



CNC Deep Hole Drilling Machine

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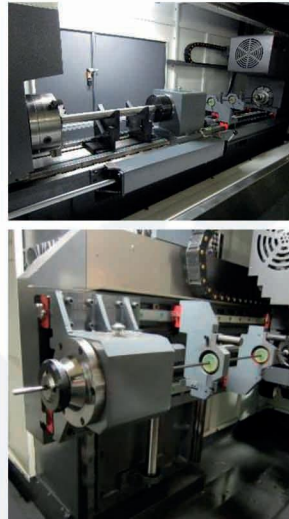
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🕒 Mon-Sat 8.30 - 17.00



ABOUT CNC DEPTH HOLE DRILLING MACHINE

Drilling is the most basic process in machining operation, is also the process with the most wide range in application field, however, so far there has been no such an ideal equipment to change the situation that this traditional manual processing is time-consuming and energy-consuming. Bench drill, milling machine, radial drill and other traditional drilling equipments have laborers' hands bound in the machine to repeat the work without quality . Security environment, efficiency and processing limits have influenced manufacturers and operators. With the arrival of the CNC era, the birth of CNC depth drill has thoroughly changed the situation, it not only frees the laborers' hands, but also solves the bottleneck of depth dill processing, and make it possible that one-time drilling can achieve the processing quality of common drilling machine in drilling. enlarging. expanding and also realizes automatic chip removal, CNC positioning & automatic processing. Its emergence is the pride of mechanical manufacturing industry, moreover it is the second revolution in the field of mechanical processing!



ENGINEERING EXAMPLE

The precision CNC deep hole drilling machine produced by the company is suitable for various kinds of work pieces for deep hole processing. die & mould industry (water transport hole, center hole, hot runner, guide roller hole, etc.); auto industry (deep hole processing in cylinder head, crankshaft hydraulic tubing, plunger bushing, etc.); oil pump & lubricating nipple industry (deep hole processing in oil-injection gas, nozzle valve, plunger bushing, and other spare parts); textile machinery industry (mesopore processing of various spindles); medical equipment industry (axial processing in titanium ally , stainless steel, etc.); mine & oil machinery (deep hole processing on piston rod, cylinder wall); deep hole processing of rotor, central spindle, valve spindle, unit outer cylinder, condenser tube plate in the industry of electrical power, steam turbine.

