YESATEK



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Adults don't make choices.
A sharp tool for deep hole processing.

Modular Drill NEW

Compared with traditional U-drills, the newly launched crown drills have a wider range of applications, high precision, and can form in one pass without rough boring, thus saving a lot of costs in the application in processing factory workshops.

2024/10/24

革命创新 » 引领钻削&风骚
Revolutionary innovation, leading drilling & being extraordinary.



直径范围

刃径(ø12.5mm-ø40mm)

间隔仅0.1mm 一个规格,满足各种精细加工需求.

DIAMETER RANGE

(ø12.5mm-ø40mm)

With an interval of only 0.1mm per specification,
it meets various fine processing needs.



提效降本

高效钻孔,无需粗镗工艺,一次成型.

大大提高生产效率,节省时间和成本.

SAVE COSTS

High-efficiency hole processing eliminates the need for rough boring process and is formed in one step greatly improving production efficiency.

革命创新 引领钻削&风骚
Revolutionary innovation, leading drilling & being extraordinary.

Modular Drill
皇冠钻系列

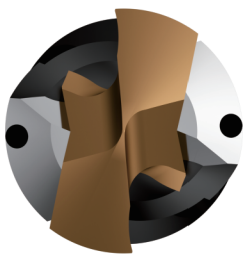


T震撼新品来袭 NEW

与传统的U钻相比,最新推出的皇冠钻具有应用范围更为广泛
性能更加出色的特点,在加工厂车间应用中可节省大量成本,并简化加工流程.

Compared with the traditional U-drills, the newly launched modular drills have the characteristics of a wider application range and more excellent performance. They can save a lot of costs and simplify the processing flow in the application of processing plant workshops.

- 优异的钻尖槽型,和硬质合金刀片.
  Excellent drill tip groove shape and carbide inserts.
- 可用于钢.不锈钢.铸铁,等材料的加工应用
  It can be used for the processing and application of materials such as steel, stainless steel, and cast iron.
- 大面积,高精度的排屑槽可确保顺畅的排屑,从而延长刀具寿命,改善刀具性能.
  It can be used for the processing and application of materials such as steel, stainless steel, and cast iron.



装夹方式-侧固式　　刀体材质-SKD11

皇冠钻

孔加工-模块化钻

Modular Drill



优点和特点

Advantages and characteristics

- 支持快进给钻孔加工,确保高生产率水平.
  Support fast feed drilling processing to ensure a high level of productivity.
- 低钻入力,可避免工件出现弯曲现象.
  Low drilling force can avoid the bending of the workpiece.
- 即使深腔加工，也能保证良好的精度.
  Even in deep cavity processing, good accuracy can be guaranteed.
- 皇冠钻(模块化钻)具有直径更大,有效长更长的特点.
  Modular drills have the characteristics of larger diameter and longer effective length.

加工方式

Processing mode



钻孔 Drilling　交铣孔 Cross Hole　凸面孔 Convex　斜孔 Inclined Entry　内冷出水 Through Coolant

刀片信息

Blade information



- 刀片执行TEEFI腾飞标准.
  The blade implements the TEEFI standard.
- 皇冠钻尖可以进行修磨二次使用,从而提高经济性.
  The crown drill tip can be reground for secondary use, thereby improving economy.
- 整体硬质合金的刀片提供了更多的选择性.
  Monolithic carbide inserts offer more options.
- 直径12.5mm至40mm,间隔0.01mm一个规格.
  From a diameter of 12.5mm to 40mm, with an interval of 0.1mm for each specification.
- 高效率的孔加工可省去粗镗工艺,一次成型.
  High-efficiency hole processing can eliminate the rough boring process and be formed in one time.

双内冷螺旋出水与刀体完美结合

Double internal cooling spiral water outlet is perfectly combined with the cutter body

设计原理

Design principle

通过在冷却通道中采用双螺旋结构
增加了冷却液与被冷却表面的接触面积和接触时间,从而提高了热交换效率
冷却液在双螺旋通道内流动时,产生了强烈的湍流,进一步增强了冷却效果.

By adopting a double helix structure in the cooling channel, the contact area and contact time between the coolant and the cooled surface are increased, thereby enhancing the heat exchange efficiency. When the coolant flows in the double helix channel, a strong turbulence is generated, further strengthening the cooling effect.



