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Dedicated service line

400-615-9999

PBC-m/PBC/ PBC-R/TK65/TH65

CNC Horizontal Milling/
Boring Machine
Horizontal Milling/
Boring Machining Center



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PBC

CNC Horizontal Milling/Boring Machine-Zhongjie Brand

Product Introduction

The machine tool features multiple machining functions such as boring, milling, drilling (drilling, expanding and reaming), tapping (rigid threading) and countersinking, and the excellent CNC system enables the machine tool to feature functions such as linear interpolation and circular interpolation.

CNC rotary workbench is able to realize multi-procedure machining of 4-plane hole group, hole series and plane after one time of fixture of workpiece.

The machine tool is of T-shape layout, single column and lateral suspension headstock structure. The workbench and slide carriage move along transverse bed guiderail (X-axis coordinate), the column is fixed on slide carriage and moves along longitudinal bed guiderail (Z-axis coordinate), headstock moves vertically along column guiderail (Y-axis coordinate), CNC workbench features 360° rotation (B-axis coordinate), and spindle (boring shaft) moves in milling shaft (W-axis coordinate).

High cost-effective
High stability



PBC-m series

With two linear guiderail and one hard guiderail, it gives consideration to both speed and rigidity.

PBC series

Three linear guiderails, double-driven workbench, high speed and high accuracy.

PBC130s

Three steel guiderails, double-driven workbench, high speed, high accuracy and high rigidity.

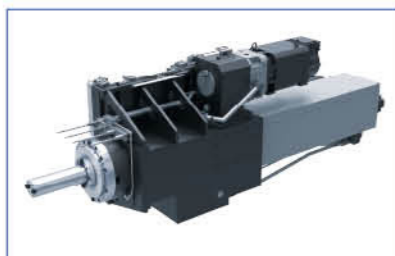
Structure Features



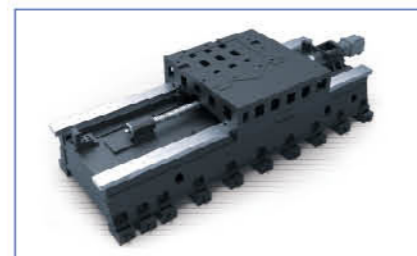
Linear guiderail for transverse and longitudinal body



Rotary workbench featuring double-motor drive



Imported dual-speed reducer for headstock



Steel guiderail for transverse and longitudinal body



Y-direction drive

Technical parameters

Items	Unit	PBC 110(f)m	PBC 130m	PBC 110(f)	PBC 130(f)	PBC 160(f)	PBC 130s	
Workbench dimension	mm	1000×1250/ 1250×1400	1600×1800	1250×1400	1600×1800/ 2000×2000	2000×2000/ 2000×2500	1600×1800/ 2000×2000	
Maximum load of workbench	T	5	10	8	15	25	15	
Spindle diameter	mm	φ110	φ130	φ110	φ130	φ160	φ130	
Facing head diameter	mm	- φ630	-	- φ630	- φ730	- φ900	-	
Spindle taper hole		ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	
Tool shank specification		JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	
Spindle speed	r/min	10-2500 10-2000(fm)	10-3000	10-3000 10-2000(f)	10-3000 10-2000(f)	10-2000 10-1500(f)	10-3500	
Facing head speed	r/min	- 10-200	-	- 10-200	- 10-125	- 10-100	-	
Power of main motor	kW	17/20.4	25/30	19.5/23.4	25/30	41/49.2	25/30	
Maximum torque of spindle	Nm	1300/1600	2100/2600	1100/1300	2100/2600 2200/2600(f)	3300/4000	2100/2600	
Transverse travel X of workbench	mm	2000	2000/3000/4000	2000/3000	2000/3000/4000	3000/4000/6000	2000/3000/4000	
Vertical travel Y of headstock	mm	1500	1600/2000	1500/2000	1600/2000/2500	2000/2500/3000	1600/2000/2500	
Longitudinal travel Z of column	mm	1200	1600/2000	1200/2000	1600/2000	2000	1600/2000	
Travel W of spindle	mm	550	800	550	800	1000	800	
Travel U of facing head slide block	mm	- 140	-	- 140	- 200	- 330	-	
Workbench rotation B	°	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360	
Distance from spindle center to workbench	mm	60-1560/30-1530	100-1700	60-1560	100-1700	100-2100	100-1700	
Distance from spindle nose to workbench center	mm	350 487(fm)	850	350 487(f)	850	1100	850	
Feeding speed	X、Y、Z	mm/min	1-6000	X/Z:1-12000, Y:1-10000	1-8000	1-8000	1-8000	1-15000
	W	mm/min	1-2000	1-3000	1-2400	1-3000	1-3000	1-10000
	U	mm/min	- 1-1000	-	- 1-2400	- 1-3000	- 1-3000	-
Rapid travel	B	r/min	0-1	0-1.5	0-1.5	0-1.5	0-1.5	0-3
	X、Y、Z	m/min	9	X/Z:12,Y:10	15	12	10	15
	W	m/min	2.4	3	2.4	3	3	10
Positioning accuracy	U	mm	- 0.032	-	- 0.032	- 0.032	- 0.032	-
	B	"	12/10(grating scale), 4×90°:6	8(grating scale), 4×90°:6	6	6	6	4
	X、Y、Z	mm	X:0.02/0.016(grating scale) YZ:0.018/0.015(grating scale)	XZ:0.015/0.01(grating scale) Y:0.01(grating scale)	XZ:0.015/0.01(grating scale) Y:0.01(magnetic scale as standard configuration)	XZ:0.015/0.01(grating scale) Y:0.01(magnetic scale as standard configuration)	XZ:0.015/0.01(grating scale) Y:0.01(magnetic scale as standard configuration)	0.01(grating scale)
Repositioning accuracy	W	mm	0.02	0.012	0.012	0.012	0.015	0.01 (magnetic scale)
	U	mm	- 0.018	-	- 0.018	- 0.018	- 0.018	-
	B	"	7	6	4	4	4	2
CNC system		SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	

