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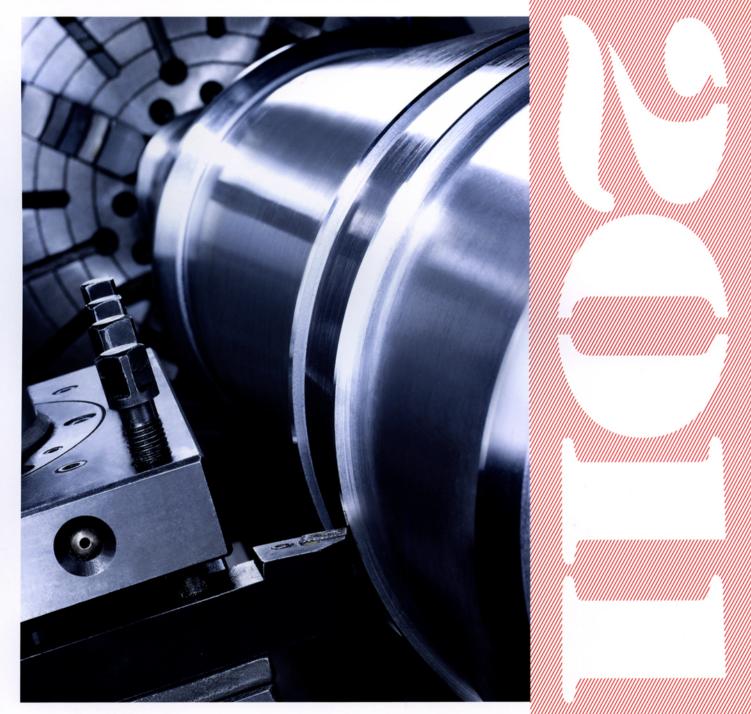
SHENYANG MACHINE
TOOL CO., LTD.

: ← 中国梵天品牌管理瞬间有限公司 电话: 400-001-3099

SHENYANG MACHINE TOOL CO., LTD.



GENERAL CATALOGUE



SHENYANG MACHINE TOOL CO., LTD.

MILLING	03 HMC	05 VMC	07 TC
	series	series	series
Miccirva	09 GMB series	II GMC series	
BORING	IS PBC	17 FBC	I9 AH
	series	series	series
DONING	21 TPX series		
DRILLING	25 GDC series	27 Z series	
	31 HTC	33 HTC (LARGE)	35 ETC
	series	series	series
TUDNING	37 CAK	39 SH	4l STC/SUC
	series	series	series
TURNING	43 CA/CW	45 VTC	47 GTC
	series	series	series
	49 GTM series	51 VERTITURN series	
	SEITES	Series	



Company Profile

Shenyang Machine Tool Co., Itd is the largest subsidiary of Shenyang Machine Tool (Group) Co., Ltd., and was formed from the original Shenyang No. 1 Machine Tool Works, the China Czechoslovakia Machine Tool Co. Ltd., the Shenyang CNC Machine Tool Co. Ltd., and the Liaoning Precision Tool Works. It was created in 1993 under Registration Approval number [1992]31 published by the Shenyang Economic System Reform Committee, with a registered capital of RMB 545,470,000. In July 1996 the company shares were listed on the Shenzhen Exchange as "Shenyang Machine Tool" with the code number of 000410.

Natural Conditions

The company covers an area of 1.15 million square meters, owns 16 subsidiary companies, including 8 subsidiaries that manufacture machine tools, 7 subsidiaries that manufacture the component parts used in machine tools, and an import and export company. It has more than 13,800 employees, 478 of whom have a master's degree or higher. It is equipped with more than 1700 specialized production machines, including 226 highspeed, high-accuracy units such as 5-axis gantry machining centres, horizontal milling and boring centres, etc.

Main Business

The company's main business is the production of metal cutting machines, and its leading products are CNC machines, conventional machines and machine components. The CNC machines include CNC lathes, CNC milling and boring machines, CNC drilling machines, machining centres, heavy-duty machines, high-speed milling machines, etc. Conventional machines include conventional lathes, conventional drilling machines, conventional horizontal boring and milling machines, etc. Machine components include CNC controls and CNC tooling, etc. The company has developed more than three hundred types and thousands of individual specifications which have been sold in all regions of China, and have been exported to over 80 countries of the world. In 2010 the company produced more than 68,000 machines of various types, including more than 21,000 CNC machines, and achieved sales revenue of RMB 8.05 billion Yuan.

Future Development Goals

The company will be guided by technological innovation and first-rate quality engineering to focus on the customers needs, to continuously improve its management structure, to accelerate product development and improvement, to promote lean manufacturing and technological evolution, to greatly improve the scales of production and economic benefit in order to achieve its goal of becoming the world's leading enterprise of its type.

Special machines for different industries Working on being the solution provider »



MILLING TECHNOLOGY **HMC**

VMC

TC

GMB

GMC

New concept new experience

HMC SERIES

HORIZONTAL MACHINING CENTER

New product of HMC50h is Gantry frame, moving column and front headstock, 160mm spindle, max. table load 600kg all these meet high requirement of holes machining of large-size pump body and power precision deep-hole machining of gearbox body.

Spindle 3-shift speed change, wide speed range with big torque, spindle travel 1000mm inner hole machining becomes more easily.

Table double gear with 0-clearance driven, high indexing precision, closed loop control and positioning at any angle can ensure u-turn boring precision.

Horizontal machining center HMC63e

Single column and door type frame structure, CNC vertical rotary table rotate at any angle and five-axis can move simultaneously, max. load is 800kg suitable for high-speed machining curved with surface of complicated parts such as impellers and blades.

2-shift speed change, spindle reaches 5000rpm to achieve high-speed machining.

Five-axis moving simultaneously and concentrating on worktable can accomplish B,C axis swing, CNC rotary worktable can reach 3150Nm torque when does heavy cutting.

100% numerically servo-drive and integrated solution to deal with die & mould manufacturing program can optimize free surface and swing machining.



Travel(Z-axis)

Advanced structure, guarantee

ideal product features









Items	Unit	VMC650E	VMC850E	VMC700B	VMC850B	VMC1000B	VMC1100B	VMC1300B	VMC1600B	VMC2100B
Dimensions of worktable	mm	900×420	1000×500	800×420	1000×500	1200×500	1300×610	1400×700	1700×800	2200×800
Max. load bearing of worktable	kg	600	600	600	600	600	1000	1000	2000	3000
Max. speed of spindle	rpm	50-8000	50-8000	8000	8000	8000	8000/6000	8000/6000/6000	6000	6000
Travel of X/Y/Z axes	mm	650/400/500	850/500/540	700/440/530	850/560/650	1000/610/650	1100/610/650	1300/700/700	1600/800/800	2100/800/800
Rapid travel speed	m/min	32/32/30	32/32/30	32/32/32	32/32/30	32/32/30	32/32/30	24/24/20	24/24/20	18/18/18

Items	Unit	VMC700P	VMC850P	VMC1000P	VMC1100P	VMC1300P	VMC1600P	VMC2180S	VMC21100S	VMC25805	VMC0656e
Dimensions of worktable	mm	800×420	1000×500	1200×520	1300×610	1400×700	1700×800	2000×800	2200×1000	2700×800	Ø400
Max. load bearing of worktabl	e kg	600	600	600	1000	1500	2000	3000	3000	3000	250
Max. speed of spindle	rpm	8000	8000	8000	7000(6000)	6000	6000	20-4500	20-4500	20-4500	8000
Travel of X/Y/Z axes	mm	700/440/530	850/520/550	1000/520/550	1100/630/610	1300/700/700	1600/800/800	2100/800/850	2100/1000/850	2500/800/850	600/560/450
Rapid travel speed	m/min	48/48/48	36/36/36	36/36/36	36/36/24	30/30/24	18/18/18	15/15/10	15/15/10	15/15/10	20/20/20

