NEWAY CNC EQUIPMENT(SUZHOU) CO.,LTD
No 69 Xunyangjiang Road, Suzhou New District, P.R.China
Tel: 86-512-6239 2186
Fax: 86-512-6607 1116
E-mail: cncsale@neway.com.cn
www.newaycnc.com

NEWAY CNC (USA),INC.
9757 Stafford Centre Drive Strafford,Texas 77477 USA
Tel: +1 281-969-5800
Fax: +1 281-969-5903
www.newaycnc.us

www.newaycnc.com

YouTube Facebook Linkedin

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CNC Boring and Milling Machine HB/PB/FB Series

Cat.NO.: E-HB/PB/FB-2025-01

Neway CNC Boring and Milling Machine

Neway' s diverse milling and boring machines are designed to meet the high class machining needs of the unique and different industries. The high quality and high precision guaranteed by our zero-defect manufacturing processes have won the trust and praise from many customers in the world.

HB cross type, PB planer type, and FB floor type CNC milling and boring machine can easily complete a variety of processing such as boring, milling, drilling, tapping, especially suitable for deep hole boring on complex and precision box parts. They are widely used in various industries, such as aerospace, shipbuilding, railways, mining and metallurgy, engineering machinery, valves, and new energy.

- Key components R&D finished by Neway independently. For example the independent designed head stock and automatic shifting system to realize high-speed high precision machining and low-speed high-torque machining; the independent designed high precision rotary table to achieve 0.001 degree high precision indexing and improve rotation accuracy by more than 30%.

- Excellent rigidity and precision. Large-span bed, double-walled structure column, greatly improved rigidity; using rolling and sliding composite guide way structure and top brand components to greatly improve the bearing capacity of the machine tool. The slewing mechanism with double gears to eliminate backlash, ensure accurate transmission； the slewing shaft is equipped with optical scale, effectively guarantee the accuracy of the machine.

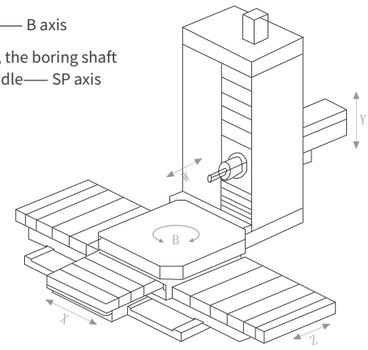
- Various options configurations. Neway milling and boring machine can be easily configured with various optional accessories and functions, such as tool magazine, cooling through spindle, heavy loading precision rotary table, right-angle milling head, universal milling head, spindle support sleeve, CNC rotary table, etc.

CONTENTS

HB Series-
CNC Cross Type Boring and Milling Machine

- This series of models adopt a typical cross table layout, with fixed columns and side-mounted headstock. The worktable move and rotate on the cross slide and the boring shaft can be extended.
- Equipped with precise gear shifting high-end gear box, which can be used for both high-speed light cutting and low-speed heavy cutting. One machine is multi-purpose.
- Complete a variety of processes in one clamping, suitable for large parts' milling, boring, drilling, reaming, tapping, turning, etc.
- It is widely used in aerospace, shipbuilding, railway, mining and metallurgy, engineering machinery, valves, new energy and other industries. It is the preferred processing equipment for various parts, such as boxes, housings, and bases.

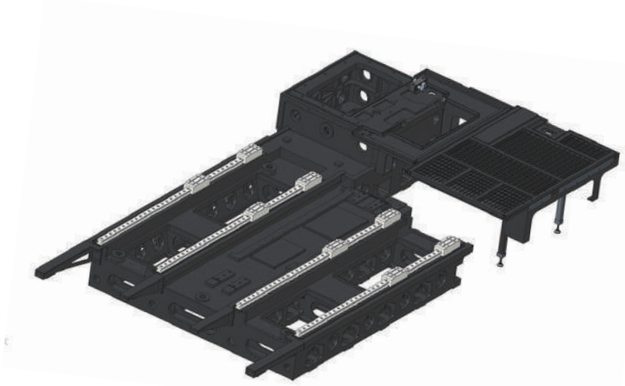
- Horizontal movement of workt able —— X axis
- He adstock moves up and down —— Y axis
- Longitudinal movement of workt able —— Z axis
- Axial movement of boring shaft —— W axis
- Rotary motion of worktable —— B axis
- Two-layer spindle structure, the boring shaft rotates with the milling spindle—— SP axis

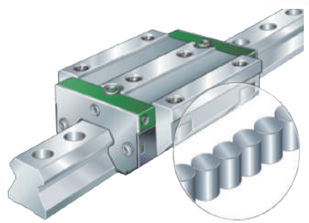


HB110S

Heavy Duty Roller Linear Guideway

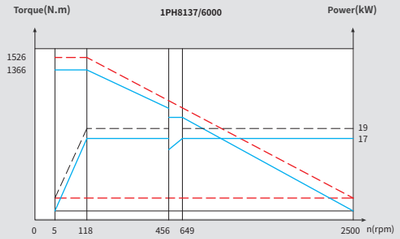
- The linear axis adopts precision imported heavy-duty roller linear guide way, greatly improve the feed speed and acceleration, with better dynamic performance, higher cutting efficiency, higher load-bearing capacity and higher positioning accuracy.





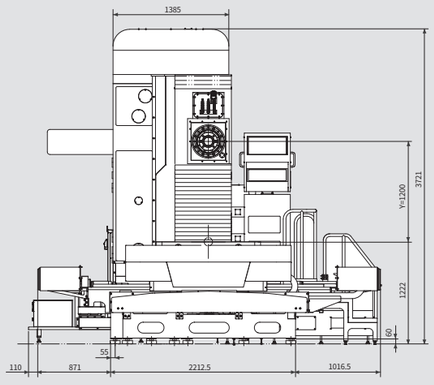
Spindle Power Torque Diagram

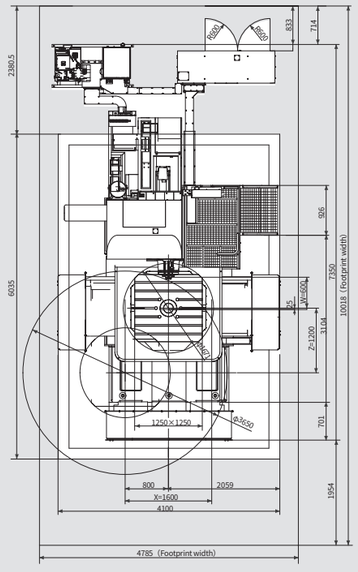
HB110S



External Dimensions

HB110S





Note for CNC Boring and Milling Machine

HB - Cross Type **FB** - Floor Type **H** - Box Guideway **R** - Ram Spindle
PB - Planer Type **S** - Linear Guideway **U** - Facing Head

Item		Unit	HB110S
Worktable	Worktable size	mm	1250×1250
	Max. worktable loading	kg	5000
	T slot width	mm	28
	Min. table indexing	°	0.001
	Max. worktable rotary speed B	rpm	3
Woking Capacity	Worktable horizontal travel X	mm	1600
	Spindle box vertical travel Y	mm	1200
	Worktable longitudinal travel Z	mm	1200
	Boring shaft axial travel W	mm	600
	Workable rotary travel B	°	360
	Spindle center line to woktable	mm	0～1200
	Spindle terminal to center line of worktable	mm	-25～1775
Speed	Rapid traverse X/Y/Z/W/U	m/min	9/9/9/8
	Max. cutting feed speed X/Y/Z/W/U	m/min	8/8/8/6
Spindle	Boring shaft dia.	mm	Φ110
	Milling shaft end dia.	mm	Φ221.44
	Spindle taper	-	BT50
	Pull stud	-	MAS403 P50T-1
	Motor power	kW	15/18.5
	Spindle speed	rpm	10～2500
	Max. milling spindle torque	N.m	1214/1497
	Max. boring shaft axial resistance	N	15000
Tool Magazine	ATC (option)	-	[40(chain type)]
	Tool shank	-	MAS403 BT50
	Max. tool dia/length/weight	mm/mm/kg	Φ125/400/25
	Max. tool diameter (empty neighbor)	mm	Φ250
Machine accuracy	Min. setting unit	mm	0.001
	Positioning accuracy X/Y/Z/W	mm	0.015/0.015/0.015/0.02
	Repeatability accuracy X/Y/Z/W	mm	0.01/0.01/0.01/0.015
	Positioning accuracy B	"	8
	Repeatability accuracy B	"	5
Other	CNC controller	-	NEWAY FANUC [SIEMENS]
	CNC coordinate axis number	-	Total 5 axis, 4 axis interpolation
	Auto chip conveyor (option)	-	[chain type chip conveyor*2 + external coolant tank]
	Machine power capacity	kVA	55
	Machine weight	kg	18000