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

Standard configuration

- External cooling and water tank chip remover
- Imported spindle bearing
- Steel guiderail of X-axis, Y-axis and Z-axis (PBC130s)
- Imported linear guiderail of X-axis, Y-axis and Z-axis (PBC series)
- Imported linear guiderail of XZ-axes, and steel guiderail of Y-axis (PBC-m series)

- Water-receiving pan of workbench
- Armor protection of column
- Oil cooler of headstock
- Concentrated lubrication of machine tool
- Spindle blow-out function

Optional configuration

- 24-tool chain tool magazine (110 series)
- 40/60-tool chain tool magazine
- Protection of workbench area
- Grating scale of X-axis, Y-axis and Z-axis
- Inter-cooling system of spindle
- Oil cooler of pump station
- Accessory milling head
- Water gun
- Air gun
- SIEMENS 840Dsl system
- FANUC 0i/31i system

TK65 Series CNC Horizontal Milling/Boring Machine

Product Introduction

The machine tool is of T-shape layout, single column and lateral suspension headstock structure. The workbench and slide carriage move along transverse bed guiderail (X-axis coordinate), the column is fixed on slide carriage and moves along longitudinal bed guiderail (Z-axis coordinate), headstock moves vertically along column guiderail (Y-axis coordinate); the product is of T-shape bed layout. CNC workbench features 360° rotation (B coordinate), and spindle (boring shaft) moves in milling shaft (W-axis coordinate).

X-axis, Y-axis and Z-axis adopt integral steel guiderail. The hardness after quenching and finish machining can reach HRC60±2. The guiderail and polytetrafluoroethylene sheet form guiderail pair in frontal direction, and the lateral direction is roller guide. The product features high accuracy, small friction and high accuracy maintenance. The circular guiderail of workbench rotation adopts casting iron- polytetrafluoroethylene guiderail pair. The product is installed with imported thrust bearing to release load, adopts double-worm mechanism to eliminate clearance, and features stable motion and high positioning accuracy.

High rigidity
High stability



Structural characteristics



Bed column adopts integral steel guiderail which features quenching grinding and hardness of HRC60±2.



Movable spindle φ110: travel 500; φ130: travel 800; φ160: Workbench rotation adopts gear worm drive, travel 1000.



