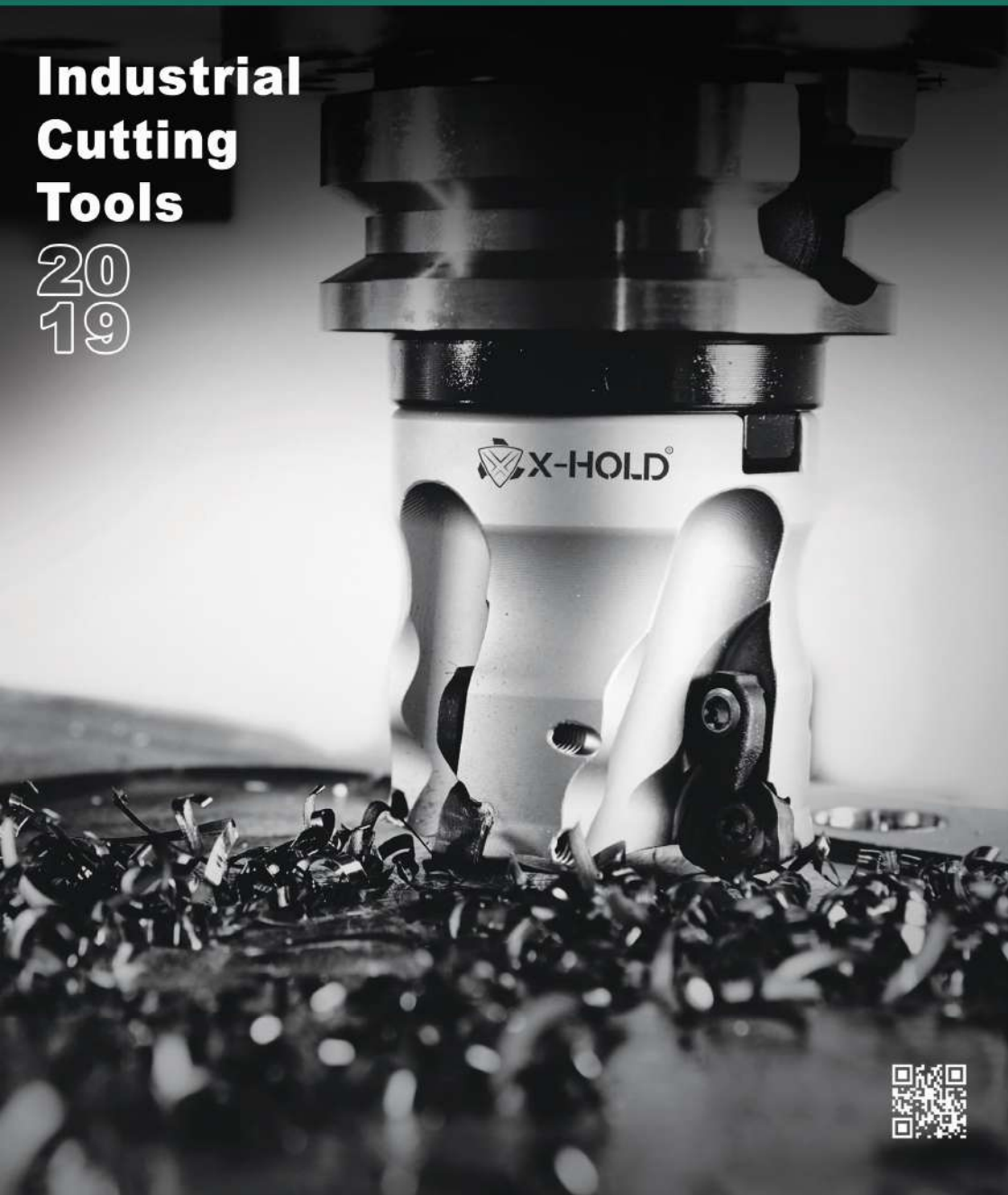




اولین تولید کننده هلدیهای ماشینکاری در ایران

Industrial Cutting Tools

20
19



Taban Gostar Pooya industrial group has provided CNC machinery services for various industries by applying the best machines for a long time.

This company has produced machinery holders with X-hold brand for the first time in Iran which can compete with famous companies.

X-hold offers high quality and swap guarantee in order to meet costumers expectations.