Standard configuration:
B-axis circular optical scale, operator room, water tray, full protective cover for bed, full protective cover for column

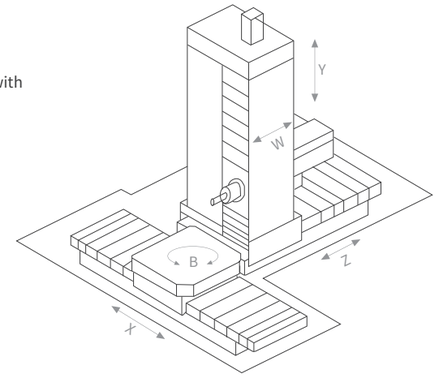
Optional configuration:
Tool magazine, chip conveyor, tool external cooling (large water tank), tool internal cooling (CTS), X/Y/Z/W axis linear scale, worktable protection room, complete complete machine protection, tool detection, etc.
HB110H: Boring shaft support sleeve, right-angle milling head, extension milling head, universal milling head, facing head, etc.

PB Series-

CNC Planer Type Boring and Milling Machine

- Typical horizontal layout of a planing table, with the spindle box hanging on the side, the boring spindle embedded in the bore of the baht, the table placed on top of the slide and rotatable, and the column moving longitudinally.
- It is suitable for milling, boring, drilling, reaming, tapping, turning, face turning, hole turning, etc. of large parts.
- Applied to aerospace, ships, railroads, mining and metallurgy, engineering machinery, valves, new energy and other industries, it is the first choice of equipment for the processing of box, shell, seat and other parts.

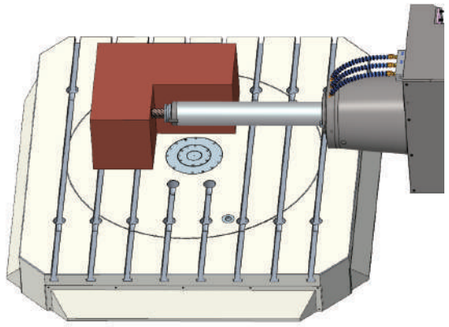
- Table transverse movement - X axis
- Spindle box up and down movement - Y axis
- Column longitudinal movement - Z axis
- Boring axial movement - W axis
- Table rotary movement - B axis
- Two-layer spindle structure, boring axis with the milling axis rotation - SP axis



PB130HA PB160HA

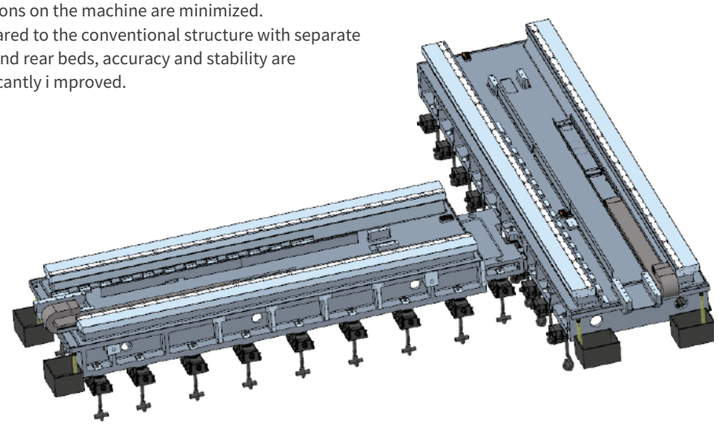
Spindle over rotary table center

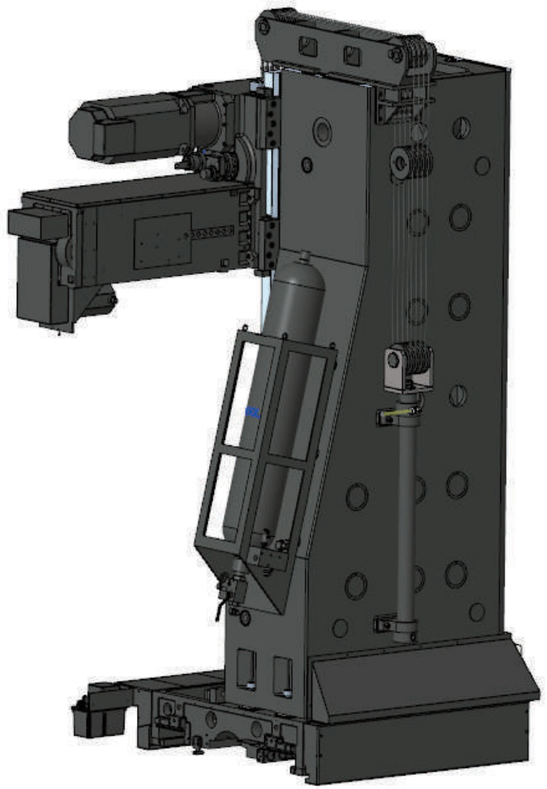
The spindle is centered over the rotary table, which significantly improves accessibility to the workpiece,especially for deep cavities and deep holes in large workpieces.



Rigidly attached bed

The front and rear beds are rigidly connected so that the X-axis and Z-axis become a single unit.
The effects of foundation changes and external vibrations on the machine are minimized.
Compared to the conventional structure with separate front and rear beds, accuracy and stability are significantly i mproved.



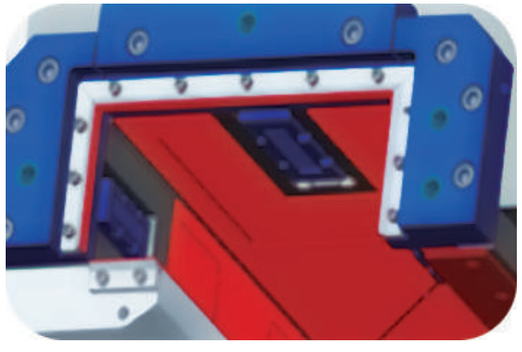


Hydraulic balancing system

Fast response reduces the load on the screw and bearing, reduces the load on the motor, improves the machining quality of the parts, maintains theaccuracy of the screw and extends the life of the screw bearing.

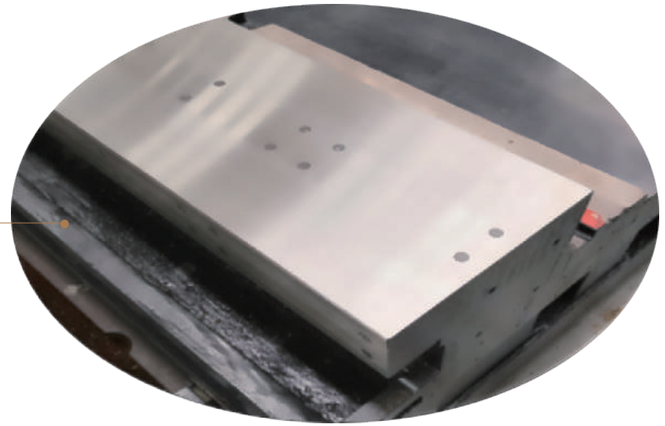
Roller-slip composite guideway

- Three high: high hardness, high precision, high bearing capacity five good: good vibration absorption, good cutting performance, good machining accuracy, good stability, good service life.