Protection of worktable area

Technical parameters

Items	Unit	TK(H) 6511B	TK(H)P 6511B	TK(H) 6513	TK(H)P 6513	TK(H) 6516	TK(H)P 6516
Workbench dimension	mm	1000×1250/1250×1400	1000×1250/1250×1400	1400×1600/2000×2000	1400×1600/2000×2000	1600×1800/A:2000×2500/B:2500×3000	1600×1800/A:2000×2500/B:2500×3000
Maximum load of workbench	T	5	5	10	10	10/A:20/B:30	10/A:20/B:30
Spindle diameter	mm	φ110	φ110	φ130	φ130	φ160	φ160
Facing head diameter	mm	-	φ630	-	φ730	-	φ900
Spindle taper hole		ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50
Tool shank specification		JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50
Spindle speed	r/min	10-2500	10-2000	10-2000	10-2000	10-1500	10-1500
Facing head speed	r/min	-	10-200	-	10-125	-	10-100
Power of main motor	kW	19.5/23.4	19.5/23.4	25/30	25/30	41/49.2	41/49.2
Maximum torque of spindle	Nm	1300/1600	1300/1600	2500/3000	2500/3000	3300/4000	3300/4000
Transverse travel X of workbench	mm	2000/2500/3000	2000/2500/3000	2000/3000/3500/4000	2000/3000/3500/4000	3000/3500/4000	3000/3500/4000
Vertical travel Y of headstock	mm	1500/2000	1500/2000	1600/2000/2500/3000	1600/2000/2500/3000	2000/2500/3000	2000/2500/3000
Longitudinal travel Z of column	mm	1200/2000	1200/2000	1600/2000	1600/2000	2000	2000
Travel W of spindle	mm	550	550	800	800	1000	1000
Travel U of facing head slide block	mm	-	140	-	200	-	330
Distance from spindle center to workbench	mm	60-1560/30-1530	60-1560/30-1530	100-1700	100-1700	100-2100	100-2100
Distance from spindle nose to workbench center	mm	350	487	850/1050	850/1050	700/A:1050/B:1350	800/A:1100/B:1350
Workbench rotation B	°	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360
Feeding speed	X, Y, Z	mm/min	1-6000	1-6000	1-6000	1-6000	1-6000
	W	mm/min	1-2000	1-2000	1-3000	1-3000	1-3000
	U	mm/min	-	1-1000	-	1-3000	-
Rapid travel	B	r/min	0-1.5	0-1.5	0-1	0-1	0-1
	X, Y, Z	m/min	9	9	9	9	9
	W	m/min	2.4	2.4	3	3	3
Positioning accuracy	U	mm	-	0.032	-	0.032	-
	B	"	10, 4×90° :6	10, 4×90° :6	10, 4×90° :6	10, 4×90° :6	10, 4×90° :6
	X, Y, Z	mm	X:0.02/0.016 (grating scale) YZ:0.018/0.015 (grating scale)	X:0.02/0.016 (grating scale) YZ:0.018/0.015 (grating scale)	X:0.02/0.016 (grating scale) YZ:0.02/0.015 (grating scale)	X:0.02/0.016 (grating scale) YZ:0.02/0.015 (grating scale)	X:0.03/0.022 (grating scale) YZ:0.022/0.018 (grating scale)
Repositioning accuracy	W	mm	0.02	0.02	0.02	0.02	0.02
	U	mm	-	0.032	-	0.032	-
	B	"	6	6	6	6	6
CNC system		SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D

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

Standard configuration

- External cooling and water tank chip remover
- Imported spindle bearing
- Imported ball lead screw
- Water-receiving pan of workbench
- Steel draw plate protection of bed
- Armor protection of column
- Oil cooler of headstock
- Concentrated lubrication of machine tool
- Spindle blow-out function
- Circular grating scale of B-axis

Optional configuration

- 24-tool chain-type tool magazine (TK6511B series)
- 40/60-tool chain-type tool magazine
- Protection of workbench area
- Grating scale of X-axis, Y-axis and Z-axis
- Inter-cooling system of spindle
- Oil cooler of pump station
- Accessory milling head
- Water gun
- Air gun
- SIEMENS 840Dsl system
- FANUC 0i/31i system

PBC R Series

CNC Horizontal Milling/Boring Machine

High rigidity
High practicability
High stability

Product Introduction

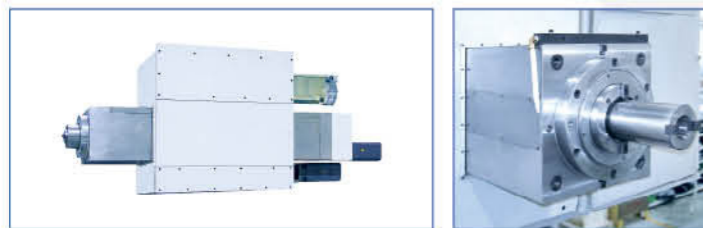
The product is a CNC machine tool developed on the basis of absorption of advanced manufacturing technology of foreign countries, and comparatively complete modularized serial products have been formed after multiple times of improvement and upgrade. The product features mature technical means and stable quality. The product features advanced technical indicators and software/hardware configuration, and is a high-end CNC product.

