.15	4.90	±0.30	54.41	330
11.3	+0.6~+1.2	+0.15~+0.45	φ11(h6)	1.40	±0.15	4.90	±0.30	59.86	330
11.3	+0.6~+1.2	+0.15~+0.45	φ11(h6)	1.40	±0.15	5.70	±0.40	59.86	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.00	±0.10	3.00	±0.20	65.30	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.00	±0.10	3.50	±0.30	65.30	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.00	±0.10	3.80	±0.30	65.30	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.40	±0.15	5.85	±0.40	65.30	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.75	±0.20	5.85	±0.40	65.30	330
12.3	+0.6~+1.2	+0.15~+0.45	φ12(h6)	1.70	±0.20	6.30	±0.40	65.30	330



TOL.			Length	TOL.			Length
ØD	Sintered	Ground		ØD	Sintered	Ground	
D(mm)			L(+5mm)	D(mm)			L(+5mm)
2.2	+0.0/+0.2	φ2(h6)	330	13.2	+0.1/+0.4	φ13(h6)	330
2.7	+0.0/+0.2	--	330	13.7	+0.1/+0.4	--	330
3.2	+0.0/+0.2	φ3(h6)	330	14.2	+0.1/+0.4	φ14(h6)	330
3.7	+0.0/+0.2	--	330	14.7	+0.1/+0.4	--	330
4.2	+0.0/+0.2	φ4(h6)	330	15.2	+0.1/+0.4	φ15(h6)	330
4.7	+0.0/+0.2	--	330	16.2	+0.1/+0.5	φ16(h6)	330
5.2	+0.0/+0.2	φ5(h6)	330	17.2	+0.1/+0.5	φ17(h6)	330
5.7	+0.0/+0.2	--	330	18.2	+0.1/+0.5	φ18(h6)	330
6.2	+0.0/+0.2	φ6(h6)	330	19.2	+0.1/+0.5	φ19(h6)	330
6.7	+0.0/+0.2	--	330	20.2	+0.1/+0.5	φ20(h6)	330
7.2	+0.0/+0.3	φ7(h6)	330	21.2	+0.1/+0.5	φ21(h6)	330
7.7	+0.0/+0.3	--	330	22.2	+0.2/+0.6	φ22(h6)	330
8.2	+0.0/+0.3	φ8(h6)	330	23.2	+0.2/+0.6	φ23(h6)	330
8.7	+0.0/+0.3	--	330	24.2	+0.2/+0.6	φ24(h6)	330
9.2	+0.0/+0.3	φ9(h6)	330	25.2	+0.2/+0.6	φ25(h6)	330
9.7	+0.0/+0.3	--	330	26.2	+0.2/+0.6	φ26(h6)	330
10.2	+0.0/+0.3	φ10(h6)	330	27.2	+0.2/+0.6	φ27(h6)	330
10.7	+0.0/+0.3	--	330	28.2	+0.2/+0.6	φ28(h6)	330
11.2	+0.0/+0.3	φ11(h6)	330	29.2	+0.5/+1.1	φ29(h6)	330
11.7	+0.1/+0.4	--	330	30.2	+0.5/+1.1	φ30(h6)	330
12.2	+0.1/+0.4	φ12(h6)	330	32.2	+0.5/+1.1	φ32(h6)	330
12.7	+0.1/+0.4	--	330	33.2	+0.5/+1.1	φ33(h6)	330

Grade	Cobalt content %	Grain size	Density g/cm³	Hardness HRA	Hardness HV30	Transverse rupture strength	Fracture toughness MPa·m ^{1/2}
AK06	6	1.0	14.90	92.2	1640	2800	8.6
AK55	9	0.3	14.50	93.8	1960	3800	9.2
AK40	10	0.8	14.45	91.8	1580	3600	10.5
AK46	10	0.6	14.40	92.3	1660	3800	10.2
AK44F	12	0.4	14.15	92.6	1720	4200	9.8
AK47S	12	0.7	14.20	91.4	1560	4000	11.0
AK70	12	0.7	14.15	91.2	1520	4000	11.2
AK88	10	0.4	14.40	93.0	1800	3800	9.5

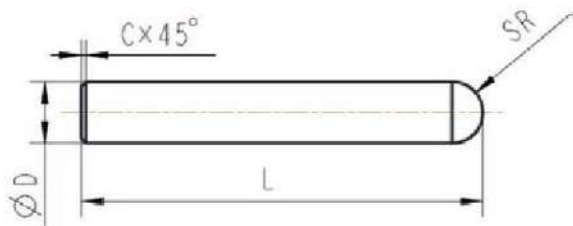
Rod with steps



Blanks for T-slot endmills

Application range: T-slot endmills
Processing range: Diameter Ø15.0-Ø32.0mm, length 100-160mm,
other sizes can be made according to the drawings.
Dimensional tolerance:
Diameter+0.4/0mm, bench diameter d±0.3mm
Length +2.0/0mm; bench length C±0.3mm