VMCSERIES

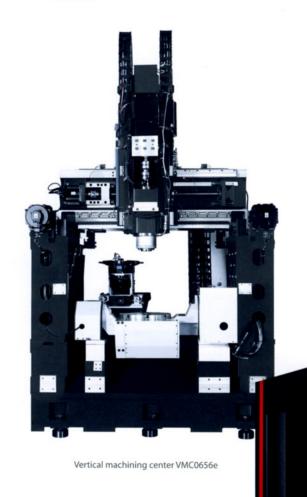
VERTICAL MACHINING CENTER

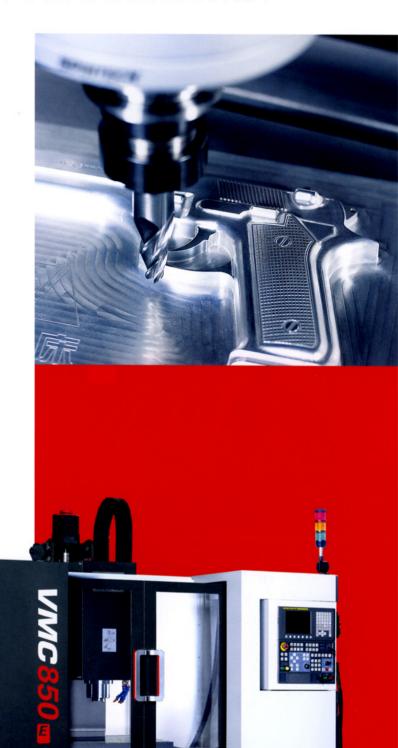
Independent brand of Feiyang CNC system, 15" touch screen type flat liquid crystal display, and user-friendly designed operating interface.

The advanced structure and specific measures to mitigate distortion guarantee a high rigidity for the machine tool.

A split type of protective drawplate on the Y axis is designed for cutting to slide off, is good for the environment; and the lubricating oil is recycled completely to prolong the useful life of the coolant.

The whole machine is sealed and has a great leak proof

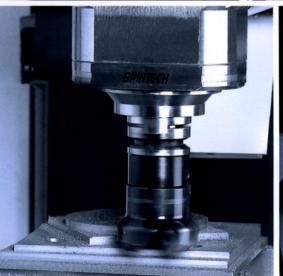


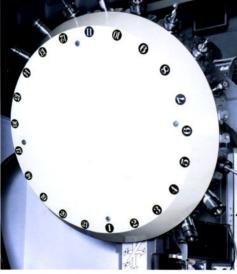


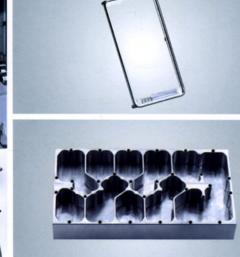
VERTICAL MACHINING CENTER

Technology headership quality assurance









THE RESERVE OF THE PARTY OF THE			Selection of	
Items	Unit	TC500R	TC700R	
Dimensions of worktable	mm	650×400	850×410	
Max. load of worktable	kg	250	250	
Max. spindle speed	rpm	10000	10000	
Rapid travel speed (X/Y/Z)	m/min	48/48/36	48/48/36	
Capacity of tool magazine	piece	14	14	

HIGH SPEED DRILLING AND TAPPING CENTER

Pursue production efficiency

Improvement for operation performance

High precision

The production efficiency of the machine is improved through optimizing the starting and stopping time of the spindle, adopting simplify and quick-change tool mechanism, and using high-precision G code functions which shorten processing time.

Standard olour LCD display of 8.4 inches

Standard built-in PLC function

Carry PLC function in the NC system, and no setting required between NC and PLC.

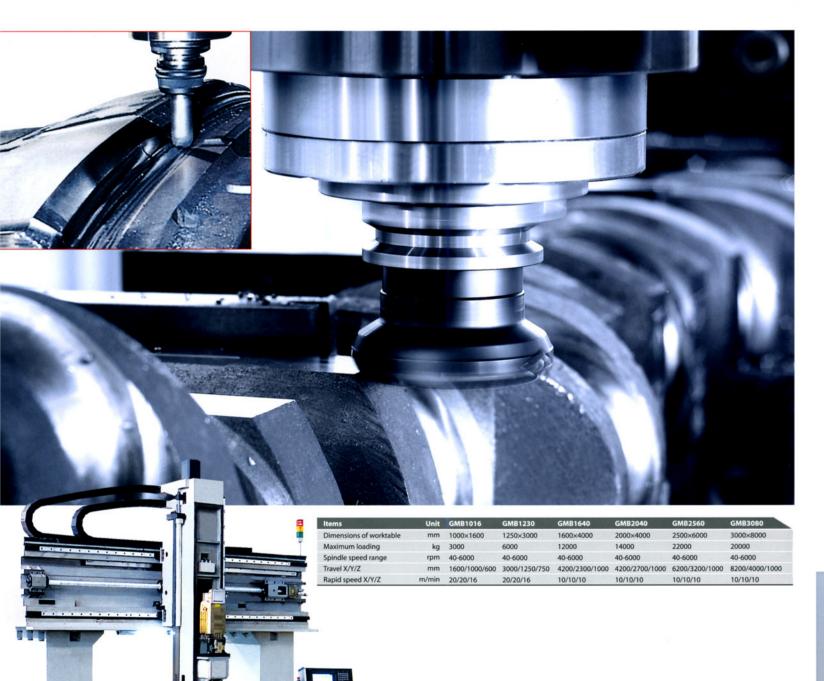
The machine is equipped with new type 0i(MATE)-MD CNC system with high speed and high precision, which greatly improves the machining precision of the





Intelligence found everywhere

GANTRY TYPE CNC MILLING & BORING MACHINE (MACHINING CENTER)



GMB10/12/16/20/25 series

The main travel of the machine adopts AC servomotors with wide speed range and ZF gearbox to provide great torque output at low speed making it suitable for heavy cutting, and constant power in high speed, making it suitable for finish machining as well.

The large cross-section design of the cross-beam and the the "step" design of the guide-ways minimize the distance between the lower guide-way and the spindle center-line, and provides increased strength against bending and torsion, in order to render stable cutting characteristics.

The headstock is equipped with a symmetrical double hydraulic balancing mechanism to provide steady and accurate movement of the headstock.

The spindle is supported by precision bearings to increase rigidity and minimize run-out. It comes equipped with an oil chiller to minimize change in spindle temperature during operation, thus reduce thermal distortion.

The bed, column, cross-beam, guideways, and spindle box of the machine are made of iron cast in resinbonded sand, and the ample ribbing structure provides superb rigidity and steadiness of movement.

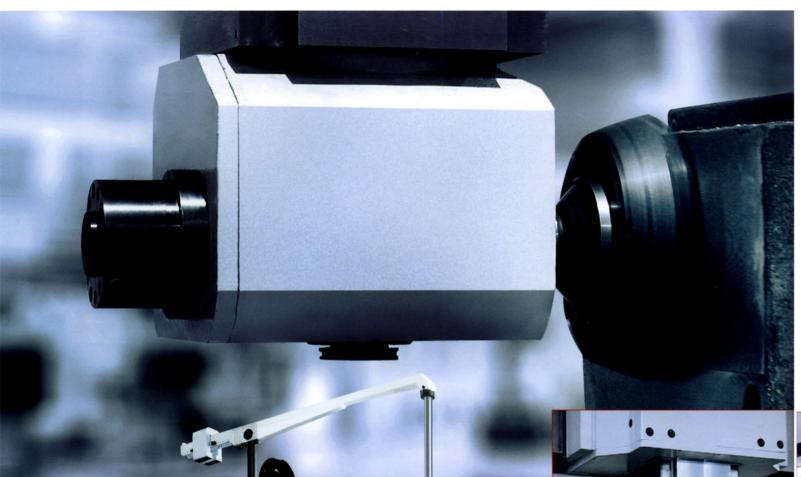
The table of the machine has excellent positioning accuracy and static response characteristics, owing to the optimal design which combines a high-inertia AC servo-motor, high quality ball screws, and heavy-duty linear guide-ways.