The machine tool features multiple machining functions such as boring, milling, drilling (drilling, expanding and reaming), tapping (rigid threading) and countersinking, the telescoping rectangle ram is especially suitable for milling, and the excellent CNC system enables the machine tool to feature functions such as linear interpolation, circular interpolation and 4-axis linkage function. CNC rotary workbench is able to realize multi-procedure machining of 4-plane hole group, hole series and plane after one time of fixture of workpiece.

Large cross section CNC rectangle ram is installed on machine tool's headstock (bearing plate), CNC boring shaft is installed in ram and is able to realize deep hole plane machining. The product utilizes hydraulic cylinder, proportioning valve and CNC system to make joint compensation of spindle, ram deflection, headstock gravity center offset and accessory head weight.



Structural characteristics



PBC-R series: ram section 480mm X 480mm, ram and spindle motion 700mm +700mm
PBC-rp series: ram section 480mm X 480mm, ram and spindle motion 1000mm +800mm
PBC-RA series: ram section 450mm X 450mm, ram and spindle motion 1000mm +900mm



CNC rotary workbench (static pressure), workbench surface 2000X2000, 2000X2500, load carrying capacity 20T
Workbench surface 2500X3000, load carrying capacity 30T



Armor protection of column

Technical parameters

Items	Unit	PBC 130R	PBC 160R	PBC 130RA	PBC 160RA	PBC 130rp	PBC 160rp
Workbench dimension	mm	10T:2000×2000; 15T:2000×2000; 20T:2000×2500; 25T:2000×2500; 30T:2500×3000					
Maximum load capacity of workbench	T	10/15/20/25/30	10/15/20/25/30	10/15/20/25/30	10/15/20/25/30	10/15/20/25/30	10/15/20/25/30
Spindle diameter	mm	φ130	φ160	φ130	φ160	φ130	φ160
Section area of ram	mm	480×480	480×480	450×450	450×450	480×480	480×480
Spindle taper hole		ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50
Tool shank specification		JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50
Spindle speed	r/min	10-1500	10-1000	10-1500	10-1000	10-1500	10-1500
Power of main motor	kW	41/49	41/49	41/49	41/49	41/49	60/69
Maximum torque of spindle	Nm	1700/2100	2900/3500	1700/2100	2900/3500	3000/3600	4400/5000
Workbench transverse travel X	mm	10T:2000/3000/3500/4000; 15T:2000/3000/4000; 20T:3500/4000; 25T:3000/4000; 30T:3500/4000					
Headstock vertical travel Y	mm	2000/2500/3000	2000/2500/3000	2500/3000	2500/3000	2500/3000	2500/3000
Column longitudinal travel Z	mm	1600/2000	1600/2000	2000/2500	2000/2500	2000/2500	2000/2500
Ram travel V	mm	700	700	1000	1000	1000	1000
Spindle travel W	mm	700	700	900	900	800	800
Workbench rotation B	°	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360	0.001×360
Feeding speed	X, Y, Z	mm/min	1-6000	1-6000	1-6000	1-6000	1-6000
	V, W	mm/min	1-3000	1-3000	1-3000	1-3000	1-3000
	B	r/min	0-1	0-1	0-1	0-1	0-1
Rapid travel	X, Y, Z	m/min	6	6	6	6	6
	V, W	m/min	3	3	3	3	3
	B	r/min	1	1	1	1	1
Positioning accuracy	X, Y, Z	mm	0.02/1000, 0.012/1000 (grating scale)	0.02/1000, 0.012/1000 (grating scale)	0.02/1000, 0.012/1000 (grating scale)	0.02/1000, 0.012/1000 (grating scale)	0.02/1000, 0.012/1000 (grating scale)
	V	mm	0.025/0.015 (grating scale)	0.025/0.015 (grating scale)	0.025/0.015 (grating scale)	0.025/0.015 (grating scale)	0.025/0.015 (grating scale)
	W	mm	0.025	0.025	0.025/0.012 (magnetic scale)	0.025/0.012 (magnetic scale)	0.025
	B	"	10/4×90°: 6	10/4×90°: 6	10/4×90°: 6	10/4×90°: 6	10/4×90°: 6
Repositioning accuracy	X, Y, Z	mm	0.012	0.012	0.012	0.012	0.012
	V	mm	0.012	0.012	0.012	0.012	0.012
	W	mm	0.015	0.015	0.012	0.012	0.015
	B	"	6	6	6	6	6
CNC system		SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D