Grade	wt%	µm	g/cm³	HRA	MPa
AK40	10	0.8	14.45	91.8	3600
LD12	12.5	1~3	14.2	89.3	3800



Diameter		Length		C Tol.	Probe-radius	
ΦD	Tol.	L	Tol.		SR	Tol.
6.0	h6	58	0+1	0.5	3	0+0.38
6.0	h6	80	0+1	0.5	3	0+0.38
8.0	h6	64	0+1	0.6	4	0+0.38
8.0	h6	100	0+1	0.6	4	0+0.38
10.0	h6	73	0+1	0.6	5	0+0.38
10.0	h6	100	0+1	0.6	5	0+0.38
12.0	h6	84	0+1	0.8	6	0+0.38
12.0	h6	120	0+1	0.8	6	0+0.38
14.0	h6	84	0+1	0.8	7	0+0.38
14.0	h6	120	0+1	0.8	7	0+0.38
16.0	h6	93	0+1	0.8	8	0+0.38
16.0	h6	140	0+1	0.8	8	0+0.38
18.0	h6	93	0+1	0.8	9	0+0.38
18.0	h6	160	0+1	0.8	9	0+0.38
20.0	h6	105	0+1	1.0	10	0+0.38
20.0	h6	160	0+1	1.0	10	0+0.38



PCD grades and characteristics

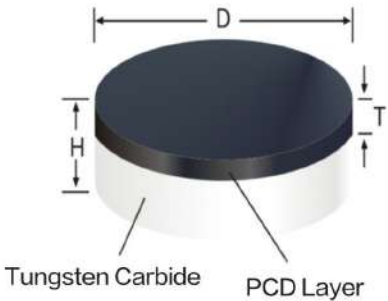
Grade	Grain Size (μm)	Available Dia (mm)	Characteristics	Applications	Microstructure
DC01	<1	52	Ultra-fine grain size, super chip resistance, excellent electrical conductivity and high-wear resistance	Aerospace, optics, electronics and other ultra-precision processing and ultra-high finish machining	
DC02	2	52	High chip resistance and high electrical conductivity	High precision processing in 3C industries and automobile, low silicon aluminum alloy, copper compounds and alloy, high edge sharpness and good degree of finish	
DC05	5	58	Good chip resistance and great electrical conductivity	Low silicon aluminum and copper alloy, plastics, and the processed materials need high surface finish with good wear resistance	
DM10	10	58	Good balance of chip resistance and electrical conductivity, better wear resistance	Universal application in metal working industry (aluminum alloys <14% of Si), machining of non-ferrous metals with better wear processing requirement.	
DM25	25	58	Good electrical conductivity and high wear resistance	Medium to high silicon content aluminum alloy, carbide, metal matrix composites, graphite and ceramics	
DM32	30+2	58	Mixed grain size, excellent wear resistance and good strength	For high wear resistance materials, high silicon aluminum alloys, high strength cast iron	

PCD performance

Grade	Grain size	Chip resistance	Wear resistance	Electrical conductivity
DC01	<1 μm			
DC02	2 μm			
DC05	5 μm			
DM10	10 μm			
DM25	25 μm			
DM32	30+2 μm			

PCD available dimensions

Total Thickness(H)				PCD Layer Thickness(T)			
Standard	1.6 mm	2.0 mm	3.2 mm	Standard	Thinner	Ultrathin	Thicker
Thinner	0.8 mm	1.0 mm	1.2 mm	0.5 mm	0.3 mm	0.2 mm	1.0 mm
Ultrathin	0.4 mm	0.5 mm	0.65 mm				
Thicker	4.0 mm	4.2 mm	4.8 mm				

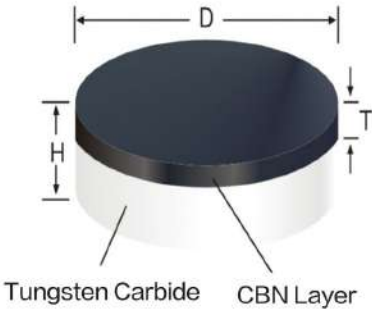


PCBN grades and characteristics

Grade	Grain Size (μm)	Available Dia (mm)	CBN (VOL%)	Characteristics	Applications	Microstructure
NB900	4	52	~90%	Ultimate wear resistance and high chip resistance	Suitable for interrupted machining of gray cast irons, ductile cast irons and high abrasion required working conditions	
NB800	2	52	~85%	Good balance of strength and wear resistance	High universality in interrupted machining, gray irons finish machining, valve seat alloys, powder metallurgy components, interrupted cutting of quenched steels	
NB600	3	52	~60%	Excellent chip resistance	Continuously and lightly interrupted cutting of quenched steels, high strength cast irons	
NB300	<2	52	~50%	Great thermal stability and wear resistance	High speed continuous cutting, cold work tool steels, high hardness steel components	