Gantry type boring and milling machining center GMB2040

Heavy cutting High efficiency

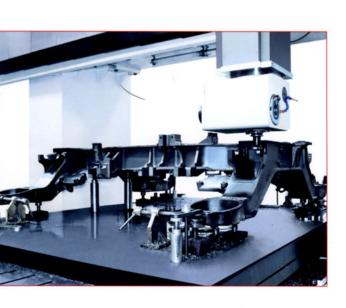
GANTRY TYPE CNC MILLING & BORING MACHINE (MACHINING CENTER)



Advanced, safe, stable and efficient electric control system
Cross beam cast in resin-sand, steel insert guideways hardened to
HRC 60+/- 2 and ground. It features low coefficient of friction and
large bearing capacity, and is suitable for heavy cutting.
Bed section is cast using resin-sand technique, is very sturdy and
rigid in its construction, and can fully support the weight of the
gantry to keep the machine true and accurate to its purpose.
The spindle head integrates vertical and horizontal spindle
orientation, and can be indexed in a rotary axis to increments of 5
degrees, and can allow machining on 5 faces of the work-piece.
The bed, columns, cross0beam and ram are all cast using resin-sand
technology, with well-designed ribbing, producing a machine frame
with high rigidity and excellent stability.

Items	Unit	GMC1530r2	GMC2040r2
Dimensions of worktable	mm	1500×3000	2000×4000
Maximum loading	kg	10000	20000
Spindle speed range	rpm	10-2000	10-2000
Travel X/Y/Z	mm	3600/2700/1000(1250 option)	4200/3200/1000(1250 option)
Rapid speed X/Y/Z	m/min	13/13/10	13/13/10

Items	Unit	GMC2060r2	GMC2550r2	GMC2560r2
Dimensions of worktable	mm	2000×6000	2500×5000	2500×6000
Maximum loading	kg	25000	25000	25000
Spindle speed range	rpm	10-2000	10-2000	10-2000
Travel X/Y/Z	mm	6200/3200/ 1000(1250 option)	5200/3700/ 1000(1250 option)	6200/3700/ 1000(1250 option)
Rapid speed X/Y/Z	m/min	10/13/10	10/13/10	10/13/10





11/12



BORING TECHNOLOGY **PBC**

FBC

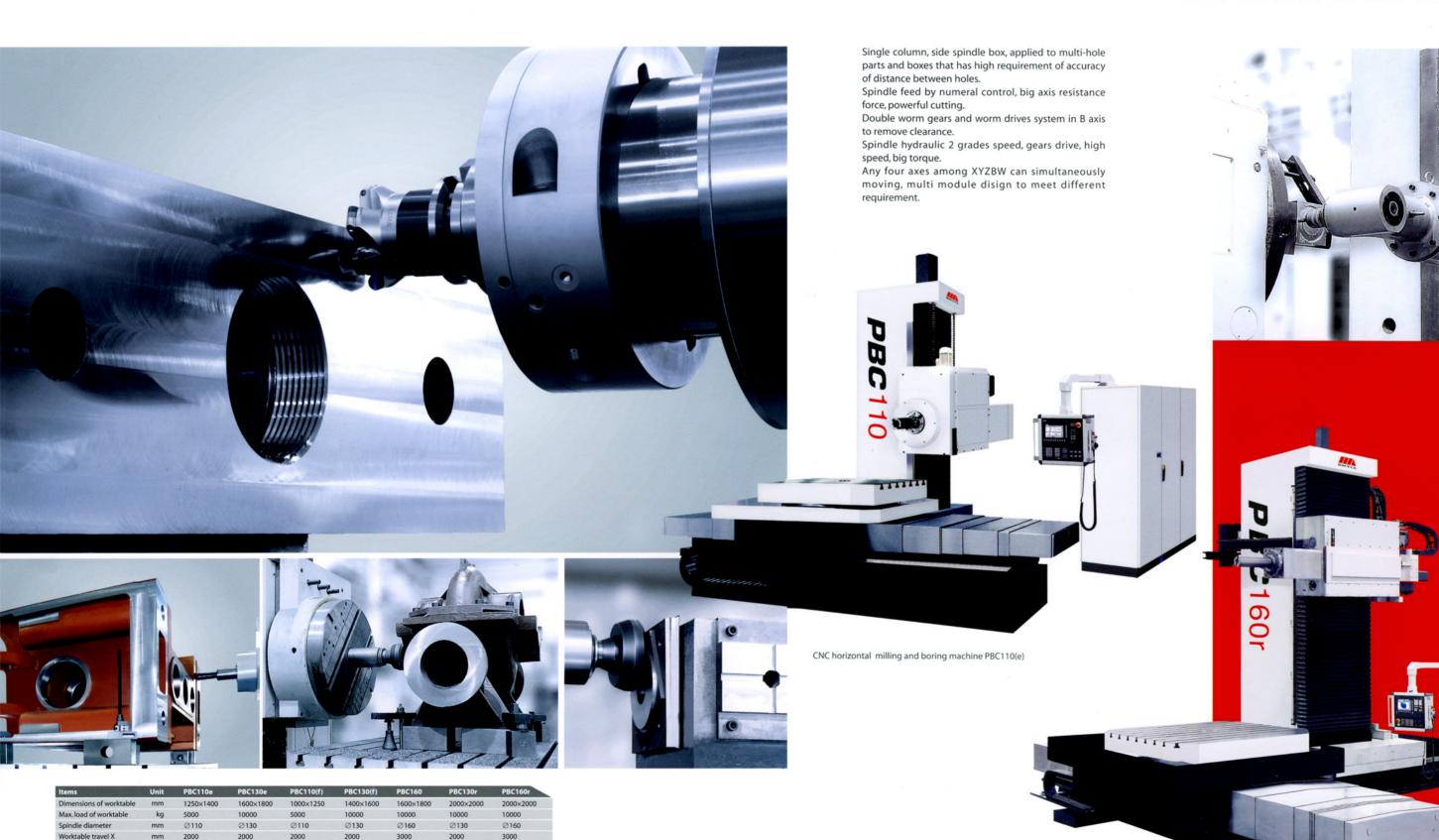
AH

TPX

Model of value rational choice

PLANNER TYPE CNC MILLING AND BORING MACHINE (MACHINING CENTER)

CNC horizontal milling and boring machine PBC160r



550

1600

1500

1600

2000

1600

2000

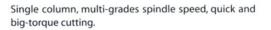
Headstock travel Y

Upright column travel Z

Up-to-date technology

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FLOOR TYPE CNC MILLING AND BORING MACHINE (MACHINING CENTER)



Double motors drive for X axis (when X axis travel longer than 4000mm), any four axis among XYZBW can simultaneously moving.