شرکت تابان گستر پویا با بهره گیری از ماشین آلات به روز اروپایی سال‌ها در انجام خدمات ماشین کاری CNC فعالیت داشته و خدمات ارزنده ای را بطور مستمر به صنایع نیروگاهی، خودرو و ریلی ارائه کرده است. این شرکت برای اولین بار با شناسایی نیاز روز بازار اقدام به تولید هولدرهای ماشینکاری با نام تجاری X-hold نموده که توانسته با شرکت های خارجی رقابت کند و تولید این هولدرها را در داخل کشور بومی سازی نماید. از امتیازات محصول X-hold کیفیت بالا، گارانتی تعویض بی قید و شرط و ارسال رایگان آن است که رضایت خاطر مشتریان را فراهم می نماید.





The company has a full set of high-level producing equipment ranging from raw power material preparation, mould manufacture, pressing, pressure sintering, grinding to post processing. We use spray drying tower in mixing process. Its advanced technique ascertains the best performance behavior of material in physical property and formability.

Using powder compacting press with Electro-Servo Motor Direct Drive, the most advanced machine for press shaping in the world, which meet the high requirements on precision, performance and stability. For sintering, we equipped the most advanced devices to meet the quality requirements on chemical and physical performance.

For grinding and machining, we equipped Fully auto CNC periphery insert grinder, CNC two-wheel flat lapping machine etc. to ensure product shape and precision demand. We also use the most advanced PVD/CVD coating machines. The state-of-the-art sub-sequence process devices equipped for better performance.





شرکت هاردستون در زمینه تولید اینسرت‌های کاربردی با بهره‌گیری از خطوط تولید ژاپنی و اروپایی کاملاً اتوماتیک و هوشمند، و با نظارت مستقیم مهندسين اروپایی توانسته محصولاتى در سطح و کیفیت نمونه‌های مشابه شرکت‌های مطرح دنیا تولید نماید.















دستگاه‌های پرس پودر اینسرت این شرکت تماماً از برندهای ژاپنی و آلمانی با تکنولوژی سرو موتور درایو مستقیم می‌باشد که از نظر میزان فشار پرس، دقت ابعادی و یکنواختی، محصول تولیدی کاملاً تحت کنترل می‌باشد.





همچنین کلیه خطوط روکش PVD / CVD این مجموعه ساخت شرکت اریکون و ساکوتک سوئیس می‌باشد.







The Explanation Of Turning Insert Chip-breaker

● Negative Inserts

Chip-breaker	Shape and features	Using for	Precision	Recommended Parameters
MT 	Double-sided chipbreaker, it is suitable for steel machining and has wide application. 	Steel machining	M	ap: 1.00~ 5.00 fn: 0.20~ 0.5
M 	It is suitable for steel machining and has wide application. 	Steel machining	M	ap: 1.00~ 4.00 fn: 0.20~ 0.5
GF 	It is suitable for Steel finish machining. 	Steel machining	M	ap: 0.15~2.00 fn: 0.08~0.18
GT 	It is universal chipbreaker, used for semi-finishing and roughing, the nose and cutting edge sharp and strong. 	Steel machining	M	ap: 1.00~5.0 fn: 0.20~0.50
BF 	For finishing of M-type material double-sided chipbreaker, it has sharp edges, which can effectively cut off stainless steel and solve the problem of surface hardening, etc 	Stainless steel machining	M	ap: 0.15~2.00 fn: 0.08~0.18
BM 	For semi-finishing of M-type material, double-sided chipbreaker, it is suitable for stainless steel machining and has wide application. * 	Stainless steel machining	M	ap: 0.50~8.50 fn: 0.10~0.55
BR 	For rough finishing of M-type material double-sided chipbreaker, the chipbreaker has been optimized, it has wide application for light load rough machining of stainless steel. 	Stainless steel machining	M	ap: 1.50~11.00 fn: 0.15~1.00

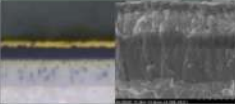

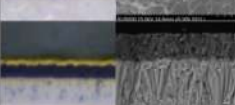





Chip-breaker	Shape and features	Using for	Precision	Recommended Parameters
Universal 	Recommended chipbreaker type for general machining it is suitable for K-type material. 	Cast iron machining	M	ap: 0.20~8.00 fn: 0.15~0.60
Non 	For cast iron machining the cutting edge is very strong, it is the first choice for cast iron machining 	Cast iron machining	M	ap: 0.20~12.00 fn: 0.10~1.20