PCBN available dimensions

Available Dia. (mm)	CNB Layer Thickness(T) (mm)	Total Thickness(H) mm						
		1.0	1.2	1.6	2.0	2.5	3.2	4.8
52	0.7—0.9			●	●	●	●	●
	0.6—0.8		●	●	●			
	0.5—0.7	●	●	●				



Grinding Tools



Resin Hybrid Metal



CBN/Diamond

Type	Model
1A1	
1V1	
12V9	



1A1 Resin Bond Diamond&Cbn Grinding Wheel



1V1 Taper Edge Electroplated Diamond Grinding Wheel



14A1 Resin Bond Diamond&Cbn Grinding Wheel



11V9 Resin Bond Diamond&CBN Grinding Wheels



12V9 Resin Bond Diamond&CBN Grinding Wheel



Raceway Grinding Wheels on



Toolroom Grinding Wheels



Grinding Wheels for Linear Guide

Industrial Knives

Metal Industry Knives



Rotary Shear



Circular Shear

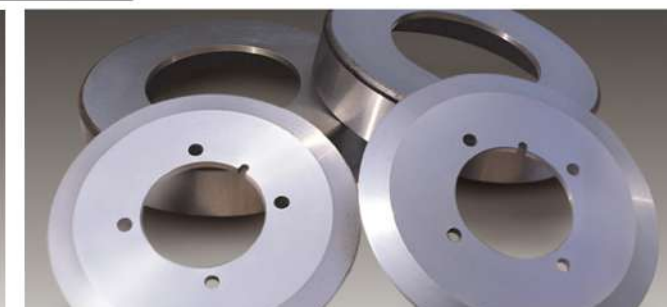


Single or Double Shear Blades

Printing & Paper Industry Knives



Trimmer Knives



Slitter Knives



Paper Cutting Knives



Guillotine Blades



Circular Blades

IC Industry Knives



Copper-foil Cutting Knives
L-Copper-foil Cutting Knives

STANDARD SIZES



TCT CIRCULAR SAW BLADE

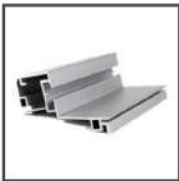
- High quality tungsten carbide tips
- Clean cuts with fewer sparks and burrs
- Cool cutting, good finish
- Designed with varying tooth counts and rake angles for specific applications
- Safer alternative to abrasive cut-off wheels



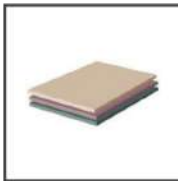
WPC Floor



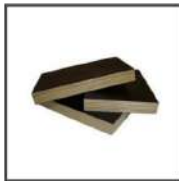
Aluminum



Non-ferrous



Gypsum Board



Laminate



Plastic

Size (inch)	D (mm)	B (mm)	d (mm)	Teeth
10'	255	3.0	25.4/30	100T
10'	255	3.0	25.4/30	120T
12'	305	3.0	25.4/30	100T
12'	305	3.0	25.4/30	120T
14'	355	3.2	25.4/30	100T
14'	355	3.2	25.4/30	120T
16'	405	3.5	25.4/30	100T
16'	405	3.5	25.4/30	120T
18'	455	4.0	25.4/30	100T
18'	455	4.0	25.4/30	120T
20'	500	4.4	25.4/30	120T
20'	500	4.4	25.4/30	144T
22'	550	4.8	25.4/30	120T
22'	550	4.8	25.4/30	144T
24'	600	4.8	25.4/30	120T
24'	600	4.8	25.4/30	144T

* Non-standard size can be customized. Please consult for details.



HSS Leopard

HSS LEOPARD circular saw blade, with higher adhesive resistance and heightened degree of hardness, which highly recommended for cutting standard metal pipes or tubes in automatic and semi-automatic machines. Its diameter varies between 250 mm and 500 mm.

