



## WE PROVIDE DEEP HOLE DRILLING SOLUTIONS

### Contact us:

#### HTT Maschinen GmbH

Kaiserstr. 65, 60329 Frankfurt am Main, Germany

Tel: +49 (0) 69 2713769 180

E-Mail: [info@htt-europe.de](mailto:info@htt-europe.de)

[www.htt-europe.de](http://www.htt-europe.de)

#### HTT Engineering Pvt Ltd.

Bldg no. 188/7, Indian Corporation,  
Opposite Gajanan Petrol Pump,  
Mankoli Naka, Bhiwandi 421302

M: 9962233868

Land line: 0091-2522650018

E-Mail: [info@htt-india.com](mailto:info@htt-india.com)

[www.htt-india.com](http://www.htt-india.com)

#### HTT USA Inc.

155 Fairfield Court Oak Creek, WI 53154, USA

Tel: +1 414 534 3507

+1 414 304 5637

E-Mail: [jack@htt-usa.com](mailto:jack@htt-usa.com)

[www.htt-usa.com](http://www.htt-usa.com)

#### Shanghai NingYuan Precision Machinery Co.,Ltd Hochent (ShangHai) Machinery Development Co.,Ltd

Room 2009, Civil Aviation Center No. 18, Xin jin  
Qiao Rd. Pudong, Shanghai, 201206, P.R. China

Tel: +86 21 50304418 50304310

Fax: +86 21 50304311 50301782

E-Mail: [info@htt-china.cn](mailto:info@htt-china.cn)

[www.htt-global.com](http://www.htt-global.com)

*Our goal: No.1 in deep hole drilling*

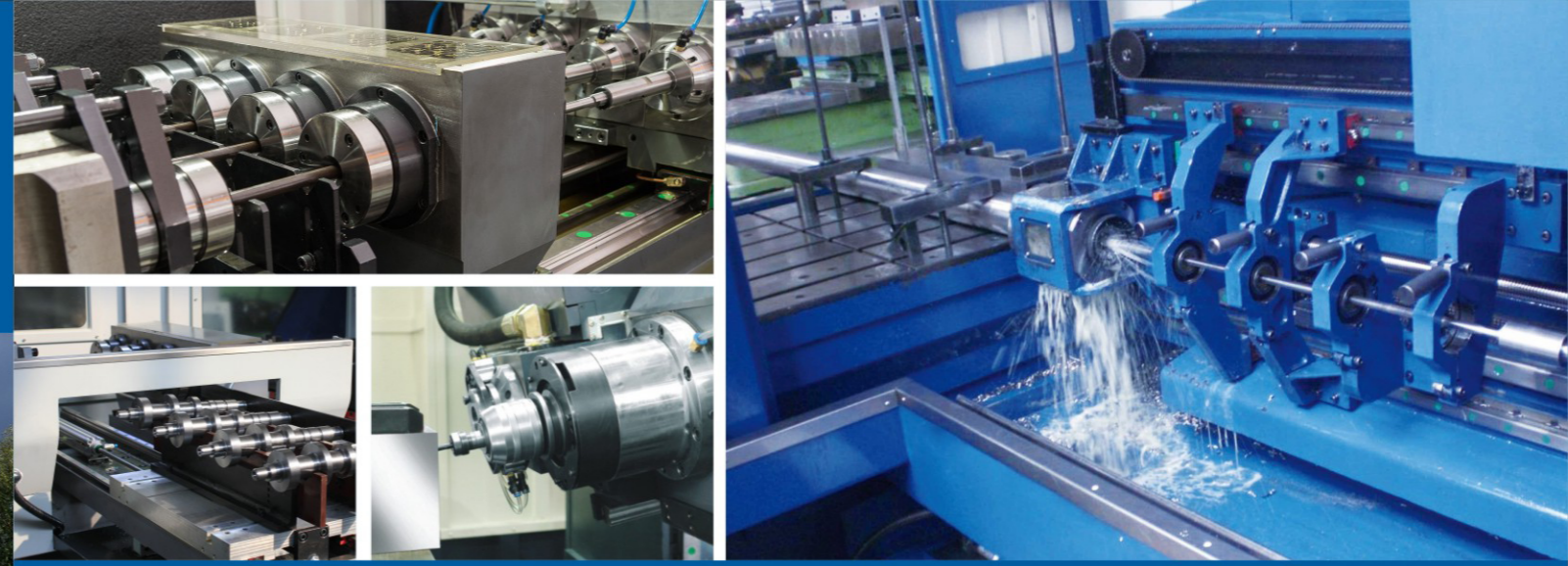


## Deep Hole Drilling Machines



[www.htt-global.com](http://www.htt-global.com)





HTT, founded in 1997, becomes the leader of deep hole drilling solution provider in the world. Machine building factories established in both Germany and China, and over 20 manufacturing units for Job-drilling and machine service in Germany, USA, China and India. Effective service can be provided in short time.

