Configuration of the machine

Configuration		MTC Series MTC 46	HTC Series HTC 16-6
CNC system			
GSK system		◆	◆
Holding mode	Collet	◆	◇
	Chuck	◇	◆
Guiderail and lead screw	Homemade	◆	◆
	Imported/Taiwan	◇	◇
Tool post type	Gang tool	◆	◆
	Tool post (servo)	◇	◇
	Power unit		
	Axial single head	◆	-
	Axial double heads	◇	-
	Axial triple heads	◇	-
	Radial single head	◇	-
	Radial long/short shaft double heads	◆	-
	Y-axis five-head	◇	-
Chip removal device	Chip receiving cooling tank	◆	◆
	Lateral chip remover	◇	◇
	Rear chip remover	◇	◇
Feeder	Bar diameter	Φ5 -Φ42	Φ5 -Φ42
Tripper device	Specification 25, 3-claw/2-claw	◇	◇
Reducing sleeve	Φ20，Φ16，Φ12，Φ10	◇	◇

Remarks: ◆ Standard configuration ◇ Optional configuration - Not available

Technical Parameters

Items	Units	MTC Series MTC 46	HTC Series HTC 16-6
Machining capacity			
Maximum swing diameter over bed	mm	Φ360	Φ360
Maximum cutting length	mm	270	270
Maximum cutting diameter (discs)	mm	Φ230	Φ230
Maximum cutting diameter (shafts)	mm	Φ45	Φ45
	mm	Φ130	Φ130
Maximum swing diameter over sliding plate	mm	Φ130	Φ130
Spindle			
Spindle head type	-	A2-5	
Spindle hole diameter	mm	Φ56	
Maximum bar-passing diameter	mm	Φ43	
Steps of spindle speed	-	Infinitely variable speed	Infinitely variable speed
Spindle speed range	r/min	40-4500	
Output power of main motor (30 minutes/continuous)	kW	7.5/5.5	
Maximum output torque of spindle (30 minutes)	Nm	45	
Holding method			
Collet	-	Model 46	Model 46
Chuck	-	6" solid/hollow	6" solid/hollow
Tool post			
Tool post type	-	Gang tool	Gang tool
Tool size	mm	20x20/Φ25	
Feeding			
X-axis fast moving speed	m/min	20	20
Z-axis fast moving speed	m/min	24	24
Y-axis fast moving speed (optional)	m/min	10	-
Travel			
X-axis travel	mm	470	470
Z-axis travel	mm	365	365
Y-axis travel (optional)	mm	150	-
Machining accuracy			
Machining accuracy	-	IT6	IT6
Surface roughness of machined workpiece	μm	Ra 1.6	Ra 1.6
Positioning accuracy			
X-axis	mm	0.013	0.013
Z-axis	mm	0.016	0.016
C-axis (optional)	mm	63"	
Positioning repeatability			
X-axis	mm	0.005	0.005
Z-axis	mm	0.006	0.006
C-axis (optional)	mm	25"	-
Maximum load bearing			
Disks/shafts (including machine tool accessories such as chuck)	kg	60	60
Center height			
Distance from bottom surface of bed	mm	969.6	969.6
Machine weight			
Main unit	kg	2200	2200
Overall dimension of machine			
L x W x H	mm	2200×1750×1800	2200x1750x1800

Remarks: The parameters provided in the table are only for reference, and please refer to the actual product in case of change.

The book catalog is designed and produced based on the latest machine tool configuration and technical parameters. Due to the continuous improvement of the machine tool, the actual machine tool may be slightly different from the description in the catalog. Please refer to the actual machine tool for the final delivery. The company reserves the right to modify the contents of this catalog without prior notice.

通用技术沈阳机床
GENERTEC SHENYANG MACHINE TOOL

HTC 16-6 Series
Series CNC Lathe

No.17A-1. Kaifa Avenue of Shenyang Economic and Technological Development Zone
Order telephone:+86 13916455787
After-sales servcie telephone: +86 21-61195255
Dedicated service hotline: +86 400-615-9999

HTC 16-6 Series

CNC Lathe

Product Introduction

High performance lathe featuring compact structure satisfies your requirements for high efficiency and low malfunction

The machine tool features compact structure and small floor space, reasonable layout of functional parts, convenient operation and repair of quill spindle structure, and ensures higher stability and reliability.