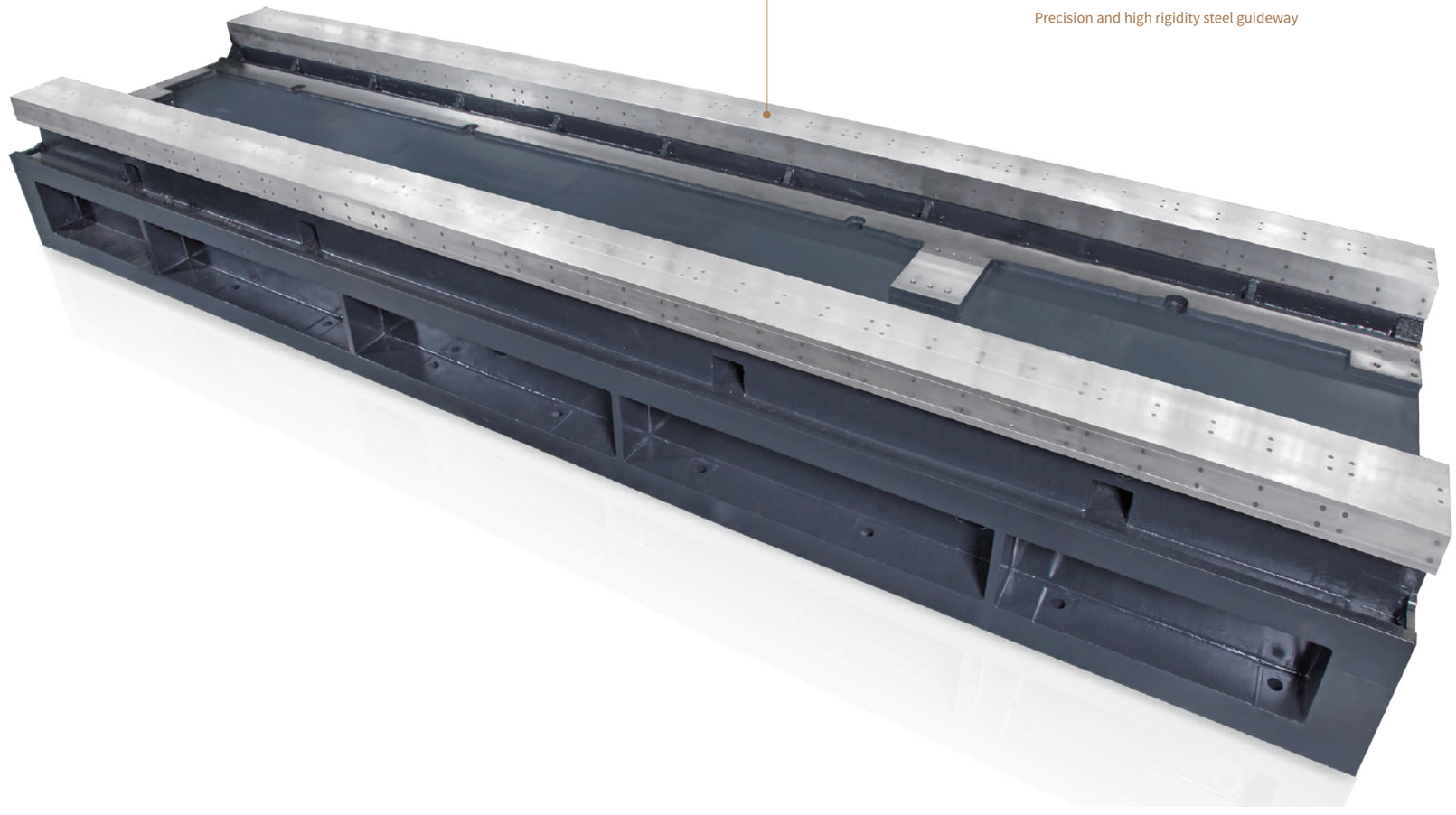


Large span beds

PB series models are designed with high rigidity integral heightened bed, lightweight saddle structure,ensuring low-speed heavy cutting and high-speed light cutting, high efficiency, high precision and high reliability.The bed adopts multi-point support, humanized structural design, pleasant height,Torque Curve easy and quick assembly, maintenance and repair.

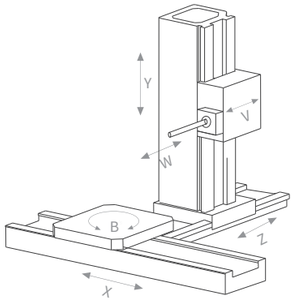


Precision and high rigidity steel guideway



PB130R PB160R

- This series is a new generation of square ram type CNC planer table boring and milling machine, with planer table layout and side-attached spindle box structure. The machine is with six-axis, any four-axis interpolation, with the ability of rough and fine machining.
- Complete various processes by one clamping, suitable for big parts' milling, boring, drilling, reaming, tapping, turning, high precision both-head boring, etc.
- With excellent processing performance, this machine is the preferred processing equipment for the energy, marine, civil aviation, engineering machinery, mining equipment and other industries.

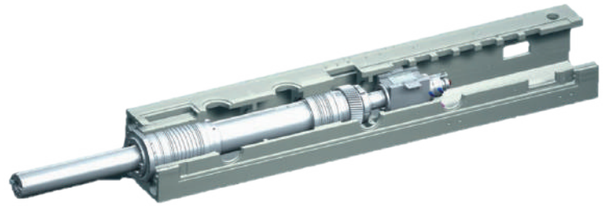


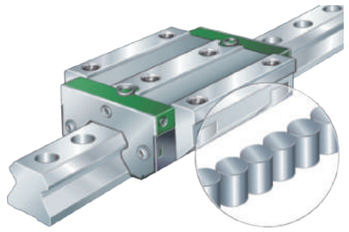
- Horizontal movement of worktable —— X axis
- Up & down movement of headstock —— Y axis
- Longitudinal movement of column —— Z axis
- Axial movement of ram - V axis
- Axial movement of boring shaft—— W axis
- Rotary motion of worktable —— B axis
- Two-layer spindle structure, the boring shaft rotates with the milling spindle —— SP axis

PB series double faces
CNC boring and milling machine

High Precision Boring & Milling Shaft System

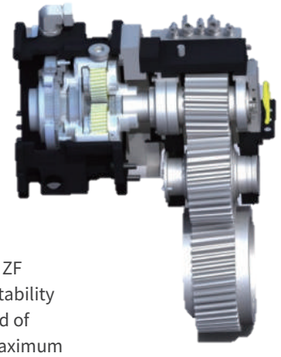
- Ram is made from QT600-3 high quality nodular cast iron.
- High precision boring and milling shaft system, milling shaft supporting size is 2 times of boring shaft travel span to ensure and maintain excellent cutting rigidity when the boring shaft extend outside completely.
- Advanced ram compensation technology.
- Spindle air curtain seal protection.





Heavy Duty Roller Linear Guideway

Linear axis adopts imported heavy loading roller linear guide way, greatly improved all axis travel speed and acceleration speed, realize excellent dynamic performance and higher cutting efficiency.

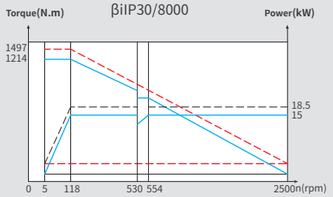


Main Drive System

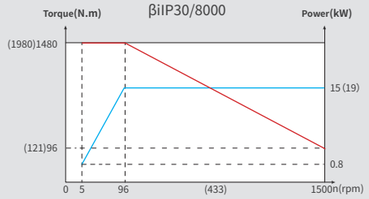
The main drive system adopts ZF two-stage gearbox with high stability and low noise. Maximum speed of PB130R spindle is 3000rpm; Maximum speed of PB160R spindle is 2500rpm.

