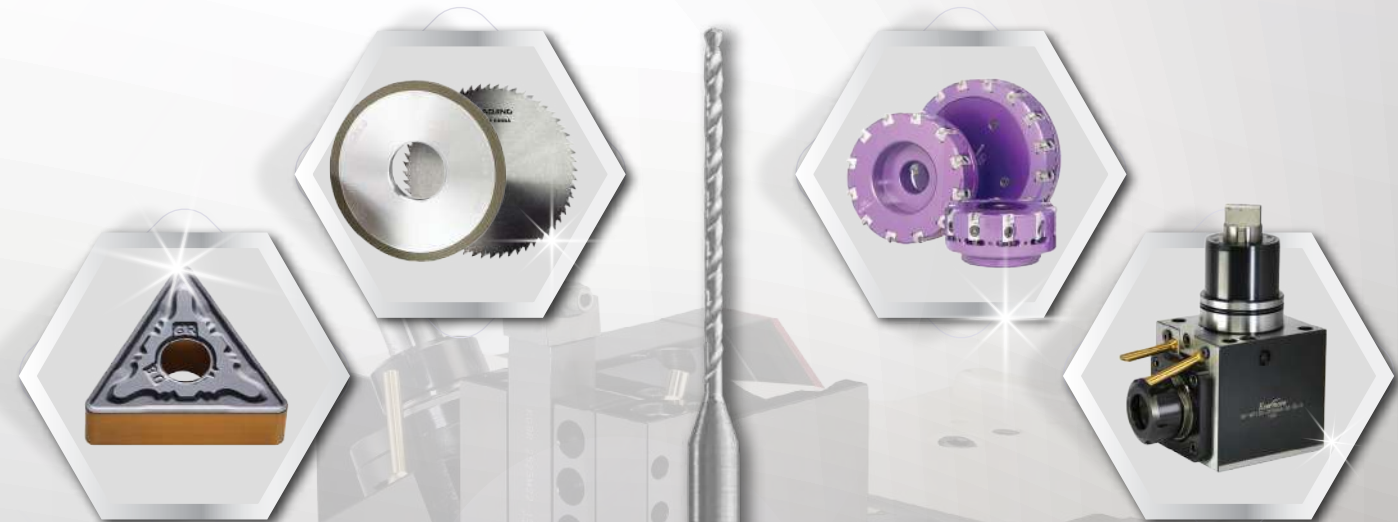




วิท แมชชีนทูลส์

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✉ info@vistechtools.com

📍 139/433 ชั้น 1 หมู่ 1 ถนน รังสิต-นครนายก
ต. รังสิต อ. ธัญบุรี จ. ปทุมธานี 12110

www.vistechtools.com



VT MACHINE TOOLS CO., LTD.
บริษัท วิท แมชชีนทูลส์ จำกัด



WHO WE ARE



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

COMPANY PROFILE

Company Name	: VT Machine Tools Co., Ltd.
Managing Director	: Mr. Pracha Visuthiwat
Director	: Ms. Rojana Visuthiwat
Founded	: 2016
Incorporation Date	: 28 June 2016
Register Capital	: 3,000,000 Baht
Registration Number	: 0135559012482
Head Office Location	: Pathumthani
Location	: 139/433 1st floor Moo 1, Rangsit-Nakhon Nayok Road, Rangsit, Thanyaburi, Pathumthani 12110 Thailand

OVERVIEW

เรามีความเชี่ยวชาญในเครื่องมือตัดที่มีความแม่นยำสูงที่มีคุณภาพที่ดีเยี่ยมและมีประสิทธิภาพสูง เพื่อบรรลุถึงความพึงพอใจในระดับที่สูงสุด โดยได้รับการสนับสนุนจากผู้ผลิตแบรนด์ที่มีชื่อเสียงระดับโลกและเราได้รับการแต่งตั้งเป็นตัวแทนจำหน่ายอย่างเป็นทางการ

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



เป็นบริษัทชั้นนำในอุตสาหกรรมบริการธุรกิจ เรามุ่งมั่นสู่ความสำเร็จและการเติบโตอย่างยั่งยืน

As a leading company in the business services industry, we are committed to success and sustainable growth.



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.

Category

04 Drills

26 Endmills

50 Holder

38 Taps

54 Ball Screw Linear guide

58 Screwdriver

56 Spindle Machine & Part

59 Wiping Cloth Accessory & Tools

44 CB Rods/Special

08 Inserts/PCD/CBN Cutting Tools

46 Grinding/Saw/Knives Cutting Tools





- Optimised geometries
- Reduced cutting forces
- Super finish processes
- Smooth chip evacuation

- Special geometry for hard to machine materials
- High Precision Grindings
- Super finish processes
- NexGen Coatings

- Customised geometries
- Coating focused grinding Tools
- NexGen Diamond Coatings
- Increased Tool life

INDRILL
T303

Longer Flute Length Series
Dia Range : $\varnothing 0.015 - 3.00\text{mm}$
Flute Length : $\sim 8 - 12d$
Dia Tolerance
Uncoated : h6
Coated : ± 0.003

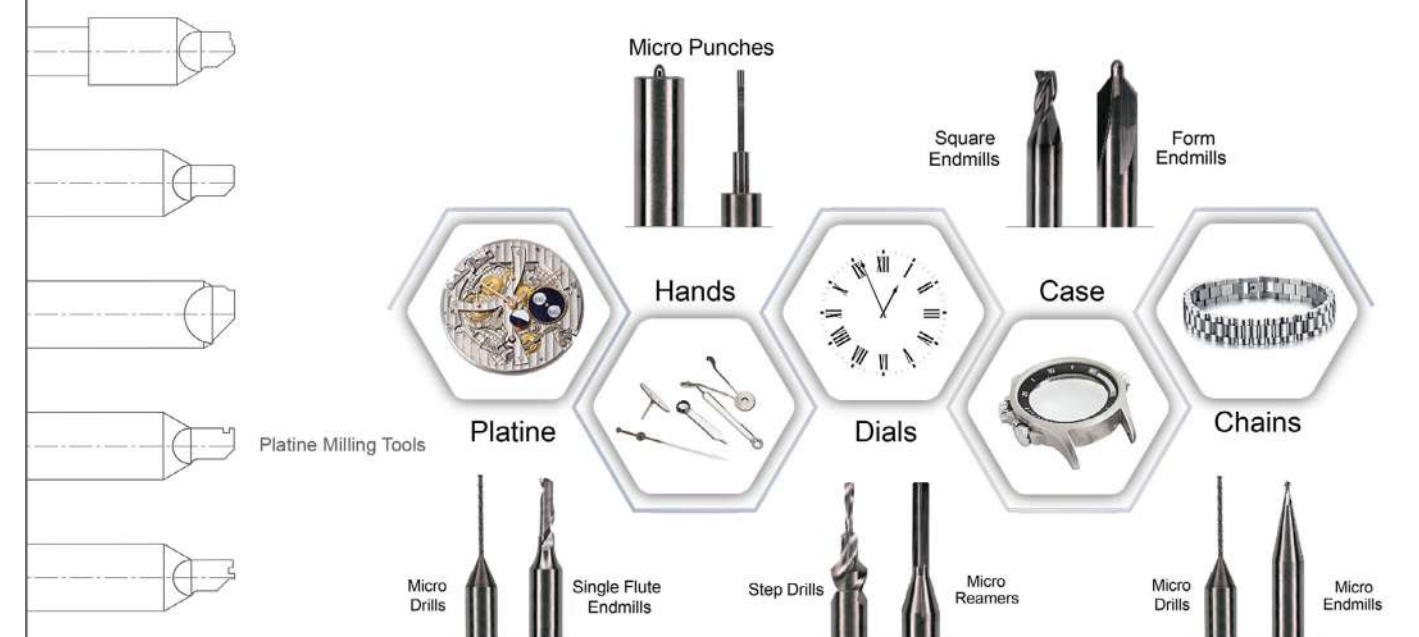
Reinforced Shank
mICRO Drills
T698

Dia Tolerance
Uncoated : h6
Coated : ± 0.003

Parallel Shank Drills
Jobber Series
T832

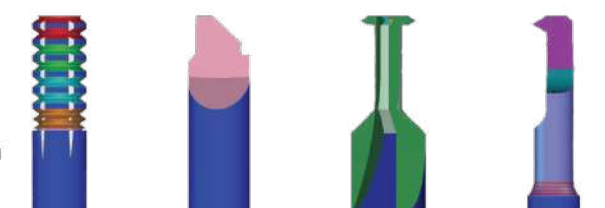


	NC Pointing Drill	Micro Drill	INDrill Universal	3Flute Drill	Spade Drill	Halfmoon Drill	Gun Drill	Step Drill	Clear Cut Drill (Sweep cut drill)
Article	T5811 / T5801 T1801	T6981	T6961	T0611	T2001	T9801	T5001	T5791	T5991
Dia Range	0.020 - 3.00	0.05 - 1.50	0.020 - 3.00	0.150 - 12.50	0.10 - 6.00	0.50 - 6.00	0.10 / 2.00	0.50 - 16.00	0.50 - 16.00
Other Parameters									

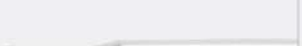
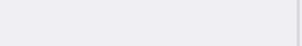


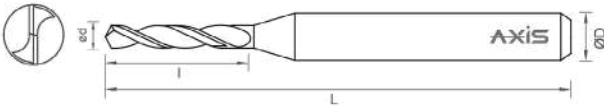
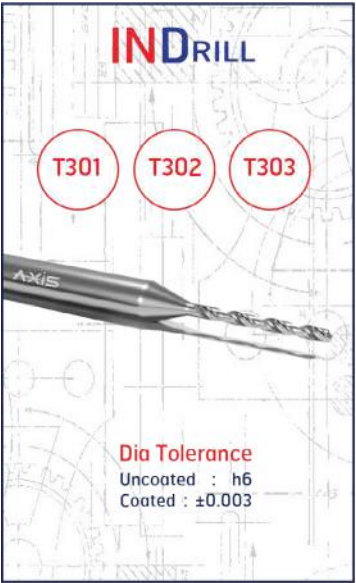
Also available:

Special Profile Tools, Form Tools,
Micro Reamers, Micro Punches, Broach



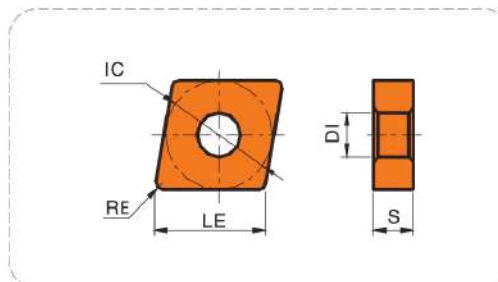
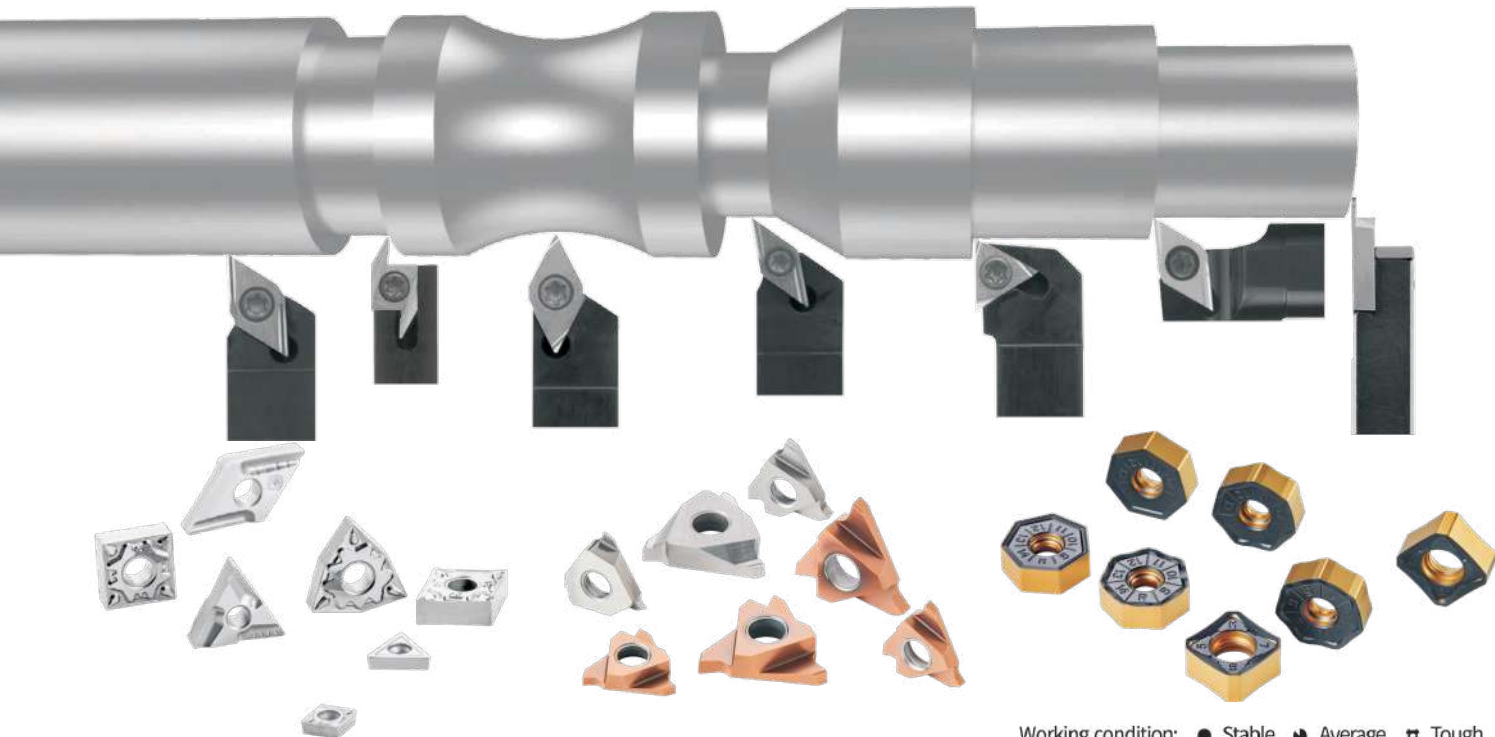
Article	Tool Drawing and Range	Series
T580 / T581	 ø 0.050 - 6.00	NC Pointing Drills
T579	 ø0.20 - 6.00	Countersink Drills
T301 / T302 T303	 ø0.015 - 3.00	INDRIILL
T311 / T312 T313	 ø0.30 - 3.00	INDRIILL+ High Performance Drills
H305 / H310 H315 / H320 H325 / H330	 ø0.80 - 6.00	INDRIILL Cool High Performance Through Coolant Drills
E900	 ø0.15 - 2.00	Torx End Mills
E966 / E967	 ø0.050 - 6.00	INDMILL 2 / 4 Flute
E305 / E307	 ø1.00 - 6.00	Variable Helix End Mills
B972	 ø 0.10 - 6.00	Ballnose End Mills 4 Flute

Article	Tool Drawing and Range	Series
F500	 M0.6 - M1.6	Thread Whirlers
F502	 M1.8 - M6	Thread Whirlers
F505	 M0.6 - M1.6	Taper Thread Whirlers
G847	 ø0.05-0.20	Engravers
C676	 ø 3.00 - 6.00	Chamfering Cutters
F401	 ø 4.00 - 6.00	T-Slot Cutters
E950	 ø 0.20 - 6.00	Taper End Mills 2 Flute
Bxxxx	 ø 0.30 - 4.00	End Mills for Digital Dentistry
E964	 ø 0.15 - 0.50	End Mills 2 Flute



ød	ØD h6	T301 Stub Length		T302 Standard Length		T303 Long Length	
		I	L	I	L	I	L
0.015 (+0.003)	3.00					0.15	38.00
0.020 (+0.003)	3.00					0.20	38.00
0.030 (+0.003)	3.00					0.30	38.00
0.040 (+0.003)	3.00					0.40	38.00
0.050 (-0.004)	3.00					0.50	38.00
0.060 (-0.004)	3.00					0.60	38.00
0.070 (-0.004)	3.00					0.70	38.00
0.080 (-0.004)	3.00					0.80	38.00
0.090 (-0.004)	3.00					0.90	38.00
0.10	3.00			0.80	38.00	1.00	38.00
0.11	3.00			0.80	38.00	1.00	38.00
0.12	3.00			1.00	38.00	1.50	38.00
0.13	3.00			1.00	38.00	1.50	38.00
0.14	3.00			1.00	38.00	1.50	38.00
0.15	3.00			1.00	38.00	2.00	38.00
0.16	3.00			1.00	38.00	2.00	38.00
0.17	3.00			1.00	38.00	2.00	38.00
0.18	3.00			1.50	38.00	2.50	38.00
0.19	3.00			1.50	38.00	2.50	38.00
0.20	3.00			1.50	38.00	2.50	38.00
0.21	3.00			1.50	38.00	2.50	38.00
0.22	3.00			1.50	38.00	2.50	38.00
0.23	3.00			2.00	38.00	4.00	38.00
0.24	3.00			2.00	38.00	4.00	38.00
0.25	3.00			2.00	38.00	4.00	38.00
0.26	3.00			2.00	38.00	4.00	38.00
0.27	3.00			2.00	38.00	4.00	38.00
0.28	3.00			2.00	38.00	4.00	38.00
0.29	3.00			2.00	38.00	4.00	38.00
0.30	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.31	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.32	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.33	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.34	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.35	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.36	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.37	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.38	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.39	3.00	1.50	38.00	3.00	38.00	5.50	38.00
0.40	3.00	1.50	38.00	3.00	38.00	6.00	38.00
0.41	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.42	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.43	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.44	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.45	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.46	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.47	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.48	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.49	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.50	3.00	2.00	38.00	4.00	38.00	6.00	38.00
0.51	3.00	2.50	38.00	4.00	38.00	6.00	38.00
0.52	3.00	2.50	38.00	4.00	38.00	6.00	38.00
0.53	3.00	2.50	38.00	4.00	38.00	6.00	38.00
0.54	3.00	2.50	38.00	4.00	38.00	6.00	38.00
0.55	3.00	2.50	38.00	5.00	38.00	8.00	38.00
0.56	3.00	2.50	38.00	5.00	38.00	8.00	38.00
0.57	3.00	2.50	38.00	5.00	38.00	8.00	38.00
0.58	3.00	2.50	38.00	5.00	38.00	8.00	38.00
0.59	3.00	2.50	38.00	5.00	38.00	8.00	38.00
0.60	3.00	2.50	38.00	5.00	38.00	8.00	38.00





Working condition: ● Stable ● Average ■ Tough

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

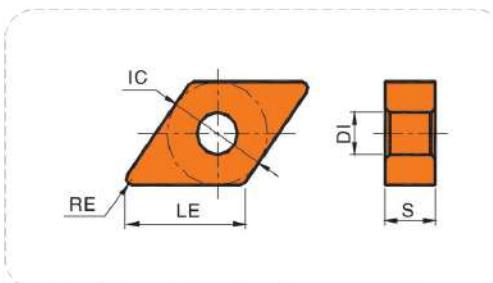
Processing	Insert shape	Type	Dimension (mm)					CVD					PVD					Cemented carbide	Cermet					
			LE	IC	S	DI	RE	HR8105	HR8115	HR8125	HR8225	HR8135	HR6115	HR1135	HR9105	HR7115	HR7125	HR7225	HR5125	HR5225	HRK10	HRK20	HRC10	HR115C
Semi-finishing		CNMG120404-GM	12.9	12.7	4.76	5.16	0.4	☆	★	☆	★	☆												
		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										☆	★						

Applicable tools



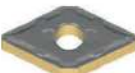
★ Recommended grade ☆ Available grade

55°DN□□



Working condition: ● Stable ● Average ■ Tough

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

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

			Workpiece material																						
			P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant super alloys Titanium alloy																		
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		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						★												
		SNMA190616	19.05	19.05	6.35	7.94	1.6						★												
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

Page: A61	Page: A61	Page: A62	Page: A68	Page: A69	Page: A69
PSBNR/L	PSDNN	PSKNR/L	MSBNR/L	MSKNR/L	MSDNN

60°TN

Working condition: ● Stable ● Average ■ Tough

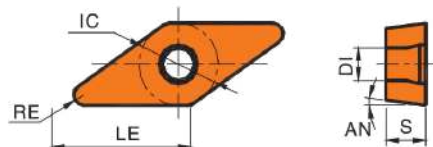
			Workpiece material	Steel		Stainless steel		Cast iron		Non-ferrous metal		Heat-resistant alloy Titanium alloy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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★ Recommended grade ☆ Available grade

Applicable tools

Page: A65	Page: A65	Page: A66	Page: A72	Page: A72	Page: A73
PTFNR/L	PTTNR/L	PTGNR/L	MTGNR/L	MTJNR/L	MTFNR/L

35°VB&VC ☐ ☐



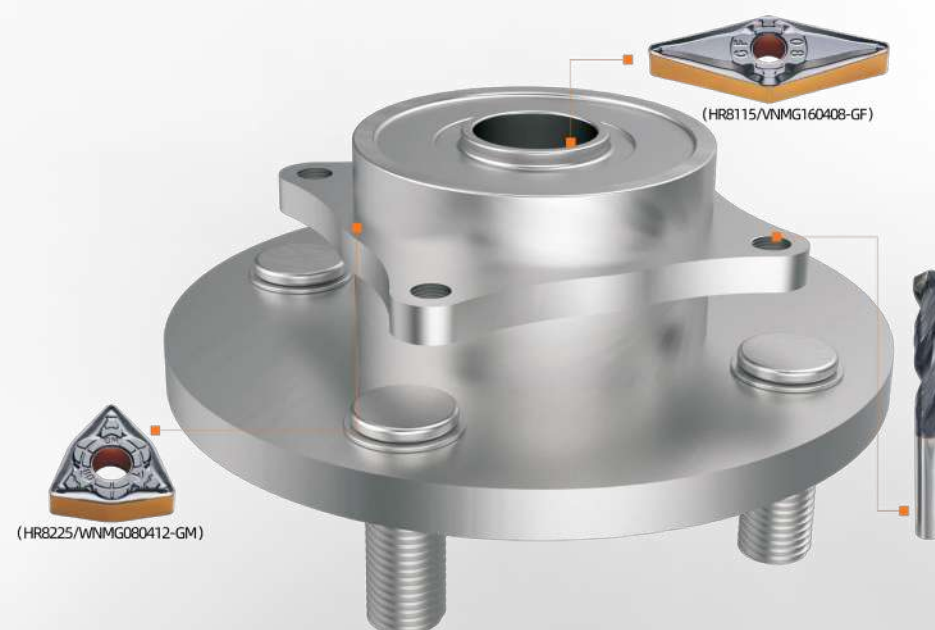
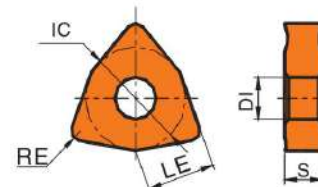
Working condition: ● Stable ● Average ■ Tough

	1	2	3	4	5	6	7	8	9	10
P Steel	●	●	■							●
M Stainless steel						●	●			
K Cast iron			●							
N Non-ferrous metal								●	●	
S Heat-resistant alloy Titanium alloy				●	●					