By 2015, over 460 various deep hole drilling machines have been delivered to worldwide, including Germany, Italy, USA, Japan, Russia, Holland, Turkey, South Korea, Brazil, Chile, South Africa, China, India, Bangladesh, etc.

Over 100 valued customers in various industries, including aerospace, defense, nuclear, oil and gas exploration, construction machinery, automotive, die mould, pellet mill, glass mould, medical parts, etc.

Please visit our website for more information.

***Our goal:  
No. 1 in deep hole drilling***

## Catalogue

**K series – Multi spindle** ..... **03**  
Automotive, medical, fluid power, fire arms

**SKH series - Pellet mill die gundrilling machines** ..... **04**  
Horizontal and vertical type

**KB series - Fixed column type** ..... **05**  
Mould making, job shop

**KBR series - Movable column** ..... **06**  
Mould making, or other cubic parts

**BTA series - Deep hole boring machine** ..... **07**  
Gas and energy, job shop

**KBA series - Knee type** ..... **08**  
Glass bottle mould

**Special purpose machine** ..... **09**  
Customer-tailored design to meet your application

**Tooling and Service** ..... **10**



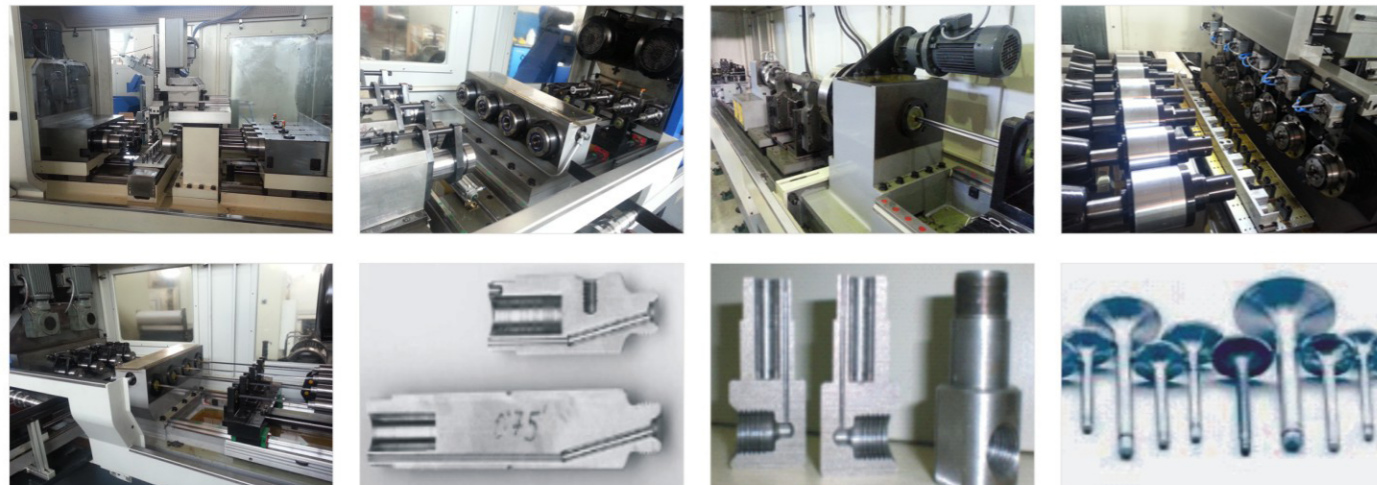
## K series – Multi spindle

Automotive, medical, fluid power, fire arms



### Specification

Machine Type		K4	K6	K12	K16 / K20	K25	K50
Number of spindle		1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2
Hole Size Range $\phi$	mm	1.0 - 4.0	1.5 - 6.0	2.5 - 12.0	4 - 16	6 - 25	10 - 50
	in	0.04 - 0.16	0.06 - 0.24	0.1 - 0.47	0.16 - 0.63	0.24 - 0.98	0.39 - 1.97
Max Hole Depth	mm	300 / 500	300 / 500	500 / 800	800 / 1,200	1,200 / 1,800	1,200 / 3,000
	in	11.81 - 19.69	11.81 - 19.69	19.69 - 31.5	31.5 - 47.24	47.24 - 70.87	47.24 - 118.11
Spindle Motor	kW	2.2	2.2	3	4	5.5	15
Spindle Speed/max	rpm.	18,000	15,000	8,000	6,000	4,000	2,500
CNC Control		Siemens / Fanuc					



## SKH series - Pellet mill die gundrilling machines

Horizontal and vertical type

### Applications

The machine is specially designed to drill pellet mill die. It has total (4) CNC controlled horizontal gun drilling spindles as the most cost efficient pellet mill die production machine. The trouble free production process is resulted in free falling chips from horizontal spindle design.