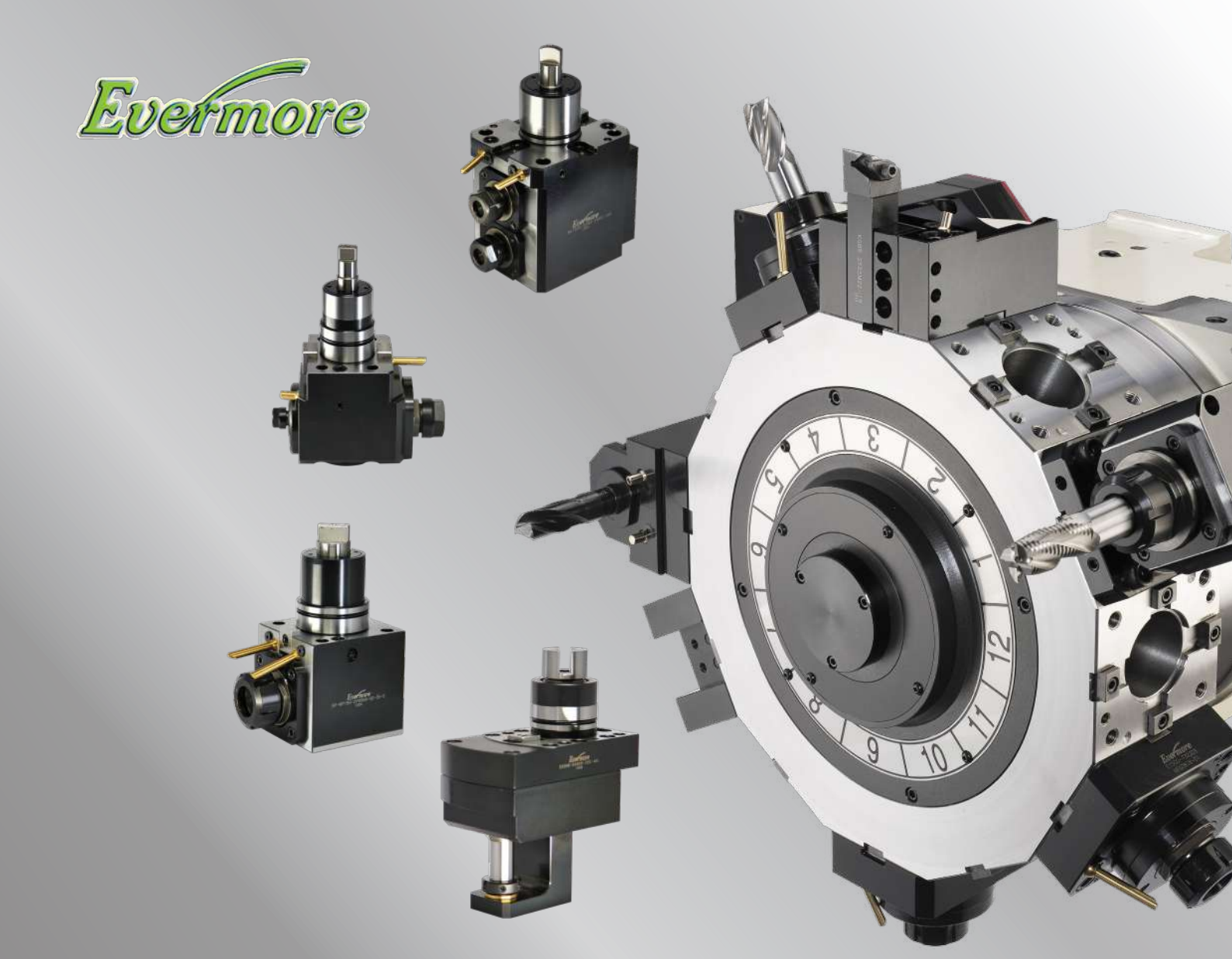
D (mm)	B (mm)	d (mm)	Z	Pin Hole
250	1.2/1.6/2.0/2.5	32	A/AW/B/BW	2/8/45+2/11/63
275	1.0/1.2/1.6/2.0/2.5	32	A/AW/B/BW	2/8/45+2/11/63
300	1.2/1.6/2.0/2.5	32/40	A/AW/B/BW/HZ	2/8/45+2/11/63, 2/8/45+2/9/50+2/11/63
315	1.6/2.0/2.5	32/40	A/AW/B/BW/HZ	2/8/45+2/11/63, 2/8/45+2/9/50+2/11/63
325	1.6/2.0/2.5	32/40	A/AW/B/BW/HZ	2/8/45+2/11/63, 2/8/45+2/9/50+2/11/63
350	2.0/2.5/3.0	32/40	A/AW/B/BW/CB	2/8/45+2/11/63, 2/8/55+4/12/64
375	2.0/2.5/3.0	32/40/50	A/AW/B/BW/CB	2/8/45+2/11/63, 2/8/55+4/12/64
400	2.0/2.5/3.0A	32/40/50	A/AW/B/BW/CB	2/8/45+2/11/63, 2/8/55+4/12/64
450	2.5/3.0	32/40/50	A/AW/B/BW/CB	4/15/80, 4/14/85+4/15/80
500	3.0/3.5	32/40/50	A/AW/B/BW/CB	4/15/80, 4/14/85+4/15/80