● Positive Inserts With Hole

Chip-breaker	Shape and features	Using for	Precision	Recommended Parameters
MP 	For stainless steel The hole processing has better comprehensive performance and strong versatility. 	Stainless steel machining	M	ap: 0.10~ 3.6 fn: 0.03~ 0.4
AK 	Recommended chipbreaker for machining of Al alloy large rake angle and sharpening cutting edge, it can achieve easy and fast cutting. Due to surface polishing treatment, It has good resistance to adhesive performance. * 	Aluminium machining	G	ap: 0.10~ 8.00 fn: 0.10~ 0.50

Turning Insert

The Instruction Of Grade

Grade	Coating Structure				
	Coating Way	Coating Color	Pictures	Component	Range
WS8115	CVD	Double Color black-yellow		TiN+MT -TiCN+Al2O3 +TiN	Thick
WS8125	CVD	Double Color black-yellow		TiN+MT -TiCN+Al2O3 +TiN	Thick
WS8123	CVD	gold-yellow		TiN+MT -TiCN+Al2O3 +TiN	Thick-
WS6105	CVD	Black		TiN+MT -TiCN+Al2O3	Thick
WS6115	CVD	Black		TiN+MT -TiCN+Al2O3	Thick+
WS5125	PVD	Grey Black		AlTiN	Thin
WS7125	PVD	Grey Black		AlTiN	Thin
WSK10	Un-Coated	Silver gray			

Application	ISO	Wear Resistance ←————→ Toughness									
		01	05	10	15	20	25	30	35	40	45
		<p>It is suitable for the stable turning environment and the pursuit of high wear resistance; processing general steel, when the cooling is better, the Vc can reach more than 350m/min.</p>	P10~P20			▶	▶	▶			
<p>It is firstly grade for general steel turning, from finishing to rough machining, it has strong comprehensive performance from low speed to high speed, and also can be competent for general interrupted turning.</p>	P15~P30				▶	▶	▶	▶			
<p>It is suitable for the high speed of parting and grooving turning.</p>	P15~P30				▶	▶	▶	▶			
<p>It is the most abrasion resistant material grades for turning of Gray iron and Cast iron ; it also can be used for high hardness and high wear resistant steel pieces of dry cutting.</p>	K05~K10		▶	▶							
<p>It is the firstly grade for turning of Gray iron and Cast iron, good comprehensive performance, it is also suitable for general intermittent processing, it can be used for lower speed roughing of quenched steel and high strength steel.</p>	K10~K20			▶	▶	▶					
<p>It is special grade for threading turning which used for steel, stainless steel, cast iron and other materials.</p>	P10~P25 M10~M25 K10~K25			▶	▶	▶	▶				
<p>It is the firstly grade of stainless steel parting and grooving inserts, it meets the middle and low speed cutting and cutting requirements of steel and cast iron.</p>	P15~P30 M15~M30 K15~K30				▶	▶	▶	▶			
<p>It is suitable for the vehicle and milling of nonferrous metal materials, graphite and cast iron , aluminum, copper and other materials. It can also be used for low speed turning of titanium alloy and high temperature alloy.</p>	K05~K10		▶	▶							