极佳的夹持设计
Excellent clamping design

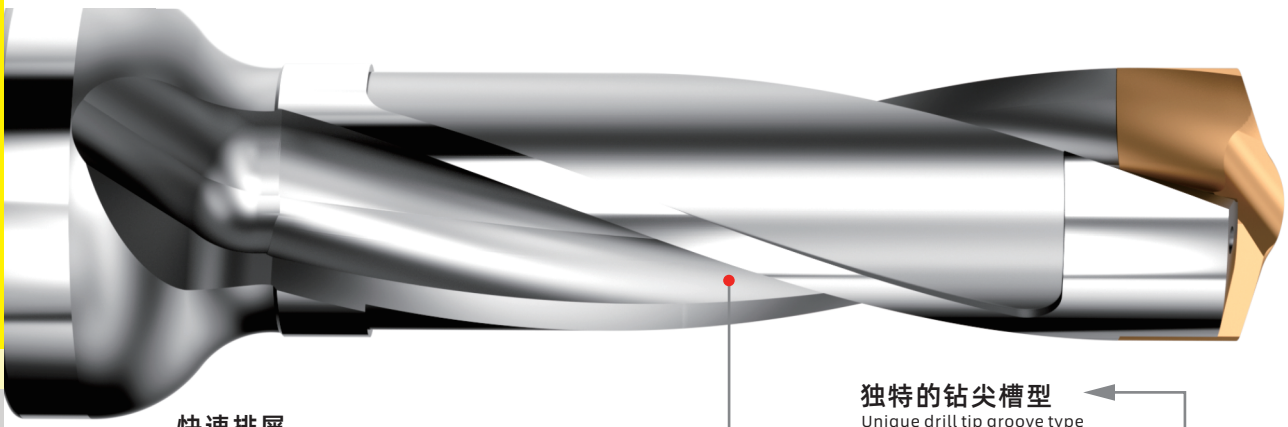
后拉式锁紧装置可避免刀片脱离
The rear-pull type locking device can prevent the blade from detaching.

更大的支承面可确保大扭矩的安全传输，并不会导致刀座变形
A larger bearing surface can ensure the safe transmission of large torque and will not cause the deformation of the tool holder.

更大的接触面
a larger contact surface.



后拉式锁紧装置
Rear-pull type locking device



快速排屑
Rapid chip removal

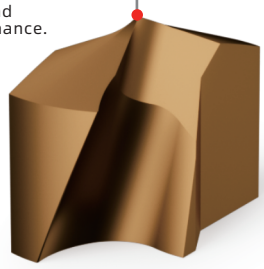
大面积,高精度排屑槽可确保顺畅的排屑.从而延长刀具寿命,改善刀具性能.

The large-area and high-precision chip removal grooves can ensure smooth chip removal. Thus, the tool life is prolonged and the tool performance is improved.

独特的钻尖槽型
Unique drill tip groove type

自定心钻尖设计确保卓越的孔加工精度,以及优化的刀具性能

The self-centering drill point design ensures excellent hole machining accuracy and optimized tool performance.



提供刀具修磨服务

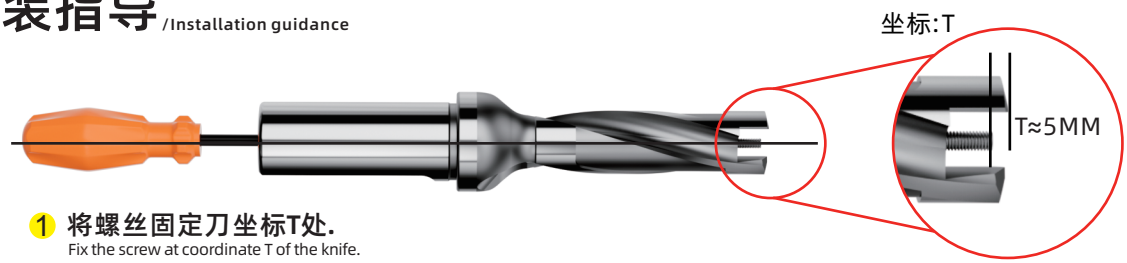
Provide tool grinding service

刀片磨损后可参与我们的回收服务计划,进行刀片修磨,降低成本.修磨后的刀片与新刀片表现同样稳定,一致的性能.

After the blade wears out, you can participate in our recycling service plan. We offer blade grinding to reduce costs. The ground blades perform as stably and consistently as new ones.