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

Standard configuration

- External cooling and water tank chip remover
- Imported spindle bearing
- Imported ball lead screw
- Water-receiving pan of workbench
- Steel draw plate protection of bed
- Pipe organ type protection of column

- Concentrated lubrication of machine tool
- Spindle blow-out function
- Circular grating scale of B-axis

Optional configuration

- 40/60-tool chain-type tool magazine
- Protection of workbench area
- Grating scale of X-axis, Y-axis and Z-axis
- Magnetic scale of W-axis (RA series)
- Inter-cooling system of spindle
- Armor protection of column
- Removable facing head
- Accessory milling head
- Water gun
- Air gun
- SIEMENS 840Dsl system
- FANUC 0i/31i system

TH65 Series

Horizontal Milling/Boring Machining Center

High accuracy
High stability

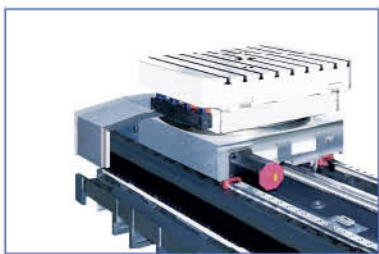
Product Introduction

The machine tool is of T-shape layout, and is of frame-type single column and frontal suspension headstock structure. The workbench and slide carriage move along transverse bed (X-axis coordinate), headstock moves vertically along column guiderail (Y-axis coordinate), and the column is fixed on slide carriage and moves along longitudinal bed guiderail (Z-axis coordinate). CNC workbench features 360 ° rotation (B coordinate), and spindle (boring shaft) moves in milling shaft (W-axis coordinate).

The machine tool features multiple machining functions such as boring, milling, drilling (drilling, expanding and reaming), tapping (rigid threading) and countersinking, and the excellent CNC system enables the machine tool to feature functions such as linear interpolation, circular interpolation and 4-axis linkage function. CNC rotary workbench is able to realize multi-procedure machining of 4-plane hole group, hole series and plane after one time of fixture of workpiece. ATC manipulator tool magazine enables the machine tool to become efficient automated equipment. The double-exchange workbench fuses non-cutting time for workpiece installation/uninstallation into machining time, so as to further enhance the production machining efficiency. Regarding the special machining demand of workpiece, the machine tool features other functions such as selection of cutter center cooling (inter-cooling), etc.



Structural characteristics



Double-exchange (single) workbench: 1000X1000, 1000X1250, 1250X1250, 1250X1400



Heavy-duty linear guiderail of bed



Headstock:
Spindle telescoping: 500mm
Optional high speed of spindle
(fixed spindle n=4200r/min)



Frame-type column, integral steel guiderail, even force bearing and good rigidity.