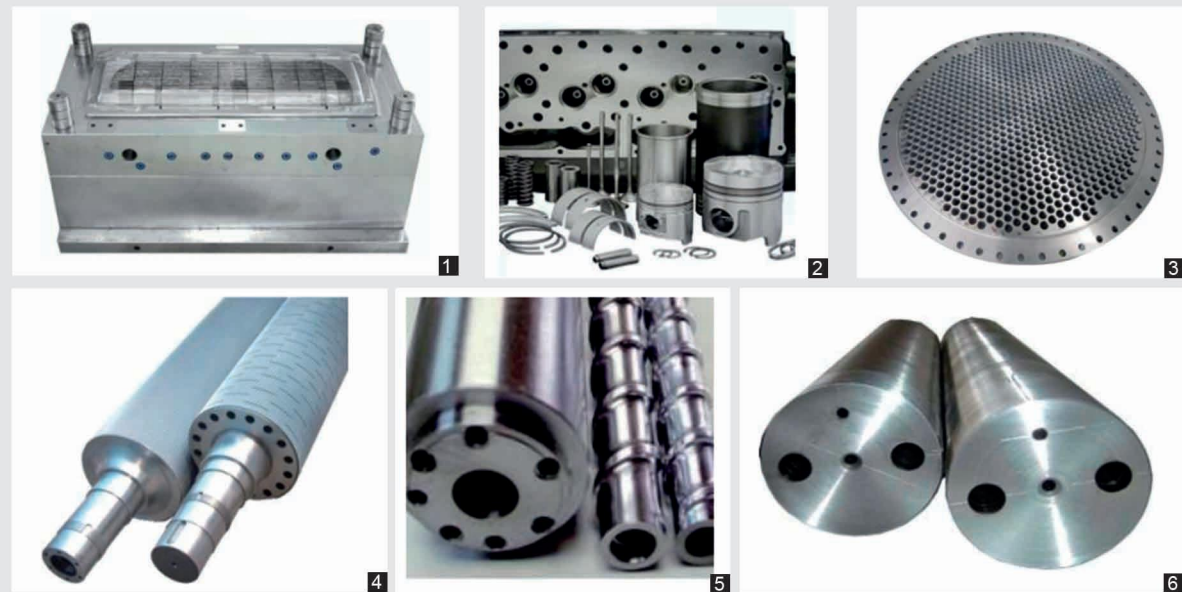
Precision CNC Deep Hole Drill Series



DH-1600

SPECIFICATION

Model	DH-600	DH-800	DH-1100	DH-1300	DH-1600	DH-2016	DH-2216	DH-2516	DH-3220	
Inner diameter of drilling	mm 2.5-25	2.5-25	2.5-30	2.5-30	2.5-35	2.5-35	2.5-35	2.5-35	2.5-35	
Max depth of drilling	mm 600	800	1100	1300	1600	1600	1600	1600	2000	
Table size	mm 1000*500	1200*570	1200*800	1400*900	1800*1150	2000*1200	2200*1350	2500*1600	3200*1800	
Travel	X axis	mm 600	800	1100	1300	1600	1800	2000	2200	3000
	Y axis	mm 600	600	800	1000	1100	1300	1300	1300	1500
	Z axis	mm 600	800	1100	1300	1600	1600	1600	1600	2000
Cutting Feeding	mm/min 1-200	1-200	1-300	1-300	1-300	1-300	1-300	1-300	1-300	
Max rotary speed of spindle	rpm 7000	7000	7000	7000	7000	7000	7000	7000	7000	
Spindle motor	kw 5.5/7.5	5.5/7.5	7.5/11	7.5/11	7.5/11	7.5/11	11/15	11/15	11/15	
Three axis motor	kw 2.3/2.3/1.5	2.3/2.3/1.5	2.3/3/2.3	3/3/2.3	4.4/4.4/2.3	4.4/4.4/2.3	4.4/4.4/2.3	4.4/4.4/2.3	4.4/4.4/2.3	
Pressure of oil pump	kg/cm 0-150	0-150	0-150	0-150	0-150	0-150	0-150	0-150	0-150	
Capacity of cutting tank	L 600	600	800	800	800	800	800	800	800	
Max load weight of table	kg 2000	3000	8000	10000	13000	15000	16000	20000	25000	
Weight	kg 7000	8000	10000	12000	14000	15000	16000	17000	25000	
Demension	mm 3800*2800	4200*2500	4800*3800	4800*3800	5500*4300*2800	5800*4600*3000	6000*5200*3000	6500*5600*3200	7500*6500*3500	
	*2200	*2600	*2600	*2800						



- 1 The application of die & mould industry
- 2 The application of auto industry
- 3 Condenser tube plate
- 4 Corrugator roll
- 5 The application of the oil pump & oil machinery industry
- 6 The application of bar work industry



4-Axis Vertical CNC Deep Hole Drill Series

It is a new style vertical deep hole drill equipped with special short gun drill to work on small hole process and especially for inject pin hole batch process. Which is high precision, high speed, easy operation and save the manpower ,itis widely used for medical equipment, spaceflight and military project, hydraulic oil pump and auto spare parts, etc.