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

80°WN ☐ ☐

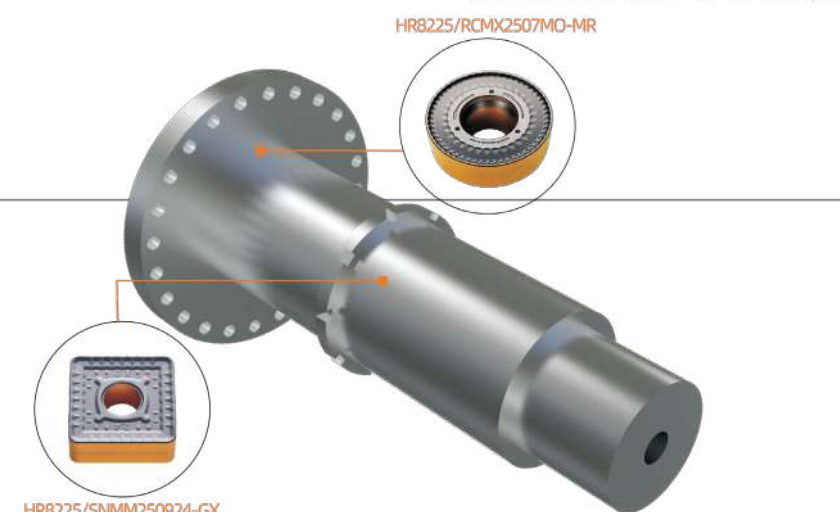
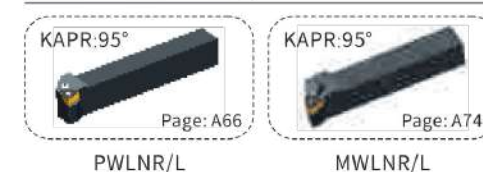
Working condition: ● Stable ● Average ▣ Tough

	1	2	3	4	5	6	7	8	9	10	11	12
P Steel	•	•	•									•
M Stainless steel						•	•					
K Cast iron					•	•						
N Non-ferrous metal										•	•	
S Heat-resistant alloy Titanium alloy					•	•						

[illegible]

★ Recommended grade ☆ Available grade

Applicable tools





Working condition: ● Stable ● Average ✱ Tough

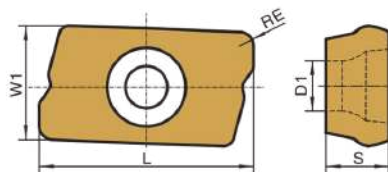
			Workpiece material P Steel M Stainless steel K Cast iron N Non-ferrous metal S Heat-resistant alloy Titanium alloy																					
Machining type	Insert shape	Type			Basic dimension (mm)				CVD				PVD				Cemented carbide		Cerme					
					INSL	CW	S	RE	HR8115	HR8125	HR8225	HR6115	HR9105	HR7115	HR7125	HR7225	HR5125	HR5225	HRK10	HRK20	HRC10	HRC20		
Parting and grooving		QCMB1502-GT			16.0	1.5	3.50	0.2	★		★	★			★	☆								
		QCMB2002-GT			16.0	2.0	3.55	0.2	★		★	★			★	☆								
		QCMB3002-GT	21.0	3.0	4.86	0.2	★		★	★			★	☆										
		QCMB4002-GT	21.0	4.0	4.86	0.2	★		★	★			★	☆										
		QCMB5003-GT	26.0	5.0	5.80	0.3	★		★	★			★	☆										
		QCMB6003-GT	26.0	6.0	5.90	0.3	★		★	★			★	☆										
Grooving		QCKB2002	16.0	2.0	3.55	0.2							★	☆										
		QCKB3004	21.0	3.0	4.86	0.4							★	☆										
		QCKB4004	21.0	4.0	4.86	0.4							★	☆										
		QCKB5008	26.0	5.0	5.80	0.8							★	☆										
Grooving and plunge turning		QCMB2002-CT	16.0	2.0	3.55	0.2	★		★	★			★	☆										
		QCMB2502-CT	18.5	2.5	3.90	0.2	★		★	★			★	☆										
		QCMB3004-CT	21.0	3.0	4.86	0.4	★		★	★			★	☆										
		QCMB4004-CT	21.0	4.0	4.86	0.4	★		★	★			★	☆										
		QCMB5008-CT	26.0	5.0	5.80	0.8	★		★	★			★	☆										
Profile		QPMB2010-RM	16.0	2.0	3.5	1.0	★		★	★			★	☆										
		QPMB3015-RM	21.0	3.0	4.8	1.5	★		★	★			★	☆										
		QPMB4020-RM	21.0	4.0	4.8	2.0	★		★	★			★	☆										
		QPMB5025-RM	26.0	5.0	5.8	2.5	★		★	★			★	☆										
		QPMB6030-RM	26.0	6.0	5.9	3.0	★		★	★			★	☆										
Aluminum hub groove insert		QPEB8040-AK	30.0	8.0	8.365	4.0											★	★						

★ Recommended grade ☆ Available grade



Applicable inserts

AO □□



Working condition: ● Stable ● Average ✖ Tough

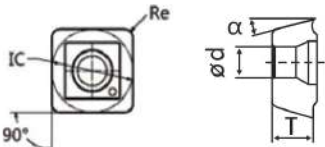
Applicable inserts	Workpiece material												
		P	M	K	N	S							
	Steel	●	●	●	✖	✖	●	●	●	●	●	●	●
	Stainless steel	●	●	●	✖	✖	●	●	●	●	●	●	●
	Cast iron	●	●	●	✖	✖	●	●	●	●	●	●	●
	Non-ferrous metal	●	●	●	●	●	●	●	●	●	●	●	●
	Heat-resistant alloy, titanium alloy	●	●	●	●	●	●	●	●	●	●	●	●

Type	Basic dimension (mm)						APMX (mm)	CVD						PVD		Cemented carbide	Cermets
	L	W1	S	D1	RE			HR8140	HR5110	HR5120	HR5130	HR7130	HR7140	HRK10	HRC20		
APMT1135PDER-HM	11.30	6.25	3.50	2.80	0.80	9.5				★	★					★	
APMT1605PDER-HM	17.25	9.25	5.22	4.40	0.80	14.5				★	★					★	
APGT1135PDFR-AK	11.30	6.25	3.50	2.80	0.80	9.5										★	
APGT1604PDFR-AK	17.25	9.25	4.76	4.40	0.80	14.5										★	

Type	Basic dimension (mm)						APMX (mm)	CVD						PVD		Cemented carbide	Cermets
	IC	S	D1	BS	RE			HR8140	HR5110	HR5120	HR5130	HR7130	HR7140	HRK10	HRC20		
AOKT060202PEER-VM	7.61	4.20	2.38	2.10	0.20	6.0			☆	★	★					☆	
AOKT060204PEER-VM	7.61	4.20	2.38	2.10	0.40	6.0					★					☆	
AOKT060208PEER-VM	7.61	4.20	2.38	2.10	0.80	6.0										☆	

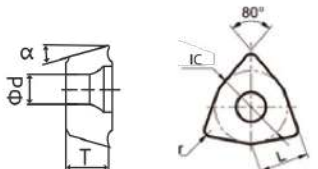


Drilling



● 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
		(mm)	(mm/r)															
				IC	T	r												
	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

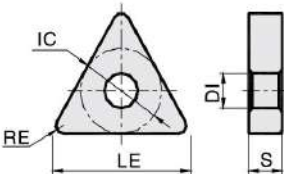


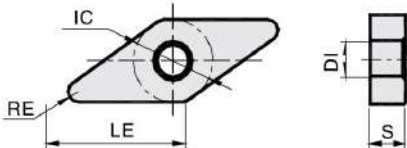
● Good working condition ● Normal working condition ✖ Bad working condition

Shape	Description	Specification					CVD Coating					PVD Coating					Cutting Parameters	
							HS8115	HS8125	HS8123	HS8133	HS6115	HS6120	HS7120	HS5115	HS5120	HS5130	HS5131	HS5125
		IC	T	r	ød	α												(mm)
	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



									Working condition: ● Stable ● Average ■ Tough															

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

shallow groove machining



shallow groove machining (profile)



Pipe-stripping 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
THR22L150-075R
THR22L200-100R
THR22L250-125R
THR22L300-150R
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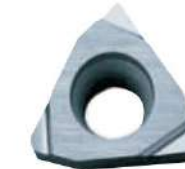
Parting & grooving



Back turning



Ultra finishing



Ultra finishing



Ultra finishing



Pipe-stripping machining



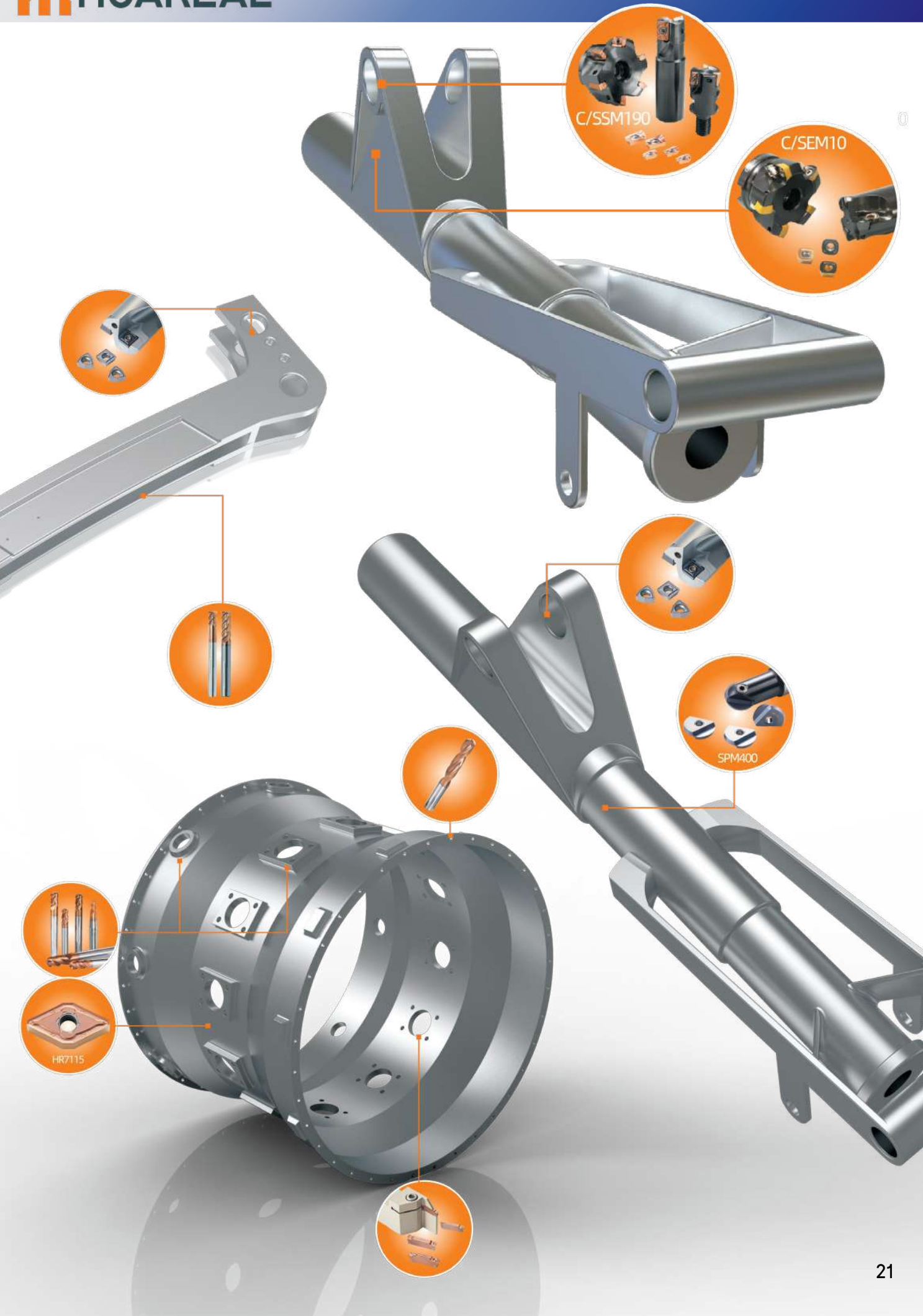
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PTA16R200-S
PTA16R300-S
PTA16L150-S
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TNGG160402L-XS
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TBGT060102R
TBGT060102L
TBGT060104R
TBGT060104L
HDUB250414-BG
HDUB250417-BG
HDUB250422-BG
HDUB250430-BG
HDUB250440-BG
HDUB250450-BG