Technical parameters

Items	Unit	TH 65100X100B	TH 65100X100B/D	TH 65100X100B-3	TH 65100X100B-3D	
Workbench dimension	mm	1000×1000/1000×1250/ 1250×1250/1250×1400	1000×1000/1000×1250/ 1250×1250/1250×1400	1000×1000/1000×1250/ 1250×1250/1250×1400	1000×1000/1000×1250/ 1250×1250/1250×1400	
Number of workbenches	Piece	2	1	2	1	
Maximum load capacity of workbench	kg	4000	5000	4000	5000	
Spindle diameter	mm	φ125	φ125	φ125	φ125	
Spindle taper hole		ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	
Tool shank specification		JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50	
Spindle speed	r/min	10-4200	10-4200	12-3000	12-3000	
Power of main motor	kW	19.5/23.4	19.5/23.4	19.5/23.4	19.5/23.4	
Maximum torque of spindle	Nm	1070/1280	1070/1280	1070/1280	1070/1280	
Workbench transverse travel X	mm	2000	2000	2000	2000	
Headstock vertical travel Y	mm	1200/1600	1200/1600	1200/1600	1200/1600	
Column longitudinal travel Z	mm	1600	1600	1600	1600	
Spindle travel W	mm	-	-	500	500	
Workbench rotation B	°	0.001×360	0.001×360	0.001×360	0.001×360	
Feeding speed	X, Y, Z	mm/min	1-6000	1-6000	1-6000	1-6000
	W	mm/min	-	-	1-5000	1-5000
	B	r/min	0-1.5	0-1.5	0-1.5	0-1.5
Rapid travel	X, Y, Z	m/min	XZ: 15/Y:10	XZ: 15/Y:10	XZ: 15/Y:10	XZ: 15/Y:10
	W	m/min	-	-	5	5
	B	r/min	2.5	2.5	2.5	2.5
Positioning accuracy	X, Y, Z	mm	X:0.02/0.016(grating scale), YZ:0.018/0.015(grating scale)	X:0.02/0.016(grating scale), YZ:0.018/0.015(grating scale)	X:0.02/0.016(grating scale), YZ:0.018/0.015(grating scale)	X:0.02/0.016(grating scale), YZ:0.018/0.015(grating scale)
	W	mm	-	-	0.02	0.02
	B	"	10/4×90°: 6	10/4×90°: 6	10/4×90°: 6	10/4×90°: 6
Repositioning accuracy	X, Y, Z	mm	X:0.009/YZ:0.008	X:0.009/YZ:0.008	X:0.009/YZ:0.008	X:0.009/YZ:0.008
	W	mm	-	-	0.016	0.016
	B	"	6	6	6	6
CNC system		SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	SIEMENS 828D	

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

Standard configuration

- External cooling and water tank
- Chip remover
- Imported spindle bearing
- Imported linear guiderail
- Fully-enclosed protection chamber
- 60-tool chain tool magazine

- Concentrated lubrication of machine tool
- Spindle blow-out function

Optional configuration

- 40/90-tool chain tool magazine
- Grating scale of X-axis, Y-axis and Z-axis
- Inter-cooling system of spindle
- Air gun
- Water gun
- SIEMENS 840Dsl system
- FANUC 0i/31i system

2-Side CNC Horizontal Milling/Boring Machine Series

Product Introduction

The product is a high-end CNC product which is developed for high requirements on axially of abnormal wall hole on certain large/medium size workpieces, especially applies to machining of workpieces such as movable arm, bucket boom and gib arm in engineering machinery, and extremely enhances machining efficiency.

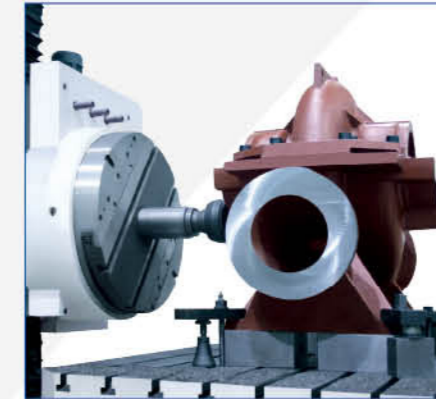
The product adopts side-to-side arrangement of two units of CNC horizontal milling/boring machine and workbench in middle. The workbench moves on transverse bed (X-axis coordinate), lateral suspension headstock moves vertically along column guiderail (Y- axis coordinate), two columns move on respective bed guiderail (Z-axis coordinate), and spindle (boring shaft) moves in milling shaft (W-axis coordinate).



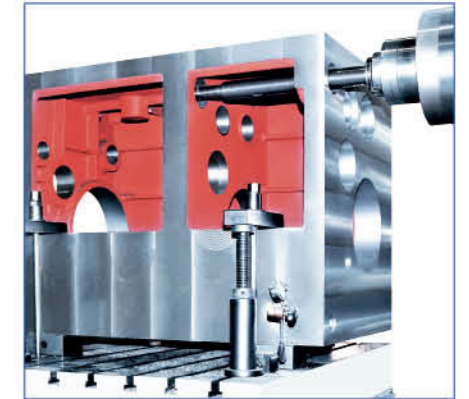
Special machine
High efficiency
High rigidity