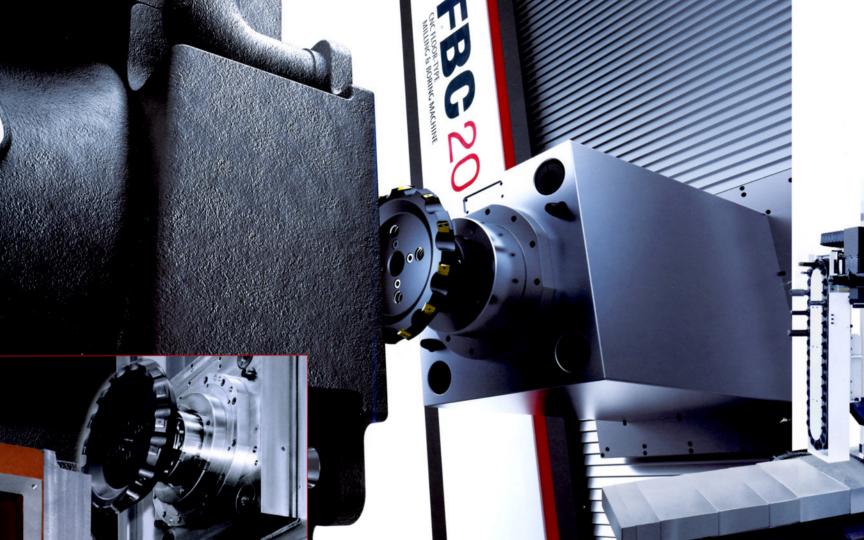
Closed loop, high positioning accuracy.
Big section ram, 4 angles or 8 angles contact. Big torque, good rigidity, suitable for quick cutting, CNC square ram, moveable spindle can deep machining.

Hydraulic cylinder can compensate temperature rising

effection and gravity effection, guarantee spindle sticking out accuracy.

Auto operation room, convenient and safe.

30



Items	Unit	FBC110	FBC130	FBC130r	FBC160r	FBC200r
Spindle diameter	mm	Ø110	Ø130	Ø130	Ø160	Ø200
Upright column travel X	mm	4000	4000	4000	4000	6000
Headstock travel Y	mm	1500	1600	2000	2000	4000(5000)
Ram travel Z	mm			700	700	1250
Spindle travel W	mm	550	800	700	700	1200
Ram section size	mm			480×480	480×480	520×580

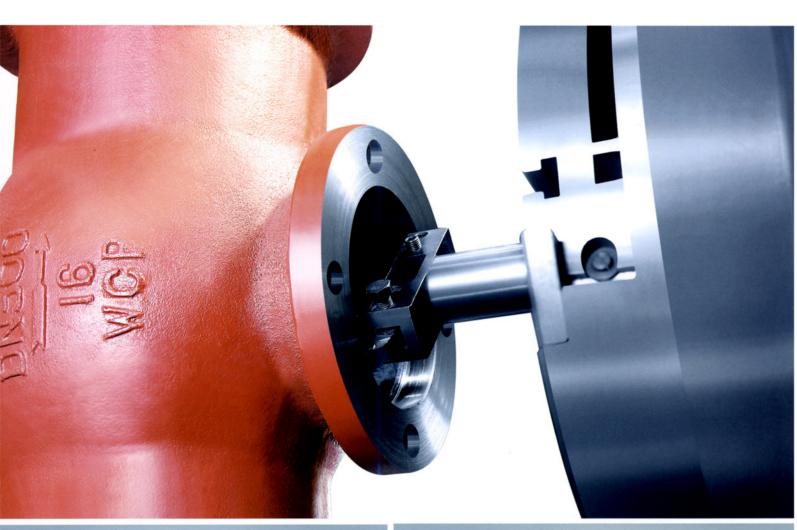
Note: upright column travel –X axis increased by degrees each 1000mm.

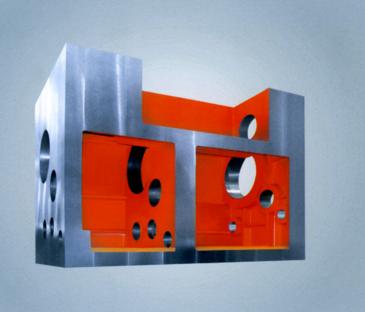




Advanced structure, guarantee ideal product features

AUTO HORIZONTAL MILLING AND BORING MACHINE







AH series auto horizontal boring and milling machine which can be operated easily, can machine on box, shell, frame and other large parts for drilling, boring, reaming, broaching, reaming, spot-facing and tapping. The excellent products are widely used in energy sources, transportation, heavy, petrochemical and other mechanical industries. It is the key equipment for machining box type parts.

Auto milling and boring machine is a new developed product, which has the following characteristics:

One key cycle: high efficiency.

Drilling cycle: rapid trending, drill feeding and full speed returning.

Peck drilling cycle: deep hole drilling, fixed depth chip removal, rapid replacement and continued drilling feed.

Floating tapping cycle: automatic calculation of feed speed on given pitch; spindle reversal back after reaching located place and return to original place automatically.

Automatic face milling cycle.

Easy operation by simple training with low labor cost.

Point to point automatic positioning: positioning accuracy up to \pm

Safe and reliable: perfect protection device according with international standards.

Environment Protection: ingenious designed oil groove achieving lubrication oil recycle; integrated hydraulic system on headstock and bed reducing the oil wear; idle running power reduced and less power loss by shorten gearing chain.

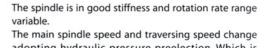
Items	Unit	AH90	AH110	AH130
Spindle diameter	mm	90	110	130
Max. spindle torque	N.m	820	1250	3200
Range of spindle speed	r/min	8-1000	8-1100	8-800
Max.facing torque	N.m		1960	4700
Positioning accuracy (X/Y/Z/W)	mm	± 0.02/1000	±0.02/1000	±0.02/1000

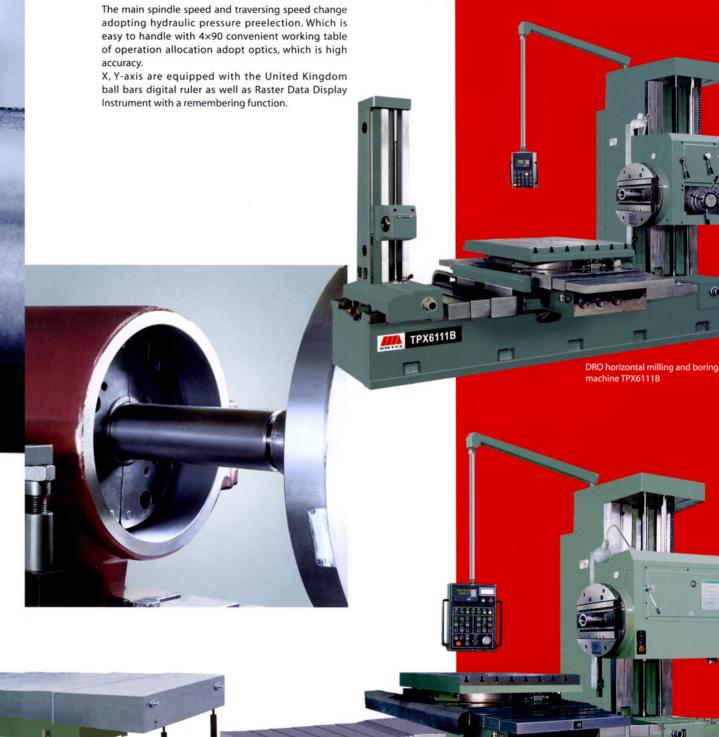


Advanced structure, guarantee ideal product features

TPXSERIES

DRO HORIZONTAL MILLING AND BORING MACHINE







 Items
 Unit
 TPX6111B
 TPX6111B/2
 TPX6111B/3
 TPX6113
 TPX61132
 TPX6113B/2
 TPX6211
 TPX6213

 Main spindle diameter
 mm
 110
 110
 110
 130
 130
 130
 110
 130

 Spindle speed range
 r/min
 8-1000
 8-1000
 8-1000
 8-1000
 8-800
 8-800
 8-1000
 4-800

