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Company Profile

(Multi-National Co. with 250 employees)

HTT, founded in Shanghai in 1997, is focusing on Deep-hole drilling machine building, Tools selling, Job-shop drilling and After-sale service.

Shanghai Ningyuan Precision Machinery Corp. as the manufacturing center of HTT, who was founded in 2006, focusing on drilling technology and innovation. And it did successful IPO in Shanghai. Stock in Aug.2018, with code: 873011.

HTT have the network over the world. The Head-Quarter is in Shanghai and there are over 10 branch offices and job-shop drilling in China.

HTT have the overseas Branch office and Job-Shop drilling in Metzingen, Germany, in Wisconsin, USA, in Mumbai & Chennai, India.

Meanwhile HTT has cooperated with the world's leading deep hole drilling tooling manufacturer botek, and become his largest warehouse and tool repair center in Asia. HTT can provide customers with a full range of tool services since 2006.

HTT have Deep-Hole drilling machines as K type for shaft parts; KB/KBR type for cubic parts; SKH type for pellet die and KT type for oil field and military and so on. HTT with 106 patents can supply drilling solution for following industries: Auto; Oil field; Nuclear Power; Mould; Hydraulic; Medical; Military; Aerospace; and so on and so forth.

HTT has been developing honing machines for 10 years.

HTT has been Exhibitor for the world's top 4 machine tool exhibitions: EMO, IMTS, JIMTOF and CIMT. You are welcome to visit HTT booth.

HTT have several hundreds of deep hole drilling machine exported to the UK, Germany, Japan, Holland, Brazil, India, Thailand, Russia, Hungary and etc.

HTT has become the world leading deep hole drilling machine maker!



Our Goal:

No.1 in Deep Hole Drilling!



HTT reserves the right of modify
2019.03



SHANGHAI NINGYUAN PRECISION MACHINERY CORP. (Stock code: 873011)

HOCHENT (SHANGHAI) MACHINERY DEVELOPMENT CO.,LTD.

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Our Goal: No.1 in Deep Hole Drilling!

Complete Solution of Deep Hole Drilling :
Job-Shop + Machines + Tools
www.htt-global.com

HTT History

2018

1. IPO in Shanghai Stock Exchange. (code: 873011)
2. Xitang New Manufacturing base started construction.

2009

Honored as High-Tech Co. and Little Giant Enterprise.

2012

Setting up daughter co. in Germany, USA and India with machine drilling demonstration.

2006

1. Setting up daughter Co.: Shanghai Ningyuan Precision Machinery Co. focusing on drilling technology.
2. Working together with German Botek as win-win cooperation.

1997

HTT founded, specializing in drilling technology.

Our Goal: No.1 in Deep Hole Drilling!