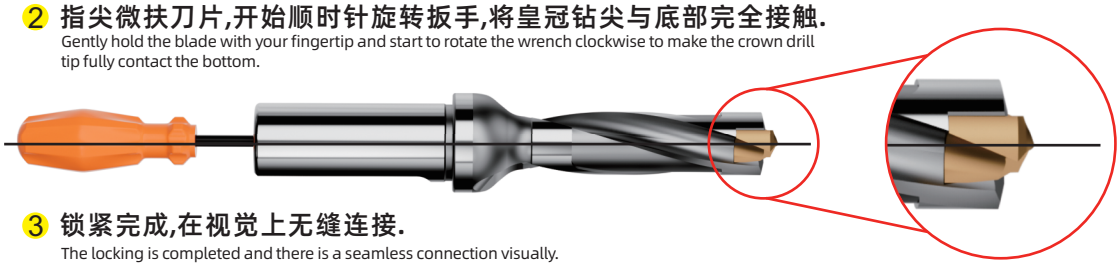
安装指导 /Installation guidance



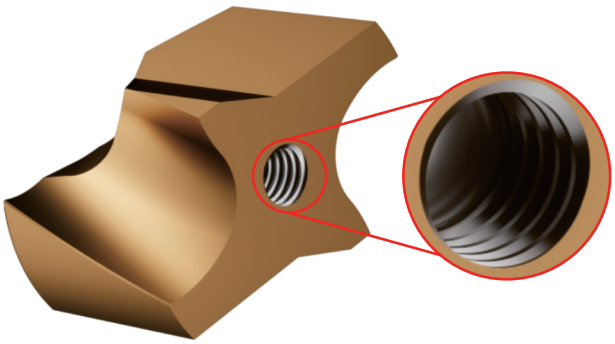
1 将螺丝固定刀坐标T处.
Fix the screw at coordinate T of the knife.



2 指尖微扶刀片,开始顺时针旋转扳手,将皇冠钻尖与底部完全接触.
Gently hold the blade with your fingertip and start to rotate the wrench clockwise to make the crown drill tip fully contact the bottom.



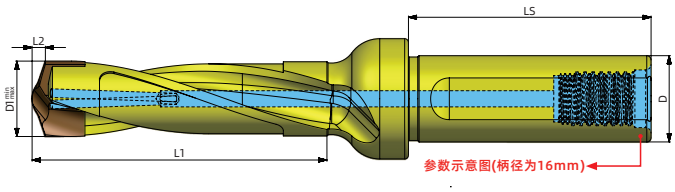
3 锁紧完成,在视觉上无缝连接.
The locking is completed and there is a seamless connection visually.



装夹建议事项 Clamping suggestions\

刀片带有螺丝锁定部分的螺纹嵌体提高了工艺安全性.
The threaded insert of the blade with the screw-locking part enhances process safety.

安装刀片过程中,特殊情况下难以安装的情况!
可以在螺纹处涂抹上防卡油,有助于简化安装过程.
During the process of installing the blade, in special cases where it is diffi cult to install! You can apply anti-seize oil at the thread, which helps to simplify the installation process.