### Specification

Hole Size Range $\phi$	mm	1.2 - 5 / 3 - 16 / 3 - 12
	in	0.05 - 0.2 / 0.12 - 0.63 / 0.12 - 0.47
Outside $\phi$ of Pellet Die	mm	850 / 1,000 / 1,600
	in	33.46 / 39.37 / 62.99
Number of Spindle	pc.	4, 6, 8
Spindle Distance (adjustable)	mm	50 - 120 / 80 - 200 / 8 spindle fix
	in	1.97 - 4.72 / 3.15 - 7.87 / 0.32 spindle fix
Spindle Speed/max	rpm.	15,000
Feed Rate	mm/min.	30 - 300
Pressure of Coolant	Bar	max. 160

### Operation principle

The work pieces need to be fixed on CNC indexing table, clamped by 3 - jaw / 4 - jaw chuck. 2 x 2 drilling spindles are oppositely mounted on the drilling slides.

On each slide, the distance between 2 spindles can be adjusted.



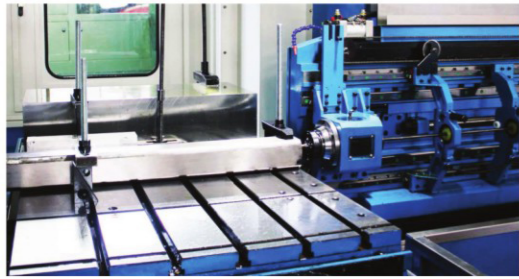
### Features

- Siemens or Fanuc.
- 3 / 4 - jaw chuck for work piece clamping.
- High-pressure coolant supply with filter system.
- High precision indexing table.
- High efficiency & power saving





## KB series - Fixed column type Mould making, job shop

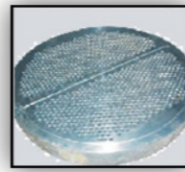
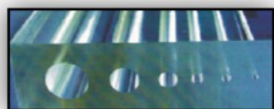


- KB column type gun drilling machine for center and off-center holes drilling.
- It is flexible and cost effective for job shop and mold manufacturing.
- A milling and tapping kit can be included as an option.

### Specification

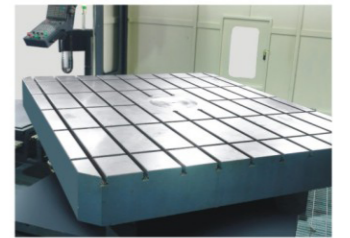
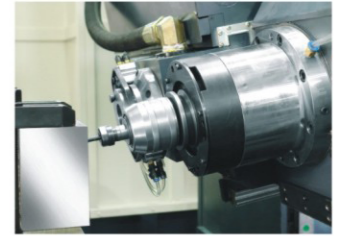
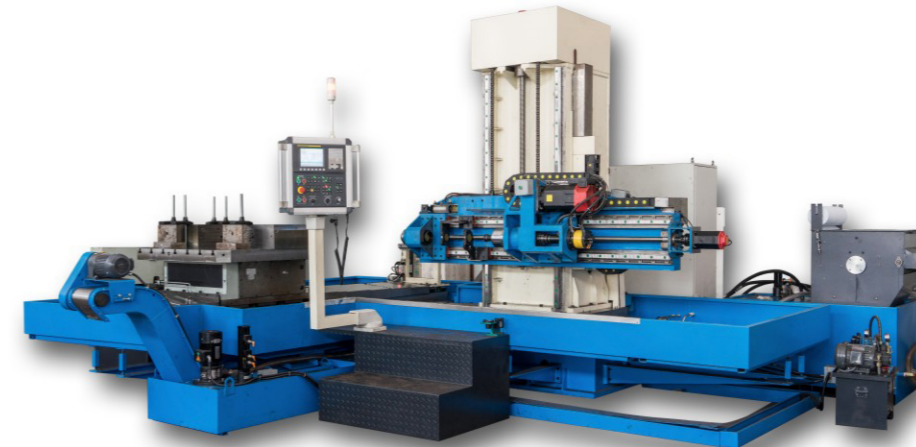
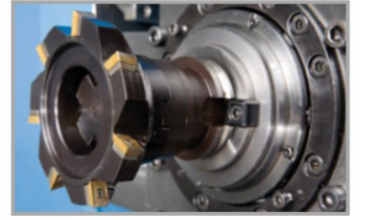
Machines Type		KB-600	KB-1000	KB-1300	KB-1600	KB-2000
Hole Size Range $\varnothing$	mm	2.5 - 20	4 - 30	4 - 30 (Opt. 38)	4 - 30 (Opt. 38)	6 - 38
	in	0.1 - 0.79	0.16 - 1.18	0.16 - 1.18 (Opt. 38)	0.16 - 1.18 (Opt. 38)	0.24 - 1.5
Hole Depth/max	mm	600	1,000	1,300	1,600	2,000
	in	23.622	39.37	51.18	62.99	78.74
Table Size	mm	720x600	1,160x900	1,500x900	1,800x1,250	2,100x1,300
	in	28.35x23.62	45.67x35.43	59.06x35.43	70.87x49.21	82.68x51.18
X - Axis Table Cross Travel	mm	600	1,000	1,350	1,600	2,200
	in	23.62	39.37	531.50	62.99	86.61
Y - Axis Table Vertical Travel	mm	600	1,000	1,000	1,000	1,150 (Opt. 1,500)
	in	23.62	39.37	39.37	39.37	45.28 (Opt. 1,500)
Z - Axis Drilling Depth max	mm	600	1,000	1,300	1,600	2,000
	in	23.62	39.37	51.18	62.99	78.74
Table Load/max	Ton	3	5	7.5	10	18
	lbs	6,600	11,000	16,500	22,000	39,600
CNC Control		Syntec/Fanuc				