Civil aviation



Pump valve



Metallurgy

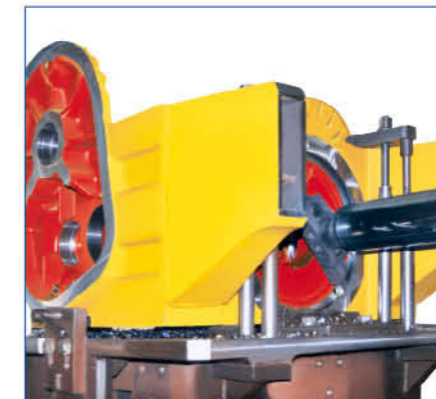
Technical parameters

Items	Unit	TK 6511Bx2	TK 6513x2	PBC 130Rx2	PBC 160Rx2
Workbench dimension	mm	1000×6000	1200×6000	1400×10000	2500×11000
Maximum load capacity of workbench	T	10	15	10	20
Spindle diameter	mm	φ110	φ130	φ130	φ160
Spindle taper hole		ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50	ISO 7:24 NO.50
Tool shank specification		JT50/BT50	JT50/BT50	JT50/BT50	JT50/BT50
Spindle speed	r/min	10-2500	10-2000	10-1500	10-1000
Power of main motor	kW	19.5/23.4	25/30	41/49	41/49
Maximum torque of spindle	Nm	1300/1600	2500/3000	1700/2100	2900/3500
Workbench travel X	mm	6000	6000	10000	11000
Headstock vertical travel Y	mm	1500/2000	1600/2000/2500	1600/2000/2500/3000	1600/2000/2500/3000
Column travel Z	mm	1200/2000	800/1600/2000	600/800/1000	600/800/1000
Ram travel V	mm	-	-	700	700
Spindle travel W	mm	550	800	700	700
Distance between noses of two spindles	mm	1200	1300	1600	2800
Feeding speed	X	mm/min	1-6000	1-6000	1-6000
	Y	mm/min	1-6000	1-6000	1-6000
	Z	mm/min	1-6000	1-6000	1-6000
Rapid travel	V/W	mm/min	W:1-2000	W:1-3000	V/W:1-3000
	X	m/min	9	6	6
	Y	m/min	9	6	6
Positioning accuracy	Z	m/min	9	6	6
	V/W	m/min	W:2.4	W:3	V/W:3
	X	mm	0.02/1000 (grating scale as standard configuration)	0.02/1000 (grating scale as standard configuration)	0.02/1000 (grating scale as standard configuration)
Repositioning accuracy	Y	mm	0.018/0.015 (grating scale)	0.02/0.015 (grating scale)	0.02/0.015 (grating scale)
	Z	mm	0.018/0.015 (grating scale)	0.02/0.015 (grating scale)	0.02/0.015 (grating scale)
	V/W	mm	W:0.02	W:0.02	V:0.025/0.015 (grating scale) W: 0.025
CNC system	X	mm	0.02	0.02	0.02
	Y	mm	0.01	0.013	0.013
	Z	mm	0.01	0.013	0.013
	V/W	mm	W:0.016	W:0.018	V:0.012 W:0.015
			SIEMENS 840DSL	SIEMENS 840DSL	SIEMENS 840DSL

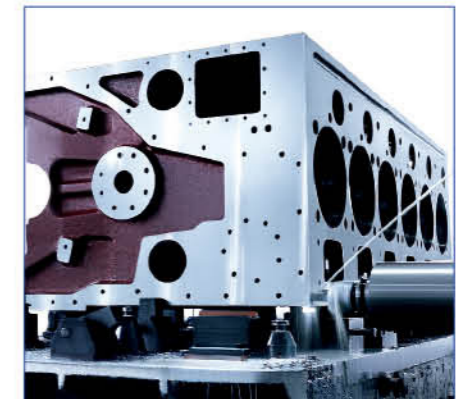
Remarks: the parameters provided in the table are only for reference, and please refer to the actual product in case of change.



Wind power



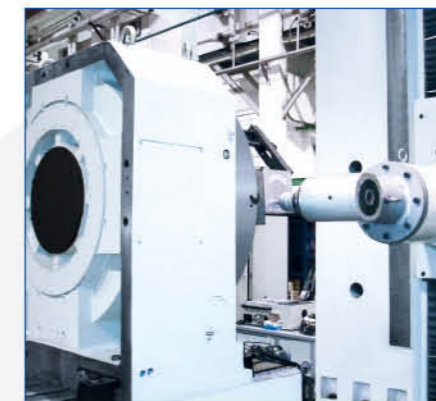
Engineering machinery



Energy



Machining by using bent plate



Machining by using vertical turntable



Machining by using facing head