BAOFENG

High Stability, High Rigidity
Inventive & Intelligent Creation

QUALITY COMES FROM CONFIGURATION, SERVICE COMES FROM HEART

DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.
BAOFENG PRECISION MACHINERY(GUANGDONG)CO., LTD.
HUBEI BAOKE INTELLIGENT EQUIPMENT CO., LTD.
HONGKONG BAOFENG PRECISION MACHINERY CO., LTD.

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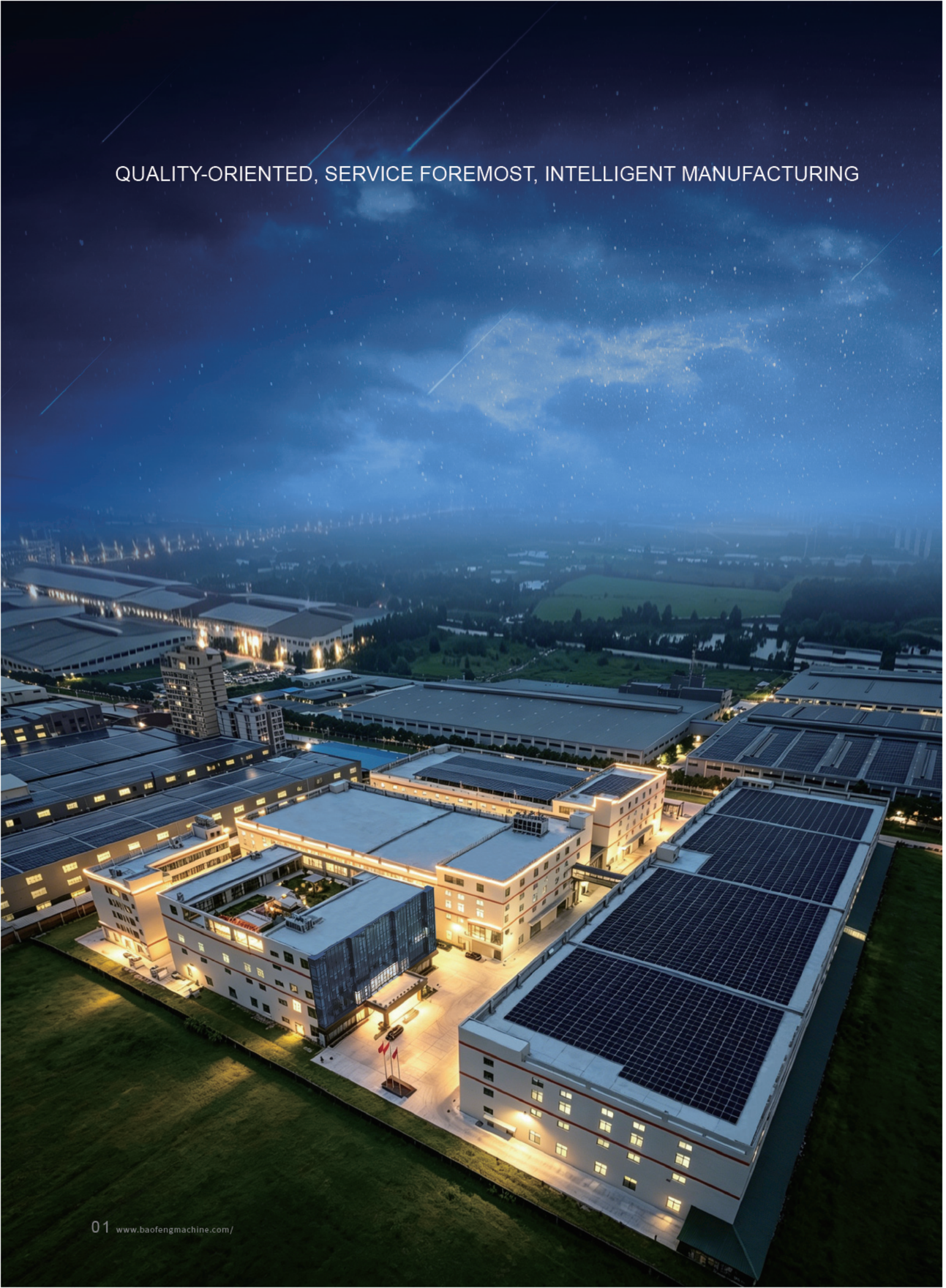
DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.