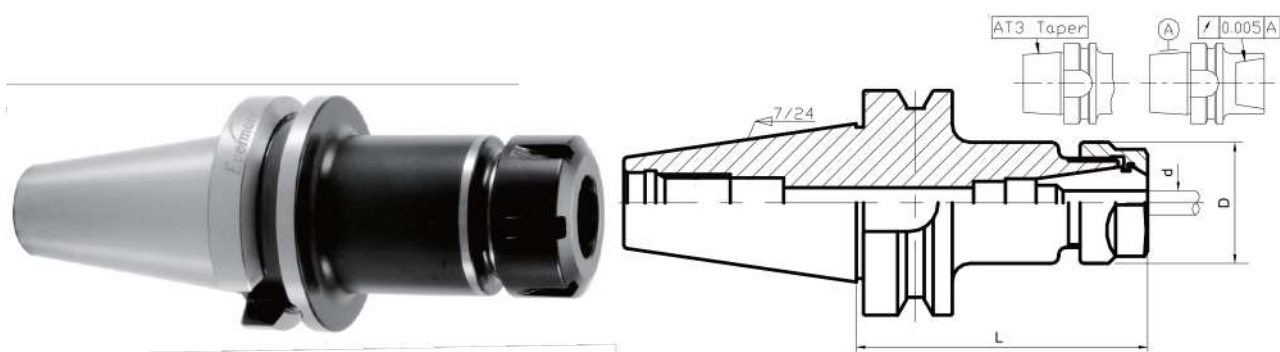
TCT Saw Blade

Each TCT saw blade has its own specifications, to ensure the sharpest cut and the longest life, every saw is specifically designed for each application. HAOJING offers TCT saw blade mounted with TCT tips for cutting along and across the grain of natural massive wood. Its diameter varies between 250 mm and 500 mm.

D (inch)	D (mm)	B (mm)	d (mm)	Teeth
4"	105	1.5/1.8	20.0	ATB, 24/30/40/48Z
6"	160	2.0	20.0	ATB, 24/48Z
6.5"	165	2.0	20.0	ATB, 24/48Z
7"	180	1.6	25.4	ATB, 40/60Z
7.5"	190	2.3	20.0	ATB, 24/48Z
8"	200	1.7	25.4	ATB, 40/60/80/100Z
9"	230	2.0	25.4	ATB, 40/60/80/100Z
10"	254	2.1	25.4	ATB, 40/60/80/100/120Z
12"	300	2.3	25.4/30.0	ATB, 40/60/80/100/120Z