Turning Insert

Overview

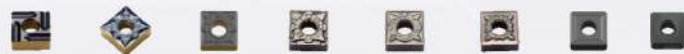
● Negative inserts



CNMG+-MT CNMG+-GF CNMG+-GT CNMG+-BF CNMG+-BM CNMG+-BR CNMG+ CNMA+



DNMG+-MT DNMG+-GF DNMG+-GT DNMG+-BF DNMG+-BM DNMG+ DNMA+



SNMG+-M SNMG+-GF SNMG+-GT SNMG+-BF SNMG+-BM SNMG+-BR SNMG+ SNMA+



TNMG+-MT TNMG+-GF TNMG+-GT TNMG+-M TNMG+-BF TNMG+-BM TNMG+-BR TNMG+ TNMA+



VNMG+-MT VNMG+-GF VNMG+-GT VNMG+-BF VNMG+-BM VNMG+ VNMA+



WNMG+-MT WNMG+-GF WNMG+-GT WNMG+-M WNMG+-BF WNMG+-BM WNMG+-BR WNMG+ WNMA+

● Positive Inserts



CCMT+-MP DCMT+-MP SCMT+-MP TCMT+-MP TCMT+ RCMX+

● Aluminium Inserts



DCGT+ DCGT+ TCGT+ VCGT+

General Milling Insert

Overview

- Inserts for square shoulder milling



- Inserts for face milling 45°



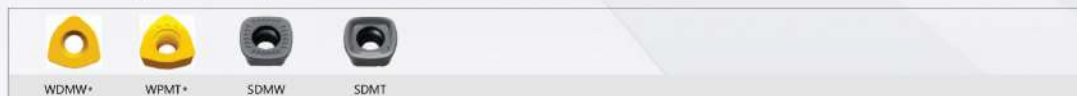
- Inserts for profile milling



- Inserts for face milling 75°



- Inserts for high feed milling



Heavy Milling Insert

Overview

• C *** - Serie



CN**-4e CN**-2R CN**-4R

• F *** - Serie



FQ**-R-R FQ**-4RXR FQ**-2R-R

• LN *** - Serie



LN**-4e LN**-DR LN**-NR LN**-2NR LN**-2R LN**-2R-1 LN**-4R

• SN *** - Serie



SN**-4e SN**-2R SN**-DR SN**-2NR SN**-4R SN**-54R

• ZN *** - Serie



ZNEB-DQ



X-HOLD®
DIN 20716, ISO 100-100-23
APR 1998, 10

X-HOLD®
ISO 100-100-100-100
APR 1998, 10

X-HOLD®
ISO 100-100-100-100
APR 1998, 10

X-HOLD®
ISO 100-100-100-100
APR 1998, 10

X-HOLD®



Face milling Holders

Run out ≤ 0.02

Improved cutting angles

Special coating

Precise diameter tolerance

Minimum vibration



End milling Holders

Run out ≤ 0.02

Improved cutting angles

Special coating

Precise diameter tolerance

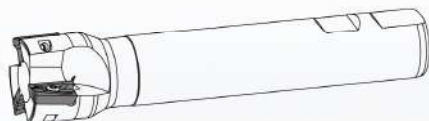
Minimum vibration




A close-up photograph of a silver-colored metal component, likely a part of a mechanical assembly. The component features a prominent logo consisting of a stylized 'X' inside a diamond shape, followed by the text 'X-HOLD' and a registered trademark symbol. The component has several circular holes and a central threaded section. The lighting is dramatic, highlighting the metallic texture and the sharp edges of the part. The background is dark, making the silver component stand out. The component is mounted on a reflective surface, creating a clear reflection below it.


X-HOLD[®]

Milling Holders ▶ End mill



Insert	Product / Order code	C / W	Dia	Len	Teeth	Stock	
AP 10 for YG-1	EM - AP10 - D16 - W16 - L100 - Z2	W	16	100	2	■	
	EM - AP10 - D16 - W16 - L120 - Z2	W	16	120	2	■	
	EM - AP10 - D16 - W16 - L150 - Z2	W	16	150	2	■	
	EM - AP10 - D16 - C16 - L200 - Z2	C	16	200	2	■	
	EM - AP10 - D18 - W16 - L120 - Z2	W	18	120	2	■	
	EM - AP10 - D18 - W16 - L150 - Z2	W	18	150	2	■	
	EM - AP10 - D18 - C16 - L200 - Z2	C	18	150	2	■	
	EM - AP10 - D20 - W20 - L100 - Z3	W	20	100	3	■	
	EM - AP10 - D20 - W20 - L120 - Z3	W	20	120	3	■	
	EM - AP10 - D20 - W20 - L150 - Z3	W	20	150	3	■	
	EM - AP10 - D20 - C20 - L200 - Z3	C	20	200	3	■	
	EM - AP10 - D25 - W25 - L100 - Z3	W	25	100	3	■	
	EM - AP10 - D25 - W25 - L120 - Z3	W	25	120	3	■	
	EM - AP10 - D25 - W25 - L150 - Z3	W	25	150	3	■	
	EM - AP10 - D25 - C25 - L200 - Z3	C	25	200	3	■	
	EM - AP10 - D30 - W25 - L120 - Z4	W	30	120	4	■	
	EM - AP10 - D30 - W25 - L150 - Z4	W	30	150	4	■	
	EM - AP10 - D30 - C25 - L200 - Z4	C	30	200	4	□	
	EM - AP10 - D32 - W25 - L120 - Z4	W	32	120	4	■	
	EM - AP10 - D32 - W25 - L150 - Z4	W	32	150	4	■	
EM - AP10 - D32 - C25 - L200 - Z4	C	32	200	4	□		
EM - AP10 - D40 - W25 - L150 - Z5	W	40	150	5	□		
AP 16 for YG-1	EM - AP16 - D25 - C25 - L100 - Z2	C	25	100	2	□	
	EM - AP16 - D25 - W25 - L120 - Z2	W	25	120	2	■	
	EM - AP16 - D25 - W25 - L150 - Z2	W	25	150	2	■	
	EM - AP16 - D25 - C25 - L200 - Z2	C	25	200	2	■	
	EM - AP16 - D30 - W25 - L120 - Z3	W	30	120	3	■	
	EM - AP16 - D30 - W25 - L150 - Z3	W	30	150	3	■	
	EM - AP16 - D30 - C25 - L200 - Z3	C	30	200	3	□	
	EM - AP16 - D32 - W25 - L120 - Z3	W	32	120	3	□	
EM - AP16 - D32 - W25 - L150 - Z3	W	32	150	3	■		