Spindle Power Torque Diagram

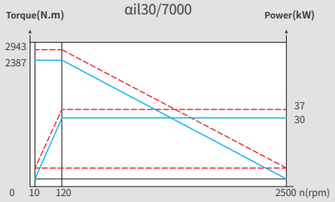
PB110S



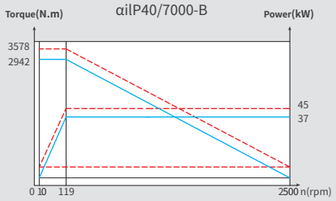
PB110U



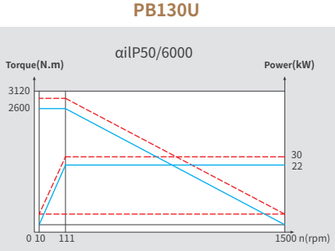
PB130S



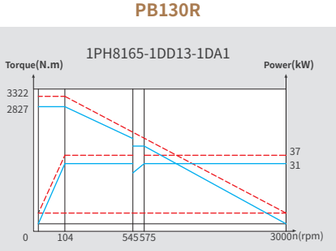
PB130HA



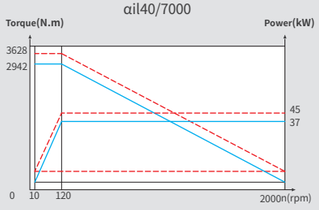
PB130U



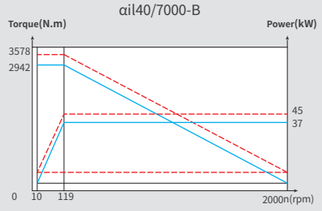
PB130R



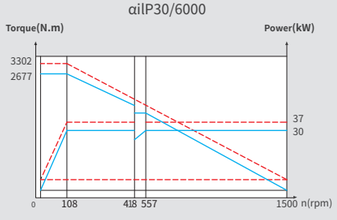
PB160S



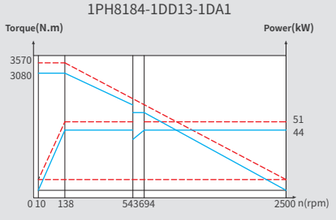
PB160HA



PB160U

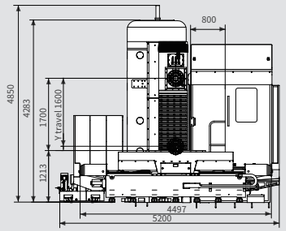


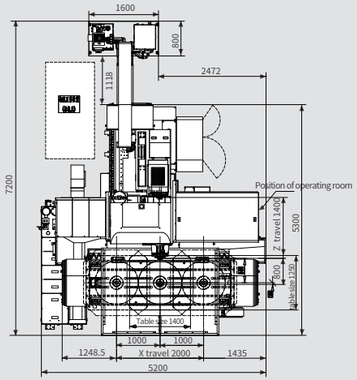
PB160R



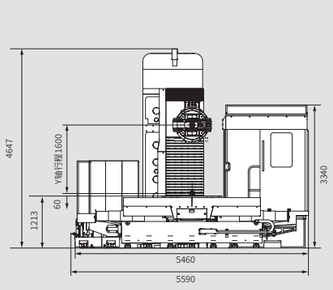
External Dimensions

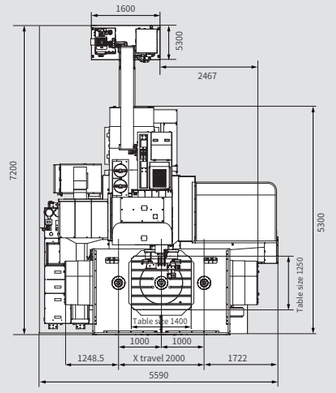
PB110S



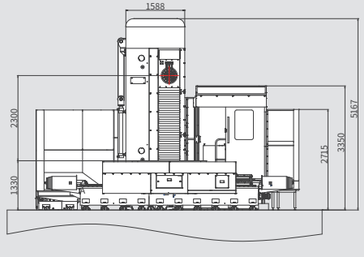


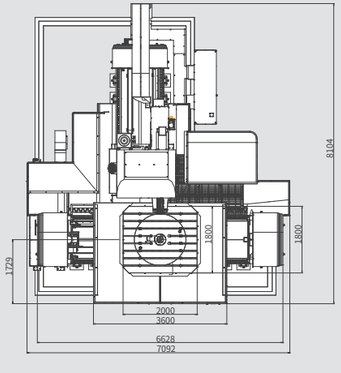
PB110U





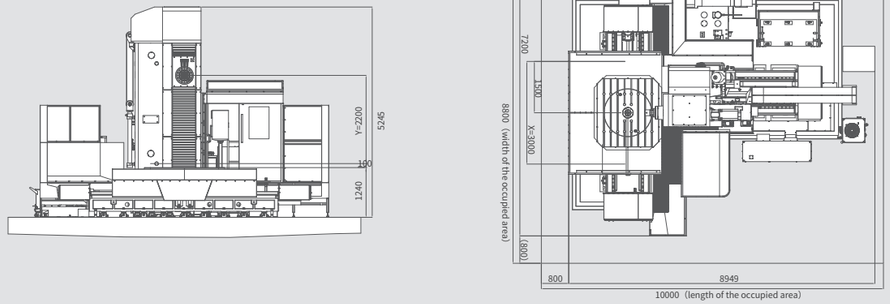
PB130S / PB160S



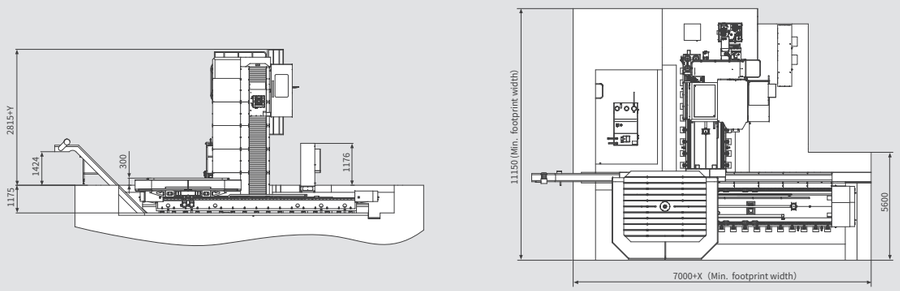


External Dimensions

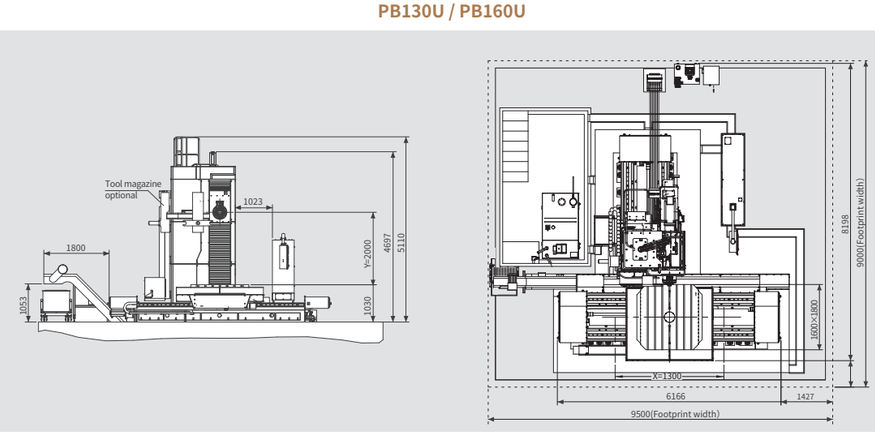
PB130H / PB160H



PB130R / PB160R



PB130U / PB160U



Note for CNC Boring and Milling Machine

HB - Cross Type **FB** - Floor Type **H** - Box Guideway **R** - Ram Spindle
PB - Planer Type **S** - Linear Guideway **U** - Facing Head