 Main motor power
 kW
 7.5
 7.5
 7.5
 15
 15
 15
 18.5
 7.5
 15

 Max. spindle torque
 N.m
 1225
 1225
 1225
 1250
 3136
 3136
 2950
 1225
 3136

 Max. facing head torque
 N.m
 1960
 1960
 1960
 4900
 4900
 4694
 1960
 4900

Floor type DRO milling and boring machine TPX62 series

TPX6113B/2

DRILLING TECHNOLOGY

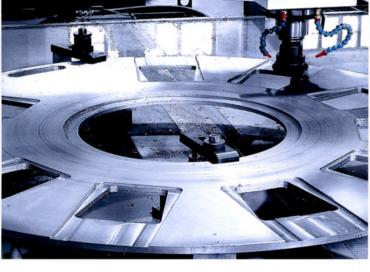
GDC

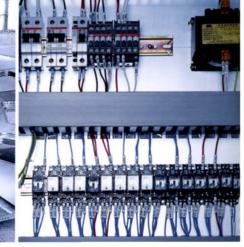
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GANTRY TYPE CNC DRILLING MACHINE (MACHINING CENTER)









Items	Unit	GDC1012A	GDC1016A	GDC1216A	GDC1220A	GDC1230A	GDC1620A	GDC1630A
Worktable size	mm	1000×1250	1000×1600	1250×1600	1250×2000	1250×3000	1600×2000	1600×3000
Max. drilling diameter	mm	Ø40	⊘40	⊘40	∅40	⊘40	⊘40	⊘40
Spindle motor power	kW	12	12	12	12	12	12	12
Max. load of worktable	kg	1550	1550	1600	1600	2000	2500	2700

The machine adopts gantry construction and the columns and beam are fixed-connection by steel plate to eliminate welding deformation effectively. The deformation generated by drilling axial force can be controlled by strong anti-bend capability of the beam. The imported spindle components features high rigidity and high accuracy.

pneumatic releasing tool and spring clamping tool.
The axes driven by ball screw with high accuracy features smooth transmission and high accuracy. The roller linear guideway of X and Y axes provides



Durable quality reflected

RADIAL DRILLING MACHINE



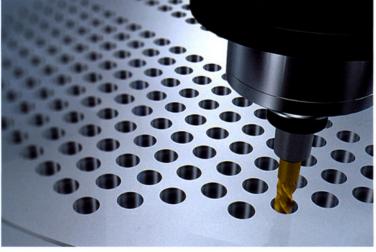
The series of products won the state quality gold

medal.
Z3050×16/1 has 16 variable speeds and feeds enable economic and high efficiency. Clamping and speed changes are achieved by hydraulics that is very reliable. Mechanical and electrical controls are centralized on the headstock for fast and easy operation.



Universal radial drilling machine Z3150





Items	Unit	Z3032×8/1	Z3040×12/1	Z3050×16/1	Z3063×20/1	Z3080×25	Z30100×31	Z30125×40	Z3150	Z3350	Z33100×40	Z3550
Maximum drilling diameter	mm	32	40	50	63	80	100	125	50	50	100	50
Travel of spindle	mm	240	315	315	400	450	500	560	315	315	500	315
Range of spindle speeds	r/min	75-1220	25-2000	25-2000	20-1600	16-1250	8-1000	6.3-800	16-1250	25-2000	16-1250	16-1250
Main motor power	kW	1.5	3	4	5.5	7.5	15	18.5	7.5	4	15	4



Slide block radial drilling machine Z33100×40



TURNING TECHNOLOGY HTC

HTC (LARGE)

€TC

CAK

SH

STC/SUC

CA/CW

VTC

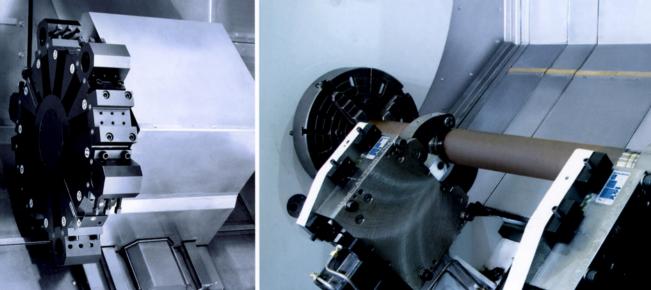
GTC

GTM

VERTITURN

SLANT-BED CNC LATHE





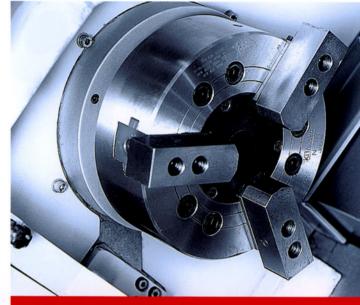
Items	Unit	HTC1608	HTC1635	HTC20n series	HTC3230	HTC32 series	HTC40n/50n series	HTC63n series	HTC80n series
Max. swing dia. over bed	mm	480	400	480	520	460	700	800	950
Max. cutting diameter	mm	160	160	200(shaft)/260(disc)	320	320	400/500	630	800
Spindle bore diameter	mm	40	43	52/62	80	62/80	80/104(option)	96	130
Range of spindle speed	rpm	100-5000	200-4000/60-6000	50-4000	35-2500/50-1500	200-3000/200-2600	35-3500/35-3000	20-2000/768	20-1200/2500

HTC machine is horizontal slant-bed CNC lathe which permits high-speed machining, highly intelligent, efficient, and safe operation. Its structure has been designed using finite element analysis software, breaking through previous limitations of design engineering, producing a machine of high accuracy and repeatability, with consistent results.

This ideal combination of spindle assembly and feed mechanism raises the level of high speed performance. The work area of the machine has been increased in volume by nearly 50% despite little change in the overall dimensions of the machine, and this means that the machine will be much more efficient for the user. The patented oil-water separation unit can improve environmental conformity, and reduce production costs to the user. This is a world class machine that is competitive with any other machine in the marketplace.









High stiffness, high strength and good stability

LARGE - TYPE CNC LATHE



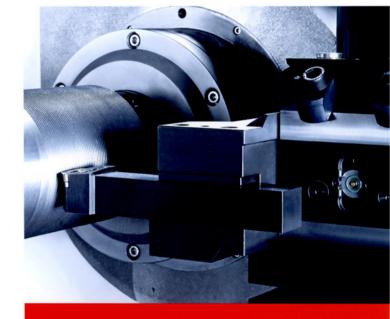
There are light, medium, heavy, and super-heavy versions of this series of machine. Maximum swing diameter from 1000 mm. to 3150 mm. and maximum weight of work-piece held between centers of from 5-tonnes to 160 tonnes.

The light series adopts vee-and-flat type of guideway; the medium series has either double rectangular "box" type ways, or integral triple guideways; the heavy series incorporates integral "quad" box-ways; the super-heavy series has separate quad box-ways.

This series can machine various shaft and disc-type work-pieces. It can also turn thread, circular, arc, cone, inside and outside curved surfaces of rotary parts, and can meet the speed requirements of ferrous and nonferrous metals for high-speed cutting.

This series of machine is designed principally for the machining of rotary work-pieces with high efficiency, in large batches, and with high accuracy in the fields of ship-building, railway locomotive, aerospace, military, metallurgy, etc.

The rigid configuration of the bed, spindle, and tailstock greatly enhance the overall rigidity of the machine, ensuring stability during heavy cutting.







