

Deep Hole Drilling



Hi-Tech Cutting Tool Co., Ltd.

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Add: No. 8, West 1st District, Shihe Road, Shilongkeng Village, Liaobu Town, Dongguan City, China

COMPANY PROFILE



Dongguan Hi-tech Cutting Tools Co., Ltd., it was established in 2011, is a high-tech enterprise, collection of R&D, production, sales and technical service in carbide cutting tools, located in Dongguan city Guangdong province, one modern production factory with world class cemented carbide tool production technology was established in Zhuzhou city since 2017, which is a beautiful city in Southern part of China. Zhuzhou is the most famous carbide base in China which has massive industrial fundament, is the largest production, R&D and sales base in carbide inserts of China.

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Since April 2017, 100 Million Yuan was invested in advanced equipment, after the continuous optimization of technologies and process, a complete production line was set up. We has a modern factory which more than 10000 square meters, combines molding, mixture material, pressing, sintering, further processing, PVD and CVD coating.

Own advanced equipment in material analysis, structure plotting, dimension measurement and appearance instrument, we provide wide range of carbide inserts with high-quality for turning, milling, drilling, peeling application. All standard and customized products can be applied in different materials including P,M,K etc.

We are proud to solve problem for you and develop together with you. Choosing us, trust us, make your machining easier!

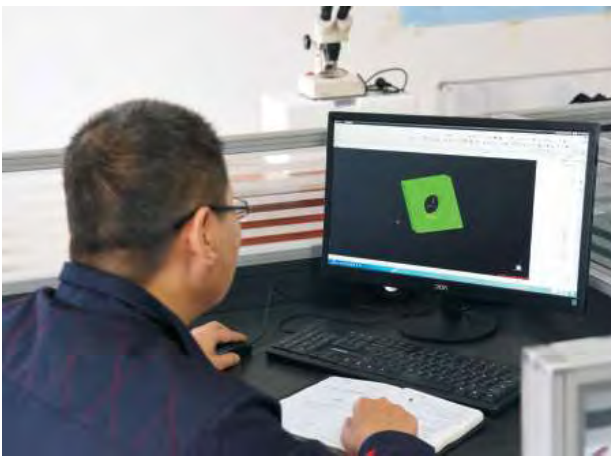
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TECHNOLOGICAL PROCESS

R & D CAPABILITIES

The professional R&D team can make positioning according to the application conditions and scope of the inserts. Based on theoretical and experimental data, it is closely integrated with the production process control, using advanced three-dimensional modeling software to realize parametric structural design. Pay attention to process quality control and all products have passed the cutting test. We demonstrate and optimized the product development and design from the perspective of application practice, fully meet the customer needs in various industries for CNC insert, achieve continuous improvement and promotion of product performance and quality.



R&D Development

PRESSING DIE MANUFACTURING

Using modern high-precision CNC machining equipment, world-class tooling fixture system, advanced processing technology control, high-precision inspection equipment, effectively ensuring mold accuracy and processing efficiency.



Pressing Die Manufacturing

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CEMENTED CARBIDE MIXTURE PREPARATION

Scientific and precise ingredient formula, precisely controlled ball milling process combined with advanced spray drying granulation technology, to prepare high-quality mixture powder with good moldability and stable performance, which provides an effective guarantee for the control of product pressing accuracy。



Cemented Carbide Mixture Preparation

SWITZERLAND ELECTRIC PRESSES

Using high-precision and high-efficiency fully automatic forming presses, all-alloy molds with precision of U grade that are independent development, design and production. And advanced precision forming process control technology can produce CNC insert blanks with dimensional accuracy above K grade of ISO standard.



Switzerland Electric Presses

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PRESSURE SINTERING FURNACE

The advanced pressure sintering furnace ensures the good performance of the equipment in terms of temperature field, atmosphere treatment and high-pressure gas pressure distribution; a series of scientific and effective sintering furnace monitoring and control systems , cooperate with a unique sintering process Curve, can produce a variety of carbide blanks with excellent functional structure and stable performance, to ensure the perfect combination of coating and blanks, and then meet the application of tools under various extreme conditions.