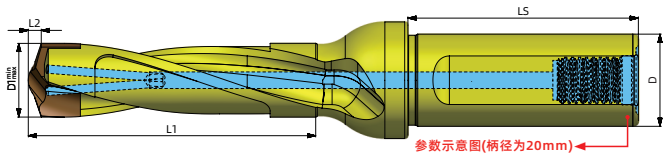




皇冠钻(模块化钻)-3D

Modular Drill-3D

型号/Cat.No 3D	D1 min	D1 max	刀座尺寸 type	刀尖悬伸（L2） Knife tip depth	柄长（LS） Handle length	柄径D/接水口 Shank diamete / Water connection	有效长（L1） Effective length	中心锁紧螺丝 Center locking screw	扳手 Wrench
KS-12.5-3D-C16 KSEM125R3WN16M	12.500	12.990	C	2.000	45	16/PC1/8	39	M3.0/M2.5*14	T6*180 3D/5D
KS-13-3D-C16 KSEM130R3WN16M	13.000	13.490	C	2.100	45	16/PC1/8	40.5	M3.0/M2.5*14	T6*180 3D/5D
KS-13.5-3D-C16 KSEM135R3WN16M	13.500	13.990	B	2.100	45	16/PC1/8	42	M3.0/M2.5*14	T6*180 3D/5D
KS-14-3D-C16 KSEM140R3WN16M	14.000	14.490	B	2.200	45	16/PC1/8	43.5	M3.0/M2.5*14	T6*180 3D/5D
KS-14.5-3D-C20 KSEM145R3WN20M	14.500	14.990	A	2.300	50	20/PC1/8	45	M3.0/M2.5*14	T6*180 3D/5D
KS-15-3D-C20 KSEM150R3WN20M	15.000	15.990	A	2.400	50	20/PC1/8	48	M3.0/M2.5*14	T6*180 3D/5D
KS-16-3D-C20 KSEM160R3WN20M	16.000	16.990	1	2.500	50	20/PC1/8	51	M3.5/M2.5*16	1.5*180 3D/5D
KS-17-3D-C20 KSEM170R3WN20M	17.000	17.990	1	2.700	50	20/PC1/8	54	M3.5/M2.5*16	1.5*180 3D/5D
KS-18-3D-C25 KSEM180R3WN25M	18.000	18.990	2	2.900	56	25/PC1/8	57	M4.0/M3.0*19	2.0*210 3D/5D
KS-19-3D-C25 KSEM190R3WN25M	19.000	19.990	2	3.000	56	25/PC1/8	60	M4.0/M3.0*19	2.0*210 3D/5D
KS-20-3D-C25 KSEM200R3WN25M	20.000	20.990	3	3.200	56	25/PC1/8	63	M4.0/M3.0*19	2.0*210 3D/5D
KS-21-3D-C25 KSEM210R3WN25M	21.000	21.990	3	3.300	56	25/PC1/8	66	M4.0/M3.0*19	2.0*210 3D/5D
KS-22-3D-C25 KSEM220R3WN25M	22.000	22.990	4	3.500	56	25/PC1/8	69	M4.0/M3.0*19	2.0*210 3D/5D
KS-23-3D-C25 KSEM230R3WN25M	23.000	23.990	4	3.700	56	25/PC1/8	72	M4.0/M3.0*19	2.0*210 3D/5D
KS-24-3D-C32 KSEM240R3WN32M	24.000	24.990	5	3.800	60	32/PC1/4	75	M5.0/M4.0*23	2.5*240 3D/5D
KS-25-3D-C32 KSEM250R3WN32M	25.000	25.990	5	3.800	60	32/PC1/4	78	M5.0/M4.0*23	2.5*240 3D/5D
KS-26-3D-C32 KSEM260R3WN32M	26.000	26.990	6	4.000	60	32/PC1/4	81	M5.0/M4.0*23	2.5*240 3D/5D
KS-27-3D-C32 KSEM270R3WN32M	27.000	27.990	6	4.200	60	32/PC1/4	84	M5.0/M4.0*23	2.5*240 3D/5D
KS-28-3D-C32 KSEM280R3WN32M	28.000	28.990	7	4.300	60	32/PC1/4	87	M5.0/M4.0*23	2.5*240 3D/5D
KS-29-3D-C32 KSEM290R3WN32M	29.000	29.990	7	4.500	60	32/PC1/4	90	M6.0/M5.0*28	3.0*350 3D/5D
KS-30-3D-C32 KSEM300R3WN32M	30.000	30.990	8	4.600	60	32/PC1/4	93	M6.0/M5.0*28	3.0*350 3D/5D
KS-31-3D-C32 KSEM310R3WN32M	31.000	31.990	8	4.800	60	32/PC1/4	96	M6.0/M5.0*28	3.0*350 3D/5D
KS-32-3D-C40 KSEM320R3WN40M	32.000	32.990	9	4.900	70	40/PC1/4	99	M6.0/M6.0*32	3.0*350 3D/5D
KS-33-3D-C40 KSEM330R3WD40M	33.000	33.990	9	5.100	70	40/PC1/4	102	M6.0/M6.0*32	3.0*350 3D/5D
KS-34-3D-C40 KSEM340R3WD40M	34.000	34.990	9	5.200	70	40/PC1/4	105	M6.0/M6.0*32	3.0*350 3D/5D
KS-35-3D-C40 KSEM350R3WD40M	35.000	35.990	9	5.400	70	40/PC1/4	108	M6.0/M6.0*32	3.0*350 3D/5D
KS-36-3D-C40 KSEM360R3WD40M	36.000	36.990	10	5.500	70	40/PC1/4	111	M6.0/M6.0*32	3.0*350 3D/5D
KS-37-3D-C40 KSEM370R3WD40M	37.000	37.990	10	5.700	70	40/PC1/4	114	M6.0/M6.0*32	3.0*350 3D/5D
KS-38-3D-C40 KSEM380R3WD40M	38.000	38.990	10	5.800	70	40/PC1/4	117	M6.0/M6.0*32	3.0*350 3D/5D
KS-39-3D-C40 KSEM390R3WD40M	39.000	39.990	10	6.000	70	40/PC1/4	120	M6.0/M6.0*32	3.0*350 3D/5D
KS-40-3D-C40 KSEM400R3WD40M	40.000	40.990	10	6.200	70	40/PC1/4	123	M6.0/M6.0*32	3.0*350 3D/5D