AEROSPACE ENGINE

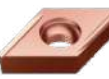
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Shape	Description	(mm)			Grade					
		(I.C)	(S)	(Re)	PV8110	PV8210	PV8310	PV4112	PV4212	PV4312
	CCGT060202R/L-S1	6.35	2.38	0.2	●	●	●	●	●	●
	CCGT060204R/L-S1	6.35	2.38	0.4	●	●	●	●	●	●
	CCGT09T302R/L-S1	9.525	3.97	0.2	●	●	●	●	●	●
	CCGT09T304R/L-S1	9.525	3.97	0.4	●	●	●	●	●	●
	DCGT070202R/L-C	6.35	2.38	0.2	●	●	●	●	●	●
	DCGT070204R/L-C	6.35	2.38	0.4	●	●	●	●	●	●
	DCGT070201R/L-S1	6.35	2.38	0.1	●	●	●	●	●	●
	DCGT070202R/L-S1	6.35	2.38	0.2	●	●	●	●	●	●
	DCGT070204R/L-S1	6.35	2.38	0.4	●	●	●	●	●	●
	DCGT11T302R/L-S1	9.525	3.97	0.2	●	●	●	●	●	●
	DCGT11T304R/L-S1	9.525	3.97	0.4	●	●	●	●	●	●
	TBGH060102R/L-S1	3.97	1.59	0.2	●	●	●	●	●	●
	TBGH060104R/L-S1	3.97	1.59	0.4	●	●	●	●	●	●
	TPGH080202R/L-S1	4.76	2.38	0.2	●	●	●	●	●	●
	TPGH080204R/L-S1	4.76	2.38	0.4	●	●	●	●	●	●
	TPGT080202R/L-S1	4.76	2.38	0.2	●	●	●	●	●	●
	TPGT080204R/L-S1	4.76	2.38	0.4	●	●	●	●	●	●
	TPGH090202R/L-S1	5.56	2.38	0.2	●	●	●	●	●	●
	TPGH090204R/L-S1	5.56	2.38	0.4	●	●	●	●	●	●
	TPGH110302R/L-S1	6.35	3.18	0.2	●	●	●	●	●	●
	TPGH110304R/L-S1	6.35	3.18	0.4	●	●	●	●	●	●
	TPGT090202R/L-S1	5.56	2.38	0.2	●	●	●	●	●	●
	TBGT060102R/L-S1	3.97	1.59	0.2	●	●	●	●	●	●
	TBGT060104R/L-S1	3.97	1.59	0.4	●	●	●	●	●	●
	TPGT090202R/L-S1	5.56	2.38	0.2	●	●	●	●	●	●



Shape	Description	(mm)			Grade					
		(I.C)	(S)	(Re)	PV8110	PV8210	PV8310	PV4112	PV4212	PV4312
	VNKG160402R/L-C	12.7	4.76	0.2	●	●	●	●	●	●
	VNKG160404R/L-C	12.7	4.76	0.4	●	●	●	●	●	●
	VNKG160408R/L-C	12.7	4.76	0.8	●	●	●	●	●	●
	VNKG160402R/L-H	9.525	3.18	0.2	●	●	●	●	●	●
	VNKG160404R/L-H	9.525	3.18	0.4	●	●	●	●	●	●
	VNKG160408R/L-H	9.525	3.18	0.8	●	●	●	●	●	●
	VNKG160402R/L-S	12.7	4.76	0.2	●	●	●	●	●	●
	VNKG160404R/L-S	12.7	4.76	0.4	●	●	●	●	●	●
	VNKG160408R/L-S	12.7	4.76	0.8	●	●	●	●	●	●
	VNKG160402R/L-S1	9.525	3.18	0.2	●	●	●	●	●	●
	VNKG160404R/L-S1	9.525	3.18	0.4	●	●	●	●	●	●
	VNKG160408R/L-S1	9.525	3.18	0.8	●	●	●	●	●	●
	WNKG060402R/L-C	12.7	4.76	0.2	●	●	●	●	●	●
	WNKG060404R/L-C	12.7	4.76	0.4	●	●	●	●	●	●
	WNKG060408R/L-C	12.7	4.76	0.8	●	●	●	●	●	●
	WNKG080402R/L-C	12.7	4.76	1.2	●	●	●	●	●	●
	WNKG080404R/L-C	9.525	4.76	0.2	●	●	●	●	●	●
	WNKG080408R/L-C	9.525	4.76	0.4	●	●	●	●	●	●
	WNKG080408R/L-C	9.525	4.76	0.4	●	●	●	●	●	●
	WNKG060402R/L-S	9.525	4.76	0.8	●	●	●	●	●	●
	WNKG060404R/L-S	12.7	4.76	0.2	●	●	●	●	●	●
	WNKG060408R/L-S	12.7	4.76	0.4	●	●	●	●	●	●
	WNKG060402R/L-S1	12.7	4.76	0.8	●	●	●	●	●	●
	WNKG060404R/L-S1	9.525	4.76	0.2	●	●	●	●	●	●
	WNKG060408R/L-S1	9.525	4.76	0.4	●	●	●	●	●	●



(Insert profile)	(Type)	(Material code)						γ_0 (Rake angle)	Φd (Inscribed circle)	s (Thickness)	Φd_1 (Inner hole diameter)	(Radius)
		CKD85	CKD13	CKD10	CKD41	CKD20	CKD15					
	VCGW080202								$\Phi 4.76$	2.38	2.3	0.2
	VCGW080204								$\Phi 4.76$	2.38	2.3	0.4
	VCGW080208								$\Phi 4.76$	2.38	2.3	0.8
	VCGT080202							$3^\circ \sim 5^\circ$	$\Phi 4.76$	2.38	2.3	0.2
	VCGT080204							$3^\circ \sim 5^\circ$	$\Phi 4.76$	2.38	2.3	0.4
	VCGT080208							$3^\circ \sim 5^\circ$	$\Phi 4.76$	2.38	2.3	0.8
	VCGW110302								$\Phi 6.35$	3.18	2.8	0.2
	VCGW110304								$\Phi 6.35$	3.18	2.8	0.4
	VCGW110308								$\Phi 6.35$	3.18	2.8	0.8
	VCGT110302							$3^\circ \sim 5^\circ$	$\Phi 6.35$	3.18	2.8	0.2
	VCGT110304							$3^\circ \sim 5^\circ$	$\Phi 6.35$	3.18	2.8	0.4
	VCGT110308							$3^\circ \sim 5^\circ$	$\Phi 6.35$	3.18	2.8	0.8
	VCGW160404								$\Phi 9.525$	4.76	4.4	0.4
	VCGW160408								$\Phi 9.525$	4.76	4.4	0.8
	VCGW160410								$\Phi 9.525$	4.76	4.4	1.0
	VCGW160412								$\Phi 9.525$	4.76	4.4	1.2
	VCGT160404							$5^\circ \sim 10^\circ$	$\Phi 9.525$	4.76	4.4	0.4
	VCGT160408							$5^\circ \sim 10^\circ$	$\Phi 9.525$	4.76	4.4	0.8
	VCGT160410							$5^\circ \sim 10^\circ$	$\Phi 9.525$	4.76	4.4	1.0
	VCGT160412							$5^\circ \sim 10^\circ$	$\Phi 9.525$	4.76	4.4	1.2
	TNGA110302								$\Phi 6.35$	3.18	2.3	0.2
	TNGA110304								$\Phi 6.35$	3.18	2.3	0.4
	TNGA110308								$\Phi 6.35$	3.18	2.3	0.8
	TNGA160404								$\Phi 9.525$	4.76	3.8	0.4
	TNGA160408								$\Phi 9.525$	4.76	3.8	0.8
	TNGA160412								$\Phi 9.525$	4.76	3.8	1.2
	TNGA160416								$\Phi 9.525$	4.76	3.8	1.6

Carbide End Mills



Carbide End Mills

CES2-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F-Decimal Diameter



超精銳 Bright Finishing	—
精銳 Finishing	○
中級 Semi Finishing	●
粗級 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	6	CES20100A
1.5	4	50	6	CES20150A
2.0	5	50	6	CES20200A
2.5	6	50	6	CES20250A
3.0	8	50	6	CES20300A
3.5	9	50	6	CES20350A
4.0	10	50	6	CES20400A
4.5	11	50	6	CES20450A
5.0	13	50	6	CES20500A
5.5	14	50	6	CES20550A
6.0	15	50	6	CES20600A
6.5	16	60	8	CES20650A
7.0	18	60	8	CES20700A
7.5	18	60	8	CES20750A
8.0	20	60	8	CES20800A
8.5	20	75	10	CES20850A
9.0	22	75	10	CES20900A
9.5	22	75	10	CES20950A
10.0	25	75	10	CES21000A
10.0	30	75	10	CES21000300CA
10.5	25	75	12	CES21050A
11.0	25	75	12	CES21100A
11.5	25	75	12	CES21150A
12.0	30	75	12	CES21200A
12.0	36	75	12	CES21200360CA
13.0	30	75	14	CES2130014A
14.0	30	75	14	CES2140014A
15.0	35	100	16	CES21500A
16.0	35	100	16	CES21600A
16.0	45	100	16	CES21600450CA
18.0	40	100	18	CES2180018A
18.0	40	100	20	CES21800A
20.0	45	100	20	CES22000A
25.0	45	100	25	CES22500A

CESS2-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F-Micro Diameter



超精銳 Bright Finishing	—
精銳 Finishing	○
中級 Semi Finishing	●
粗級 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.
0.2	0.4	50	3	CESS20020A
0.25	0.5	50	3	CESS20025A
0.3	0.6	50	3	CESS20030A
0.35	0.7	50	3	CESS20035A
0.4	0.8	50	3	CESS20040A
0.5	1.0	50	3	CESS20050A
0.6	1.5	50	3	CESS20060A
0.7	2.0	50	3	CESS20070A
0.8	2.0	50	3	CESS20080A
0.9	2.0	50	3	CESS20090A
1.0	3.0	50	3	CESS20100A
1.5	4.0	50	3	CESS20150A
2.0	5.0	50	3	CESS20200A
2.5	6.0	50	3	CESS20250A
3.0	8.0	50	3	CESS20300A

CELFM2-A / CELF2-A / CEFF2-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type & (Extra) Long Flute- 2F



超精銳 Bright Finishing	—
精銳 Finishing	○
中級 Semi Finishing	●
粗級 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	10	50	4	CELFM20200A
3.0	15	60	4	CELFM20300A
4.0	20	60	4	CELFM20400A
3.0	15	60	6	CELF20300A
4.0	20	60	6	CELF20400A
5.0	25	75	6	CELF20500A
6.0	30	75	6	CELF20600A
8.0	35	100	8	CELF20800A
10.0	45	100	10	CELF21000A
12.0	45	100	12	CELF21200A
14.0	70	150	14	CELF2140014A
14.0	70	150	16	CELF21400A
16.0	70	150	16	CELF21600A
18.0	75	150	20	CELF21800A
20.0	75	150	20	CELF22000A
25.0	75	150	25	CELF22500A
10.0	55	100	10	CEFF21000A
12.0	55	100	12	CEFF21200A
16.0	80	150	16	CEFF21600A
20.0	90	150	20	CEFF22000A