Contents

05

Deep Hole Drilling Machine

14

Honing Craft

15

Job-shop Drilling Used Machine

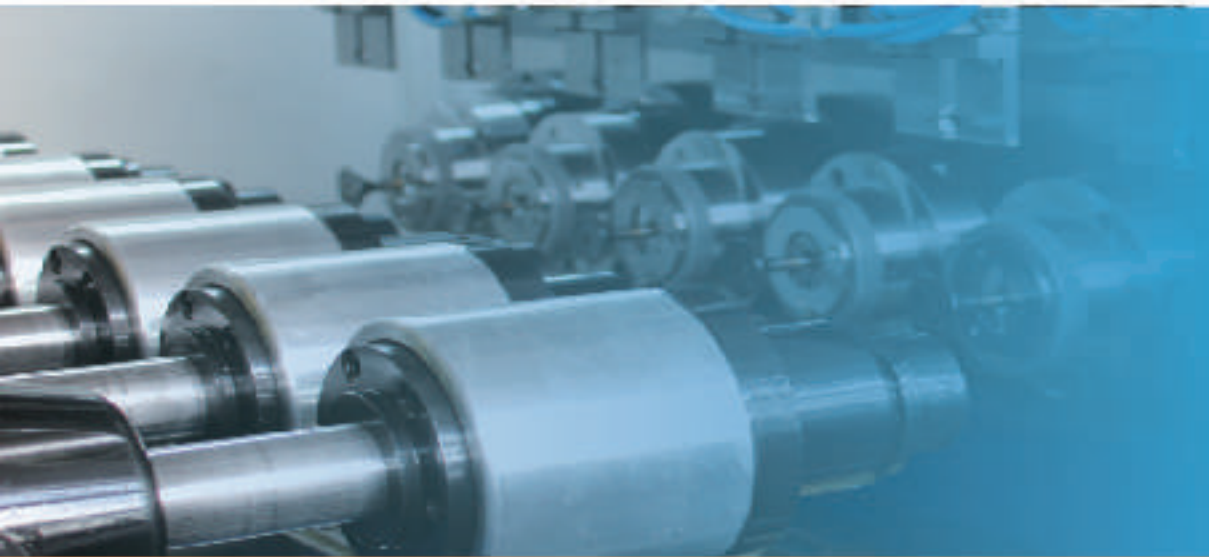
16

Deep Hole Drilling Tool

18

Tool Accessories

K series - Multi Spindle



Options:

Loading and unloading system
Tool monitoring
Auto chip centrifuge

Specification

Machine type	K4	K6	K12	K16/20	K25	K50
Number of spindle	1/2/4/6	1/2/4/6	1/2/4/6	1/2/4	1/2/4	1
Drilling dia. (mm)	φ1.0 - φ4	φ1.5 - φ6	φ3 - φ12	φ4 - φ16/20	φ6 - φ25	φ12 - φ50
Drilling depth (mm)	300/500	300/500	500/800	500/800	800/1200	1200/3000
Spindle motor (KW)	2.4	3	3	4	5.5	15
Spindle speed (rpm.)	20000	15000	8000	8000	4000	2500
Pressure of coolant (MPa)	14	14	12	10	10	6
CNC Control	SIEMENS/FANUC					

Application in automotive, medical, fuel injection, fire arms industry.

Details



Work Pieces



KB series - Fixed Column Type



Application in mould making, job-shop industry.

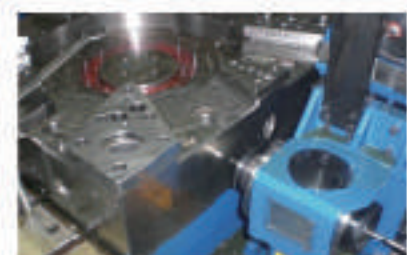
Specification

Machine type	KB-600	KB1000	KB1300	KB1600	KB1800H	KB2000
Drilling dia. (mm)	φ3-φ30	φ3-φ30	φ3-φ30(*①)φ38	φ3-φ30(*①)φ38	φ3-φ38	φ3-φ38
Table size(mm)	830*900	1160*900	1500*900	1800*1250	2100*1300	2100*1300 2300*1450
X-axis table cross travel (mm)	600	1000	1300	1600	2200	2200 3000
Y-axis drilling unit vertical (mm)	600	1000	1000	1200	1200	1200
Z-axis drilling depth max (mm)	600	1000	1300	1600	1600	2000
Spindle speed (rpm.)	6000(*②) 8000	6000(*②) 8000	6000(*②) 8000	6000(*②) 8000	6000	6000
Pressure of coolant (MPa)	7	7	7	7	7	7
Table load (kg)	6000	9000	11000	10000	12000	18000 20000
Machine weight (ton)	5	9	10	13	18	18 24
CNC Control	SYNTEC/FANUC/Others					

*①. Spindle motor set value: 11kw and same motor can work at 15kw in 30minutes.

②. Drilling dia.: φ3-φ20 mm

Work Pieces



KBR series - Movable Column



Application in mould making or other cubic parts.