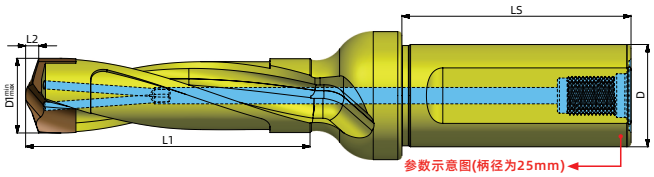


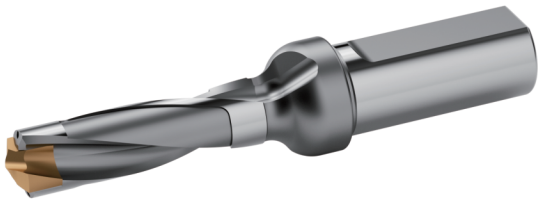


皇冠钻(模块化钻)-5D

Modular Drill-5D

型号/Cat.No 5D	D1 min	D1 max	刀座尺寸	刀尖悬伸（L2）	柄长（LS）	柄径D/接水口	有效长（L1）	中心锁紧螺丝	扳手
			type	Knife tip depth	Handle length	Shank diamete / Water connection	Effective length	Center locking screw	Wrench
KS-12.5-5D-C16 KSEM125R5WN16M	12.500	12.990	C	2.000	45	16/PC1/8	65	M3.0/M2.5*14	T6*180 3D/5D
KS-13-5D-C16 KSEM130R5WN16M	13.000	13.490	C	2.100	45	16/PC1/8	67.5	M3.0/M2.5*14	T6*180 3D/5D
KS-13.5-5D-C16 KSEM135R5WN16M	13.500	13.990	B	2.100	45	16/PC1/8	70	M3.0/M2.5*14	T6*180 3D/5D
KS-14-5D-C16 KSEM140R5WN16M	14.000	14.490	B	2.200	45	16/PC1/8	72.5	M3.0/M2.5*14	T6*180 3D/5D
KS-14.5-5D-C20 KSEM145R5WN20M	14.500	14.990	A	2.300	50	20/PC1/8	75	M3.0/M2.5*14	T6*180 3D/5D
KS-15-5D-C20 KSEM150R5WN20M	15.000	15.990	A	2.400	50	20/PC1/8	80	M3.0/M2.5*14	T6*180 3D/5D
KS-16-5D-C20 KSEM160R5WN20M	16.000	16.990	1	2.500	50	20/PC1/8	85	M3.5/M2.5*16	1.5*180 3D/5D
KS-17-5D-C20 KSEM170R5WN20M	17.000	17.990	1	2.700	50	20/PC1/8	90	M3.5/M2.5*16	1.5*180 3D/5D
KS-18-5D-C25 KSEM180R5WN25M	18.000	18.990	2	2.900	56	25/PC1/8	95	M4.0/M3.0*19	2.0*210 3D/5D
KS-19-5D-C25 KSEM190R5WN25M	19.000	19.990	2	3.000	56	25/PC1/8	100	M4.0/M3.0*19	2.0*210 3D/5D
KS-20-5D-C25 KSEM200R5WN25M	20.000	20.990	3	3.200	56	25/PC1/8	105	M4.0/M3.0*19	2.0*210 3D/5D
KS-21-5D-C25 KSEM210R5WN25M	21.000	21.990	3	3.300	56	25/PC1/8	110	M4.0/M3.0*19	2.0*210 3D/5D
KS-22-5D-C25 KSEM220R5WN25M	22.000	22.990	4	3.500	56	25/PC1/8	115	M4.0/M3.0*19	2.0*210 3D/5D
KS-23-5D-C25 KSEM230R5WN25M	23.000	23.990	4	3.700	56	25/PC1/8	120	M4.0/M3.0*19	2.0*210 3D/5D