CONTENTS

Data, pictures, parameters are for reference only, please refer to the final product details.

Dongguan Production Base (30000㎡) | Foshan Production Base (50000㎡) | Huangshi Production Base (60000㎡)

Dongguan Production Base — DONGGUAN BAOKE PRECISION MACHINERY CO.,LTD.
SP/SVP/EL/Small gantry machine

Foshan Production Base — BAOFENG PRECISION MACHINERY(GUANGDONG)CO.,LTD
P/PT/E/SUP/A series machine

Huangshi Production Base — HUBEI BAOKE INTELLIGENT EQUIPMENT CO.,LTD.
HMC/Gantry machine/CNC lathe

Established in 2010 and headquartered in Dongguan, Guangdong Province, Baoke Precision Machinery (branded as Baofeng Machine) is a leading high-end CNC machine tool manufacturer integrating R&D, manufacturing, sales, and service. With the mission of delivering high-precision, cost-effective, and reliable machinery, we have built a global reputation over a decade, serving clients across 25 countries and regions with over 10,000 units delivered.

Manufacturing Excellence

Our three modern production bases span 140,000 square meters:
·Dongguan Base: Specializes in Five-axis machining centers, high precision vertical machining centers and small gantry machines.
·Foshan Base: Mainly used as a machine export workshop. Specializes in VMC, HMC and 5 axis machines.
·Huangshi Base: Specializes in DCMC, HMC and CNC lathes.

Innovation & Precision Assurance

Equipped with cutting-edge technologies such as Renishaw laser interferometers, Zeiss coordinate measuring machines, and G-TECH dynamic balancers, we ensure precision and stability in every machine. Our R&D team, comprising 70% technical experts, drives innovations in mechatronic systems and customized solutions for industries such as automotive, 3C electronics, and mold manufacturing etc..

Global Service Network

With a wide range of product lines and flexible customization capabilities, we provide 24/7 technical support and tailored CNC solutions. Certified by ISO 9001 & CE, Baofeng Machinery combines rapid delivery, competitive pricing, and robust after-sales service to empower global partners in achieving manufacturing excellence.

Certificate of Honor

ISO9001 Certificate


CE Certificate


Dual-axis synchronous control method


Manipulator device for machine tools


Counterweight cylinder connection device

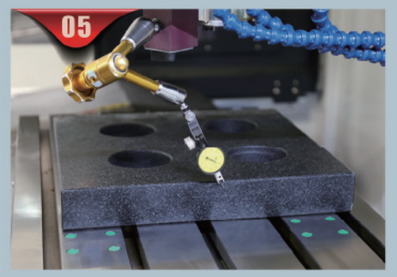
Specialized, refined, unique and new benchmark enterprise in the Greater Bay Area

"Contract compliance and trustworthiness" enterprise

"Little Giant" Enterprise

China Innovation and Entrepreneur National Competition

Manufacturing Process / Quality Inspection



01 Natural aging treatment

The cast iron undergoes high-temperalure tempering and natural aging treatment to eliminate internal stress in casting, and ensure continuously stable precision.

02 Machining

Divided into two parts: CNC machining and precision grinding. The machine guideway surfaces are all ground and processed by high-precision guideway grinders.

03 Manual scraping process

All assembly surfaces of the machine are scrapped and manually processed to ensure geometric accuracy and contact stiffness

04 Ballscrew / Motor base inspection

Divided into linear guideway assembly, ballscrew assembly, bearing assembly, etc. Once an accessory is installed, it needs to be inspected and calibrated to ensure the accuracy of each component. This process is carried out by professional technicians, with testing equipment.