VMD-650



VMD-1165



SPECIFICATION

Model	VMD-650	VMD-850	VMD-1165	VMD-1270
Inner diameter of drilling	mm 1.5-20	mm 1.5-20	mm 1.5-20	mm 1.5-25
Max drilling depth	mm 220	mm 270	mm 350	mm 380
Table size	mm 700*520	mm 1000*500	mm 1200*650	mm 1400*700
X/Y/Z axis travel	mm 600*500*300	mm 800*500*350	mm 1100*650*450	mm 1200*700*480
Z 2 axis travel	mm 300	mm 400	mm 450	mm 480
Drilling cutting speed	mm/min 1-300	mm/min 1-300	mm/min 1-300	mm/min 1-300
Spindle taper	BT40	BT40	BT40	BT40
Max spindle rotary speed	rpm 10000	rpm 10000	rpm 10000	rpm 10000
Spindle motor power	kw 7.5-11	kw 7.5-11	kw 7.5-11	kw 7.5-11
X/Y/Z axis Motor	kw 2.4/3.1/3.9	kw 3.9/5.9/5.9	kw 3.9/5.9/5.9	kw 3.9/5.9/5.9
Z 2 Axis motor	kw 3.9	kw 5.9	kw 5.9	kw 5.9
Load weight	kgs 500	kgs 800	kgs 1000	kgs 2000
Machine weight	kgs 4500	kgs 5500	kgs 6000	kgs 7500
Machine dimension	mm 2800*2880*2600	mm 3200*3600*3000	mm 3200*4000*3200	mm 3300*4200*3300

4-Axis Vertical Automatic Tool Change and Guide Sleeve Drilling and Milling Composite CNC Deep Hole Drill Series

Based on the four-axis vertical deep-hole drill, this machine is equipped with high-performance intelligent tool library and telescopic guide sleeve base through scientific and technological innovation. It can perfectly realize the functions of automatic gun drill and guide sleeve, greatly improving the processing efficiency and saving invalid time. Intelligent tool library can be loaded with gun drill, milling cutter, twist drill, U drill, tapping, guide sleeve and other tool accessories, which provides powerful support for diversified processing. It can switch freely in drilling, milling and tapping processes. It is suitable for the processing of various complex parts, such as automotive parts, military products, medical equipment, die manufacturing, etc. The field has been widely used.