KS-24-5D-C32 KSEM240R5WN32M	24.000	24.990	5	3.800	60	32/PC1/4	125	M5.0/M4.0*23	2.5*240 3D/5D
KS-25-5D-C32 KSEM250R5WN32M	25.000	25.990	5	3.800	60	32/PC1/4	130	M5.0/M4.0*23	2.5*240 3D/5D
KS-26-5D-C32 KSEM260R5WN32M	26.000	26.990	6	4.000	60	32/PC1/4	135	M5.0/M4.0*23	2.5*240 3D/5D
KS-27-5D-C32 KSEM270R5WN32M	27.000	27.990	6	4.200	60	32/PC1/4	140	M5.0/M4.0*23	2.5*240 3D/5D
KS-28-5D-C32 KSEM280R5WN32M	28.000	28.990	7	4.300	60	32/PC1/4	145	M5.0/M4.0*23	2.5*240 3D/5D
KS-29-5D-C32 KSEM290R5WN32M	29.000	29.990	7	4.500	60	32/PC1/4	150	M6.0/M5.0*28	3.0*350 3D/5D
KS-30-5D-C32 KSEM300R5WN32M	30.000	30.990	8	4.600	60	32/PC1/4	155	M6.0/M5.0*28	3.0*350 3D/5D
KS-31-5D-C32 KSEM310R5WN32M	31.000	31.990	8	4.800	60	32/PC1/4	160	M6.0/M5.0*28	3.0*350 3D/5D
KS-32-5D-C40 KSEM320R5WN40M	32.000	32.990	9	4.900	70	40/PC1/4	165	M6.0/M6.0*32	3.0*350 3D/5D
KS-33-5D-C40 KSEM330R5WD40M	33.000	33.990	9	5.100	70	40/PC1/4	170	M6.0/M6.0*32	3.0*350 3D/5D
KS-34-5D-C40 KSEM340R5WD40M	34.000	34.990	9	5.200	70	40/PC1/4	175	M6.0/M6.0*32	3.0*350 3D/5D
KS-35-5D-C40 KSEM350R5WD40M	35.000	35.990	9	5.400	70	40/PC1/4	180	M6.0/M6.0*32	3.0*350 3D/5D
KS-36-5D-C40 KSEM360R5WD40M	36.000	36.990	10	5.500	70	40/PC1/4	185	M6.0/M6.0*32	3.0*350 3D/5D
KS-37-5D-C40 KSEM370R5WD40M	37.000	37.990	10	5.700	70	40/PC1/4	190	M6.0/M6.0*32	3.0*350 3D/5D
KS-38-5D-C40 KSEM380R5WD40M	38.000	38.990	10	5.800	70	40/PC1/4	195	M6.0/M6.0*32	3.0*350 3D/5D
KS-39-5D-C40 KSEM390R5WD40M	39.000	39.990	10	6.000	70	40/PC1/4	200	M6.0/M6.0*32	3.0*350 3D/5D
KS-40-5D-C40 KSEM400R5WD40M	40.000	40.990	10	6.200	70	40/PC1/4	205	M6.0/M6.0*32	3.0*350 3D/5D