05 Machine accuracy inspection

The accuracy of each machine is inspected three times:during machine body assembly,after full machine assembly and before packing.

06 Taiwan G-tech dynamic balancer

Dynamic balance vibration detection and correction for spindle motor and spindle.

07 England Renishaw dual frequency laser interferometer

When detecting the screw pitch error, the straightness of guideways in XX and YY directions can be tested at the same time, to ensure the processing and assembly accuracy of each part of che machine, and to measure the real positioning and repeated positioning accuracy the of machine.

08 German Carl Zeiss 3-coordinate measuring instrument

It is mainly used to test precision parts of machine tools, such as bearing seats, glands, motor flange plates, spindles, etc., as well as geometric tolerances and free-form surface tolerances of machined samples.

09 235 inspection standards

From machine body to whole machine, comply with 235 quality inspection standards to inspect all processes, to ensure each machine to be high quality.

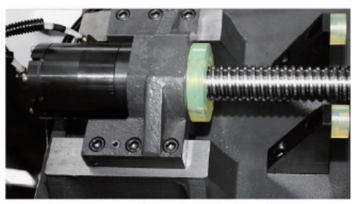
10 Machine packaging and shipping

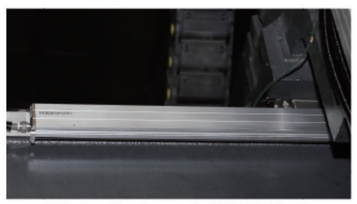
A series high-speed and high-precision 5 axis machine

- ▶ A-axis is DDR torque motor with dual drive, C-axis is DDR torque motor with direct drive.
- ▶ Adopt FC30 high-intensity casting material + gantry type structure design, which enables high precision and high dynamics required for 5-axis machining.