KBR Multi- Functions:

1. Drilling/Milling
2. Multi-Functions: Drilling + Milling + Tapping + Threading + BTA
3. Servo motor spindle + CNC rotating table + 24 Tools magazine



Specification

Machine type	KBR1000	KBR1300	KBR1500
Drilling dia. (mm)	φ3-φ30	φ3-φ30	φ3-φ38(Drill) φ18-φ60(BTA)
Drilling depth (mm)	1000	1300	1500
Spindle speed (rpm)	6000	6000	6000
Spindle motor power (kW)	7.5/11 (30min)	7.5/11 (30min)	18.5/22 (30min)
X-axis table cross travel (mm)	1000	2000 3000	2000 3000
Y-axis drilling unit vertical (mm)	800	1200 1500	1200 1500
Z-axis column travel (mm)	400	600	600
B-axis (turning speed and range) (r/min)	5.5	2.78	2.78
A-axis: tilting spindle (option)		-15° ~ +25°	
X, Y, Z-axis: rapid travel (mm/min)	6000	6000	6000
Table Size (mm)	1000*1000	1800*1500 2000*1600	1800*1500 2000*1600
Weight (ton)	30	32 38	40 42
CNC Control	SYNTEC/FANUC/Others		

KBA series - Knee Type

Drilling dia.: $\phi 1.5 \sim \phi 25$ mm
Deep depth up to 1000 mm



Application in glass bottle mould industry.



Specification

Spindle number	1,2 or 4
Drilling dia. (mm)	(Single spindle) $\phi 1.5 \sim \phi 8 / \phi 4 \sim \phi 12 / \phi 6 \sim \phi 25$ (Double spindle) $\phi 1.5 \sim \phi 8 / \phi 4 \sim \phi 12 / \phi 6 \sim \phi 25$ (Four spindle) $\phi 1.5 \sim \phi 8 / \phi 4 \sim \phi 12 / \phi 6 \sim \phi 25$
X-axis (table transversal) (mm)	500
Y-axis (table vertical) (mm)	300
Z-axis (drill depth) (mm)	500/1000
Table size (mm)	600X750
CNC Control	SIEMENS/FANUC

SKH series - Pellet Mill Die

(Patent No.2008201570549)

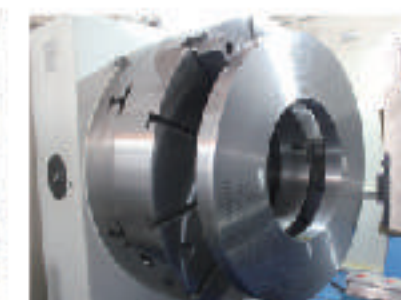


Specification

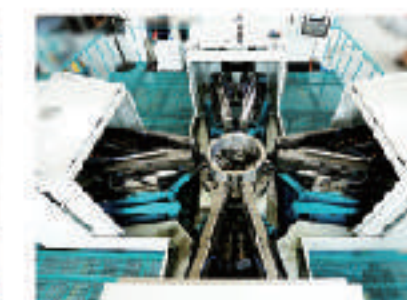
Drilling dia. (mm)	$\phi 1 \sim \phi 5 / \phi 3 \sim \phi 16$
Outside ϕ of pellet die (mm)	$\phi 1000 / \phi 1200 / \phi 1600$
Spindle speed (rpm.)	Max.15000
Feed rate (mm/min)	30-300
Pressure of coolant (MPa)	0-14