Milling Holders ▶ End mill


Insert	Product / Order code	C / W	Dia	Len	Teeth	Stock	
AP 16 for YG-1	EM - AP16 - D32 - C25 - L200 - Z3	C	32	200	3	□	
	EM - AP16 - D40 - W25 - L120 - Z4	W	40	120	4	□	
	EM - AP16 - D40 - W25 - L150 - Z4	W	40	150	4	□	
	EM - AP16 - D40 - C25 - L200 - Z4	C	40	200	4	□	
RD 10 for YG-1	EM - RD10 - D20 - W20 - L120 - Z2	W	20	120	2	■	
	EM - RD10 - D20 - W20 - L150 - Z2	W	20	150	2	■	
	EM - RD10 - D20 - C20 - L200 - Z2	C	20	200	2	■	
	EM - RD10 - D25 - W25 - L120 - Z2	W	25	120	2	■	
	EM - RD10 - D25 - W25 - L150 - Z2	W	25	150	2	■	
	EM - RD10 - D25 - C25 - L200 - Z2	C	25	200	2	□	
	EM - RD10 - D32 - W25 - L120 - Z3	W	32	120	3	□	
	EM - RD10 - D32 - W25 - L150 - Z3	W	32	150	3	□	
RD 12 for YG-1	EM - RD12 - D25 - W25 - L120 - Z2	W	25	120	2	■	
	EM - RD12 - D25 - W25 - L150 - Z2	W	25	150	2	■	
	EM - RD12 - D25 - C25 - L200 - Z2	C	25	200	2	■	
	EM - RD12 - D32 - W25 - L120 - Z3	W	32	120	3	□	
	EM - RD12 - D32 - W25 - L150 - Z3	W	32	150	3	□	
	EM - RD12 - D32 - C25 - L200 - Z3	C	32	200	3	□	
	EM - RD12 - D40 - W25 - L150 - Z4	W	40	150	4	□	
XOMX 12 For SECO	EM - X012 - D20 - W20 - L100 - Z2	W	20	100	2	□	
	EM - X012 - D20 - W20 - L120 - Z2	W	20	120	2	□	
	EM - X012 - D20 - W20 - L150 - Z2	W	20	150	2	□	
	EM - X012 - D20 - C20 - L200 - Z2	C	20	200	2	□	
	EM - X012 - D25 - W25 - L120 - Z3	W	25	120	3	□	
	EM - X012 - D25 - W25 - L150 - Z3	W	25	150	3	□	
R390 Sandvik	EM - R390 - D16 - C16 - L100 - Z2	C	16	100	2	■	
	EM - R390 - D20 - C20 - L110 - Z2	C	20	110	2	■	
	EM - R390 - D25 - C25 - L120 - Z2	C	25	120	2	□	