VMD-1270M



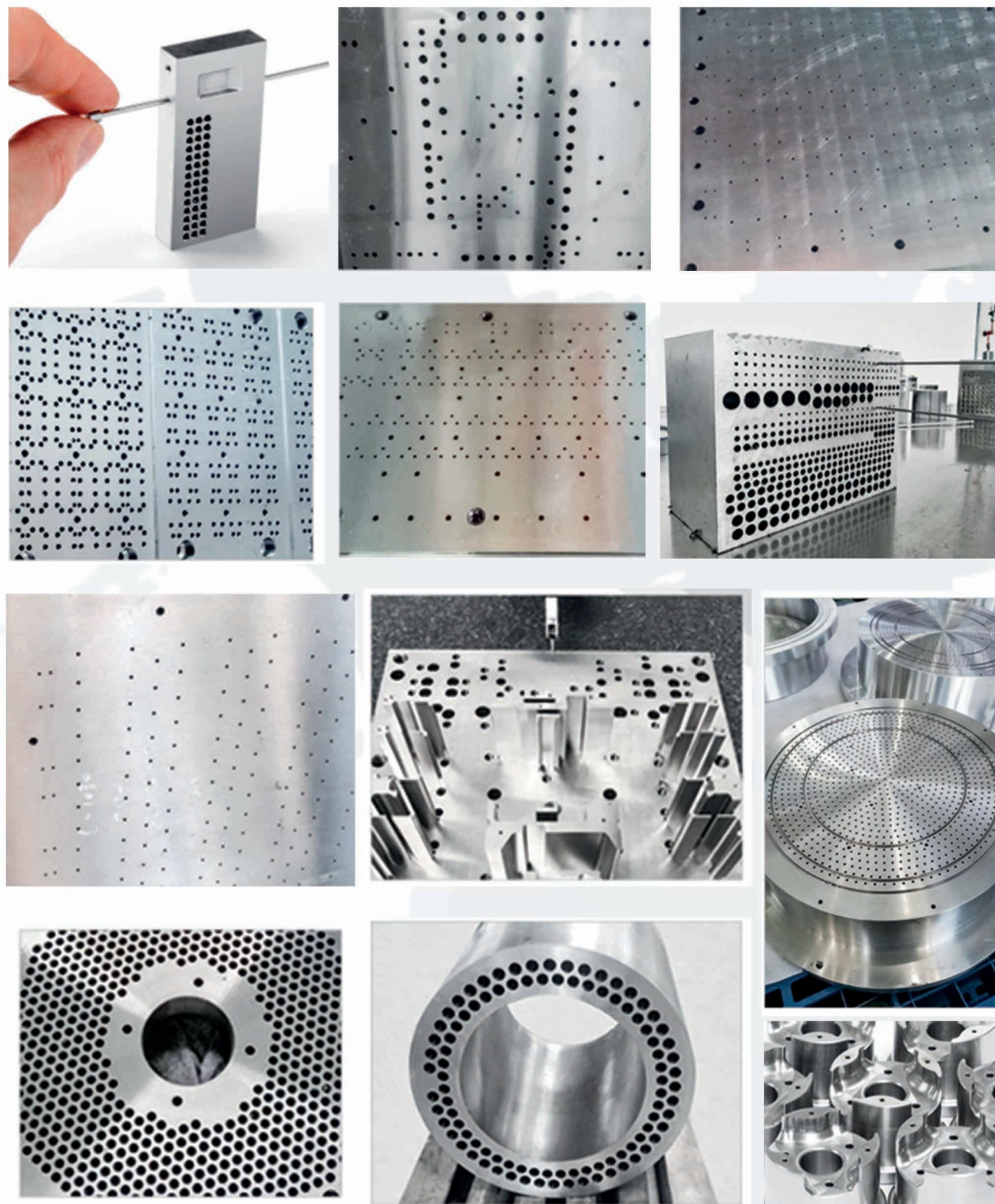
USING TOOL CUTTER



SPECIFICATION

Model	VMD-1165M	VMD-1270M
Inner diameter of drilling	mm 1.5-20	mm 1.5-25
Max drilling depth	mm 350	mm 380
Table size	mm 1200*650	mm 1400*700
X/Y/Z axis travel	mm 1100*650*450	mm 1200*700*480
Z 2 axis travel	mm 450	mm 480
Drilling cutting speed	mm/min 1-300	mm/min 1-300
Spindle taper	BT40	BT40
Max spindle rotary speed	rpm 10000	rpm 10000
Spindle motor power	kw 7.5-11	kw 7.5-11
X/Y/Z axis Motor	kw 3.9/5.9/5.9	kw 3.9/5.9/5.9
Z 2 Axis motor	kw 5.9	kw 5.9
ATC	BT40 Dis type ATC 16tools	
Guide sleeve	BT40 Dis type ATC 8 tools auto guide change sleeve	
Load weight	kgs 1500	kgs 2000
Machine weight	kgs 8000	kgs 9000
Machine dimension	mm 4300*3100*3500	mm 4400*3200*3500

PROCESSING CASE



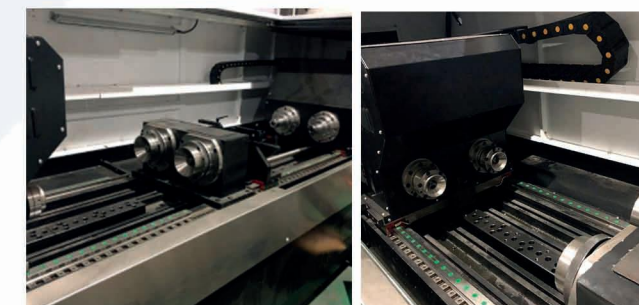
The Double Spindle Deep Hole Drill Series

The double spindle deep hole drill is a special machine tool designed for machining the center deep hole of shaft parts, aiming to provide customers with a solution of high efficiency, high precision and high finish for deep hole machining of shaft parts.