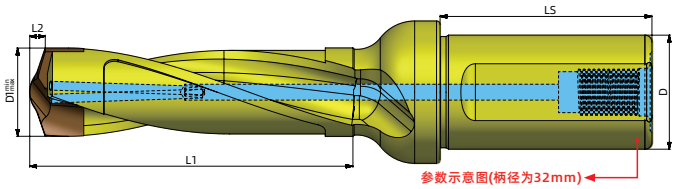




皇冠钻(模块化钻)-7D

Modular Drill-7D

型号/Cat.No 7D	D1 min	D1 max	刀座尺寸 type	刀尖悬伸（L2） Knife tip depth	柄长（LS） Handle length	柄径D/接水口 Shank diamete / Water connection	有效长（L1） Effective length	中心锁紧螺丝 Center locking screw	扳手 Wrench
KS-12.5-7D-C16 KSEM125R7WN16M	12.500	12.990	C	2.000	45	16/PC1/8	91	M3.0/M2.5*14	T6*290 7D/10D
KS-13-7D-C16 KSEM130R7WN16M	13.000	13.490	C	2.100	45	16/PC1/8	94.5	M3.0/M2.5*14	T6*290 7D/10D
KS-13.5-7D-C16 KSEM135R7WN16M	13.500	13.990	B	2.100	45	16/PC1/8	98	M3.0/M2.5*14	T6*290 7D/10D
KS-14-7D-C16 KSEM140R7WN16M	14.000	14.490	B	2.200	45	16/PC1/8	101.5	M3.0/M2.5*14	T6*290 7D/10D
KS-14.5-7D-C20 KSEM145R7WN20M	14.500	14.990	A	2.300	50	20/PC1/8	105	M3.0/M2.5*14	T6*290 7D/10D
KS-15-7D-C20 KSEM150R7WN20M	15.000	15.990	A	2.400	50	20/PC1/8	112	M3.0/M2.5*14	T6*290 7D/10D
KS-16-7D-C20 KSEM160R7WN20M	16.000	16.990	1	2.500	50	20/PC1/8	119	M3.5/M2.5*16	1.5*330 7D/10D
KS-17-7D-C20 KSEM170R7WN20M	17.000	17.990	1	2.700	50	20/PC1/8	126	M3.5/M2.5*16	1.5*330 7D/10D
KS-18-7D-C25 KSEM180R7WN25M	18.000	18.990	2	2.900	56	25/PC1/8	133	M4.0/M3.0*19	2.0*280 7D/8D
KS-19-7D-C25 KSEM190R7WN25M	19.000	19.990	2	3.000	56	25/PC1/8	140	M4.0/M3.0*19	2.0*280 7D/8D
KS-20-7D-C25 KSEM200R7WN25M	20.000	20.990	3	3.200	56	25/PC1/8	147	M4.0/M3.0*19	2.0*280 7D/8D
KS-21-7D-C25 KSEM210R7WN25M	21.000	21.990	3	3.300	56	25/PC1/8	154	M4.0/M3.0*19	2.0*280 7D/8D
KS-22-7D-C25 KSEM220R7WN25M	22.000	22.990	4	3.500	56	25/PC1/8	161	M4.0/M3.0*19	2.0*280 7D/8D
KS-23-7D-C25 KSEM230R7WN25M	23.000	23.990	4	3.700	56	25/PC1/8	168	M4.0/M3.0*19	2.0*280 7D/8D
KS-24-7D-C32 KSEM240R7WN32M	24.000	24.990	5	3.800	60	32/PC1/4	175	M5.0/M4.0*23	2.5*320 7D/8D
KS-25-7D-C32 KSEM250R7WN32M	25.000	25.990	5	3.800	60	32/PC1/4	182	M5.0/M4.0*23	2.5*320 7D/8D
KS-26-7D-C32 KSEM260R7WN32M	26.000	26.990	6	4.000	60	32/PC1/4	189	M5.0/M4.0*23	2.5*320 7D/8D
KS-27-7D-C32 KSEM270R7WN32M	27.000	27.990	6	4.200	60	32/PC1/4	196	M5.0/M4.0*23	2.5*320 7D/8D
KS-28-7D-C32 KSEM280R7WN32M	28.000	28.990	7	4.300	60	32/PC1/4	203	M5.0/M4.0*23	2.5*320 7D/8D
KS-29-7D-C32 KSEM290R7WN32M	29.000	29.990	7	4.500	60	32/PC1/4	210	M6.0/M5.0*28	3.0*450 7D/8D
KS-30-7D-C32 KSEM300R7WN32M	30.000	30.990	8	4.600	60	32/PC1/4	217	M6.0/M5.0*28	3.0*450 7D/8D
KS-31-7D-C32 KSEM310R7WN32M	31.000	31.990	8	4.800	60	32/PC1/4	224	M6.0/M5.0*28	3.0*450 7D/8D
KS-32-7D-C40 KSEM320R7WN40M	32.000	32.990	9	4.900	70	40/PC1/4	231	M6.0/M6.0*32	3.0*450 7D/8D
KS-33-7D-C40 KSEM330R7WD40M	33.000	33.990	9	5.100	70	40/PC1/4	238	M6.0/M6.0*32	3.0*450 7D/8D
KS-34-7D-C40 KSEM340R7WD40M	34.000	34.990	9	5.200	70	40/PC1/4	245	M6.0/M6.0*32	3.0*450 7D/8D
KS-35-7D-C40 KSEM350R7WD40M	35.000	35.990	9	5.400	70	40/PC1/4	252	M6.0/M6.0*32	3.0*450 7D/8D
KS-36-7D-C40 KSEM360R7WD40M	36.000	36.990	10	5.500	70	40/PC1/4	259	M6.0/M6.0*32	3.0*450 7D/8D
KS-37-7D-C40 KSEM370R7WD40M	37.000	37.990	10	5.700	70	40/PC1/4	266	M6.0/M6.0*32	3.0*450 7D/8D
KS-38-7D-C40 KSEM380R7WD40M	38.000	38.990	10	5.800	70	40/PC1/4	273	M6.0/M6.0*32	3.0*450 7D/8D
KS-39-7D-C40 KSEM390R7WD40M	39.000	39.990	10	6.000	70	40/PC1/4	280	M6.0/M6.0*32	3.0*450 7D/8D
KS-40-7D-C40 KSEM400R7WD40M	40.000	40.990	10	6.200	70	40/PC1/4	287	M6.0/M6.0*32	3.0*450 7D/8D