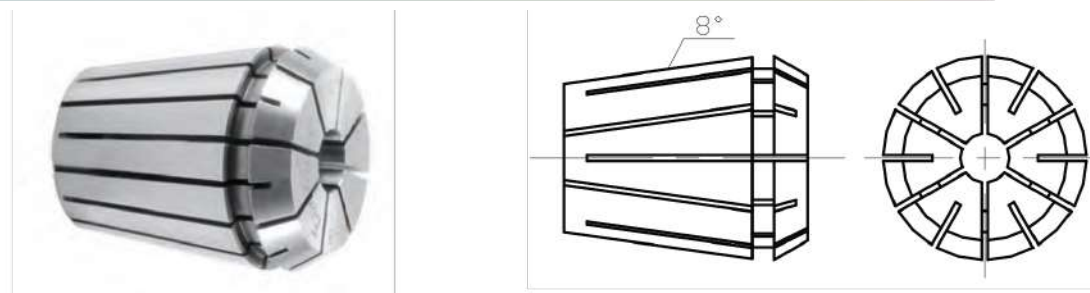


ER 彈性筒夾刀柄 - BT柄 ER COLLET HOLDERS - BT (MAS403) SHANK



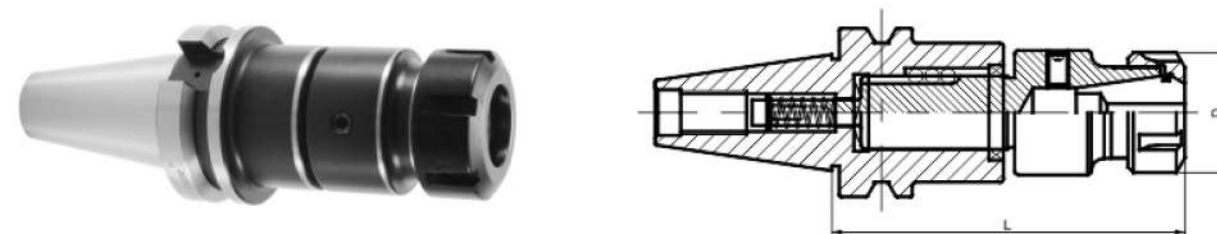
訂貨型號 Order Code	L	ØD	夾持範圍 Ød Clamping range	重量(Kg) Weight
BT30-ER11-60	60	19	2.5-7	0.5
-100	100			0.6
-ER16-45	45	30	2.0-10	0.5
-60	60			0.6
-100	100			0.7
-ER20-60	60	34	2.0-13	0.5
-100	100			0.8
ER25-60	60			0.6

ER 彈性筒夾 ER SPRING COLLETS

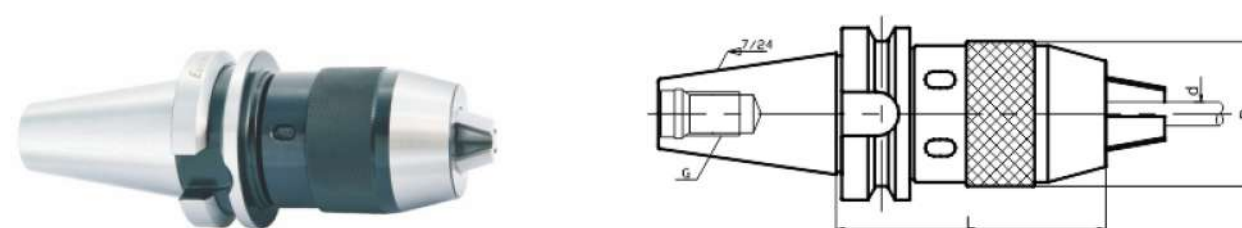


ER11		ER20		ER25		ER32		ER 40	
訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range
ER11-3	3.0-2.5	ER20-3	3-2	ER25-3	3-2	ER32-3	3-2	ER40-4	4-3
-3.5	3.5-3.0	-4	4-3	-4	4-3	-4	4-3	-5	5-4
-4	4.0-3.5	-5	5-4	-5	5-4	-5	5-4	-6	6-5
-4.5	4.5-4.0	-6	6-5	-6	6-5	-6	6-5	-7	7-6
-5	5.0-4.5	-7	7-6	-7	7-6	-7	7-6	-8	8-7
-5.5	5.5-5.0	-8	8-7	-8	8-7	-8	8-7	-9	9-8
-6	6.0-5.5	-9	9-8	-9	9-8	-9	9-8	-10	10-9
-6.5	6.5-6.0	-10	10-9	-10	10-9	-10	10-9	-11	11-10
-7	7.0-6.5	-11	11-10	-11	11-10	-11	11-10	-12	12-11
		-12	12-11	-12	12-11	-12	12-11	-13	13-12
		-13	13-12	-13	13-12	-13	13-12	-14	14-13
				-14	14-13	-14	14-13	-15	15-14
				-15	15-14	-15	15-14	-16	16-15
				-16	16-15	-16	16-15	-17	17-16
						-17	17-16	-18	18-17
						-18	18-17	-19	19-18
						-19	19-18	-20	20-19
						-20	20-19	-21	21-20
								-22	22-21
								-23	23-22
								-24	24-23
								-25	25-24
								-26	26-25