SD-800



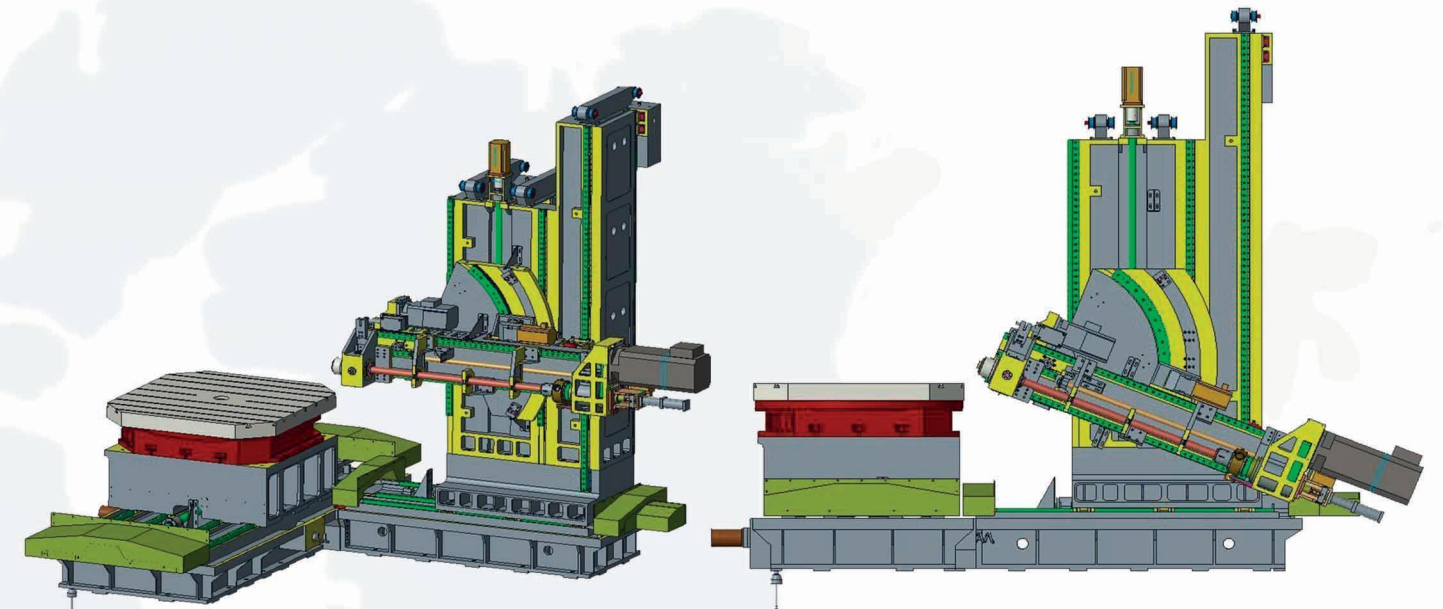
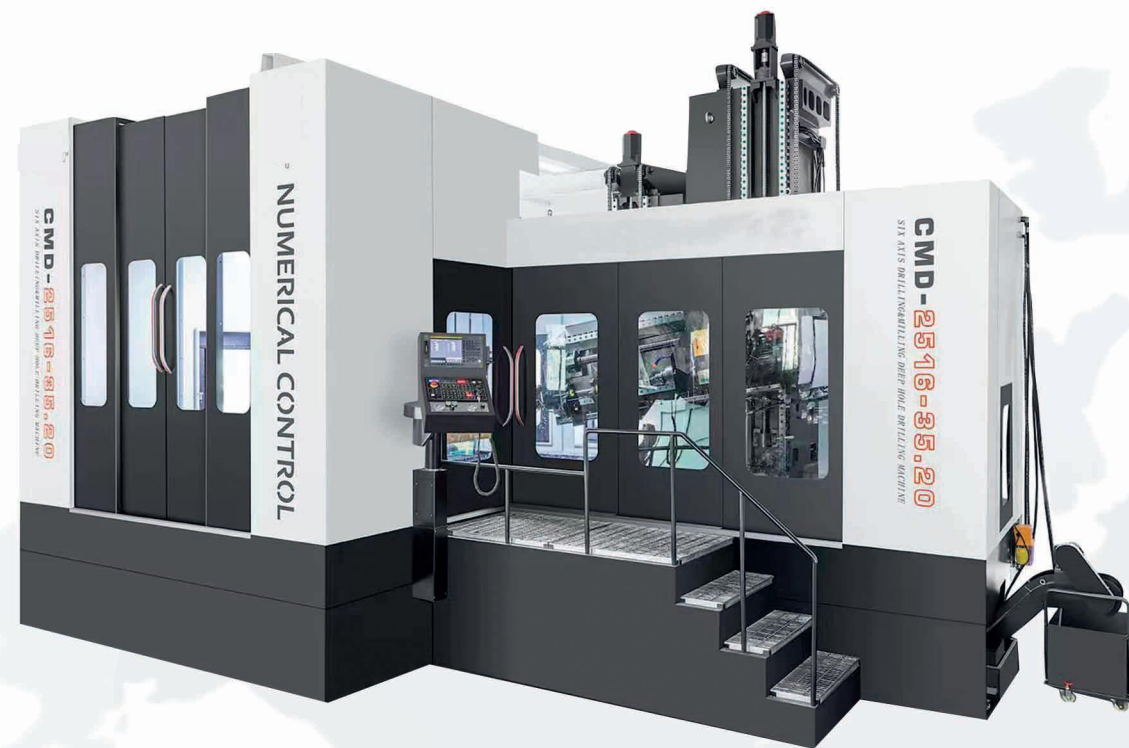
1. It is designed for machining the center hole of the bar stock, and is specially used for deep hole machining of the center hole.
2. Double spindle processing at the same time, greatly improving the working efficiency.
3. Taper hole guidance and high pressure oil cooling provide guarantee for high precision and high finish.
4. Siemens or Taiwan's new generation CNC system can be selected according to customer requirements.
5. The equipment can be equipped with a manipulator for automatic loading and unloading, with a high degree of automation.