Vertical Pellet Die
Deep Hole Drilling Machine



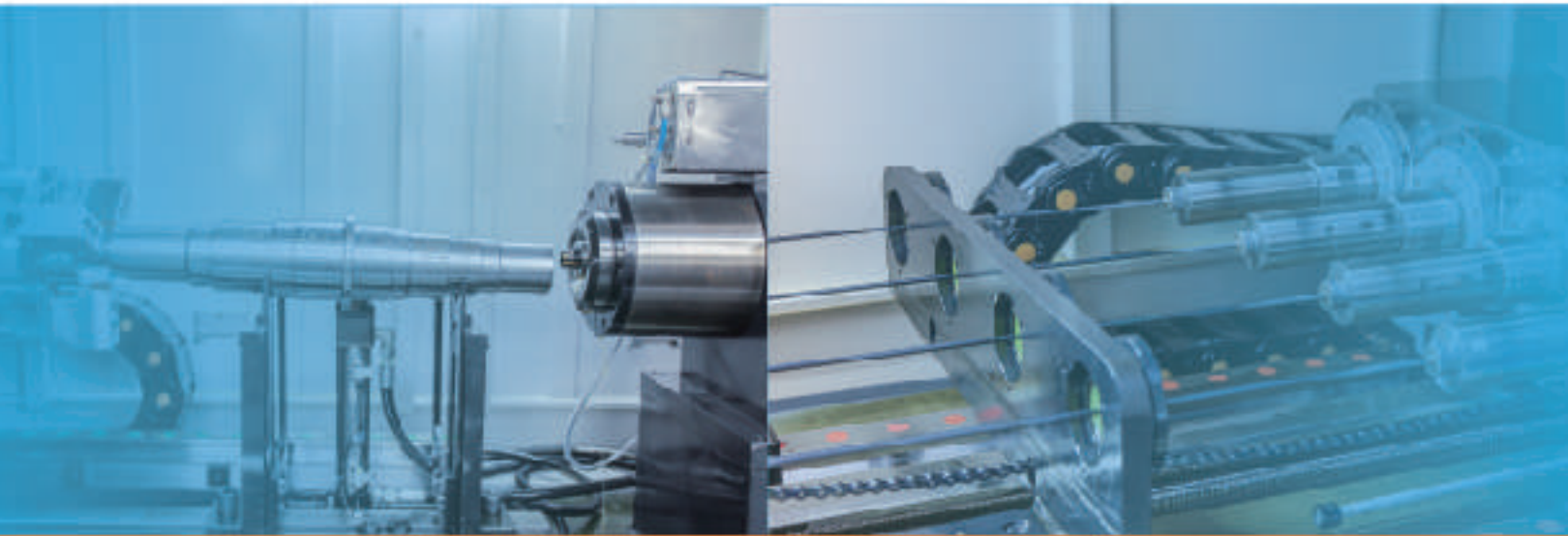
Flat Die
Deep Hole Drilling Machine



Horizontal Pellet Die
Deep Hole Drilling Machine

KT series

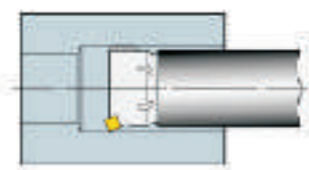
Special Purpose Machine



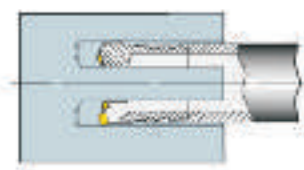
Application in gas and energy, job-shop industry.



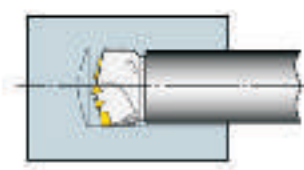
Drilling dia. : $\phi 16 - \phi 150$ mm
Drilling depth up to 10000 mm



boring



trepanning



solid drill

Specification

Machine type	KT50	KT100	KT200	KT320	KT500
Drilling hole dia. (mm)	$\phi 16 - \phi 50$	$\phi 20 - \phi 60$	$\phi 20 - \phi 100$	$\phi 30 - \phi 120$	$\phi 40 - \phi 150$
Boring hole dia. (mm)	/	$\phi 100$	$\phi 200$	$\phi 320$	$\phi 500$
Drilling depth (mm)	3000	6000	8000	10000	10000
CNC Control	SIEMENS/FANUC				