 C : Cylindrical / W:Weldon / Stock ■ / 4 Week □ /  : Coolant



Milling Holders ▶ Facemill

Insert	Product / Order code	Dia	Len	Teeth	Stock	⚙️
AP10 For YG1	FM - AP10 - D50 - A22 - L40 - Z6 - C	50	40	6	□	✓
	FM75 - AP10 - D63 - A22 - L40 - Z5	63	40	5	□	
AP16 For YG1	FM - AP16 - D40 - A16 - L40 - Z4 - C	40	40	4	□	✓
	FM - AP16 - D50 - A22 - L40 - Z5	50	40	5	■	
	FM - AP16 - D50 - A22 - L40 - Z5 - C	50	40	5	□	✓
	FM - AP16 - D63 - A22 - L40 - Z5	63	40	5	□	
	FM - AP16 - D63 - A22 - L40 - Z6	63	40	6	□	
	FM - AP16 - D63 - A22 - L40 - Z6 - C	63	40	6	■	✓
RD10 For YG1	FM - RD10 - D40 - A16 - L40 - Z4	50	40	5	□	
	FM - RD10 - D50 - A22 - L50 - Z5 - C	50	50	5	□	✓
RD12 For YG1	FM - RD12 - D50 - A22 - L50 - Z5	50	50	5	■	
	FM - RD12 - D63 - A22 - L50 - Z6	63	50	6	■	
XOMX 12 _ SECO	FM - X012 - D63 - A22 - L40 - Z6	63	40	6	□	
R390 _ ISO	FM - R390 - D63 - A22 - L50 - Z6	63	50	6	□	
	FM - R390 - D80 - A27 - L50 - Z7	80	50	7	□	

Stock ■ / 4 Week □ /  : Coolant

Milling Holders ▶ Ballnose



Insert	Product / Order code	C / W	Dia	Len	Stock
P3212	BN -- P3212 - D12 - W12 - L120	W	12	120	□
	BN -- P3212 - D12 - W12 - L150	W	12	150	□
P3216	BN -- P3216 - D16 - W16 - L120	W	16	120	■
	BN -- P3216 - D16 - W16 - L150	W	16	150	■
	BN -- P3216 - D16 - C16 - L200	C	16	200	□
P3220	BN -- P3220 - D20 - W20 - L120	W	20	120	□
	BN -- P3220 - D20 - W20 - L150	W	20	150	■
	BN -- P3220 - D20 - C20 - L200	C	20	200	□
P3225	BN -- P3225 - D25 - W20 - L120	W	25	120	□
	BN -- P3225 - D25 - W16 - L150	W	25	150	■
	BN -- P3225 - D25 - C16 - L200	W	25	200	□

C : Cylindrical / W:Weldon / Stock ■ / 4 Week □

Milling Holders ▶ Slot mill


Insert	Product / Order code	Dia	C / W	Len	Stock
311 For Horn	GM - 311 - D9 - C12 - L100	09	12	100	■
	GM - 311 - D9 - C12 - L120	09	12	120	■
313 For Horn	GM - 313 - D12 - C16 - L120	12	16	120	■
	GM - 313 - D12 - C16 - L150	12	16	150	■
332 For Horn	GM - 332 - D14 - C16 - L120	14	16	120	■
	GM - 332 - D14 - C16 - L150	14	16	150	■
611.311 For Horn	GM - M611.311 - D9 - C12 - L100	09	12	100	□
	GM - M611.311 - D9 - C12 - L120	09	12	120	□
332 Horn	GM - 332 - D14 - C20 - L120	14	20	120	□

C : Cylindrical / W:Weldon / Stock ■ / 4 Week □

Milling Holders ▶ Screw head


Insert	Product / Order code	Dia	C / W	Len	Stock
	SH - D16 - L120 - M8	16	C	120	□
	SH - D16 - L150 - M8	16	C	150	□
	SH - D20 - L150 - M10	20	C	150	■
	SH - D20 - L200 - M10	20	C	200	□
	SH - D25 - L150 - M12	25	C	150	■
	SH - D25 - L200 - M12	25	C	200	□
	SH - D32 - L150 - M16	32	C	150	□
	SH - D32 - L200 - M16	32	C	200	□
	SH - D32 - L250 - M16	32	C	250	□

C : Cylindrical / W:Weldon / Stock ■ / 4 Week □

Internal Turning Holders

long tool life

Special coating

Minimum vibration



External Turning Holders

long tool life

Special coating

Minimum vibration





Turning Holders ▶ Internal turning



Insert	Product / Order code	Dia	Len	Stock
CCMT 06	S08 H SCLCR/L 06	8	100	□
	S10 K SCLCR/L 06	10	125	■
CCMT 09	S12 K SCLCR/L 09	12	125	■
	S16 P SCLCR/L 09	16	170	■
	S20 R SCLCR/L 09	20	200	■
CCMT 11	S16 P SCFCR/L 11	16	170	□
DCMT 07	S10 K SDUCR/L 07	10	125	■
	S12 K SDUCR/L 07	12	125	■
DCMT 11	S16 P SDUCR/L 11	16	170	■
	S16 P SDQCR/L 11	16	170	■
	S16 P SDPCR/L 11	16	170	□
	S20 R SDUCR/L 11	20	200	■
	S20 R SDQCR/L 11	20	200	□
DNMG 15	S25 S TDUNR/L 15	25	250	□
	S32 T TDUNR/L 15	32	300	□
	S40 U TDUNR/L 15	40	350	□