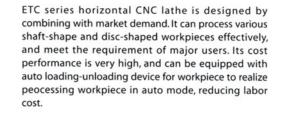


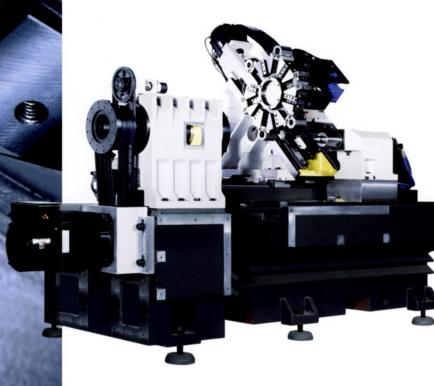
NEW CNC LATHE

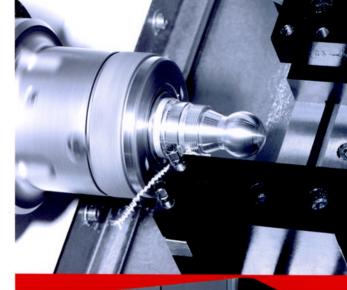
High accuracy, high efficiency

erc series

NEW CNC LATHE









Items	Unit	ETC1625p	ETC3635p	ETC1625u	ETC3635u	ETC3650u	ETC3650e
items	Unit	ЕТСТО25Р	Е1С3033Р	EICIOZSU	E1C3033u	ETC3030U	
Max. swing dia. over bed	mm	450	420	450	420	420	420
Max. swing dia. over carriage	mm	160	170	200	260	260	260
Max. cutting diameter	mm	160	360	160	360	360	360
Max. cutting length	mm	250	350	250	350	500	500
Max. spindle speed	r/min	4000	3000	4000	3000	3000	2400
Spindle bore	mm	∅50	⊘53	⊘50	⊘53	Ø62	⊘62
Max. dia of the bar	mm	∅38	∅36	∅38	∅36	⊘50	⊘50
Form of turret	piece	gang tool	gang tool	horizontal 6-position	horizontal 6-position	horizontal 6-position	horizontal 8-position
Main motor power	kW	5.5/7.5	7.5/11	5.5/7.5	7.5/11	11/15	11/15

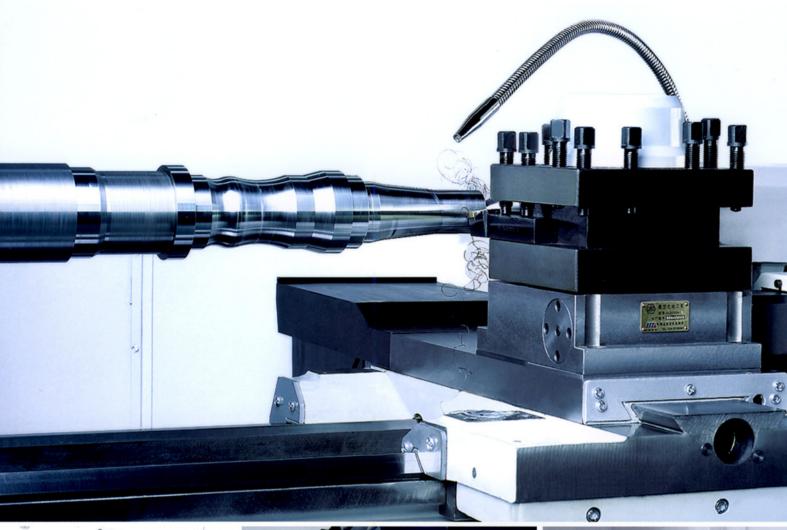
Items	Unit	ETC1625h	ETC3650h	ETC3675h	ETC5050h	ETC5075h	ETC50100h	ETC50150h
Max. swing dia. over bed	mm	450	420	420	590	590	590	590
Max. swing dia. over carriage	mm	200	260	260	330	330	330	330
Max. cutting diameter	mm	160	360	360	500	500	500	500
Max. cutting length	mm	250	500	750	500	750	1000	1500
Max. spindle speed	r/min	4000	3000	3000	3000	3000	3000	3000
Spindle bore	mm	⊘50	Ø62	Ø62	Ø62	Ø62	Ø62	Ø62
Max. dia of the bar	mm	∅38	⊘50	⊘50	⊘50	⊘50	⊘50	∅50
Form of turret	piece				horizontal 8-position	n		
Main motor power	kW	5.5/7.5	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5

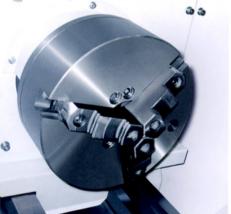


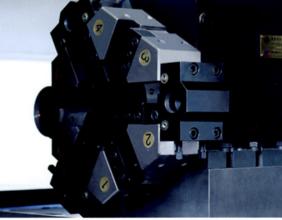
Durable quality reflected



FLAT-BED CNC LATHE









Items	Unit	CAK36 series	CAK40 series	CAK50 series	CAK61 series	CAK63 series	CAK80 series	CAK100Q series
Max. swing dia. over bed	mm	⊘360	⊘400	⊘500	Ø610	⊘630	⊘800	Ø1000
Max. cutting length	mm	650	850	600-1860	600-1860	600-2850	1350-4850	1300-4800
Spindle bore	mm	⊘53	⊘53	⊘70	⊘70	Ø104	⊘104	⊘104
Main motor power	kW	5.5	5.5	7.5	7.5	11	15	15
Total power	KVA	15	15	15	15	22	22	30

The series of lathes bed saddle attaches the TSF guideway board, and has steady precise. The tool rest has the vertical four positions, the vertical six positions, the horizontal six positions and so on many kinds of forms. The system has many choice such as FANUC, GSK, SMTCL-NC100, SIEMENS and so on. The feed system will through servo electrical machinery to drive the ball bearing guide screw, and has higher precision.



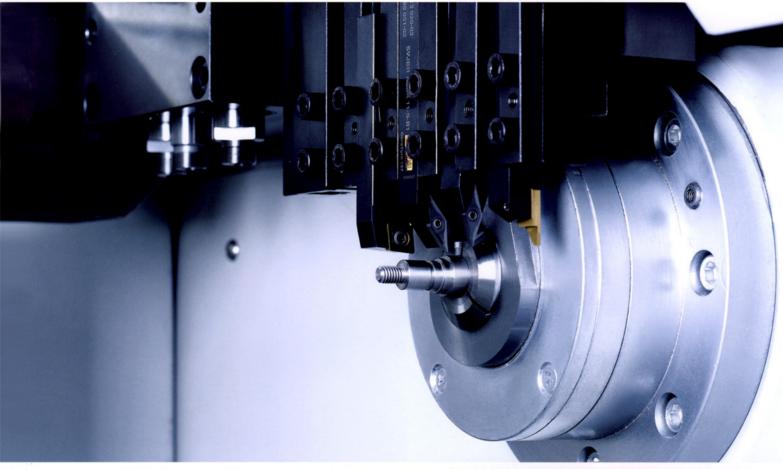




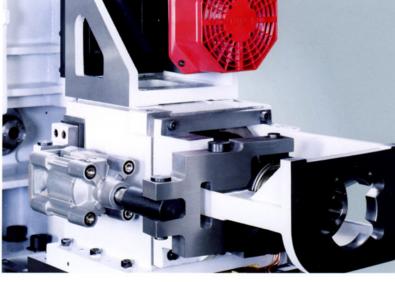
Best solution for small workpiece

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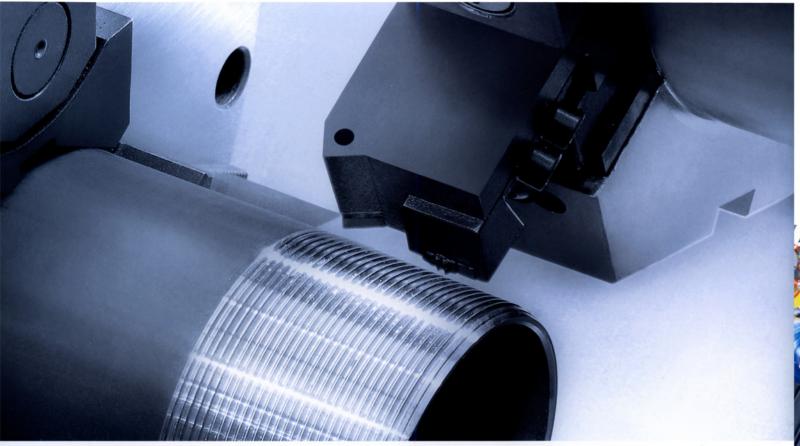