For shock absorber

56-Spindle Paper- Roller
Drilling Machine

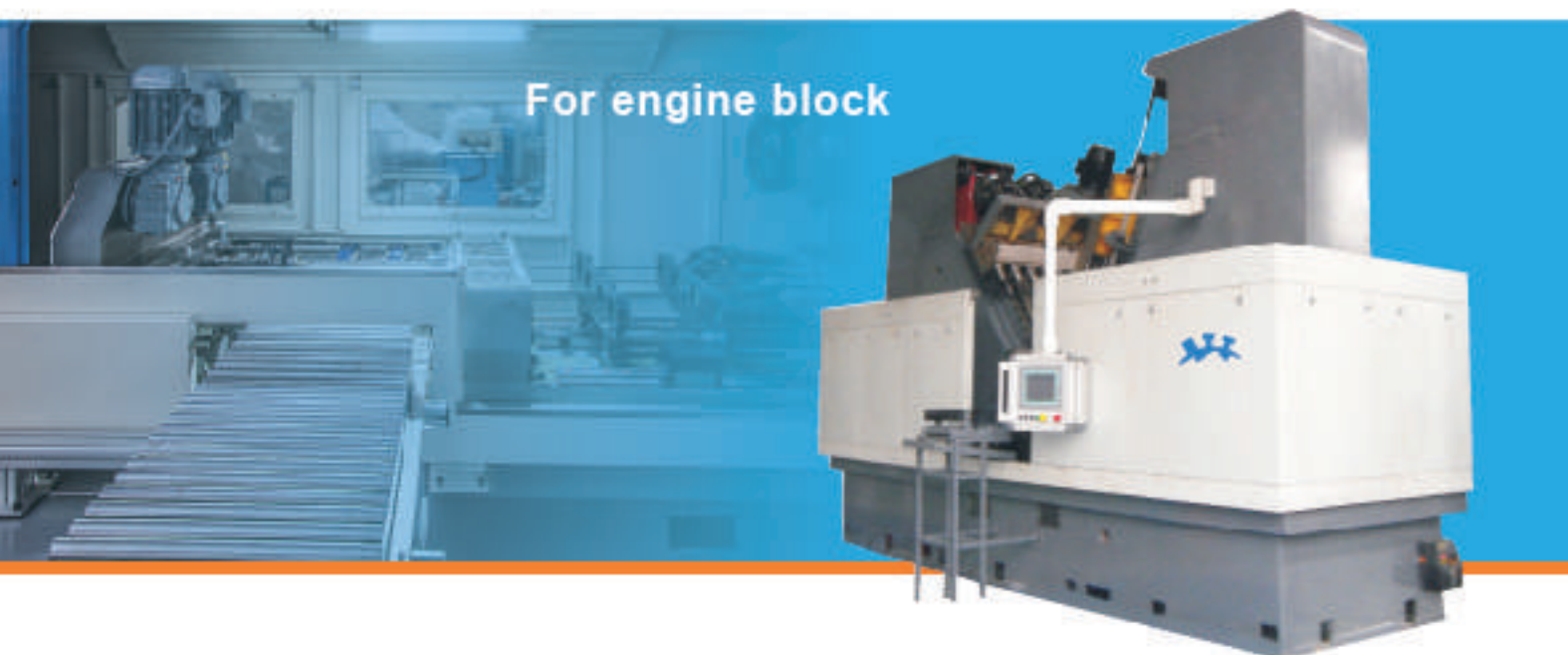


2-Spindle BTA Drilling Machine



For engine valve drilling

Special Purpose Machine



For engine block



KB series - combined machine



For gear shaft

CNC Honing Machine & Honing Tool

CNC Honing Machine

CNC vertical honing machine (VHM) and CNC horizontal honing machine (HM) are HTT's main products.

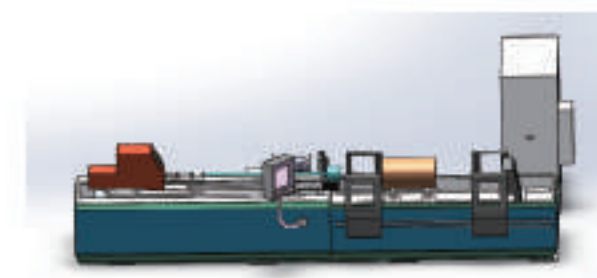
For all of the honing machine, honing spindle are adopted full servo control unit, high precision control by German CNC system, with independent intellectual property honing control unit CUZ1. So this series CNC honing machine can realize machining difficulty, high dimensional accuracy, long diameter ratio, long and thin hole for precision parts processing.

1.VHM Working range of spindle unit:
Honing diameter range: $\phi 5\text{-}\phi 1000\text{mm}$
honing length: $\leq 1500\text{mm}$

2.HM series honing machine is mainly used for honing machine processing of deep hole components.
Working range of spindle unit:
Honing diameter range: $\phi 30\text{-}\phi 1500\text{mm}$
honing length: $\leq 12000\text{mm}$



Honing Machine



Honing Tool



According to the customer's requirement,HTT can design and produce specific abrasive stone (diamond/CBN).

Application



HTT Job-Shop



HTT has many job-shop branches in China, such as Tianjin, Xi'an, Wuxi, Taizhou, Hangzhou, etc. With more than 100 deep hole drilling machines, we can provide customers with fast, high-quality and precision deep hole drilling processing services, we have accumulated a wealth of experience.