Stock ■ / 4 Week □

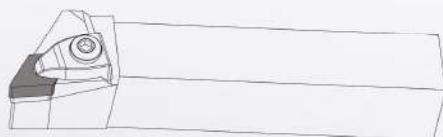
Turning Holders ▶ Internal threading



Insert	Product / Order code	Dia	Len	Stock
SIR/L 16	S16M-SIR/L 16	16	150	■
	S20P-SIR/L 16	20	170	■
	S25R-SIR/L 16	25	200	□
	S32S-SIR/L 16	32	250	□
SIR/L 22	S20P-SIR/L 22	20	170	□
	S25R-SIR/L 22	25	200	□
	S32S-SIR/L 22	32	250	□

Stock ■ / 4 Week □

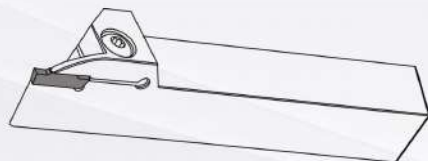
Turning Holders ▶ External turning



Insert	Product / Order code	b	h	Len	Stock
DCMT 11	SDJCR/L - 2020 - K11	20	20	125	■
	SDJCR/L - 2525 - M11	25	25	150	■
VBMT 11	SVJBR/L - 2020 - K11	20	20	125	■
	SVVBN - 2020 - K11	20	20	125	□
VBMT 16	SVJBR/L - 1616 - H16	16	16	100	□
	SVJBR/L - 2020 - K16	25	25	150	■
	SVJBR/L - 2525 - M16	25	25	150	■
WNMG 08	MWLNR/L - 2020 - K08	20	20	125	□
DNMG 15	TDJNR/L - 2020 - K15	20	20	125	□
	TDJNR/L - 2525 - M15	25	25	150	□
	TDJNN - 2525 - M15	25	25	150	□
	TDJNR/L - 3232 - P15	32	32	170	□
CNMG 12	TCLNR/L - 2020 - K12	20	20	125	□
	TCLNR/L - 2525 - M12	25	25	150	□
TNMG 16	MTJNR/L - 2020 - K16	20	20	125	□
TNMG 22	MTJNR/L - 2525 - M22	25	25	150	□
	MTJNR/L - 3232 - P22	32	32	170	□
RC 10	SRDCN - 2525 - M10	25	25	150	□
RC 16	SRDCN - 2525 - M16	25	25	150	□
RC 20	SRDCN - 2525 - M20	25	25	150	□

b : Shank width / h: Cutting edge height / Stock ■ / 4 Week □

Turning Holders ▶ External Grooving















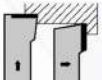
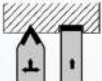
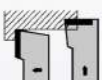














Insert	Product / Order code	b	h	Len	Stock
EGT	EGT - 123 - 3 - R/L - 2020 - T20	20	20	125	□
	EGT - 123 - 3 - R/L - 2525 - T22	25	25	150	□










































b : Shank width / h: Cutting edge height / Stock ■ / 4 Week □

IDENTIFICATION CODE ACCORDING ISO 1832

External Turning Holder

S	P	K	N	R	25	25	M	12
Method Of Mounting of Insert	Insert Shape	Tool Holder Shape	Clearance angle of Insert	Cutting Direction	Cutting Edge Height	Shank width	Tool Holder length	Cutting Edge length
 C Top clamping without hole	 L  G 80°	 90° A  75° B	 3° A  5° B  7° C  15° D  20° E  25° F  30° G  0° N  11° P	 L  N  R	 h	 b	A-32 B-40 C-50 D-60 E-70 F-80 G-90 H-100 J-110 K-125 L-140 M-150 N-160 P-170 Q-180 R-200 S-250 T-300 U-350 V-400 W-450 X-Special	 ABK  CDE MV  L  H  O  P  R  S  T  W