CECRM2-A / CECR2-A

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- 2F



超精銳 Bright Finishing	—
精銳 Finishing	○
中級 Semi Finishing	●
粗級 Roughing	⊙

刃徑 Diameter	R角 R	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0	0.2R	2	50	4	CECRM2010002A
1.0	0.3R	2	50	4	CECRM2010003A
1.5	0.2R	3	50	4	CECRM2015002A
1.5	0.3R	3	50	4	CECRM2015003A
2.0	0.2R	4	50	4	CECRM2020002A
2.0	0.3R	4	50	4	CECRM2020003A
2.5	0.2R	5	50	4	CECRM2025002A
2.5	0.3R	5	50	4	CECRM2025003A
2.5	0.5R	5	50	4	CECRM2025005A
3.0	0.3R	6	50	4	CECRM2030003A
3.0	0.5R	6	50	4	CECRM2030005A
3.0	1.0R	6	50	4	CECRM2030010A
4.0	0.3R	8	50	6	CECR2040003A
4.0	0.5R	8	50	6	CECR2040005A
4.0	1.0R	8	50	6	CECR2040010A
5.0	0.5R	10	50	6	CECR2050005A
5.0	1.0R	10	50	6	CECR2050010A
6.0	0.5R	12	50	6	CECR2060005A
6.0	1.0R	12	50	6	CECR2060010A
8.0	0.5R	16	60	8	CECR2080005A
8.0	1.0R	16	60	8	CECR2080010A
8.0	1.5R	16	60	8	CECR2080015A
10.0	0.5R	20	75	10	CECR2100005A

CECL4-A

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius & Long Shank- 4F



超精銳 Bright Finishing	○
精銳 Finishing	●
中級 Semi Finishing	⊙
粗級 Roughing	⊕

刃徑 Diameter	R角 R	刃長 Cutting Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
3.0	0.5R	6	75	6	CECL4030005A
3.0	1.0R	6	75	6	CECL4030010A
4.0	0.5R	8	75	6	CECL4040005A
4.0	1.0R	8	75	6	CECL4040010A
5.0	0.5R	10	75	6	CECL4050005A
5.0	1.0R	10	75	6	CECL4050010A
6.0	0.5R	12	75	6	CECL4060005A
6.0	1.0R	12	75	6	CECL4060010A
8.0	0.5R	16	100	8	CECL4080005A
8.0	1.0R	16	100	8	CECL4080010A
8.0	1.5R	16	100	8	CECL4080015A
10.0	0.5R	20	100	10	CECL4100005A
10.0	1.0R	20	100	10	CECL4100010A
10.0	1.5R	20	100	10	CECL4100015A
10.0	2.0R	20	100	10	CECL4100020A
12.0	0.5R	24	100	12	CECL4120005A
12.0	1.0R	24	100	12	CECL4120010A
12.0	1.5R	24	100	12	CECL4120015A
12.0	2.0R	24	100	12	CECL4120020A

CELS2-A

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Shank- 2F



超精銳 Bright Finishing	—
精銳 Finishing	○
中級 Semi Finishing	●
粗級 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	75	6	CELS20300A
4.0	10	75	6	CELS20400A
5.0	13	75	6	CELS20500A
6.0	15	75	6	CELS20600A
8.0	20	100	8	CELS20800A
10.0	25	100	10	CELS21000A
12.0	30	100	12	CELS21200A

**CESM3-A / CES3-A****S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 3F**

超精銳 Bright Finishing	—
精銳 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**

超精銳 Bright Finishing	○
精銳 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

CES4-A**S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F**

超精銳 Bright Finishing	○
精銳 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	CES40300A
3.5	9	50	6	CES40350A
4.0	10	50	6	CES40400A
4.5	11	50	6	CES40450A
5.0	13	50	6	CES40500A
5.5	14	50	6	CES40550A
6.0	15	50	6	CES40600A
6.5	16	60	8	CES40650A
7.0	18	60	8	CES40700A
7.5	18	60	8	CES40750A
8.0	20	60	8	CES40800A
8.5	20	75	10	CES40850A
9.0	22	75	10	CES40900A
9.5	22	75	10	CES40950A
10.0	25	75	10	CES41000A
10.0	30	75	10	CES41000300CA
10.5	25	75	12	CES41050A
11.0	25	75	12	CES41100A
11.5	25	75	12	CES41150A
12.0	30	75	12	CES41200A
12.0	36	75	12	CES41200360CA
13.0	30	75	14	CES4130014A
14.0	30	75	14	CES4140014A
15.0	35	100	16	CES41500A
16.0	35	100	16	CES41600A
16.0	45	100	16	CES41600450CA
18.0	40	100	18	CES4180018A
18.0	40	100	20	CES41800A
20.0	45	100	20	CES42000A
25.0	45	100	25	CES42500A

CEHM4-A / CEH4-A**S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- 4F**

超精銳 Bright Finishing	○
精銳 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	4	CEHM40100A
2.0	5	50	4	CEHM40200A
1.0	3	50	6	CEH40100A
2.0	5	50	6	CEH40200A
3.0	8	50	6	CEH40300A
4.0	10	50	6	CEH40400A
5.0	13	50	6	CEH40500A
6.0	15	50	6	CEH40600A
8.0	20	60	8	CEH40800A

**CEBS2-A****S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed- 2F- Micro Diameter**

超精銳 Bright Finishing	—
精銳 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**

超精銳 Bright Finishing	—
精銳 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**

超精銳 Bright Finishing	○
精銳 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

**CEBM2-A / CEB2-A****S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed- 2F**

超精銳 Bright Finishing	—
精銳 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.
0.5R	2.0	50	4	CEBM20050A
0.6R	2.4	50	4	CEBM20060A
0.7R	2.8	50	4	CEBM20070A
0.75R	3.0	50	4	CEBM20075A
1.0R	4.0	50	4	CEBM20100A
1.25R	5.0	50	4	CEBM20125A
1.5R	6.0	50	4	CEBM20150A
1.75R	7.0	50	4	CEBM20175A
2.0R	8.0	50	4	CEBM20200A
1.0R	4.0	50	6	CEB20100A
1.25R	5.0	50	6	CEB20125A
1.5R	6.0	50	6	CEB20150A
2.0R	8.0	50	6	CEB20200A
2.5R	10.0	50	6	CEB20250A
3.0R	12.0	50	6	CEB20300A
3.5R	14.0	60	8	CEB20350A
4.0R	16.0	60	8	CEB20400A
5.0R	20.0	75	10	CEB20500A
6.0R	24.0	75	12	CEB20600A
8.0R	32.0	100	16	CEB20800A
10.0R	40.0	100	20	CEB21000A

CEBM4-A / CEB4-A**S220 MICRO GRAIN CARBIDE END MILLS- Ball Nosed- 4F**

超精銳 Bright Finishing	○
精銳 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	4	CEBM40100A
1.25R	5	50	4	CEBM40125A
1.5R	6	50	4	CEBM40150A
1.75R	7	50	4	CEBM40175A
2.0R	8	50	4	CEBM40200A
3.0R	12	50	6	CEB40300A
4.0R	16	60	8	CEB40400A
5.0R	20	75	10	CEB40500A
6.0R	24	75	12	CEB40600A
8.0R	32	100	16	CEB40800A

Carbide End Mills



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

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



NESDM2-A / NESD2-A

N620 NANO CARBIDE END MILLS- Square Type- Short Flute- 2F with corner radii



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

刃徑 Diameter	刃長 Cutting Length	有效長 Effective Length	R角 R	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0	1.0	2.0	0.1R	50	4	NESDM20100A
2.0	2.0	4.0	0.1R	50	4	NESDM20200A
3.0	3.0	6.0	0.1R	50	4	NESDM20300A
4.0	4.0	8.0	0.2R	50	4	NESDM20400A
6.0	6.0	12.0	0.2R	50	6	NESD20600A
8.0	8.0	16.0	0.3R	60	8	NESD20800A
10.0	10.0	20.0	0.3R	75	10	NESD21000A
12.0	12.0	24.0	0.3R	75	12	NESD21200A

NESND2-A

N620 NANO CARBIDE END MILLS- Square Type- Short Flute- Long Neck- 2F with Corner Radii



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

刃徑 Diameter	刃長 Cutting Length	有效長 Effective Length	R角 R	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
0.5	1.0	2.0	0.1R	50	4	NESND20050020A
0.5	1.0	4.0	0.1R	50	4	NESND20050040A
1.0	1.5	4.0	0.1R	50	6	NESND20100040A
1.0	1.5	6.0	0.1R	50	6	NESND20100060A
1.0	1.5	8.0	0.1R	50	6	NESND20100080A
1.5	1.5	4.0	0.1R	50	6	NESND20150040A
1.5	1.5	8.0	0.1R	50	6	NESND20150080A
2.0	2.0	8.0	0.2R	50	6	NESND20200080A
2.0	2.0	10.0	0.2R	50	6	NESND20200100A
2.0	2.0	12.0	0.2R	50	6	NESND20200120A

NEB2-A

N620 NANO CARBIDE END MILLS- Ball Nosed- 2F



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

半徑 R	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.
1.0R	2.0	4.0	50	6	NEB20100A
1.5R	3.0	6.0	50	6	NEB20150A
2.0R	4.0	8.0	50	6	NEB20200A
3.0R	6.0	12.0	50	6	NEB20300A
4.0R	8.0	16.0	60	8	NEB20400A
5.0R	10.0	20.0	75	10	NEB20500A

Carbide End Mills

NESD3-A

N620 NANO CARBIDE END MILLS- Square Type- Short Flute- 3F with corner radii



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

刃徑 Diameter	刃長 Cutting Length	有效長 Effective Length	R角 R	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
3.0	3.0	9.0	0.1R	50	6	NESD30300A
4.0	4.0	12.0	0.2R	50	6	NESD30400A
6.0	6.0	18.0	0.2R	50	6	NESD30600A
8.0	8.0	24.0	0.3R	60	8	NESD30800A
10.0	10.0	30.0	0.3R	75	10	NESD31000A
12.0	12.0	36.0	0.3R	75	12	NESD31200A

NEDM4-A / NED4-A

N620 NANO CARBIDE END MILLS- Square Type- Short Flute- 4F



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

刃徑 Diameter	刃長 Cutting Length	有效長 Effective Length	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
1.0	1.0	2.0	50	4	NEDM40100A
1.5	1.5	3.0	50	4	NEDM40150A
2.0	2.0	4.0	50	4	NEDM40200A
2.5	2.5	5.0	50	4	NEDM40250A
3.0	3.0	8.0	50	6	NED40300A
4.0	4.0	10.0	50	6	NED40400A
5.0	5.0	14.0	50	6	NED40500A
6.0	6.0	16.0	50	6	NED40600A
8.0	8.0	24.0	60	8	NED40800A
10.0	10.0	32.0	75	10	NED41000A

NEHD6-A

N620 NANO CARBIDE END MILLS- Square Type- High Helix- Short Flute- 6F with corner radii



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

刃徑 Diameter	刃長 Cutting Length	有效長 Effective Length	R角 R	全長 O.A.L.	柄徑 Shank Dia.	鍍膜訂購編號 Coated Order No.
6.0	9.0	15.0	0.2R	50	6	NEHD60600A
8.0	12.0	20.0	0.3R	60	8	NEHD60800A
10.0	15.0	25.0	0.3R	75	10	NEHD61000A
12.0	18.0	30.0	0.3R	75	12	NEHD61200A
16.0	24.0	40.0	0.5R	100	16	NEHD61600A