	Item	Unit	PB110S	PB110U
Worktable	Worktable size	mm	1250x1400 [1400x1600]	1250x1400
	Max. worktable loading	kg	5000[8000]	5000
	T slot width	mm	28	28
	Min. worktable indexing	-	0.001°	0.001°
	Max. worktable rotation speed	r/min	2	2
Woking Capacity	Worktable horizontal travel X	mm	2000[2500]	2000
	Spindle box vertical travel Y	mm	1600	1600
	Column longitudinal travel Z	mm	1400	1400
	Ram axial travel V	mm		
	Boring shaft axial travel W	mm	600	600
	Facing head slide block radial travel U		——	200（±100）
	Workable rotary travel B	°	360	360
	Spindle center line to woktable	mm	100-1700	60-1660
	Spindle terminal to center line of worktable	mm	-40～1960	-125～1875
Speed	Rapid traverse X/Y/Z/V/W/U	m/min	9/9/9/6	9/6/9/6/2
	Max. cutting feed speed X/Y/Z//V/W/U	m/min	6/6/6/6	6/6/6/6/1
Spindle	Boring shaft dia.	mm	Φ110	Φ110
	Milling spindle end dia.	mm	Φ221.44	——
	Ram section	mm	——	——
	Spindle taper	-	BT50	BT50
	Pull stud	-	MAS403 P50T-I	MAS403 P50T-I
	Spindle motor power	kW	15/18.5	15/18.5
	Spindle speed	rpm	10～2500	5～1500
	Max. milling spindle torque	N.m	1205/1487	1480/1826
	Max. boring shaft axial resistance	N	15000	15000
Facing Head	Facing head dia.	mm	——	ф670
	Facing head rotation speed	rpm	——	7-165
	Max. Facing head torque	N.m	——	2227
Machine Accuracy	Min. setting unit	mm	0.001	0.001
	Positioning accuracy X/Y/Z/V/W/U	mm	0.02/0.02/0.02/0.02	0.02/0.02/0.02/0.02/0.025
	Repeatability accuracy X/Y/Z/V/W/U	mm	0.01/0.01/0.01/0.015	0.01/0.01/0.01/0.015/0.018
	Positioning accuracy B	-	8"	8"
	Repeatability accuracy B	-	5"	5"
Other	CNC controller	-	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]
	CNC coordinate axis number	-	Total 5 axis, 4 axis interpolation	Total 6 axis, 4 axis interpolation
	Auto chip conveyor	-	spiral type + chain type chip conveyor	spiral type + chain type chip conveyor
	ATC (option)	-	[40(chain type)/60(chain type)]	[40(chain type)/60(chain type)]
	Machine power capacity	kVA	45	45
	Machine weight	kg	20000	20500

Standard configuration: X/Y/Z axis linear scales, B-axis circular grating, spindle oil cooling, external cooling device, accessory trolley, water tray, operation platform.

Optional configuration: Tool magazine, tool internal cooling device (ie, cooling though spindle), boring shaft support sleeve, right-angle milling head, universal milling head, facing head, tool measurement, etc.

Note for CNC Boring and Milling Machine

HB - Cross Type **FB** - Floor Type **H** - Box Guideway **R** - Ram Spindle
PB - Planer Type **S** - Linear Guideway **U** - Facing Head

Note for CNC Boring and Milling Machine

HB - Cross Type **FB** - Floor Type **H** - Box Guideway **R** - Ram Spindle
PB - Planer Type **S** - Linear Guideway **U** - Facing Head

	Item	Unit	PB130S	PB130HA	PB130U	PB130R	PB160S	PB160HA	PB160U	PB160R
Worktable	Worktable size	mm	1800x2000[2000x2500]	"1800x2000 [2000x2500]"	1600×1800 [2000×2000][2000×2500]	2000x2500 [2500×3000]	2000x2500	2000x2000 [2000x2500]	2000x2000 [2000x2500]	2500x3000 [3000×3000] [3000×4000]
	Max. worktable loading	kg	20000[25000]	20000[25000]	15000 [25000]	25000[40000]	25000	25000	25000	40000[60000]
	T slot width	mm	28				28			
	Min. worktable indexing	-	0.001°				0.001°			
	Max. worktable rotation speed	r/min	1.5	2	2	1.5	1.5	2	2	1.25
Woking Capacity	Worktable horizontal travel X	mm	3000[4000]				3000[4000]	3000[4000]	3000[4000]	4000[5000][6000]
	Spindle box vertical travel Y	mm	2200[3000]	2200[3000]	2000[2500]	2000[3000][4000]	2200[3000]	2200[3000]	2000[2500][3000]	3000[4000]
	Column longitudinal travel Z	mm	2000	2000	1600	2000	2000	2000	1600	2000
	Ram axial travel V	mm	——	——	——	1000	——	——	——	1000
	Boring shaft axial travel W	mm	800				900	900	900	800
	Facing head slide block radial travel U		——	——	300（±150）	——	——	——	300（±150）	——
	Workable rotary travel B	°	360				360			
	Spindle center line to woktable	mm	100-2300	100-2300	30～2030	300～2300	100-2300	100-2300	30～2030	300～3300
	Spindle terminal to center line of worktable	mm	-100～2700	-50～2750	-50～2350	——	-200～2700	-150～2750	-150～2350	——
Speed	Rapid traverse X/Y/Z/V/W/U	m/min	10/10/10/8	10/10/10/8	10/10/10/4/2	10/10/10/10/10	10/10/10/8	10/10/10/8	10/10/10/4/2	10/10/10/10/10
	Max. cutting feed speed X/Y/Z//V/W/U	m/min	6/6/6/6	6/6/6/6	6/6/6/2/1	8/8/8/8/8	6/6/6/6	6/6/6/6	6/6/6/2/1	8/8/8/8/8
Spindle	Boring shaft dia.	mm	Φ130				Φ160			
	Milling spindle end dia.	mm	Φ221.44	Φ221.44	——	Φ221.44	Φ260	Φ260	——	Φ260
	Ram section	mm	——	——	——	450×450	——	——	——	450×450
	Spindle taper	-	BT50				BT50			
	Pull stud	-	MAS403 P50T-I				MAS403 P50T-I			
	Spindle motor power	kW	30/37	37/45	22/30	31/37	37/45	37/45	22/30	44/51
	Spindle speed	rpm	10～2500	10～2500	10～1500	10～2500[10～3000]	10～2000	10～2000	10～1500	10～2000[10～2500]
	Max. milling spindle torque	N.m	2388/2945	2942/3578	2600/3120	2827/3374	2943/3579	2942/3578	2677/3302	3080/3696
	Max. boring shaft axial resistance	N	25000				25000			
Facing Head	Facing head dia.	mm	——	——	ϕ800	——	——	——	ϕ800	——
	Facing head rotation speed	rpm	——	——	5～150	——	——	——	5～150	——
	Max. Facing head torque	N.m	——	——	5000	——	——	——	5000	——
Machine Accuracy	Min. setting unit	mm	0.001				0.001			
	Positioning accuracy X/Y/Z/V/W/U	mm	0.02/0.02/0.02/0.02	0.025/0.02/0.02/0.02	0.025/0.02/0.02/0.025	0.02/0.017/0.014/0.011/0.025	0.02/0.02/0.02/0.02	0.025/0.02/0.02/0.02	0.025/0.02/0.02/0.025	0.025/0.14/0.014/0.011/0.025
	Repeatability accuracy X/Y/Z/V/W/U	mm	0.012/0.012/0.012/0.015	0.015/0.015/0.015/0.015	0.017/0.015/0.015/0.018	0.012/0.009/0.007/0.007/0.018	0.012/0.012/0.012/0.015	0.015/0.015/0.015/0.015	0.017/0.015/0.015/0.018	0.017/0.007/0.007/0.007/0.018
	Positioning accuracy B	-	5"	5"	8"	6"	5"	5"	8"	6"
	Repeatability accuracy B	-	3"	3"	5"	4"	3"	3"	5"	4"
Other	CNC controller	-	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]	SIEMENS[FANUC]	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]	NEWAY FANUC [SIEMENS]	SIEMENS[FANUC]
	CNC coordinate axis number	-	Total 5 axis, 4 axis interpolation	Total 5 axis, 4 axis interpolation	Total 6 axis, 4 axis interpolation	Total 6 axis, 4 axis interpolation	Total 5 axis, 4 axis interpolation	Total 5 axis, 4 axis interpolation	Total 6 axis, 4 axis interpolation	Total 6 axis, 4 axis interpolation
	Auto chip conveyor	-	spiral type + chain type chip conveyor	chain type chip conveyor	chain type chip conveyor	chain type chip conveyor	spiral type + chain type chip conveyor	chain type chip conveyor	chain type chip conveyor	chain type chip conveyor
	ATC (option)	-	[40(chain type)/60(chain type)]				[40(chain type)/60(chain type)]			
	Machine power capacity	kVA	80	80	80	90	80	80	88	103
	Machine weight	kg	35000	36000	40000	55000	38000	36000	42000	65000

Standard configuration:
X/Y/Z axis linear scales, B-axis circular grating, spindle oil cooling, external cooling device, accessory trolley, water tray, operation platform platform, protection cover.