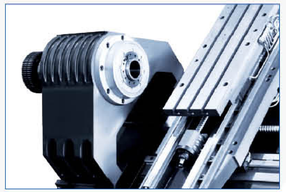
The machine tool bed is tilted at 45 ° and features advantages of smooth chip removal of tilted bed.

Integral full protection, better water proof and chip proof performance, excellent ergonomics and convenience for operation.

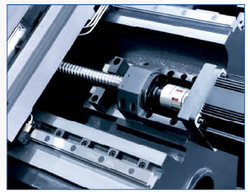
Application fields

HTC16-6 series CNC horizontal gang-tool lathe is a small-size CNC product designed and manufactured to adapt to market demand on the basis of numerous years of technology accumulation and experience of our factory for production of CNC lathe. The machine tool features characteristics such as economical, efficient, energy-saving, high positioning accuracy and easy maintenance, and is the first choice product for turning machining of small-size components of industries such as motor vehicle, hardware and electronics, etc.

Features of the machine



The product features single-spindle headstock, adopts overall spindle unit, reduces power losses of mechanical transmission, and features fast and stable startup, low temperature rise, small thermal deformation and high accuracy.

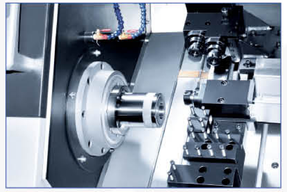


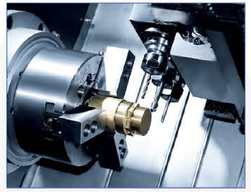
Guiderail adopts specification 30 linear ball guiderail, features high feeding accuracy, small friction resistance, good rigidity and high vibration resistance and deformation resistance, and enables user to obtain high machining accuracy and fast motion speed of machine tool, and obtain higher production efficiency.

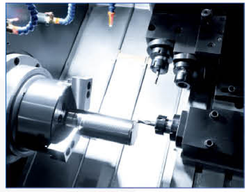
High rotation speed hydraulic chuck and fast changeover collet.

Integral quill spindle, which features characteristics such as low temperature rise, small thermal deformation and high accuracy, etc.

The machine tool adopts integral 45 ° cast iron bed, which substantially enhances rigidity of bed through reasonable arrangement of position of reinforcing rib in bed and increases stability and vibration resistance of machine tool, therefore enhances the accuracy of machine tool.

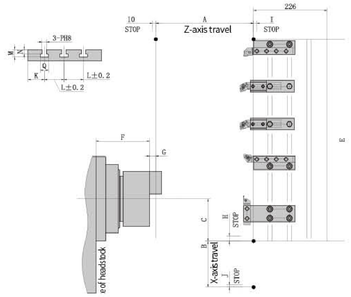




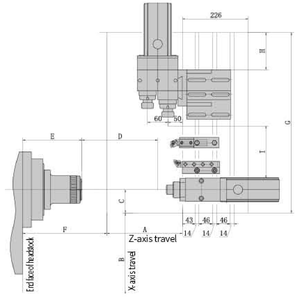


Gang-tool structure features short cutter-changing time duration, higher machining accuracy, stable and reliable performance, and optional configuration of multiple power units such as axial single shaft, double shafts, radial single shaft and long/short shafts; and optional configuration of Y-axis 5-axis power unit for realization of functions of drilling, milling and tapping of machine tool.

Machining travel diagram

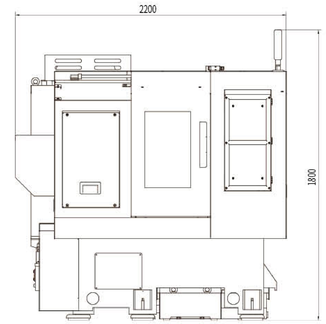
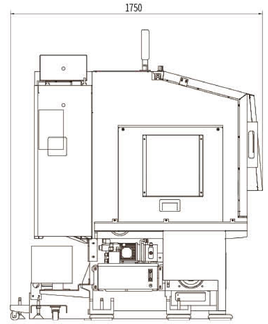


HTC16-6/8



MTC46

	A	B	C	E	F	G	H	I	J	K	L	M	N	P	Q
HTC16-6	365	470	80	620	165	19	16	10	7	50	60	23	14	14	25
HTC16-8					171	13									
HTC1660	430	600	50	800	165	60	15	15	10	50	60	23	14	14	25

	A	B	C	D	E	F	G	H	I
MTC46	260	280	80	260	204	290	620	128	180

Overall dimension of machine