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

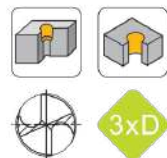
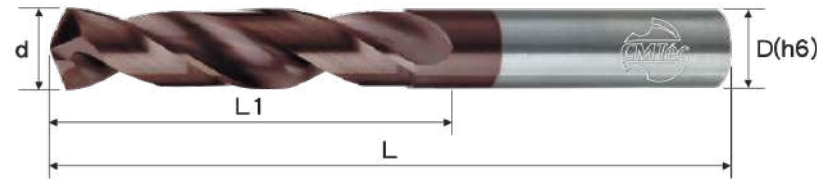
※ 另有118° 泛用型, 可供選擇。

※ 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



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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)





Ball Nose 2F

HRC 55

2

35°

B

P

M

K

N

S

H

Unit (mm)

R	R ≤ 1.5	1.5 < R < 3	R ≥ 3
Tol	0	0	0
	-0.015	-0.015	-0.02

New TiSiN

Diameter D	Radius R	Shank D2	Overall Length L2
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



- HRC45

P K

Suitable for ordinary steel, cast iron materials processing series

The special tool design is very suitable for ordinary steel, cast iron materials processing
- HRC55

P K

Suitable for various steels universal processing series

The design of large helix angle and special edge, very suitable for all kinds of steel general processing
- HRC65

P K M 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
- ST-H

P K M H S

Suitable for hard steel, mold steel, and heat-treated steel material high-speed and efficient processing

The special tool design is very suitable for high-efficiency and high-speed cutting of hard steel, mold steel, and heat-treated material processing
- AL

N

Super bright aluminum processing series

Applicable to aluminum alloy material efficient ultra-bright processing

Square 4F

HRC 55

35°

S

P

M

K

N

S

H

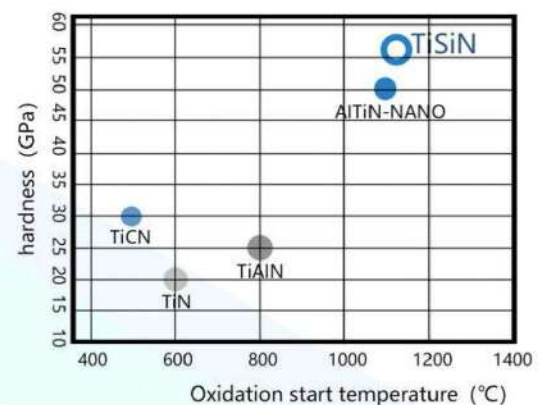
Unit (mm)

D	D ≤ 12	D > 12
Tol	0	0
	-0.015	-0.02

New TiSiN

Diameter D	Cutting Length L	Shank D2	Overall Length L2
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

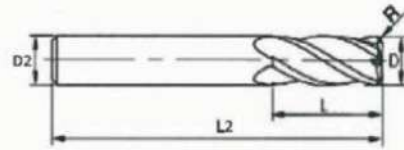


Irregular helix angle



[Improved productivity with effective machining due to less vibration]

Corner Radius 4F



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

Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
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	4	50
3	0.2	8	3	50
3	0.2	9	4	50
3	0.5	8	3	50
3	0.5	9	4	50
3.5	0.5	11	4	50
4	0.2	10	4	50
4	0.5	10	4	50
5	0.5	13	5	50
5	0.5	13	6	50
5	1	13	5	50
5	1	13	6	50
6	0.2	15	6	50
6	0.3	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
8	2	20	8	60
10	0.5	25	10	75
10	1	25	10	75
10	2	25	10	75
10	3	25	10	75
12	0.5	30	12	75



CPD **P** **K**

Rough processing for steel and cast iron material series
Suitable for roughing of hard steel and cast iron



DJD **P** **K**

Suitable for steel and cast iron material processing series
Suitable for steel and cast iron



TXD **P** **K**

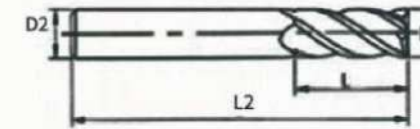
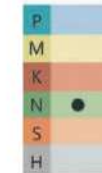
Suitable for various steels universal processing series
The special tool design is very suitable for various steels universal processing



NRD **P** **K**

Suitable for steel and cast iron material processing series
Suitable for steel and cast iron

Square 3F For Al



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

Diameter D	Cutting Length L	Shank D2	Overall Length L2
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	15	5	50
5	15	6	50
6	18	6	50
7	24	8	60
8	24	8	60
9	30	10	75
10	30	10	75
11	35	12	75
12	35	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Aluminum alloy material efficient ultra-bright processing



Inhibition of burr

Large front angle and small edge achieve excellent cutting effect.

Large Chip flute

The cutting and chip removal are more smooth and stable in the high feed processing.

Sharp cutting edge

Sharp cutting edge and large spiral angle design can effectively prevent the generation of built-up edge.



Special chip flute shape, can show excellent performance even in groove and cavity machining.



Product feature

TICN-AL coating, excellent wear resistance

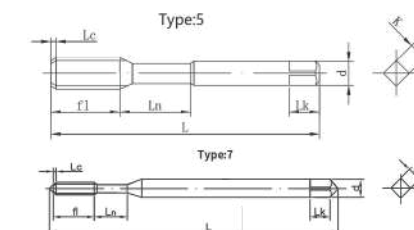
1

2

Suitable for 55C, 65Mn steel, alloy steel below 30HRC processing



HSS Spiral Fluted Taps



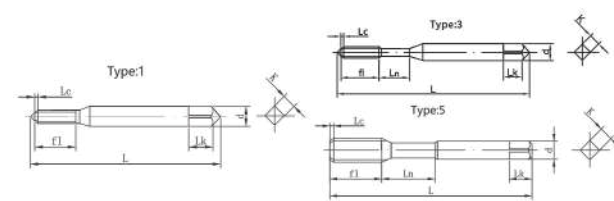
- ◎ High-speed steel material;
- ◎ YC-C50 coating, smooth chip removal, excellent wear resistance.
- ◎ Suitable for processing non-ferrous metals, ADC, AC, ZDC, MC, Cu, BSC, etc.



Unit:mm

Thread Size	Limit	LC	Type	(mm) Dimensions						Flutes
				L	f1	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
-	-	-	-	-	-	-	●	●	●	-	-	-



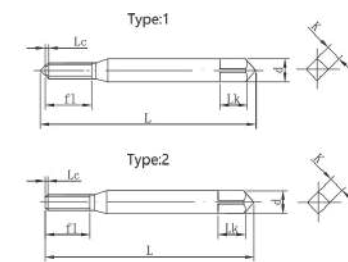
- ◎ High-speed steel material;
- ◎ YC-200 coating, suitable for difficult to machine stainless steel, excellent processing characteristics and wear resistance.
- ◎ Suitable for stainless steel 200 series, 300 series, etc.



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.

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
-	-	-	-	●	-	-	-	-	-	-	-	-



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

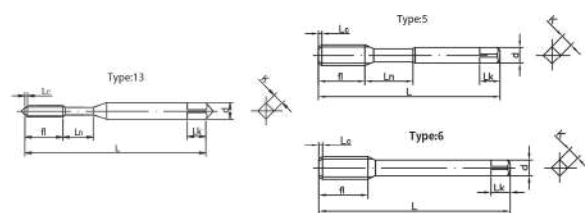
- ◎ High-speed steel material;
- ◎ TiCN-AL coating, excellent wear resistance.
- ◎ Suitable for processing carbon steel and alloy steel below 30HRC.



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
●	●	●	-	-	-	-	-	-	-	-	-	-



- ◎ 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.

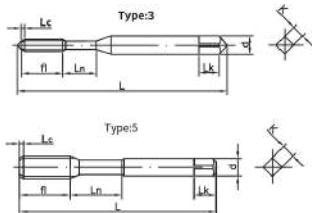


Unit:mm

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
-	-	-	-	-	-	-	●	●	●	-	-	-



- ◎ 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



Unit:mm

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
-	-	-	-	-	●	●	-	-	-	-	-	-

Aerospace Industry Solutions



Grade	Cobalt content %	Grain size	Density g/cm³	Hardness HRA
AK06	6	1.5	14.90	92.2
AK55	9	0.3	14.50	93.8
AK40	10	0.8	14.45	91.8
AK46	10	0.6	14.40	92.3
AK88	10	0.4	14.35	93.0
AK44F	12	0.4	14.15	92.6

ØD	TOL.		Length
D(mm)	Sintered	Ground	L(+5mm)
2.2	+0.0/+0.2	φ2(h6)	330
2.7	+0.0/+0.2	--	330
3.2	+0.0/+0.2	φ3(h6)	330
3.7	+0.0/+0.2	--	330
4.2	+0.0/+0.2	φ4(h6)	330
4.7	+0.0/+0.2	--	330
5.2	+0.0/+0.2	φ5(h6)	330
5.7	+0.0/+0.2	--	330
6.2	+0.0/+0.2	φ6(h6)	330
6.7	+0.0/+0.2	--	330
7.2	+0.0/+0.3	φ7(h6)	330
7.7	+0.0/+0.3	--	330
8.2	+0.0/+0.3	φ8(h6)	330
8.7	+0.0/+0.3	--	330
9.2	+0.0/+0.3	φ9(h6)	330
9.7	+0.0/+0.3	--	330
10.2	+0.0/+0.3	φ10(h6)	330
10.7	+0.0/+0.3	--	330
11.2	+0.0/+0.3	φ11(h6)	330
11.7	+0.1/+0.4	--	330
12.2	+0.1/+0.4	φ12(h6)	330
12.7	+0.1/+0.4	--	330



ØD	TOL.		Length
D(mm)	Sintered	Ground	L(+5mm)
13.2	+0.1/+0.4	φ13(h6)	330
13.7	+0.1/+0.4	--	330
14.2	+0.1/+0.4	φ14(h6)	330
14.7	+0.1/+0.4	--	330
15.2	+0.1/+0.4	φ15(h6)	330
16.2	+0.1/+0.5	φ16(h6)	330
17.2	+0.1/+0.5	φ17(h6)	330
18.2	+0.1/+0.5	φ18(h6)	330
19.2	+0.1/+0.5	φ19(h6)	330
20.2	+0.1/+0.5	φ20(h6)	330
21.2	+0.1/+0.5	φ21(h6)	330
22.2	+0.2/+0.6	φ22(h6)	330
23.2	+0.2/+0.6	φ23(h6)	330
24.2	+0.2/+0.6	φ24(h6)	330
25.2	+0.2/+0.6	φ25(h6)	330
26.2	+0.2/+0.6	φ26(h6)	330
27.2	+0.2/+0.6	φ27(h6)	330
28.2	+0.2/+0.6	φ28(h6)	330
29.2	+0.5/+1.1	φ29(h6)	330
30.2	+0.5/+1.1	φ30(h6)	330
32.2	+0.5/+1.1	φ32(h6)	330
33.2	+0.5/+1.1	φ33(h6)	330



Resin bond Hybrid bond Metal bond Polyx bond



CBN/Diamond

Application:

Resin diamond CBN grinding wheels for tool grinder are mainly used for grinding digital controlled cutting tools such as tungsten carbide, high speed steel, stainless drill, and reamer.

Specification:

Type	Model	Universal specs			
1A1		D	T	X	H
		75	10	5	20
		100	6, 10, 12	5, 10	20
		125	10, 12, 16	10	20
1V1		D	T	X	H
		75	10	5	20
		100	10, 15	5	20
		125	6, 10, 15	5	20
12V9		D	W	X	H
		75	3	10	20
		100	3	10	20
		125	3	10	20
11V9		D	W	X	H
		75	3	10	20
		100	2, 3	10	20
		125	3	10	20

Metal Industry Knives



Rotary Shear



Circular Shear

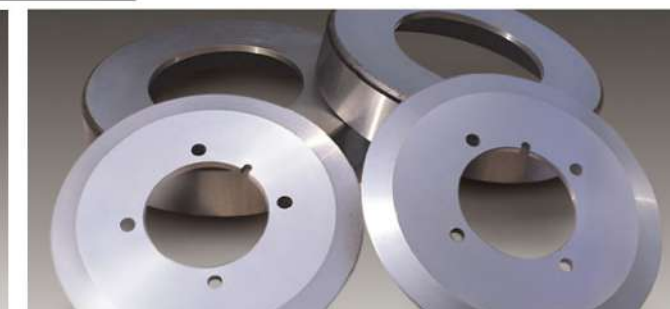


Single or Double
Shear Blades

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



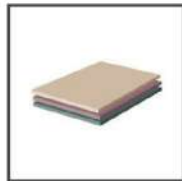
WPC Floor



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.