Items	Unit	SH20-5	SH20-7	
Max. swing diameter	mm	⊘20	⊘20	
Max. spindle speed	rpm	6000	6000	
Spindle bore diameter	mm	⊘21	⊘21	
Spindle motor	kW	2.2/3.7	2.2/3.7	



Value model leap infinite

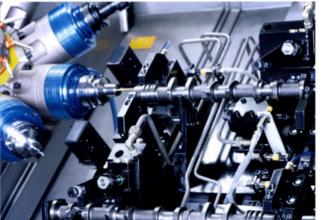
PIPE THREAD CNC LATHE



Items	Unit	STC34 series	STC22/24 series	STC1135pipe	STC1835pipe	STC3440n	STC1460n	STC1850n	SUC8150	SUC8105	SUC0203	HTC6330b	S1-245B	51-262A
Max. cutting length	mm	1000/1500/3000	1000	350	350	400	500	400	300	150	130	300	1000/1500	1000/1500/3000
Max. cutting diameter	mm	340	219(elec.)/245(hydra.)	60-114	60-180	340	140	180	533	508	340	630	60-219	114-340
Range of spindle speed	rpm	7-310	7-310/7-400	97-605(90-660)	170-660(90-610)	90-400	90-800	200-700	90-800/90-500	50-200	90-400	20-1400	8-306	5.6-254
Mala mater account	LAME	10.5	10.5	0/11/15/105	15/105	AFIFF	20	20/27	AFIFF	20/27	20/27	20/27	105	105

Apply to petroleum industry, steel tube factory industry broadly. Suitable for various pipe thread. The machine is designed that pair of chuck structure, which use fluctuating Calm traveling schedule chuck. The high-power electric motor, with high rotation rate chief axis and allocation combination cutter can carry out compound cutting.

Positioning device and Calm support tailstock overcome the gas thread cantilever cutting deficiency which is easy to produce oscillation, greatly increase the stiffness of the whole machine.











Pipe thread CNC lathe \$1-245B/1000

CA SERIES CONVENTIONAL LATHE

CA series is suitable for machining internal and external surface of cylinder, conic surface and other rotaing surface. It is capable to turning various threads such as metric and inch. With max. spindle speed of 1600r/min, and low noise less than 83 decibel.

Motor is equiped with motor starter which protect againt overcurrent and over heat.

Manual brake and foot brake are both available.

B V A



Conventional lathe CA6136/1000





CA6261B

Items	Unit	CA6136	CA6240A	CA6250B	CA6261B	CA6266C	-
Swing over bed	mm	360	400	500	610	660	ī
Swing over gap width in gap	mm	-	630×210	720×210	830×210	870×210	
Max. workpiece length	mm	1000	2000	3000	3000	3000	
Main motor power	kW	4	7.5	7.5	7.5	7.5	
Spindle speed range	r/min	Forward 37-1600(12) Reverse 102-1570(6)	Forward 11-1600(24) Reverse 14-1580(12)	10-1400(24)	10-1400(24)	14-1250(24)	

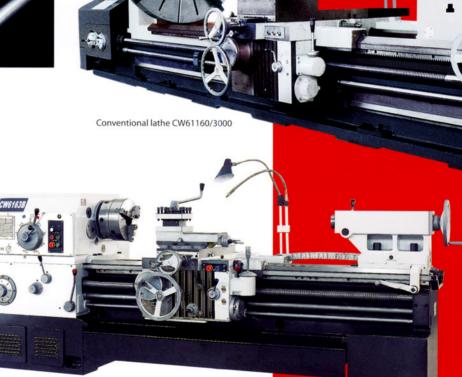
CW SERIES CONVENTIONAL LATHE

The series of lathes are favorable for processing metallic materials as cast iron, steel, and non-ferrous materials.

The series of lathes are widely used in automobile, petrochemical, military, railway, and machine manufacturing industries.

The lathes can reach working accuracy at IT6-IT7 with minor surface roughness.

The saddle bed lathe is especially applicable to flat and unusual part manufacturing.



Conventional lathe CW6163B/1500

Items	Unit	CW6163B	CW6180B	CW61100B	CW61160	CW61200
Maximum swing diameter over bed	mm	630	800	1000	1600	2000
Maximum workpiece length	mm	7000	14000	16000	16000	16000
Main motor power	kW	11	11 or 15	22	22	22
Maximum weight of workpiece	kg	2500	2500	5000	12000	12000

Technology Pioneer Omnipresent





Max. swing dia. over bed Max. cutting diameter

Max. work piece height

Range of spindle speed

Main motor power

Form of turret

mm 400

r/min 50-2500

kW 15/18.5



50-750

22/30

Horizontal, 8-station Horizontal, 8-station Horizontal, 8-station Vertical, 6-station Horizontal 8-station

800

50-800

37/45

700

45/55

5-1000/5-1800



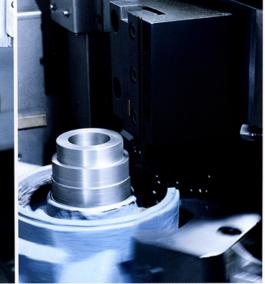
1200

800

45/55

5-175/175-400

5-145/145-300



1250

800

37/45

2-200/7-300

2-200/7-300

37/45

Spindle unit is designed in accordance with the standard of high-rigidity type spindle. Machine is equipped with high-speed spindle and NSK angular contact spindle bearings which have features of high precision and good rigidity.

This serial vertical lathe has wide range of specifications. It is highly suitable for large-quantity, high precision, strict size consistency required parts machining, especially suitable for such as the requirements of automotive components machining industry.

Z-axis is equipped with balancing cylinder, which is able to extend the service life of screw. It has features of Z-axis smooth movement, non-crawling and so on.