皇冠钻(模块化钻)-10D

Modular Drill-10D

型号/Cat.No 10D	D1 min	D1 max	刀座尺寸 type	刀尖悬伸（L2） Knife tip depth	柄长（LS） Handle length	柄径D/接水口 Shank diamete / Water connection	有效长（L1） Effective length	中心锁紧螺丝 Center locking screw	扳手 Wrench
KS-12.5-10D-C16 KSEM125R10WN16M	12.500	12.990	C	2.000	45	16/PC1/8	130	M3.0/M2.5*14	T6*290 7D/10D
KS-13-10D-C16 KSEM130R10WN16M	13.000	13.490	C	2.100	45	16/PC1/8	135	M3.0/M2.5*14	T6*290 7D/10D
KS-13.5-10D-C16 KSEM135R10WN16M	13.500	13.990	B	2.100	45	16/PC1/8	140	M3.0/M2.5*14	T6*290 7D/10D
KS-14-10D-C16 KSEM140R10WN16M	14.000	14.490	B	2.200	45	16/PC1/8	145	M3.0/M2.5*14	T6*290 7D/10D
KS-14.5-10D-C20 KSEM145R10WN20M	14.500	14.990	A	2.300	50	20/PC1/8	150	M3.0/M2.5*14	T6*290 7D/10D
KS-15-10D-C20 KSEM150R10WN20M	15.000	15.990	A	2.400	50	20/PC1/8	160	M3.0/M2.5*14	T6*290 7D/10D
KS-16-10D-C20 KSEM160R10WN20M	16.000	16.990	1	2.500	50	20/PC1/8	170	M3.5/M2.5*16	1.5*330 7D/10D
KS-17-10D-C20 KSEM170R10WN20M	17.000	17.990	1	2.700	50	20/PC1/8	180	M3.5/M2.5*16	1.5*330 7D/10D
KS-18-10D-C25 KSEM180R10WN25M	18.000	18.990	2	2.900	56	25/PC1/8	190	M4.0/M3.0*19	2.0*280 7D/8D
KS-19-10D-C25 KSEM190R10WN25M	19.000	19.990	2	3.000	56	25/PC1/8	200	M4.0/M3.0*19	2.0*280 7D/8D
KS-20-10D-C25 KSEM200R10WN25M	20.000	20.990	3	3.200	56	25/PC1/8	210	M4.0/M3.0*19	2.0*280 7D/8D
KS-21-10D-C25 KSEM210R10WN25M	21.000	21.990	3	3.300	56	25/PC1/8	220	M4.0/M3.0*19	2.0*370 10D/12D
KS-22-10D-C25 KSEM220R10WN25M	22.000	22.990	4	3.500	56	25/PC1/8	230	M4.0/M3.0*19	2.0*370 10D/12D
KS-23-10D-C25 KSEM230R10WN25M	23.000	23.990	4	3.700	56	25/PC1/8	240	M4.0/M3.0*19	2.0*370 10D/12D
KS-24-10D-C32 KSEM240R10WN32M	24.000	24.990	5	3.800	60	32/PC1/4	250	M5.0/M4.0*23	2.5*420 10D/12D
KS-25-10D-C32 KSEM250R10WN32M	25.000	25.990	5	3.800	60	32/PC1/4	260	M5.0/M4.0*23	2.5*420 10D/12D
KS-26-10D-C32 KSEM260R10WN32M	26.000	26.990	6	4.000	60	32/PC1/4	270	M5.0/M4.0*23	2.5*420 10D/12D
KS-27-10D-C32 KSEM270R10WN32M	27.000	27.990	6	4.200	60	32/PC1/4	280	M5.0/M4.0*23	2.5*420 10D/12D
KS-28-10D-C32 KSEM280R10WN32M	28.000	28.990	7	4.300	60	32/PC1/4	290	M5.0/M4.0*23	2.5*420 10D/12D
KS-29-10D-C32 KSEM290R10WN32M	29.000	29.990	7	4.500	60	32/PC1/4	300	M6.0/M5.0*28	3.0*515 10D/12D
KS-30-10D-C32 KSEM300R10WN32M	30.000	30.990	8	4.600	60	32/PC1/4	310	M6.0/M5.0*28	3.0*515 10D/12D
KS-31-10D-C32 KSEM310R10WN32M	31.000	31.990	8	4.800	60	32/PC1/4	320	M6.0/M5.0*28	3.0*515 10D/12D
KS-32-10D-C40 KSEM320R10WN40M	32.000	32.990	9	4.900	70	40/PC1/4	330	M6.0/M6.0*32	3.0*515 10D/12D
KS-33-10D-C40 KSEM330R10WD40M	33.000	33.990	9	5.100	70	40/PC1/4	340	M6.0/M6.0*32	3.0*515 10D/12D
KS-34-10D-C40 KSEM340R10WD40M	34.000	34.990	9	5.200	70	40/PC1/4	350	M6.0/M6.0*32	3.0*515 10D/12D
KS-35-10D-C40 KSEM350R10WD40M	35.000	35.990	9	5.400	70	40/PC1/4	360	M6.0/M6.0*32	3.0*515 10D/12D
KS-36-10D-C40 KSEM360R10WD40M	36.000	36.990	10	5.500	70	40/PC1/4	370	M6.0/M6.0*32	3.0*515 10D/12D
KS-37-10D-C40 KSEM370R10WD40M	37.000	37.990	10	5.700	70	40/PC1/4	380	M6.0/M6.0*32	3.0*515 10D/12D
KS-38-10D-C40 KSEM380R10WD40M	38.000	38.990	10	5.800	70	40/PC1/4	390	M6.0/M6.0*32	3.0*515 10D/12D
KS-39-10D-C40 KSEM390R10WD40M	39.000	39.990	10	6.000	70	40/PC1/4	400	M6.0/M6.0*32	3.0*515 10D/12D
KS-40-10D-C40 KSEM400R10WD40M	40.000	40.990	10	6.200	70	40/PC1/4	410	M6.0/M6.0*32	3.0*515 10D/12D