Pressure Sintering Furnace

Double Side Grinding



Passivation



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GRINDING CENTER

Periphery Grinder



Grooving Insert Grinder



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Grooving Insert Grinder



Cutting Edge Grinder



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CLEANING



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PVD COATING

Advanced physical vapor deposition (PVD) coating equipment and technology, rich in coating types, good adhesion, excellent performance, and wide range of application.



PVD coating equipment

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CVD COATING

Advanced chemical vapor deposition (CVD) equipment and technology can be used for Ti, Al carbon, nitrogen, and oxide coatings. Stable and controllable coating structure and morphology, good adhesion, excellent performance.



CVD coating equipment

QUALITY CHECK



WAREHOUSE



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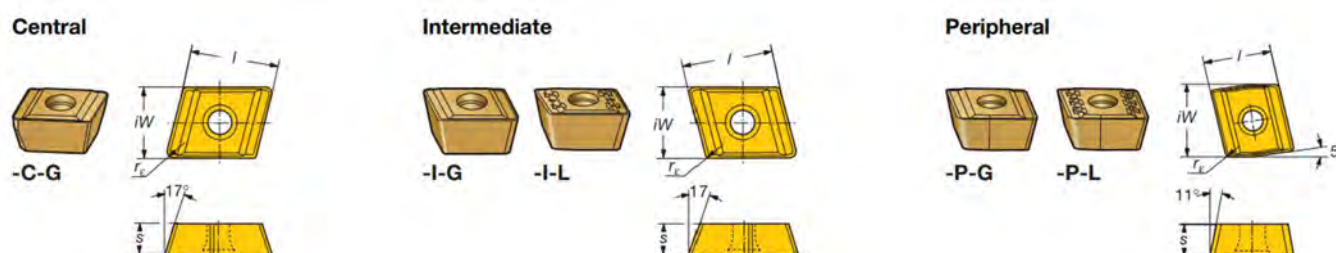
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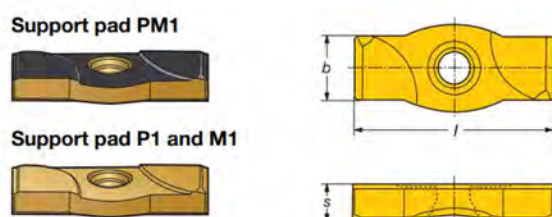
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Inserts for 800.24 and 800.20 solid drill heads