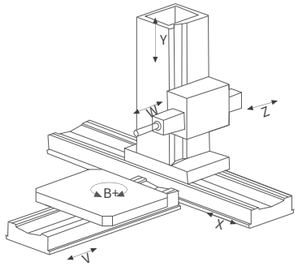
Optional configuration:
Tool internal cooling device (ie, cooling though spindle), tool measurement, etc.

Standard configuration:
X/Y/Z axis linear scales, B-axis circular grating, spindle oil cooling, external cooling device, accessory trolley, water tray, operation platform.

Optional configuration:
Tool magazine, tool internal cooling device (ie, cooling though spindle), boring shaft support sleeve, right-angle milling head, universal milling head, facing head, tool measurement, etc.

FB Series-
CNC Floor Type Boring and Milling Machine

- This model is a new generation of square ram and floor type boring and milling machine, with floor layout, spindle box side-attached structure, six axis, any four axis interpolation, with the ability of rough and finish machining.
- Complete a variety of processes by one clamping, they are suitable for milling, boring, drilling, tapping, turning, high-precision over-turn boring hole and so on.
- With its excellent processing performance, they are the preferred processing equipment for the energy, marine, civil aviation, engineering machinery, mining equipment and other industries.



- Horizontal movement of the worktable ——X axis
- Spindle box moves up and down ——Y axis
- Longitudinal movement of the column - Z axis
- Axial movement of boring shaft ——W axis
- Longitudinal movement of worktable——V axis
- Rotary motion of worktable ——B axis
- Double-layer spindle structure, the boring shaft rotates with the milling spindle

High Precision Boring & Milling Shaft System

- Ram is made from QT600-3 high quality nodular cast iron.
- High precision boring and milling shaft system, milling shaft supporting size is 2 times of boring shaft travel span to ensure and maintain excellent cutting rigidity when the boring shaft extend outside completely.
- Advanced ram compensation technology.
- Spindle air curtain seal protection.

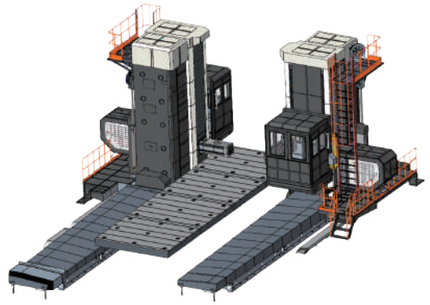
Heavy Duty Roller Linear Guideway

Linear axis adopts imported heavy loading roller linear guide way, greatly improved all axis travel speed and acceleration speed, realize excellent dynamic performance and higher cutting efficiency.

Main Drive System

The main drive system adopts ZF two-stage gearbox with high stability and low noise.

- Max. speed of FB130HC spindle is 3000rpm;
- Max. speed of FB160HC spindle is 2500rpm.



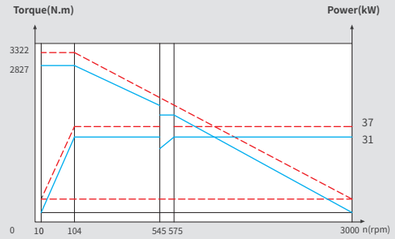
FB series double faces
CNC floor type boring and milling machine

Worktable Option		
Worktable size(mm)	2000x2000	2500×3000
	2000x2500	3000×3000
		3000×3500
Max. loading (T)	25	40
X axis travel (mm)	2000/3000	2000~6000

Spindle Power Torque Diagram

FB130HC

1PH8165-1DD13-1DA1



FB160HC

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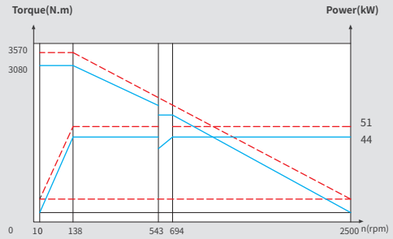
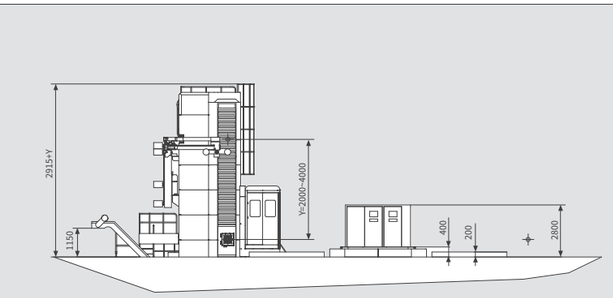
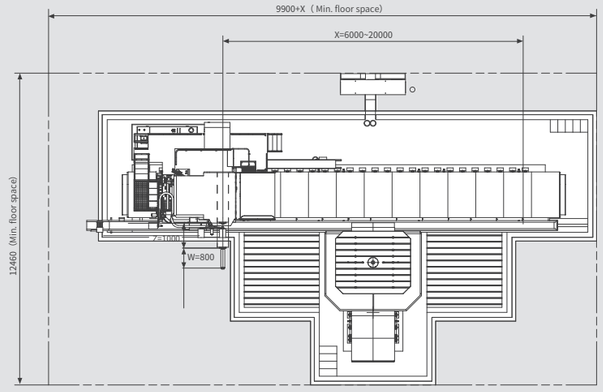


External Dimensions

FB130HC / FB160HC





Spindle Power Torque Diagram

FB160HZ

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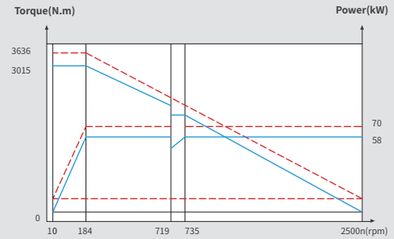

FB200

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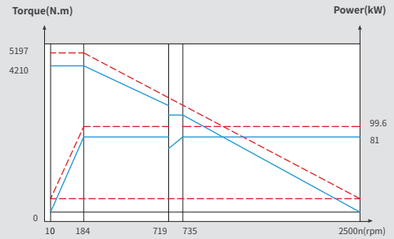
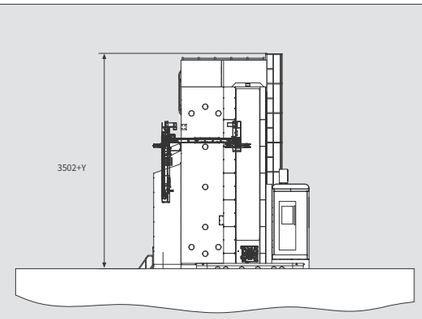
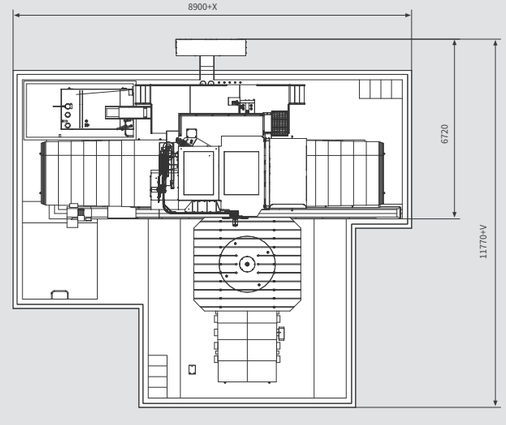


External Dimensions

FB160HZ / FB200





Note for CNC Boring and Milling Machine

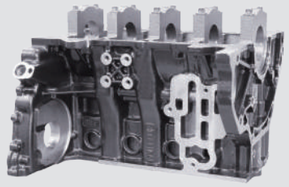
HB - Cross Type **FB** - Floor Type **H** - Box Guideway **R** - Ram Spindle
PB - Planer Type **S** - Linear Guideway **U** - Facing Head