SPECIFICATION

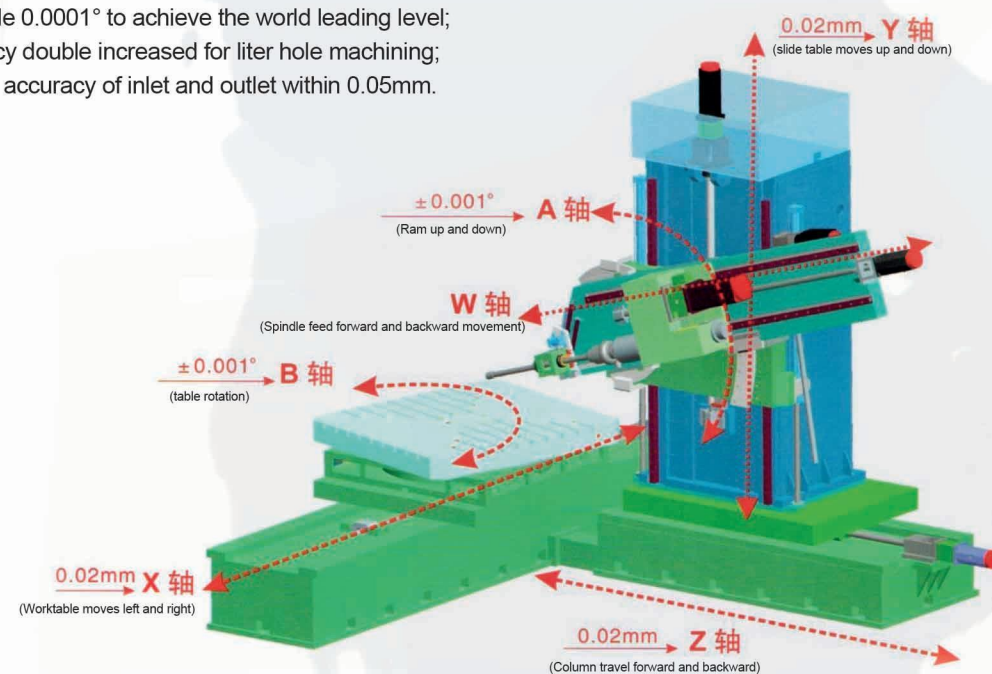
Model		SD-600	SD-800	SD-1000	SD-1200
Inner diameter of drilling	mm	Φ2.5~Φ25	Φ2.5~Φ25	Φ2.5~Φ25	Φ2.5~Φ25
Maximum depth	mm	600	800	1000	1200
Maximum diameter of workpiece	mm	72	72	72	72
Maximum length of workpiece	mm	700	900	1100	1300
Maximum rotating speed of principalaxis	rpm	6000	6000	6000	6000
Spindle feed speed	mm/min	0-1000	0-1000	0-1000	0-1000
Spindle travel speed	mm/min	0-5000	0-5000	0-5000	0-5000
Workpiece rotation speed	rpm	60	60	60	60
Spindle motor power	kw	7.5	7.5	7.5	7.5
Workpiece rotating motor power	kw	0.75*2	0.75*2	0.75*2	0.75*2
Total power of machine tool	kw	30	30	30	30
Coolant pressure range	mpa	3-10.5	3-10.5	3-10.5	3-10.5
Coolant flow range	L/min	0-64	0-64	0-64	0-64
Machine size	mm	4000*2000*2200	4200*2000*2200	4600*2000*2200	5100*2000*2200
Load capacity of working table	kg	4000	4500	5000	5500

6 axis cnc deep hole drilling machine



PRODUCT CHARACTERISTICS

- 1.Full optimization on the accuracy of A, B axis;
- 2.Minimum indexing angle 0.0001° to achieve the world leading level;
- 3.The machining accuracy double increased for liter hole machining;
- 4.Make sure the position accuracy of inlet and outlet within 0.05mm.



SPECIFICATION

Model	CMD-1310-30.20	CMD-1613-30.20	CMD-2516-35.20	CMD-3018-35.20
X axis travel Longitudal of table	mm 1300	1600	2500	3000
Y axis travel Up and down of comlune	mm 1000	1300	1650	1800
W axis Machining depth	mm 1000	1300	1600	1800
Z axis Front and rear movement of column	mm 500	700	1000	1200
A axis beam rotray	Down 30°, up 20°	Down 30°, up 20°	Down 35°, up 20°	Down 35°, up 20°
B axis table rotary	360°	360°	360°	360°
Rotary table	mm 1000*1000	1200*1200	2000*2000	2500*2500