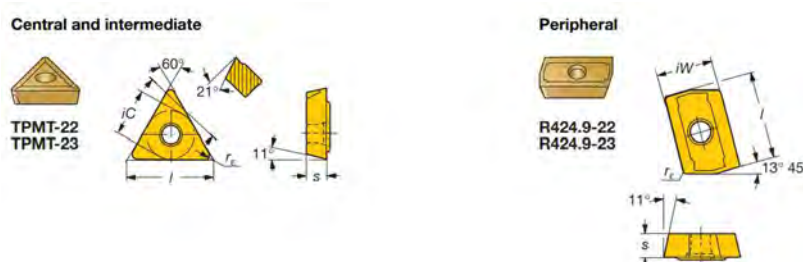
Size	Insert code	Grade	Dimensions, mm			
L			l	lw	s	rε
	Central					
5	800-05 03 08M-C-G	HP1125	5,56	9,87	3,18	0,8
6	800-06 T3 08M-C-G	HP1125	6,35	9,87	3,97	0,8
8	800-08 T3 08M-C-G	HP1125	7,94	9,87	3,97	0,8
10	800-10 T3 08M-C-G	HP1125	9,53	9,87	3,97	0,8
12	800-12 T3 08M-C-G	HP1125	12,70	9,87	3,97	0,8
	Intermediate					
5	800-05 03 08M-I-G	HP1125	9,87	5,56	3,18	0,8
5	800-05 03 08M-I-L	HP1125	9,87	5,56	3,18	0,8
6	800-06 T3 08M-I-G	HP1125	9,87	6,35	3,97	0,8
6	800-06 T3 08M-I-L	HP1125	9,87	6,35	3,97	0,8
8	800-08 T3 08M-I-G	HP1125	9,87	7,94	3,97	0,8
8	800-08 T3 08M-I-L	HP1125	9,87	7,94	3,97	0,8
12	800-12 T3 08M-I-G	HP1125	9,87	12,70	3,97	0,8
12	800-12 T3 08M-I-L	HP1125	9,87	12,70	3,97	0,8
	Peripheral					
6	800-06 03 08H-P-G	HP1125	6,50	8,00	3,18	0,8
6	800-06 03 08H-P-L	HP1125	6,50	8,00	3,18	0,8
8	800-08 T3 08H-P-G	HP1125	8,50	9,00	3,97	0,8
8	800-08 T3 08H-P-L	HP1125	8,50	9,00	3,97	0,8
9	800-09 T3 08H-P-G	HP1125	9,68	9,00	3,97	0,8
9	800-09 T3 08H-P-L	HP1125	9,68	9,00	3,97	0,8
11	800-11 T3 08H-P-G	HP1125	12,75	9,00	3,97	0,8
11	800-11 T3 08H-P-L	HP1125	12,75	9,00	3,97	0,8

Support pads for 800 solid drill heads



Width b	Support pad code	Grade	Dimensions, mm		
			b	l	s
6	800-06A	HP1125	6	18	3,0
7	800-07A	HP1125	7	20	3,5
8	800-08A	HP1125	8	25	4,5
10	800-10A	HP1125	10	30	4,5
12	800-12A	HP1125	12	35	5,5

Inserts for T-MAX424.10 solid drill heads

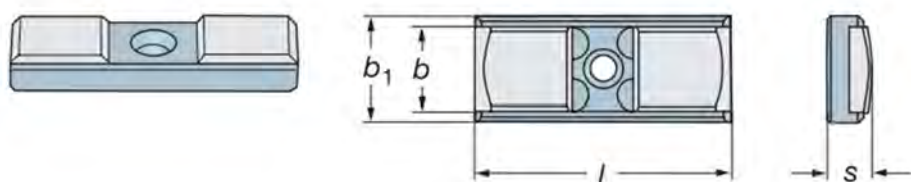


Size L	Insert code	Grade	Dimensions, mm				
			iC	iW	l	s	r ε
	Central and Intermediate						
16	TPMT 16 T3 12R-22	HP1125	9,525	--	16,5	3,97	1,2
16	TPMT 16 T3 12TR-23	HP1125	9,525	--	16,5	3,97	1,2
22	TPMT 22 06 12R-22	HP1125	12,7	--	22,0	6,35	1,2
22	TPMT 22 06 12TR-23	HP1125	12,7	--	22,0	6,35	1,2
	Peripheral						
13	R424. 9- 13 T3 08-22	HP1125	--	10,0	14,7	3,97	0,8
13	R424. 9- 13 T3 08-23	HP1125	--	10,0	14,7	3,97	0,8
18	R424. 9- 18 06 08-22	HP1125	--	11,5	20,6	6,35	0,8
18	R424. 9- 18 06 08-23	HP1125	--	11,5	20,6	6,35	0,8