### Example of work pieces



## KBR series - Movable column Mould making, or other cubic parts

- Floor type construction with CNC rotary table and moveable column
- Combined Deep Hole Drilling & Milling
- Optional tilted spindle cartridge for angular holes
- Quick change-over between gundrilling and milling
- Additional tool exchanger is possible



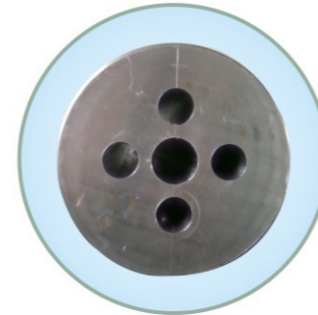
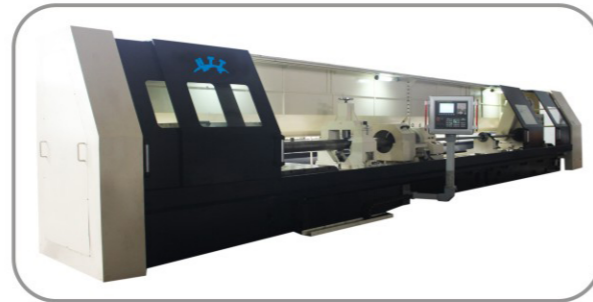
### Specification

Model		KBR-1208	KBR-2012	KBR-3015	KCR-2012	KCR-3015
Drilling dia range	mm	( $\Phi 3$ ) $\Phi 4$ - $\Phi 30$	( $\Phi 3$ ) $\Phi 4$ - $\Phi 30$	( $\Phi 3$ ) $\Phi 4$ - $\Phi 30$	$\Phi 4$ - $\Phi 30$	$\Phi 4$ - $\Phi 30$
	in	(0.12) 0.16-1.18	(0.12) 0.16-1.18	(0.12) 0.16-1.18	0.16-1.18	0.16-1.18
W axis, one-stroke drilling depth	mm	1,000	1,300	1,300	1,500	1,500
	in	39.37	51.18	51.18	59.06	59.06
X axis	mm	1,200	2,000	3,000	2,000	3,000
	in	47.24	78.74	118.11	78.74	118.11
Y axis	mm	800	1,200	1,500	1,200	1,500
	in	31.5	47.24	59.06	47.24	59.06
Z axis	mm	400	600	600	600	600
	in	15.75	23.62	23.62	23.62	23.62
A axis, tool cartridge tilt angle, degree	option	Clockwise 15 degree, - 15 ° to + 25 °	Clockwise 15 degree, - 15 ° to + 25 °	Clockwise 15 degree, - 15 ° to + 25 °	Clockwise 15 degree, - 15 ° to + 25 °	Clockwise 15 degree, - 15 ° to + 25 °
B axis, rotary table, degree		360	360	360	360	360
Table size	mm	1,000x1,000	1,600x1,400	2,000x1,800	1,600x1,400	2,000x1,800
	in	39.37 x 39.37	62.99 x 55.12	78.74 x 70.87	62.99 x 55.12	78.74 x 70.87
Table load	Ton	5	10	20	12	15
	lbs	11,000	22,000	44,000	26,400	33,000
Weight	Ton	12	20	30	30	40
	lbs	26,400	44,000	66,000	66,000	88,000
Size, L x W x H	mm	6,145 x 4,600 x 3,520	8,300 x 7,300 x 4,000	9,500 x 8,200 x 5,300	8,300 x 7,300 x 4,000	9,500 x 8,200 x 5,300
	in	242 x 182 x 139	327 x 288 x 158	375 x 323 x 209	327 x 288 x 158	375 x 323 x 209
CNC controller		Syntec/Fanuc/Siemens				
Remark		1 gal.=3.785L	1ton=2200lbs	1N.m=0.737562lbf.Ft	1 KW=1.36HP	1L=0.2642 US gal.