Internal Turning Holder

S	25	S	P	C	L	N	4	12
Method of Mounting of Insert	Shank Diameter	Shank Length	Method Of Mounting of Insert	Insert Shape	Tool Holder Shape Bar of Insert	Insert Clearance Angle	Cutting Direction	Cutting Edge Length
A : solid steel with coolant hole E : Carbide bar with fixed steel head and coolant hole C : carbide shank S : Steel shank	 d	A-32 B-40 C-50 D-60 E-70 F-80 G-90 H-100 J-110 K-125 L-140 M-150 N-160 P-170 Q-180 R-200 S-250 T-300 U-350 V-400 W-450 X-Special	 C Top clamping without hole  B Top and Hole Clamping  M Top and Hole Clamping  P Hole Clamping/lever lock  S Screw on	 80° C  55° D  70° E  55° V  N  S  80° W  20° K	 93° U  95° L  70° K  90° F  107.5° D  45° S  117.5° P  93° X  93° J	 3° A  5° B  7° C  15° D  20° E  25° F 30° G 0° N 11° P	 R  L	 ABK  CDE MV  L  H  O  P  R  S  T  W

Milling Holder

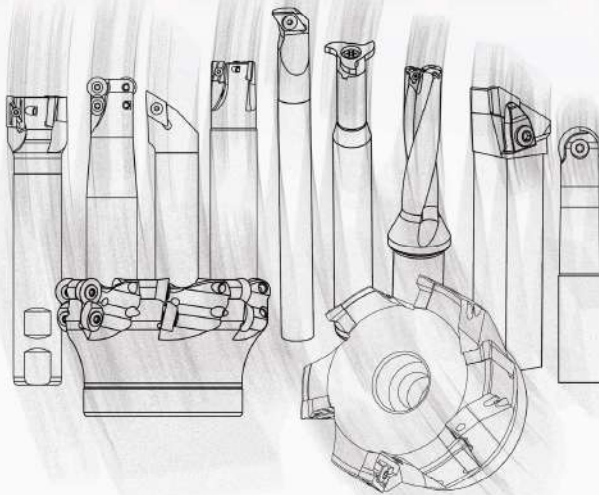
EM	A	P	10	D16	W16	L100	Z01	C
Cutter Style	Insert Shape	Clearance angle of Insert	Cutting Edge Length	Tool Diameter	Assembly Form and Diameter	Tool Length	Number of Effective Tooth	With coolant Hole
FM : FACE MILLING TOOLS					C : Cylindrical Shank w : weldon			
EM : END FACE MILLING TOOLS								
EM : CHAMFERING END MILLING TOOLS								
HM : HELIX END MILLING TOOLS								
BN : BALL NOSE END MILLING TOOLS								
SH : Screw Head Holder								
EM : Groove Milling								

Internal & External Threading Holder

TH	S	For External 25 25 For Internal 25	M	S	I	R	16
Threading Holder	External Shank Size	Cutting Edge Height and Shank Wide	Shank Length	Method of Mounting of Insert	Type of Boring Bar	Shank Length	Insert Size
	<p>A : Solid Steel With Coolant Hole</p> <p>E : Carbide Bar With fixed steel head and coolant hole</p> <p>C : Carbide Shank</p> <p>S : Steel Shank</p>	<p>External</p> <p>Internal</p>	<p>A-32</p> <p>B-40</p> <p>C-50</p> <p>D-60</p> <p>E-70</p> <p>F-80</p> <p>G-90</p> <p>H-100</p> <p>J-110</p> <p>K-125</p> <p>L-140</p> <p>M-150</p> <p>N-180</p> <p>P-170</p> <p>Q-180</p> <p>R-200</p> <p>S-250</p> <p>T-300</p> <p>U-350</p> <p>V-400</p> <p>W-450</p> <p>X-Special</p>	<p>S : Screw Clamping</p> <p>I : Screw Clamping With Helix Angle</p>	<p>E : External</p> <p>I : Internal</p>	<p>R : Right - Hand</p> <p>L : Left - Hand</p>	<p>I (mm) d</p> <p>06 5/32"</p> <p>08 3/16"</p> <p>11 1/4"</p> <p>16 3/8"</p> <p>22 1/2"</p> <p>27 5/8"</p>

 X-HOLD®

 HARDSTONE
Cutting Tools



2019





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