GTC 10080	

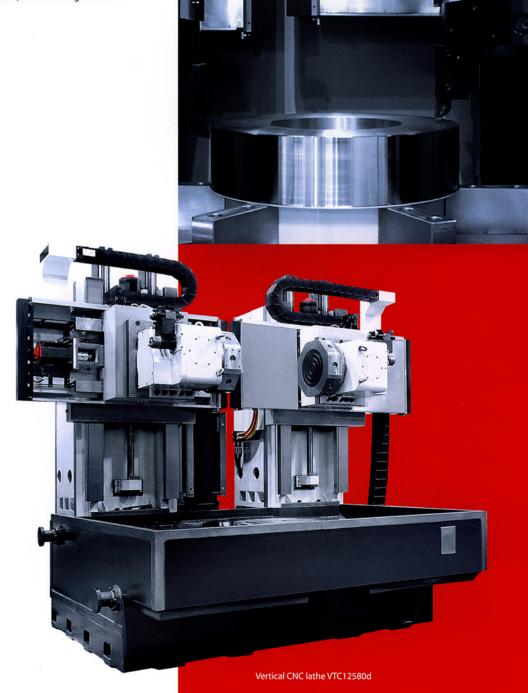
500

600

22/30

50-2000





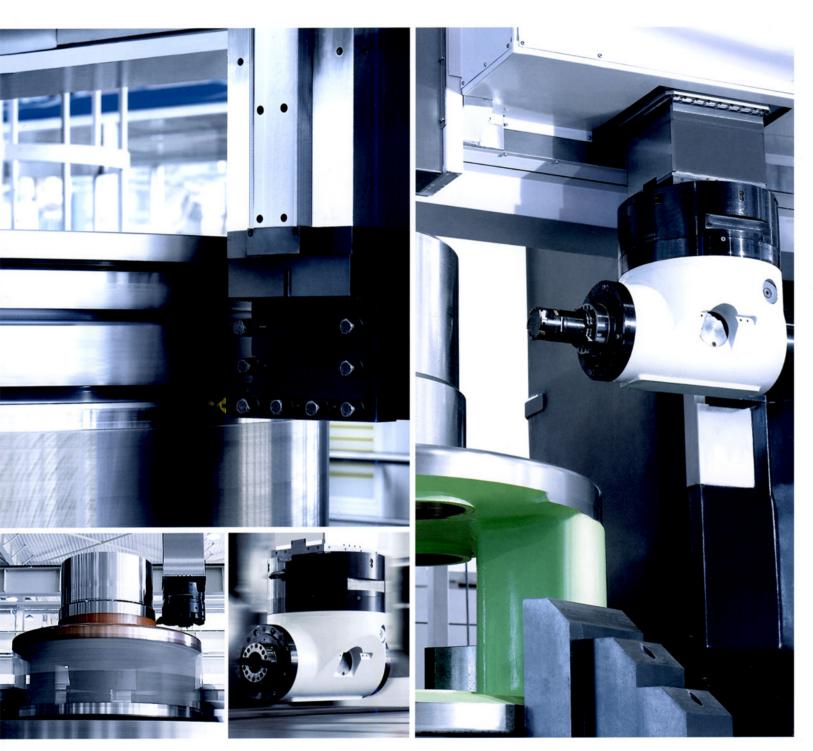
Technology Pioneer Omnipresent

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GANTRY TYPE TURNING CENTER



World-class quality made in China



Items	Unit	GTM160140/160(f)	GTM200140/160(f)	GTM250140/160(f)	GTM320140/160(f)	GTM430140/160(f)
Max. cutting diameter	mm	Ø1600	⊘2000	⊘2500	⊘3200	⊘4300
Max. processing height	mm	1600	2000	2000	2500	3000
Max. weight of work piece	tons	10	15	20	25	40
Rotary table diameter	mm	⊘1250/⊘1400	⊘1600/⊘1800	⊘2000/⊘2250	⊘2500/⊘2800	⊘3200/⊘3500
Max. boring & milling spindle speed	rpm	3150	3150	3150	3150	3150
Max. Rotating speed of table	rpm	335	265	200	180	120

Note: f means fixed gantry.

GTMSERIES

GANTRY TYPE TURNING AND MILLING CENTER

It is a double-column, portal shaped structure with synchronous movement and vertical movement of the crossbeam. It is used for five-axis processing of inside and outside spatial surfaces of parts such as large-sized

milling, are applied to the heavy cutting of hard and high density materials.

spindle motor with a more exact positioning and a higher degree of accuracy. The crossbeam's vertical movements are also driven synchronously and can be automatically locked at any position. It has a large bearing capacity with high precision accuracy due to the hydrostatic guideway system.



World-class quality

made in China











Items	Unit	VERTITURN1	VERTITURN2	VERTITURN3	VERTITURN4	VERTITURN5	VERTITURN6
Worktable dia.	mm	Ø1250	Ø1600	⊘2000	⊘2500	⊘3000	⊘3500
Max. turning dia.	mm	Ø1600	⊘2000	∅2500	∅3000	⊘3500	⊘4000
Max. turning height	mm	1200	1200	1600/2000/2500	2000/2500	2000/2500	2000/2500
Max. weight of workpiece	ton	8	12	16	20	25	30
Main motor power	kW	turning 60/milling 29	turning 60/milling 29	turning 60/milling 29	turning 60/milling 29	turning 71/milling 29	turning 71/milling 29
Max. rotary speed of worktable	rpm	437	345	225	195	150	128

VERTICAL TURNING (AND MILLING) CENTER

The feasible heavy cutting and high precision of the machine thanks for the specialized design.

feasiable anti-vibration design.

of the machine thanks for symmetric frame structure and driving unit.

rigidity of each axes.

and angular contacting ball bearing.

power, which can pre-loading of C-axis during milling status to release the clearance.

mainly machining large-size and complicated discal workpieces with high accuracy, multi-procedure in the fields of aerospace, shipping, wind power, military, bearing, valve, mine etc. Use this series machine, some technological equipment can be saved, the preparing period for production can be shortened, the quality



LASER TECHNOLOGY

SLM

New concept new experience







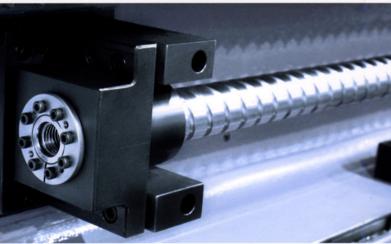
The latest SLM series with high quality parts can make the machining availability of higher precision and efficiency. Optimize machine's configuration, use imported mechanical transmission components, and adopt advanced intelligent CNC system, integrated control of the laser generator, hydraulic, electrical, all these characteristic make obvious energy savings. Product develops the management of automatic process parameters and other laser technique can improve cutting quality as well as the processing efficiency. The remote monitoring function is realized by using advanced data communication system which can improve the efficiency of the supervision and aftersales service.

The unique cantilever-type of full flying optics is used for high quality and high efficiency cutting for all kinds of plate. The cantilever made from cast aluminum, light weight and small inertia with high speed.

The integrated structure, small floor area and stable optics path guarantee the processing quality.

Efficient pneumatic system: closed loop pneumatic control structure with good performance and high accuracy.

Noble quality with advanced configuration: screws, railways and other major transmission components are imported from advanced overseas companies. Tripartite valve, proportional valve, towline, cable and other key components adopt international famous brand which own high reliability and long service life. New appearance: The top design company carefully crafted SLM series products. The original appearance shows the international trend. Advanced laser blanking, welding craft greatly improves the refined level of the manufacture.





Items	Unit	SLM	3015h	SLM	4020h
items	Unit	ANCA	Siemens 840D	ANCA	Siemens 840D
Travel X/Y/Z	mm	3000/1500/150	3000/1500/110	4000/2000/150	4000/2000/110
Max. weight of work piece	kg	750	750	1300	1300
Max. speed of positioning	m/min	140	140	110	110
Lancing width	mm	≤0.2	≤0.2	≤0.2	≤0.2
Max. acceleration	m/s ²	1.2g	1.2g	0.8g	0.8g
Lancing degree of roughness	μm	≤6.3	≤6.3	≤6.3	≤6.3

^{*}Please refer to 5mm of plating thickness for lancing width and degree of roughness



GLOBAL MARKETING & SERVICE NETWORK



- ★ SHENYANG MACHINE TOOL CO., LTD.
- Established Branch Company
- To Be Established Branch Company
- * Established Service Platform
- ▲ To Be Established Service Platform