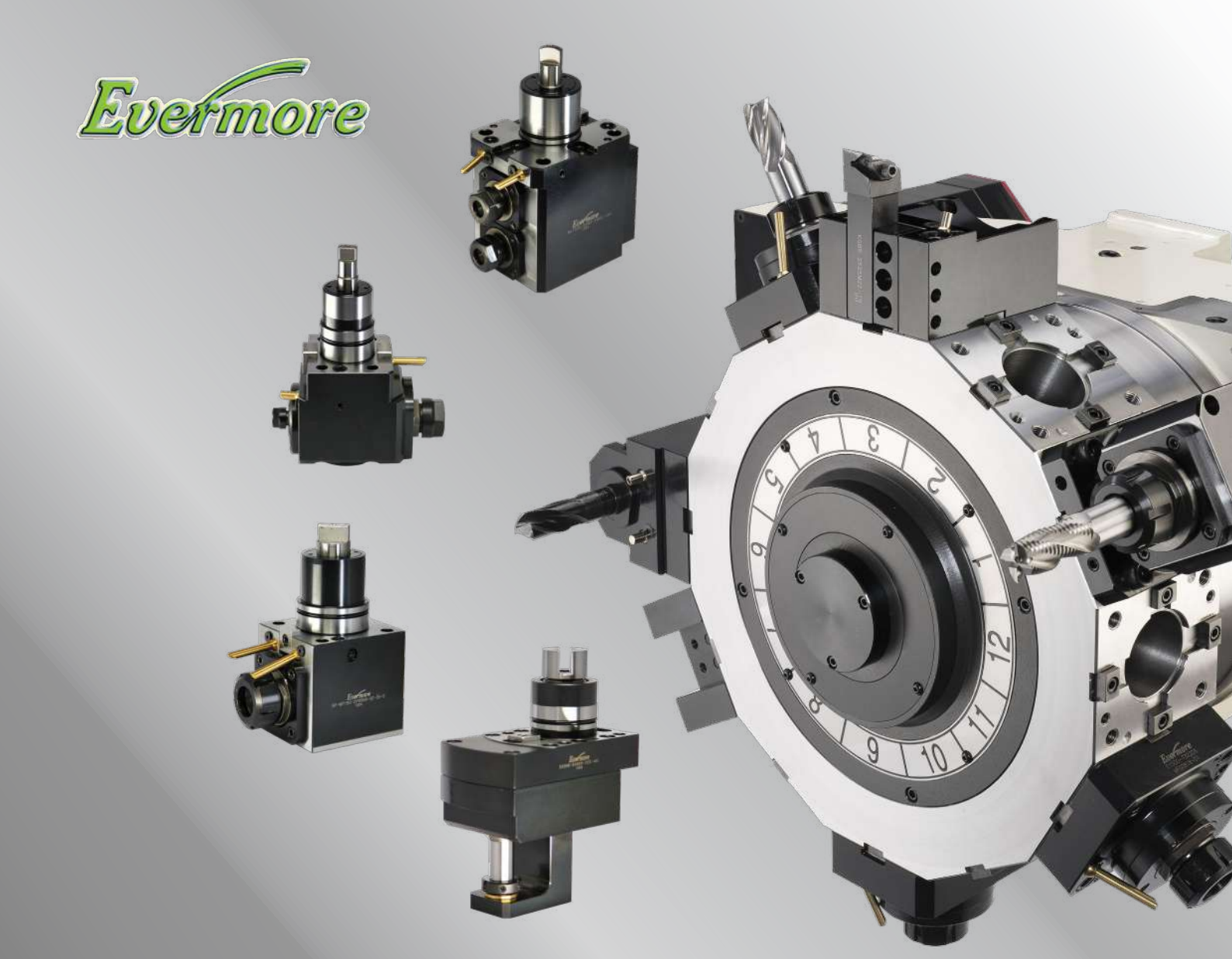
D (mm)	B (mm)	d (mm)	Z	Pin Hole
250	1.2/1.6/2.0/2.5	32	A/AW/B/BW	2/8/45+2/11/63
275	1.0/1.2/1.6/2.0/2.5	32	A/AW/B/BW	2/8/45+2/11/63
300	1.2/1.6/2.0/2.5	32/40	A/AW/B/BW/HZ	2/8/45+2/11/63, 2/8/45+2/9/50+2/11/63
315	1.6/2.0/2.5	32/40	A/AW/B/BW/HZ	2/8/45+2/11/63, 2/8/45+2/9/50+2/11/63
325	1.6/2.0/2.5	32/40	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

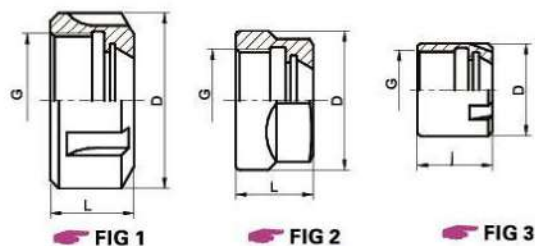
Each TCT saw blade has its own specifications, to ensure the sharpest cut and the longest life, every saw is specifically designed for each application. HAOJING offers TCT saw blade mounted with TCT tips for cutting along and across the grain of natural massive wood. Its diameter varies between 250 mm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



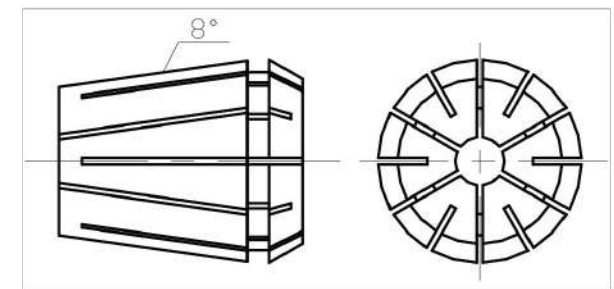
Automated Tooling Systems

ER 螺母 ER CLAMPING NUTS



訂貨型號 Order Code	圖號 FIG	ØD	L	G	推薦扭矩(Kg.m) Clamping Torque
CN-ER11	2	19	12	M14 × 0.75	5
-ER16		30	17.5	M22 × 1.5	7
-ER20		34	19	M25 × 1.5	12
-ER25	1	42	20	M32 × 1.5	20
-ER32		50	22.5	M40 × 1.5	22
-ER40		63	25.5	M50 × 1.5	25
-ER11M	3	17.5	12	M13 × 0.75	3
-ER16M		22	18	M19 × 1.0	4
-ER20M		28	19	M24 × 1.0	8
-ER25M		35	20	M30 × 1.0	15

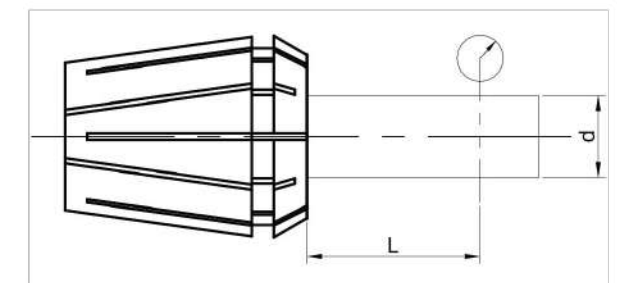
ER 彈性筒夾 ER SPRING COLLETS



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

ER筒夾精度表 Accuracy table for ER collets

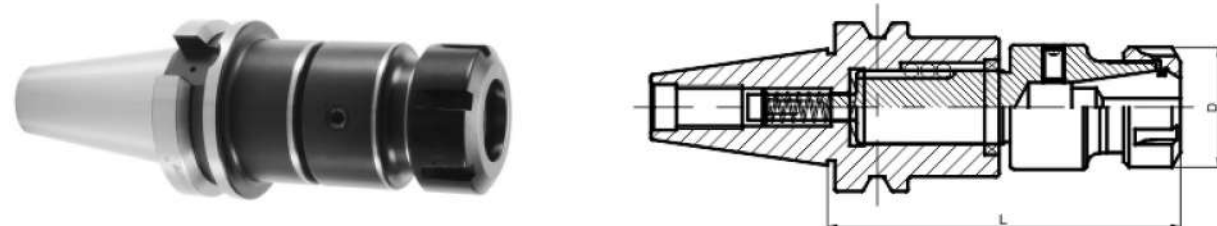
夾持範圍 ød	檢測長度 L
1.0~1.6	6
1.6~3.0	10
3.0~6.0	16
6.0~10.0	25
10.0~18.0	40
18.0~26.0	50
26.0~34.0	60



筒夾等級 COLLET LEVEL	跳動精度 RUNOUT
AA	<0.01
A	0.01~0.02

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

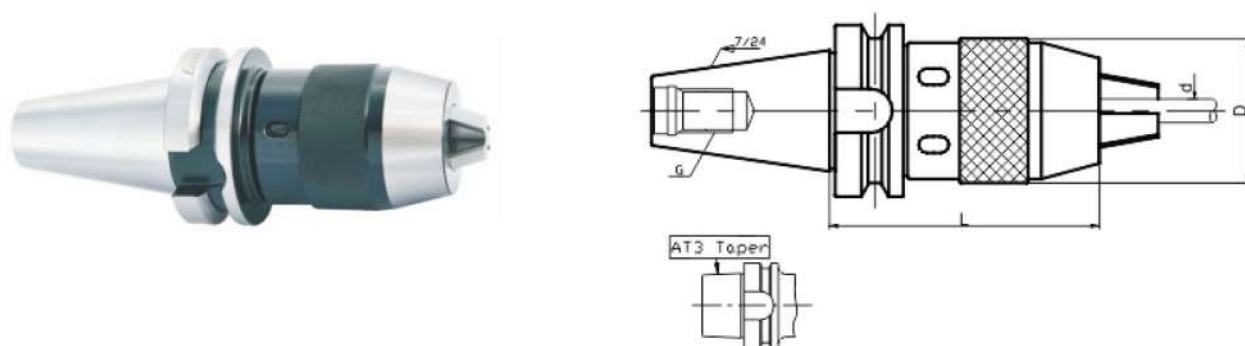
Evermore



訂貨型號 Order Code	L	ØD	筒夾型號 Collet Type	重量(Kg) Weight
BT30-WER16-90	90	30	ER16	0.8
-WER20-100	100	34	ER20	0.9
BT40-WER16-90	90	30	ER16	1.3
-WER20-100	100	34	ER20	1.4
-WER25-110	110	42	ER25	1.7
-WER32-120	120	50	ER32	1.9
BT50-WER16-90	90	30	ER16	3.9
-WER20-100	100	34	ER20	4.0
-WER25-110	110	42	ER25	4.2
-WER32-120	120	50	ER32	4.5
-200	200	50	ER32	5.2

★ 以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs, please order them if necessary.