	Item	Unit	FB130HC	FB160HC	FB160HZ	FB200
Woking Capacity	Column horizontal travel X	mm	6000 [Opt. increase by every 1000]	8000 [Opt. increase by every 1000]	10000 [Opt. increase by every 1000]	10000 [Opt. increase by every 1000]
	Spindle box vertical travel Y	mm	2000[3000][4000]	3000[4000]	5000[6000][7000]	5000[6000][7000]
	Ram travel Z	mm	1000	1000	1400	1400
	Boring shaft travel W	mm	800	800	1200	1200
	Spindle center line to worktable	mm	300~2300	300~3300	350~4350	350~5350
Speed	Rapid traverse X/Y/Z/W	m/min	15/10/10/10			
	Max. cutting feed speed X/Y/Z/W	m/min	8/8/8/8			
Spindle	Boring shaft dia.	mm	ϕ130	ϕ160	ϕ160	ϕ200
	Milling spindle end dia.	mm	ϕ221.44	ϕ260	ϕ260	ϕ300
	Ram section	mm	450×450	450×450	550×550	550×550
	Spindle taper	-	BT50	BT50	BT60[BT50]	BT60[BT50]
	Pull stud	-	MAS403 P50T-I	MAS403 P50T-I	MAS403 P60T-I	MAS403 P60T-I
	Spindle motor power	kW	31/37	44/51	58/70	81/100
	Spindle speed	rpm	10～2500[10～3000]	10～2000[10～2500]	10~2500	10~2000
	Max. spindle torque	N.m	2827/3374	3080/3572	3015/3768	4210/5197
	Max. spindle axial resistance	N	25000	25000	45000	45000
Worktable	Worktable size	mm	2000×2500 [2500×3000]	2500×3000 [3000×3000][3000×4000]	3000×4000 [3500×4000]	3000×4000 [3500×4000]
	Max. worktable loading	kg	25000[40000]	40000[60000]	60000[80000]	60000[80000]
	T slot width	mm	28	28	28[36]	28[36]
	Min. worktable indexing		0.001°	0.001°	0.001°	0.001°
	Max. worktable rotation speed	r/min	1.5	1.25	1.5	1.5
	Worktable longitudinal travel V		2000[3000]	2000[3000]	2000[3000]	2000[3000][4000]
	Worktable rotary range B		360°	360°	360°	360°
	Rapid traverse V	m/min	10	10	10	10
	Rapid traverse B	rpm	1.5	1.25	1.25	1.25
Machine Accuracy	Positioning accuracy X/Y/Z/W/V	mm	X/Y/Z/V 0.015/1000 W 0.025			
	Repeatability accuracy X/Y/Z/W/V	mm	X/Y/Z/V 0.012 W 0.02			
	Positioning accuracy B	"	6"			
	Repeatability accuracy B	"	4"			
Other	CNC controller	-	SIEMENS[FANUC]			
	CNC coordinate axis number	-	Total 6 axis, 4 axis interpolation			
	Auto chip conveyor	-	chain type			
	ATC (option)	-	[40(chain type)/60(chain type)]			
	Machine power capacity	kVA	92	105	160	160
	Machine weight	kg	55000+18000	62000+26000	95000+38000	100000+38000

Standard configuration: X/Y/B axis linear scales, spindle oil cooling, external cooling device, accessory trolley, operation platform, operation protection cover.

Optional configuration:
Tool magazine, rotary table, fixed platform, tool internal cooling device (ie, cooling though spindle), boring shaft support sleeve, right-angle milling head, universal milling head, facing head, tool measurement, etc.

Applications



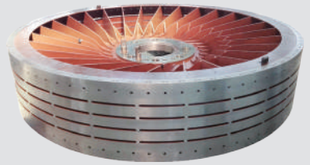
Box part

Connection seat

Support seat

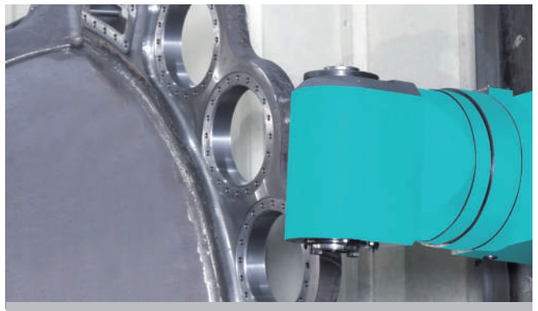
Reducer box

Valve body



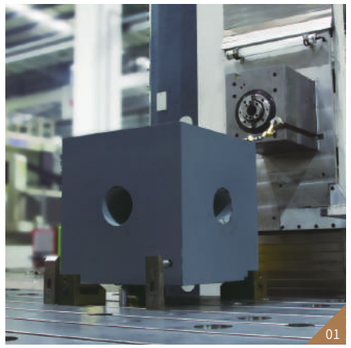
Rotor

Large housing



Large cylinder

Manufacturing and Inspection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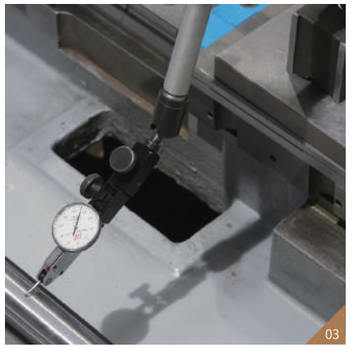
02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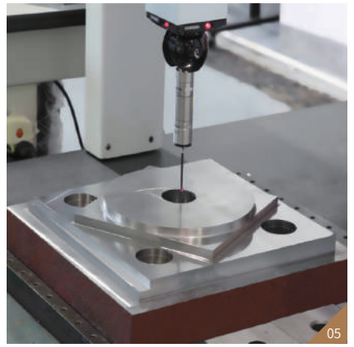
04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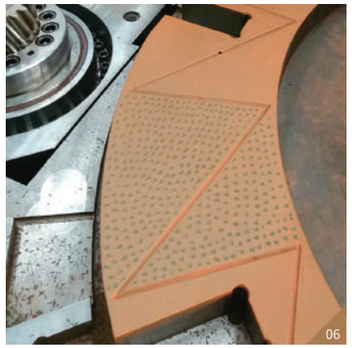
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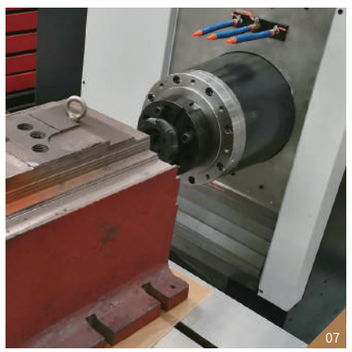
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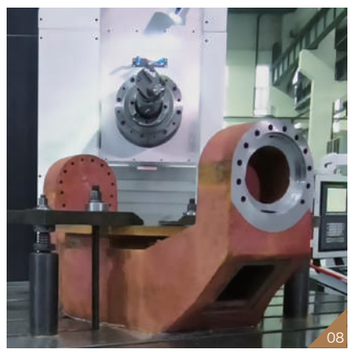
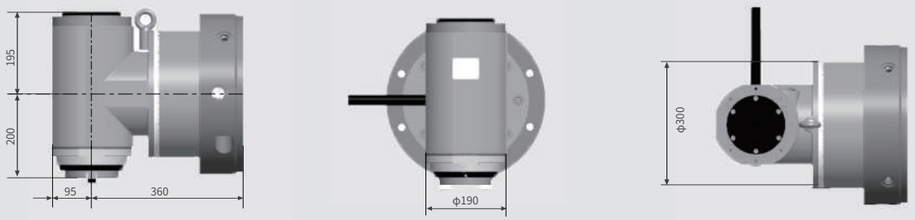

08

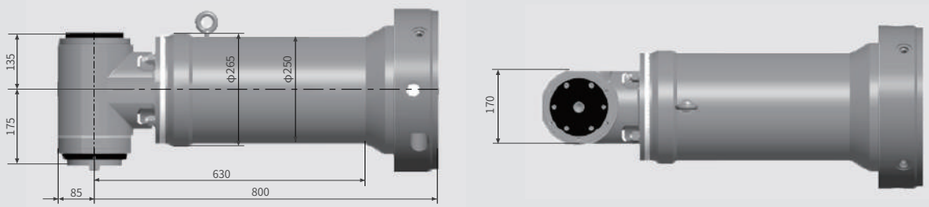
01 Geometric accuracy detection
02 Laser interferometer accuracy test
03 Parallelism detection
04 Three-coordinate detection
05 Precision cutting test
06 Scraping
07 Heavy cutting test
08 Precision hole machining test