HTT takes the lead in the industry to use ERP system for order tracking, to achieve the standardization of technology, efficiency and management, and meet the needs of middle and high-end customers. One-Spindle machines suitable for new and small quantity products. Multi-Spindle machines suitable for HTT also provides used machine tools business, including selling, buying and leasing.

Application:

1. Mould industry
2. Autoparts industry
3. Oil field industry
4. Textile machinery industry
5. Medical device industry
6. Other industry



K series machine for shaft parts

- Hole dia.: $\phi 1$ - $\phi 20$ mm
- Hole depth: 2000 mm
- Tolerance: IT 8~10
- Roughness: Ra 0.8~3.2

KB series machine for cubic parts

- Hole dia.: $\phi 2$ - $\phi 40$ mm
- Hole length: 4000 mm
- Max weight: 10 T

Boring machine

- Hole dia.: $\phi 20$ - $\phi 300$ mm
- Hole length: 5000 mm
- Roughness: Ra 1.6~3.2

Deep Hole Drilling Tool

botek deep hole drilling tool

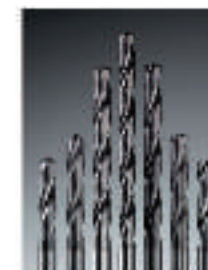
Since 2006, HTT has cooperated with the world's leading deep hole drilling tooling manufacturer botek, and become his largest warehouse and tool repair center in Asia. HTT provides customers with a full range of tool services.



	Solid carbide tool Type 113-HP <ul style="list-style-type: none"> - maximum cutting performance - up to 800% higher feed rates - fast and cost effective regrinding
	Carbide twist drill, extra long, coolant fed - Type 158 <ul style="list-style-type: none"> - highest product quality - short delivery times for new drills or regrinds NEW: Solid carbide twist drills from the deep hole drilling specialist
	Deep hole drilling tool - Type 07A <ul style="list-style-type: none"> - modular concept - high cutting performance - no regrinding required NEW: Solid drilling up to $\phi 113.99$mm
	BTA solid drill head - Type 70 <ul style="list-style-type: none"> - high performance roughing tool - simple handling through fixed insert pockets - very few spare parts - hole tolerance up to IT 10 NEW: Modified chip breaker for optimal feed rates

Cutting Tool

Solid Carbide Drills



Reamer



Special Tool

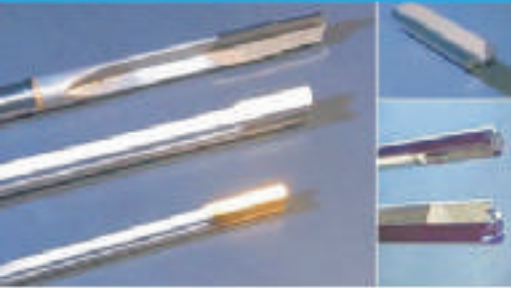


Milling Cutter



Tool Re-tipping and Re-grinding

Re-tipping for botek drill head



Tool Assembling



Tool Re-grinding

Drill Re-sharpening
Drill dia. range: $\phi 1$ - $\phi 40$ mm



Drill-Grinding machine and Accessories



MD-1-400
Manual Type



MD-3-800
4-Axis CNC type



Double ring
grinding wheel



Single ring
grinding wheel

Tool Accessories

HTT specializes in making high-precision drilling accessories. We have large inventory for drill bushes, drill bush holders, whip guides, sealing discs and other tool accessories. All parts can be customer-made. The tolerance is as little as ± 0.005 mm, the smallest ID can be 0.3mm. They are for metal, mold, medical equipment, aerospace and other industries.

With years of experience for manufacturing, complete production quality management system, sophisticated measurement and testing equipment the life time of a variety of drill bushes are greatly improved. High quality tool accessories ensures the production efficiency and quality.

HTT goal: customer and quality first.

HTT products have been sold to many countries like Germany, United States, Thailand, India and Taiwan, HTT wins customers' support and credibility.

Meanwhile, professional pre-sales and after sales service can help customers solve problems in timely.



Our drill bushes are applied to kinds of machine, we can also provide all spare parts as the customer's requirement.