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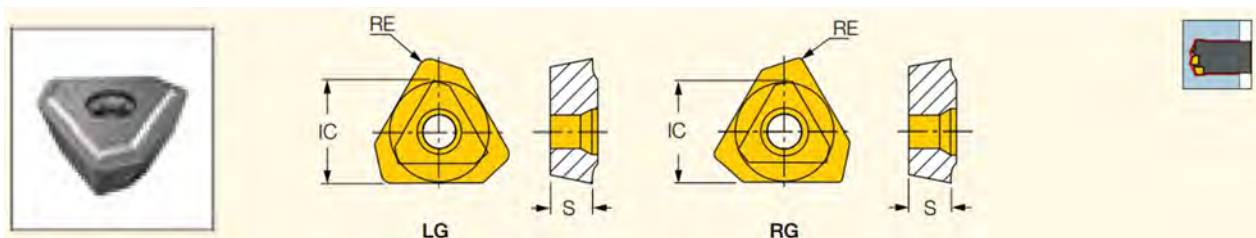
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Support pads for T-MAX424.10 solid drill heads



Width b	Support pad code	Grade	Dimensions, mm			
			b	b1	l	s
12	430. 32-12 Dxx. x	HP1125	12	14	35	7,0
16	430. 32-16 Dxx. x	HP1125	16	20	50	8,5

Inserts for Drilling Heads DSD-EC / DDD-EC / DSD-IC / DSC-EC / DSC-IC

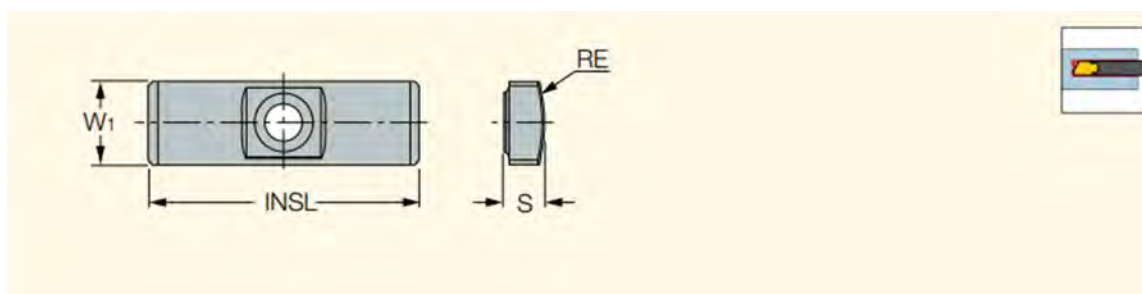


Item	Dimensions, mm			Grade
	IC	S	RE	
TPMX1403R-B	8.45	3.5		HP1125
TPMX1403R-G	8.45	3.5		HP1125
TPMX1704R-B	10.3	4		HP1125
TPMX1704R-G	10.3	4		HP1125
TPMX2405R-B	14.2	5.5		HP1125
TPMX2405R-G	14.2	5.5		HP1125
TPMX2807R-B	17	7.5		HP1125
TPMX2807R-G	17	7.5		HP1125

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Deep Drilling Solid Carbide Guide Pads



Item	Dimensions, mm				Grade
	W1	INSL	S	RE	
GPS-04-16-055	4.0	16.0	2.0	5.5	HP1125
GPS-05-18-060	5.0	18.0	2.5	6.0	HP1125
GPS-06-20-075	6.0	20.0	3.0	7.5	HP1125
GPS-06-20-085	6.0	20.0	3.0	8.5	HP1125
GPS-06-20-100	6.0	20.0	3.0	10.0	HP1125
GPS-06-20-120	6.0	20.0	3.0	12.0	HP1125
GPS-07-20-120	7.0	20.0	3.5	12.0	HP1125
GPS-08-25-155	8.0	25.0	4.5	15.5	HP1125
GPS-10-30-200	10.0	30.0	4.5	20.0	HP1125
GPS-10-35-200	10.0	35.0	6.0	20.0	HP1125
GPS-12-35-250	12.0	35.0	5.5	25.0	HP1125
GPS-14-40-250	14.0	40.0	7.5	25.0	HP1125
GPS-18-40-300	18.0	40.0	9.0	30.0	HP1125



Your Professional Cutting Partner!

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