## BTA series - Deep hole boring machine

Gas and energy, job shop



### Specification

Machine Type		KT100	KT 200	KT 320	KT 500	KT 800
Solid Drilling Ø/max	mm	50	100	120	135	150
	in	1.97	3.94	4.72	5.31	5.91
Counter Boring Ø/max	mm	100	200	320	500	800
	in	3.94	7.87	12.6	19.69	31.5
Drilling Depth/max	mm	1,000 - 6,000	2,000 - 10,000	2,000 - 12,000	2,000 - 12,000	2,000 - 15,000
	in	39.37 - 236.22	78.74 - 393.7	78.74 - 472.44	78.74 - 472.44	78.74 - 590.55
CNC Control		Siemens / Fanuc				

## KBA series - Knee type

Glass bottle mould

A series of deep hole drilling machines in the drill diameter range of 1.5 – 20 mm and drilling depth up to 1,000 mm for off - center drilling.

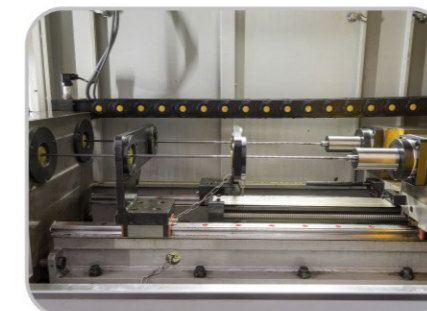
Machines can be provided with 1, 2 or 3 spindles. configuration depending on drill diameter specification.

All machines will be supplied fully guarded according to the CE specifications.



### Specification

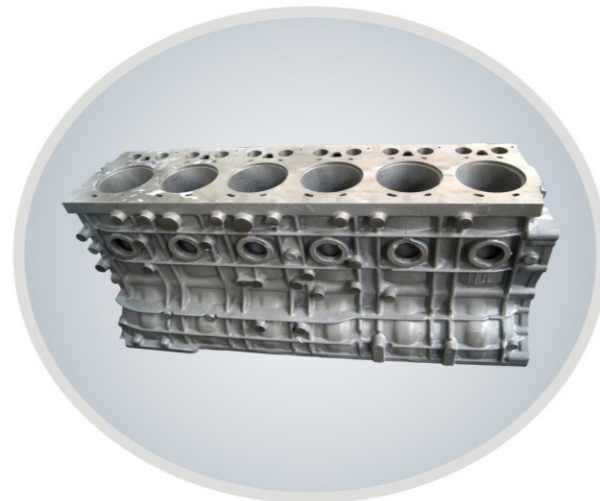
Spindle number				1, 2 or 3
Hole Size Range Ø	mm in	1 - spindl	1.5 - 6 / 4 - 20 / 6 - 25 0.06 - 0.24 / 0.16 - 0.79 / 0.24 - 0.98	
		2 - spindl	1.5 - 6 / 4 - 20 0.06 - 0.24 / 0.16 - 0.79	
		3 - spindl	1.5 - 6 / 4 - 16 0.06 - 0.24 / 0.16 - 0.63	
X - Axis (Table Transversal)	mm in			500 19.69
Y - Axis (Table Vertical)	mm in			300 11.81
Z - Axis (Drill Axis)	mm in			500 / 750 / 1,000 19.69 / 29.53 / 39.37
Table Size	mm in			600 x 750 23.62 x 29.53
CNC Control		Siemens / Fanuc		





## Special purpose machine

Customer-tailored design to meet your application



We can offer deep hole drilling machines according to customer's requirement.



## Tooling and Service

### Service

- Quick-response after sale service
- Job shop drilling
- Spare and ware parts
- Machine retrofitting

### Tooling Accessories

Our customers profit from our wide range of drill bushing, sealing discs and other needed accessories around deep hole drilling.