WER 攻牙刀柄 - BT柄 WER TAPPING HOLDERS - BT(MAS403) SHANK



KPU鑽夾頭刀柄 - BT柄 KPU DRILL CHUCK HOLDERS - BT(MAS403) SHANK



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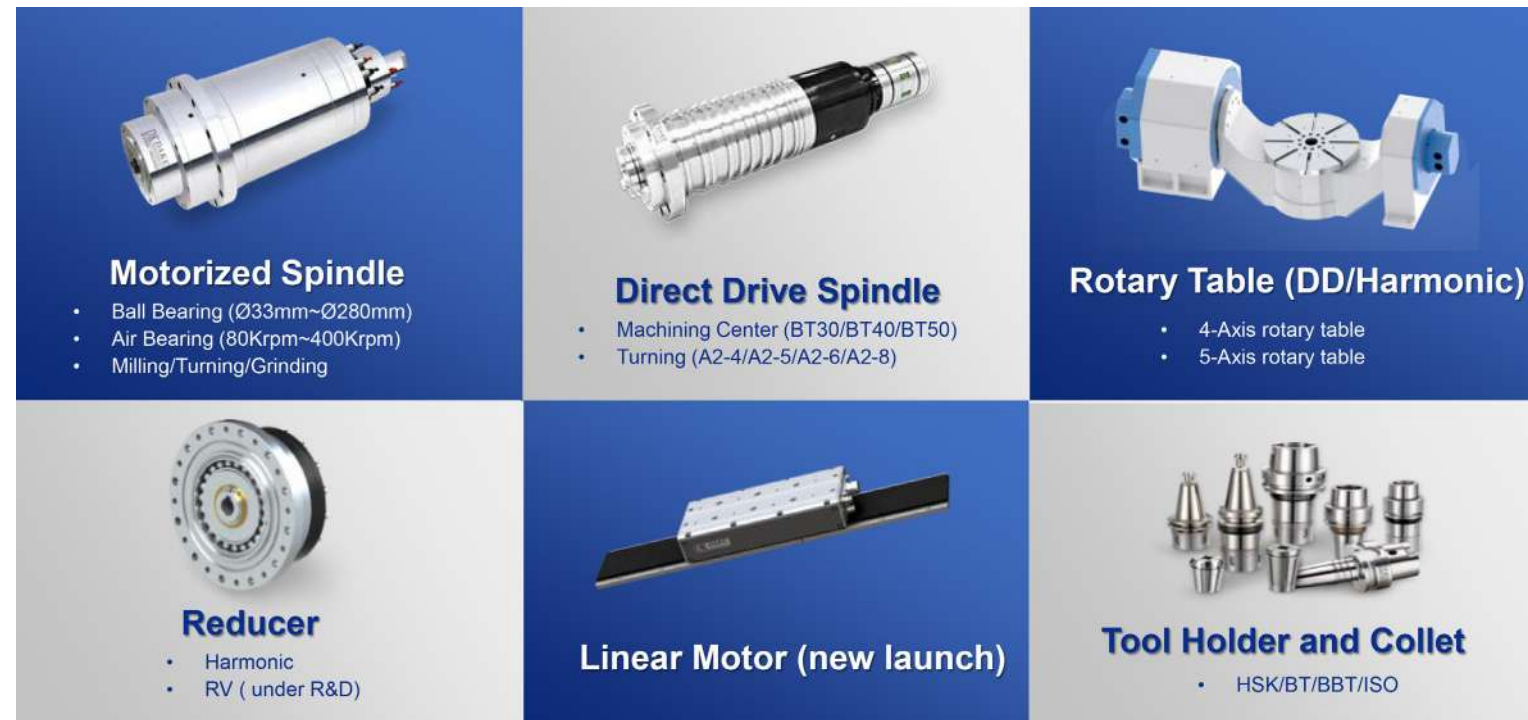
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One-Stop Coating Solutions Partner



MAXIMIZE TOOL LIFE
Reduce wear and
increase productivity



IMPROVE QUALITY
Consistent performance
and excellent surface finish



REDUCE COST
Lower tooling cost and
less downtime



GLOBAL SUPPORT
Reliable service and
technical support

Breaking the rules
for excellence!

HUASHENG

MD SERIES

COATING EQUIPMENT FOR CUTTING TOOLS

SUPER VALUE CHOICE MD500



**ALWAYS FULL BATCH
CONTROLLABLE QUALITY**
Consistent coating quality for
every single batch.



EXCLUSIVE COATING
Proprietary coating technology
for superior performance.



INDEPENDENT DEVELOPED
Independent R&D and innovation
for core competitiveness.



EXCLUSIVE COATING
Tailored solutions to meet
your specific needs.



FAST RETURN
Efficient process with shorter
delivery time.



HIGH STABILITY
Stable & reliable
production system



**CAPACITY FOR
THE FUTURE**
Great flexibility
process



FASTER RETURN
Higher productivity
more cost savings

HuaSheng Turnkey Solution

Huasheng turnkey solution is suitable for tool manufacturing and regrinding processes. We can customize coating centers and own flexible production system to customize high-quality coating, integrated supply and demand. Our turnkey solution adapts to various application, with unique advantages for you.