STANDARD-CONFIGURATION ACCESSORIES



High pressure oil cylinder



Taiwan control system



Import servo system



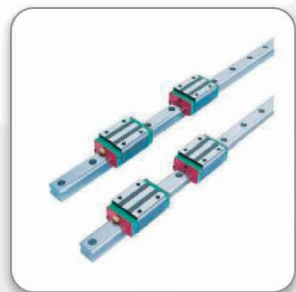
Magnetic chip removal machine



Precision castings



Taiwan spindle



Taiwan roller linear rail with precision



Taiwan screw ground with precision

OPTIONAL ACCESSORIES



Depth drill tools with specific application for grinder



Cutting oil separator



Special cutting oil



Import drill gun

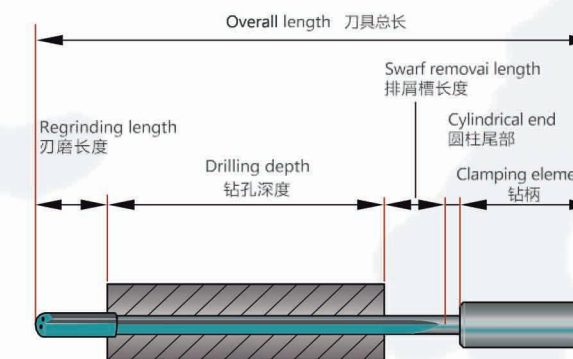
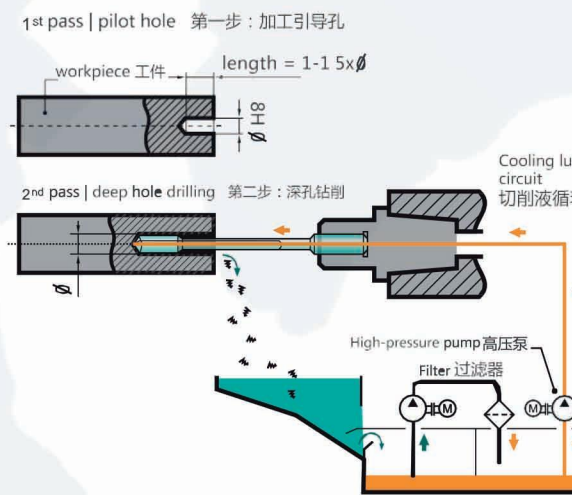
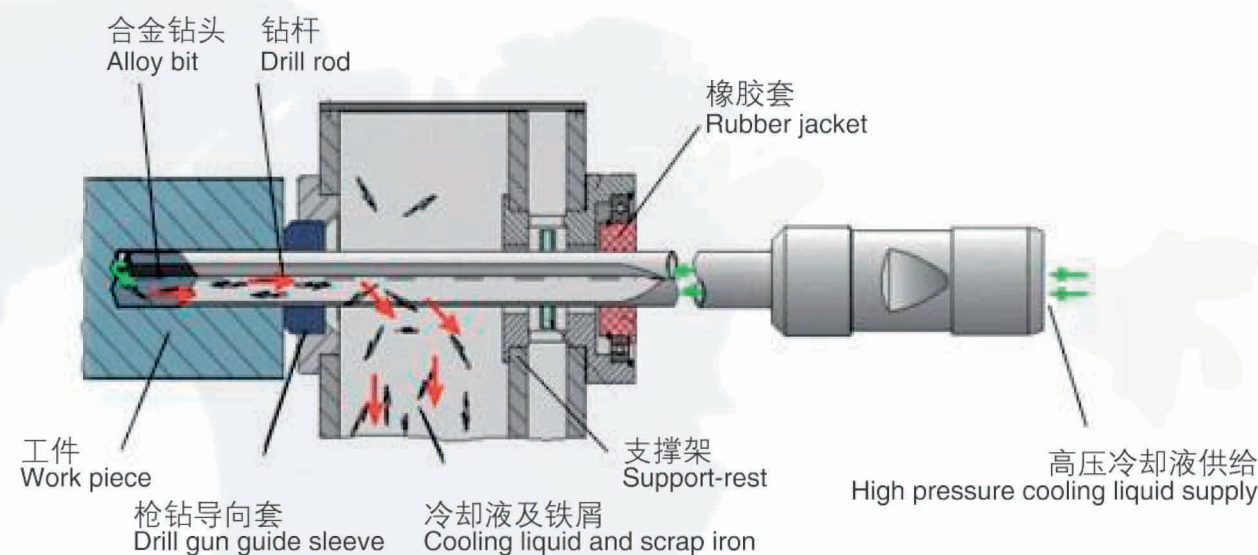


Precision guide sleeve



Precision rubber jacket

PROCESSING PRINCIPLE DIAGRAM



Length calculation 枪钻全长计算