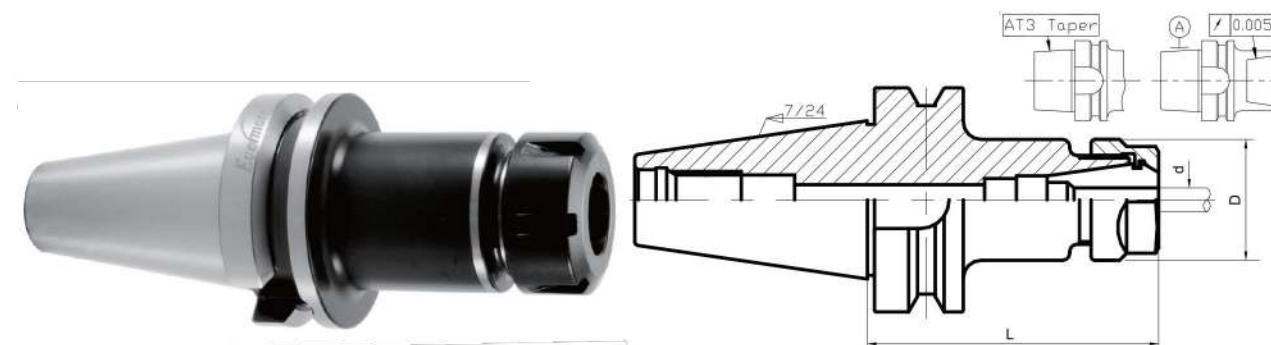
KPU鑽夾頭刀柄 - BT柄 KPU DRILL CHUCK HOLDERS - BT(MAS403) SHANK



訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	G	重量(Kg) Weight
BT30-KPU08	75	36	0.5-8	M12	0.8
-KPU13	91	50	0.5-13		1.2
BT40-KPU08	80	36	0.5-8	M16	1.3
-KPU13	95	50	0.5-13		1.8
-KPU16	113	57	3-16		2.3
BT50-KPU13	105	50	0.5-13	M24	4.4
-KPU16	110	57	3-16		4.7

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

Evermore

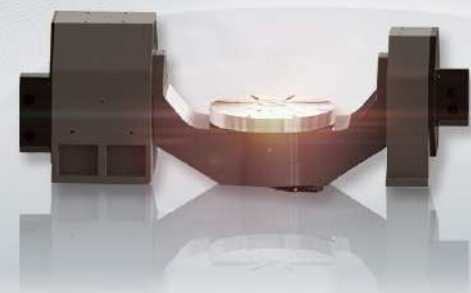
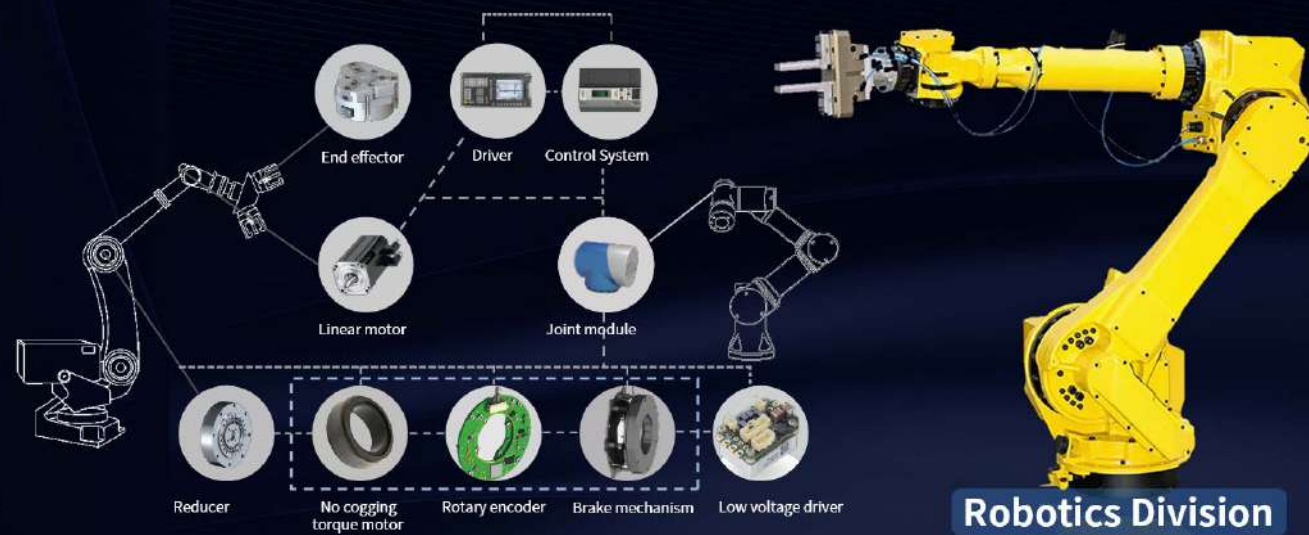


訂貨型號 Order Code	L	ØD	夾持範圍 Ød Clamping range	重量(Kg) Weight
BT30-ER11-60	60	19	2.5-7	0.5
-100	100			0.6
-ER16-45	45	30	2.0-10	0.5
-60	60			0.6
-100	100			0.7
-ER20-60	60	34	2.0-13	0.5
-100	100			0.8
ER25-60	60	42	2.0-16	0.6
-100	100			1.0
-135	135			1.2
-ER32-60	60	50	2.0-20	0.6
-100	100			0.9
BT40-ER11-60	60	19	2.5-7	1.1
-100	100			1.2
-ER16-60	60	30	2.0-10	1.1
-100	100			1.3
-150	150			1.5
-ER20-60	60	34	2.0-13	1.1
-100	100			1.2
-150	150			1.7
-200	200	42	2.0-16	2.0
-ER25-60	60			1.1
-100	100			1.5
-135	135			1.9
-150	150			2.0
-200	200			2.4

★ The above model does not contain spanners, collets and pull studs, please order them additionally if necessary.

Haozhi Industrial

To become a company that design and manufacture core functional components for the world's top-level machines.



Perfect production And Quality Control Procedures
And After-Sales Service Sytem
To Create Exquisite Products



Products



Machining center series



Engraving and Milling Spindle



Dental Milling Spindle



Rotary Table



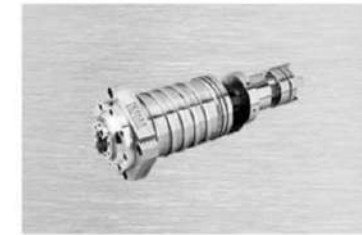
Reducer



Core functional parts of the robot



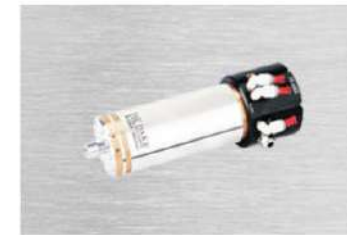
PCB Spindle



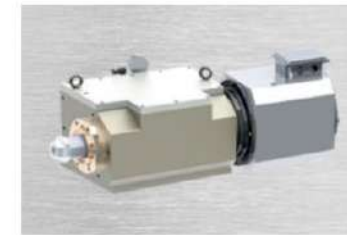
Belt Driven and Direct Driven Spindle



Glass Grinding Spindle



Super Finish Spindle



Hydraulic static spindle series



Motorized spindle series for drilling and tapping center



Grinding Spindle



Lathe Spindle



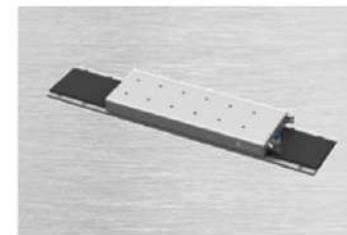
Woodworking Spindle



Tool Holder



Collet



Linear motor series



Automated fixture (outside)



Automated fixture (inside)



Digital Controls



Servo Motor



Bending machine control system



Servo Driver



Motorized Spindle

- Ball Bearing (Ø33mm~Ø280mm)
- Air Bearing (80Krpm~400Krpm)
- Milling/Turning/Grinding



Direct Drive Spindle

- Machining Center (BT30/BT40/BT50)
- Turning (A2-4/A2-5/A2-6/A2-8)



Rotary Table (DD/Harmonic)

- 4-Axis rotary table
- 5-Axis rotary table



Reducer

- Harmonic
- RV (under R&D)



Linear Motor (new launch)



Tool Holder and Collet

- HSK/BT/BBT/ISO

DD Rotary Table

Table plate diameter	Ø110mm	Ø125mm	Ø180mm	Ø255mm	Ø280mm	Ø350/400mm	Ø465
5-Axis							
4-Axis							
							

High Precision Light Load Milling

											
Model	DGZX-06260			DGZX-08040		DGZX-10036			DGZX-12030		
Diameter(mm)	Ø62			Ø80 / Ø83 / Ø85		Ø100 / Ø105			Ø200		
Tool Interface	ISO 10/ T11			ISO 20/ HSK E25		ISO/20/ISO25/HSKE25/HSKE32/HSKE40			BBT30/BT30/ HSKE32		
Motor type	Asynchronous			Asynchronous		Asynchronous/Synchronous			Asynchronous/Synchronous		
Motor winding	Single			Single		Single			Single/Double		
Bearing	Ceramic ball bearing			Ceramic ball bearing/ Oil-air bearing		Ceramic ball bearing/ Oil-air bearing			Ceramic ball bearing/ Oil-air bearing		
	DGZ-03360	DGZ-04560	DGZ-60C PLU								
Diameter(mm)	Ø33	Ø45	Ø60	Ø80	Ø100	Ø120	Ø150	Ø180	Ø210	Ø240	Ø280
Max Speed(rpm)	60K	60K	60K	40K	36K	30K	20K	20K	18K	12K	10K
Tool interface	collet	collet	Collet/ ISO	ISO/ HSK	ISO/ HSK	BT/ HSK	HSK/ BBT	HSK/ BBT	HSK/ BBT	HSK/ BBT	HSK/ BBT

High Precision Heavy Load Milling Spindles

				
Model	DGZX-15020	DGZX-18016 (new launch)	DGZX-21024(new launch)	DGZX-28016 (Kessler 5 axial head) (new launch)
Diameter(mm)	Ø150	Ø180	Ø210	Ø280
Tool Interface	HSK A63/HSK E50 BBT30/BBT40	HSK A63/BBT 40	HSKA63 / BBT40	HSK A100
Motor type	Asynchronous/Synchr onous	Asynchronous	Asynchronous/Synchronous	Asynchronous/Synchronous
Motor winding	Single/Double	Single/Double	Single/Double	Single/Double
Bearing	Ceramic ball bearing/ Oil-air bearing	Ceramic ball bearing/ Oil-air bearing	Ceramic ball bearing/ Oil-air bearing	Ceramic ball bearing/ Oil-air bearing

Screwdriver

Double-End Phillips Bit

	Tip Size	mm	Part Number
	 	PH1	45mm DBD6PH145
		PH2	45mm DBD6PH245
		PH3	45mm DBD6PH345
		PH1	50mm DBD6PH150
		PH2	50mm DBD6PH250
		PH3	50mm DBD6PH350
		PH1	65mm DBD6PH165
		PH2	65mm DBD6PH265
		PH3	65mm DBD6PH365
		PH2	75mm DBD6PH275
		PH2	100mm DBD6PH2100
		PH2	150mm DBD6PH2150
		PH2	200mm DBD6PH2200
		PH2	250mm DBD6PH2250
		PH2	300mm DBD6PH2300
		PH2	350mm DBD6PH2350
		PH2	400mm DBD6PH2400

Phillips & Slotted Double Ended Power Bit

	Tip Size	mm	Part Number
	 	PH2-SL6	65mm DBD6PH2SL665
		PH2-SL6	100mm DBD6PH2SL6100

Pozi Double Ended Power Bit

	Tip Size	mm	Part Number
	 	PZ2	65mm DBD6PZ265
		PZ2	100mm DBD6PZ2100

Phillips & Slotted Double Ended Power Bit

	Tip Size	mm	Part Number
	 	PH2-SL6	65mm DBD6PH2SL665-1
		PH2-SL6	100mm DBD6PH2SL6100-1

WIPESTAR

Wiping Cloths

Wiping Papers