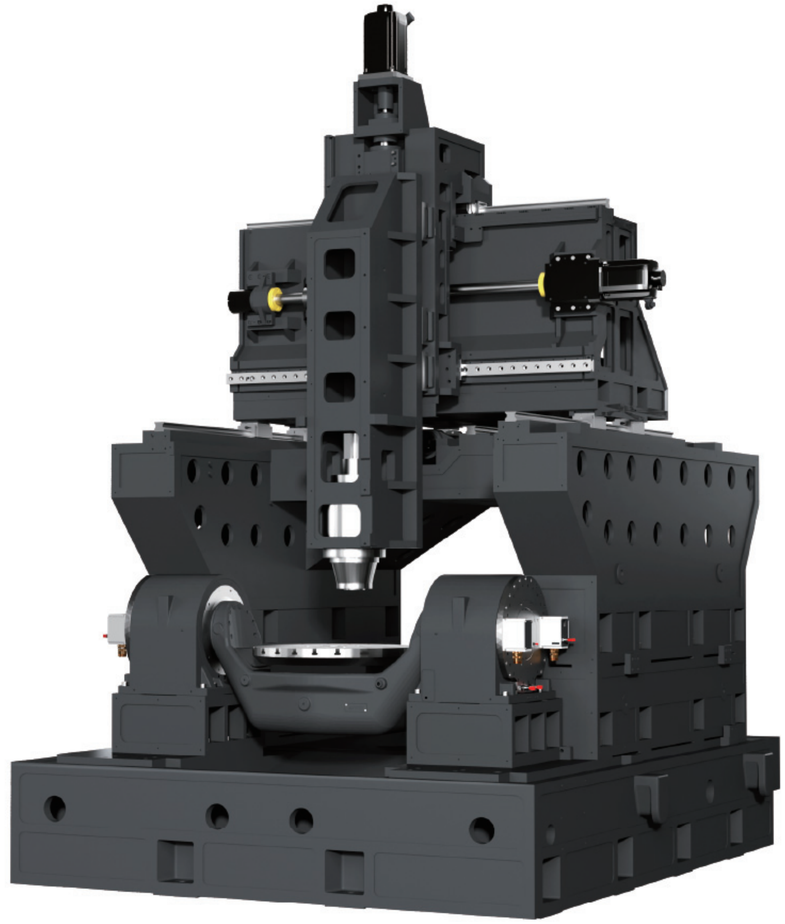

Siemens controller


Heidenhain controller


Three-axis hollow oil-cooled ballscrew

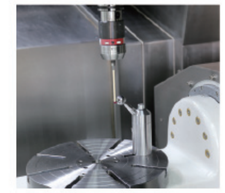

Fully closed-loop linear scale (X/Y/Z/A/C axis)

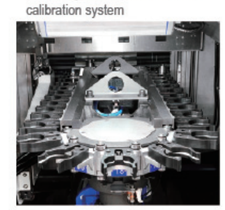

DD rotary table




Torque motor


Laser tool setter


Workpiece's online measurement and rotary table center automatic calibration system


HSK-A63-32T Tool magazine

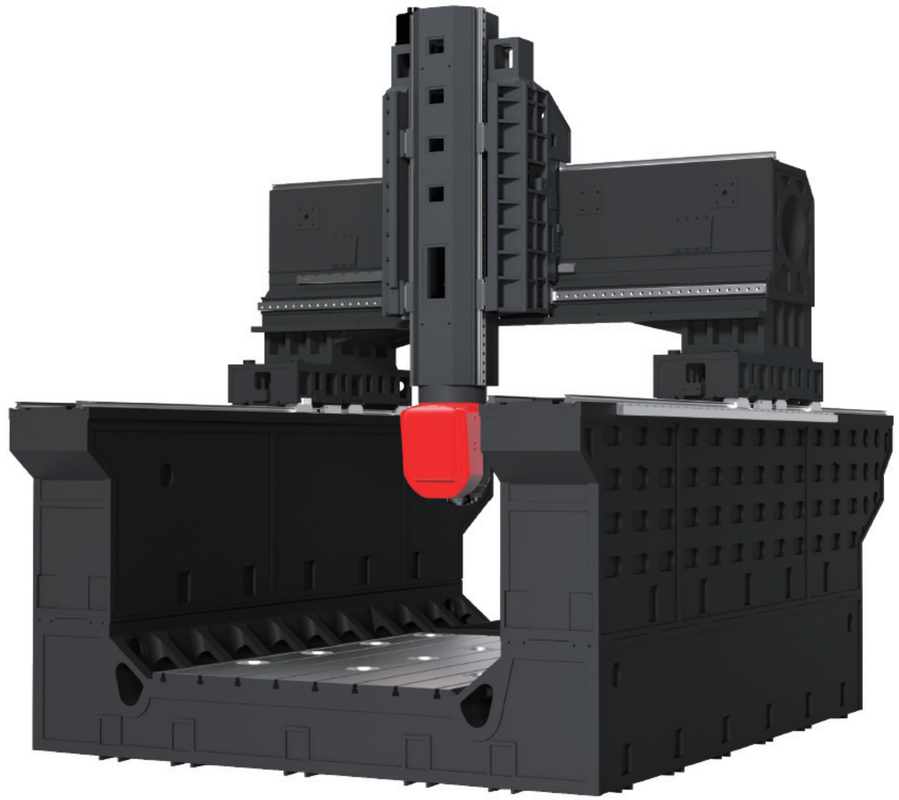
Specification	Unit	BF-500A5	BF-630A5	BF-800A5
X axis travel	mm	600	900	1100
Y axis travel	mm	1080	1050	1300
Z axis travel	mm	500	650	
A axis rotary angle		-110---40°	-120--120°	
C axis rotary angle		360°		
Distance from spindle nose to worktable	mm	100-600	120-770	
Maximum rotation diameter of workpiece		600	800	1000
Rotary table Dia.	mm	Φ500	Φ630	Φ800
Maximum load	kg	350	850	
T-slot width		8-12x45	7-14x80	7-14x100
Reference aperture		Φ50H7		Φ50H8
Machine weight	kg	9500	18000	21500