Milling Head(optional)

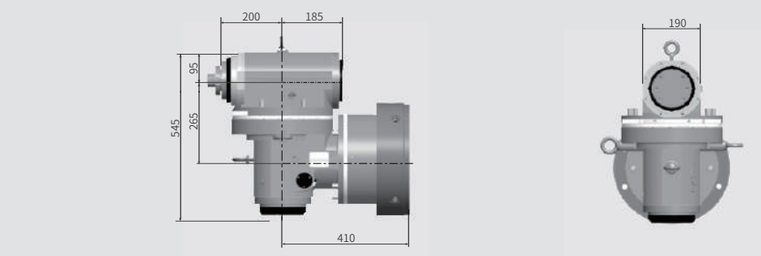
Right angle milling head NWM-ARM-100



Extention angular milling head NWM-AERM-50



Universal milling head NWM-AUM-100

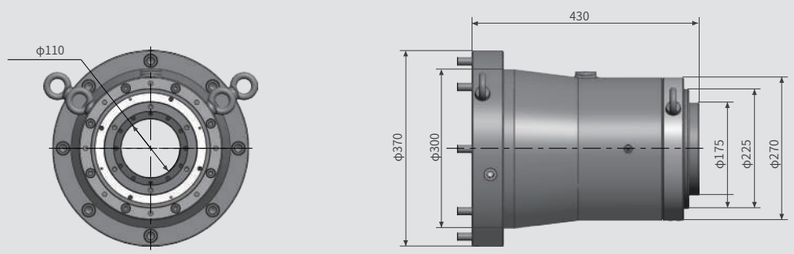


Milling head specification

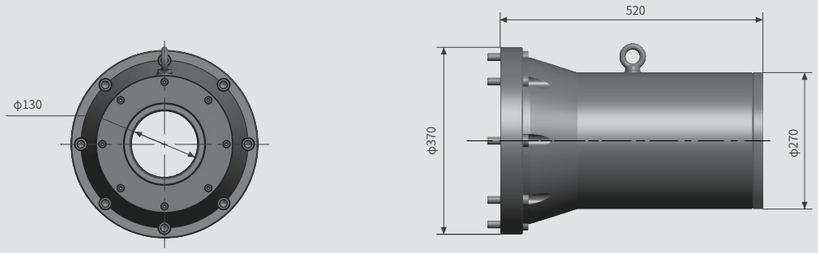
Milling head model	NWM-ARM-100	NWM-AERM-50	NWM-AUM-100
Power（kW）	30	15	30
Torque （N.m）	1000	500	1000
Speed（rpm）	1500	1000	1000
Transmission ratio	1：1	1：1	1：1
spindle taper	ISO50	ISO50	ISO50
Indexing way	manual	manual	manual
Tool clamping	manual	manual	manual
Installation	manual	manual	manual

Spindle Support Sleeve (optional)

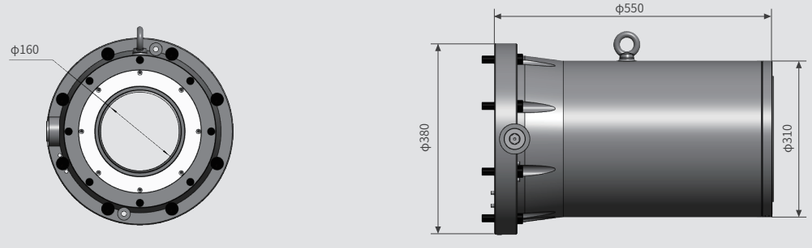
HB110H5250



PB130H5250



PB160H5250

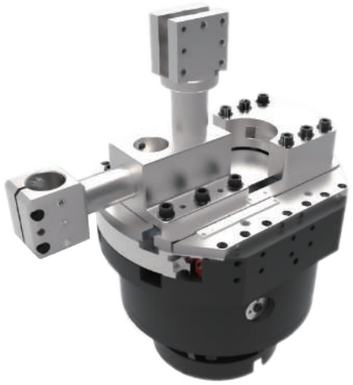


Spindle support sleeve specification			
Model	HB110H5250	PB130H5250	PB160H5250
Boring shaft hole diameter (¢ mm)	110	130	160
Support sleeve stroke length (mm)	400	490	550
Speed (rpm)	3000	2500	2000
Spindle support sleeve installation	Manual	Manual	Manual

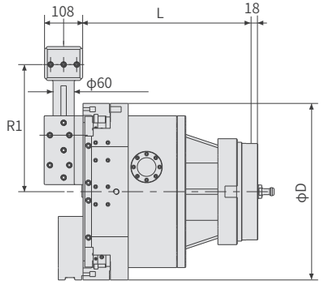
Facing Head (optional)

CNC Facing Head

Neway's facing head selection configuration			
Model	NWM-FH50-01	NWM-FH63-01	Note
Diameter ΦD（mm）	500	630	-
Extension length L	531	531	Recommended
Turning tool radius R1	360	425	-
Transmission ratio of spindle stroke and block movement	1:2	1:2	-
Max. speed（rpm）	200	150	-
Block travel U axis（mm）	130	200	-
Feeding rate（mm/min）	1-400	1-400	-
Max. working dia（mm）	800	1000	-
Tool holder qty	2	2	-
Weight（kg）	272	305	-



Facing head designed and made by Neway

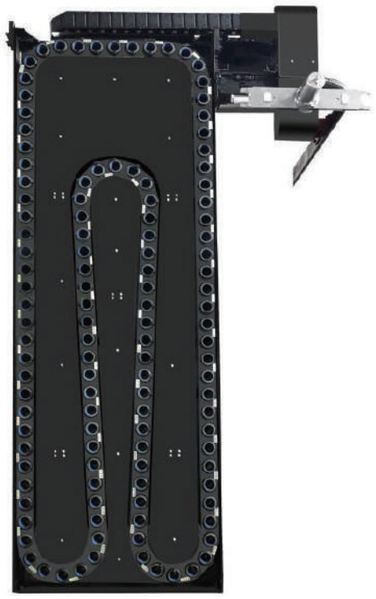


Originally imported CNC facing head, which can be used to clamp standard tools or special tools to complete single and composite processing.

Can be equipped with coolant system to extend tool life, improve cutting speed and ensure surface processing quality.

Counter balance as option, self-balancing, can realize high-speed processing without obvious vibration.

Tool Magazine (optional)



Floor-type chain magazine

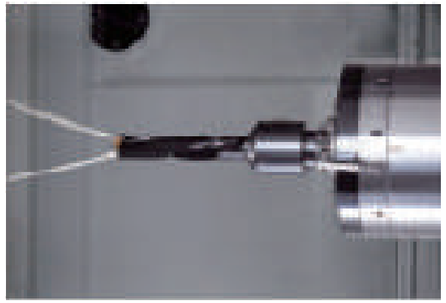
High class ATC with reliable quality and stable performance. The different tool magazines can be selected according to customers' needs.

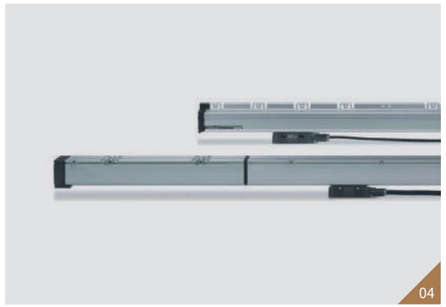
ATC specification						
	Number of tools	24	40	60	80	120
	Tool holder type	MAS403 BT50				
	Pull stud type	MAS403 P50T-1				
	Max. tool diameter/length/weight	Φ125mm/400mm/25kg				
	Max. tool diameter (no adjacent tool)	Φ250mm				

Floor-type chain magazine

ATC specification						
	Number of tools	24	40	60	80	120
	Tool holder type	MAS403 BT50				
	Pull stud type	MAS403 P50T-1				
	Max. tool diameter/length/weight	Φ125mm/400mm/25kg				
	Max. tool diameter (no adjacent tool)	Φ250mm				

Other Options





01 Deep hole boring bar

02 Tool breakage detection device

03 Cooling through spindle

04 Linear scale

05 Chip conveyor