ABRASIVE



กระดาษทรายน้ำ Water Proof Paper Abrasives

Items name	Size	Grit size
CW11T, CW12L, C947H	9"x11"	80-2000



ผ้าทรายม้วน กระดาษทรายม้วน Rolls Abrasives

Width size	Length max	Grit size
1" - 52"	50000 mm	24-2000

จานทราย Flap Disc Abrasives



Type	Items name	Size	Grit size
จานทรายหนึ่งอ่อน	X871K, X830W	4"	40, 60, 80, 100 up
	XC301T		
	Ecoline		
จานทรายหลังแข็ง	X871K, X830W	4", 4 1/2", 5", 7"	40, 60, 80, 100 up
	XC301T		
	Ecoline		

กระดาษทรายกลม Disc Abrasives



Type	Items name	Size	Grit size
กาว / PSA	CompassPro	5"	40, 60, 80, 100 up
สีกหลาด / Velcro			
กาว / PSA	E26, E27	5"	40, 60, 80, 100 up
สีกหลาด / Velcro			
กาว / PSA	CW11T, CW12L	5"	40, 60, 80, 100 up
สีกหลาด / Velcro			



- ฆ่าเชื้อทำความสะอาด
- กระดาษเช็ดทำความสะอาด
- อุปกรณ์เช็ด Clean room

CHEMICAL PRODUCT เคมีภัณฑ์

น้ำมัน (Oil)



น้ำยาหล่อเย็น (Coolant)



เคมีอื่นๆ



VERNIER DIGITAL



DIAL INDICATOR



MICROMETER



ZERO SETTER



SAFETY GLOVES

C100



White Cotton Gloves FEATURES

- Soft & Comfortable
- Breathable
- Lightweight
- General Handling

SPECIFICATIONS

- Material: Cotton
- Type: Knitted
- Weight (12 Pairs): 400 / 500 / 600 / 700 g

CN200



FEATURES

- Cut Resistant
- Abrasion Resistant
- Anti-slip Grip

SPECIFICATIONS

- Liner: 13 Gauge
- Coating: Nitrile Foam
- Cut Level: 3 / 5

PU100



FEATURES

- Excellent Flexibility
- Abrasion Resistant
- Comfortable Fit

SPECIFICATIONS

- Liner: 13G Polyester
- Coating: White PU Palm
- Excellent Dexterity

CU100



FEATURES

- High Cut Resistance
- Excellent Abrasion Resistance
- Excellent Grip

SPECIFICATIONS

- Liner: 13G HPPE
- Coating: PU Palm
- Size: 6-11

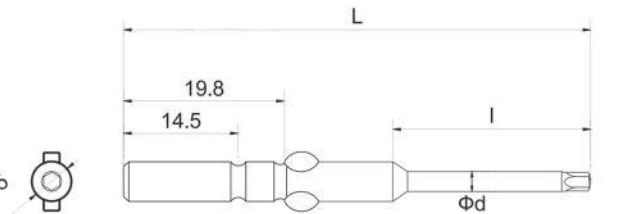
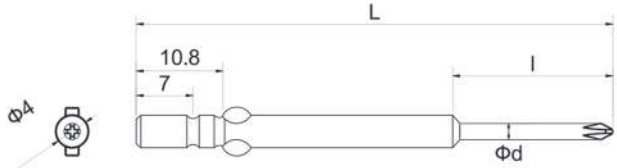
Screwdriver

Double-End Phillips Bit

	Tip Size	mm	Part Number
		PH1	45mm
		PH2	45mm
		PH3	45mm
		PH1	50mm
		PH2	50mm
		PH3	50mm
		PH1	65mm
		PH2	65mm
		PH3	65mm
		PH2	75mm
		PH2	100mm
		PH2	150mm
		PH2	200mm
		PH2	250mm
		PH2	300mm

Electric Screwdriver Bit

Specifications	Clamp Holder	L	d	l	Head
Φ4*40*Φ1.2*20*0#	Φ4	40	1.2	20	PH0
Φ4*40*Φ1.4*20*0#	Φ4	40	1.4	20	PH0
Φ4*40*Φ1.5*20*0#	Φ4	40	1.5	20	PH0
Φ4*40*Φ1.6*20*0#	Φ4	40	1.6	20	PH0



Specifications	Clamp Holder	L	d	l	Head
Φ5*50*H6.0	Φ5	50			H6.0
Φ5*60*Φ2.5*25*H1.5	Φ5	60	2.5	25	H1.5
Φ5*60*H2.0	Φ5	60			H2.0
Φ5*60*Φ2.5*25*H2.0	Φ5	60	2.5	25	H2.0
Φ5*60*Φ3.0*25*H2.0	Φ5	60	3.0	25	H2.0

Impact Driver



Cordless Impact Drill



Cordless Impact Drill



Pneumatic Impact Wrench



Counting Function Electric Screwdriver



Intelligent Counting Electric Screwdriver



Electric Screwdriver



Pneumatic Screwdriver