5 axis BF-2618A5 Gantry Machining Center

2- axis milling head(Single side)

2- axis milling head(Double side)

- XYZ axis ballscrew exterior cycle cooling system
- XZ axis are dual drive design.
- AC axis are DDR direct-drive torque motors
- Moving gantry "fixed table" structure, maximun load 5000Kg/ ㎡



Specification	Unit	BF-2618A5
Travel		
X axis	mm	2800
Y axis	mm	1800
Z axis	mm	1000
Spindle nose to table	mm	400-1400
Gantry width	mm	2340
Worktable		
Table size	mm	2800x1800
T-slot	mm	8-22x237
Controller		
Standard controller (Siemens)		SINUMERIK NCU-ONE
Spindle		
Driving type		Built-in
Spindle speed	rpm	20000(MAX)
Spindle taper and specification		MT80-S20-716.441
Spindle motor power	kW	S1-45,S6/25%-45
Spindle motor torque	Nm	S1-80,S6/25%-110

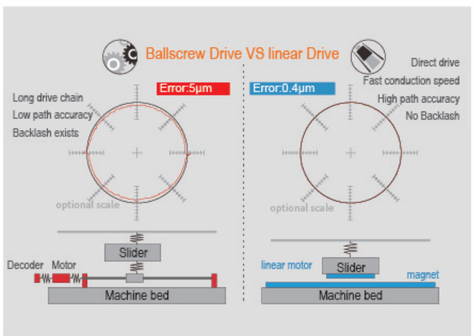
3 axis		
X/Y/Z motor power	Nm	7.25x2/7.75/5.24x2
X/Y/Z rapid feed	Nm	20/20/20
Machine accuracy		
Positioning accuracy (dual direction)	mm	0.005/300
Repeated positioning accuracy	mm	0.003/300
Machine		
Air pressure	kg/cm²	6~7bar
Machine dimension: Length	mm	6500
Width	mm	5200
Height	mm	4500
Weight(machine body)	kg	38500

HT300

High strength resin sand gray cast iron

SUP Series High Speed High Precision Machining Center

- The machine base and gantry beam are made of Schneeberger mineral castings, which have excellent shock absorption and extremely low thermal sensitivity. They are the preferred base & beam material for super-precision machine tools.
- The three axis are driven by AC permanent magnet synchronous linear motors, and the moving and fixed windings are non-contact and wear-free. With no transmission gap,and the advantages of direct drive, standard use can achieve lifelong maintenance-free.
- Linear scales on X/Y/Z axis,forming a fully closed loop measurement system.
- X/Y/Z rapid feed 60m/min, acceleration 10m/s².
- Fully enclosed metal cover, and equipped with an oil mist collector to recycle and filter oil mist, it is energy-saving and environmentally friendly, to create a safe production environment for both machine and operators.



X/Y/Z axis use direct drive linear motors.

- Rapid feed, high acceleration/deceleration
- No backlash, zero wear, permanent high precision.
- Simple structure, low maintenance cost.

Standard configurations

- Workpiece blowing system
- Oil mist micro lubrication system
- Spindle frequency-change water cooling system
- Linear motor frequency-change water cooling system
- Guideway cover
- Machine bed air conditioning temperature control system
- Dual work light
- Rear chip flushing system
- Electric cabinet air conditioning system
- Metrol tool setter
- X/Y/Z axis linear motor water cooling system
- Head automatic locking cylinder balancing system
- Z-axis power-down pull-up protection
- Oil mist collector
- Air gun
- High-pressure water gun
- Fully enclosed metal cover
- 3 color alarm light

Optional

- 11KW HSK-E40-42000rpm Built-in spindle Blum tool setter

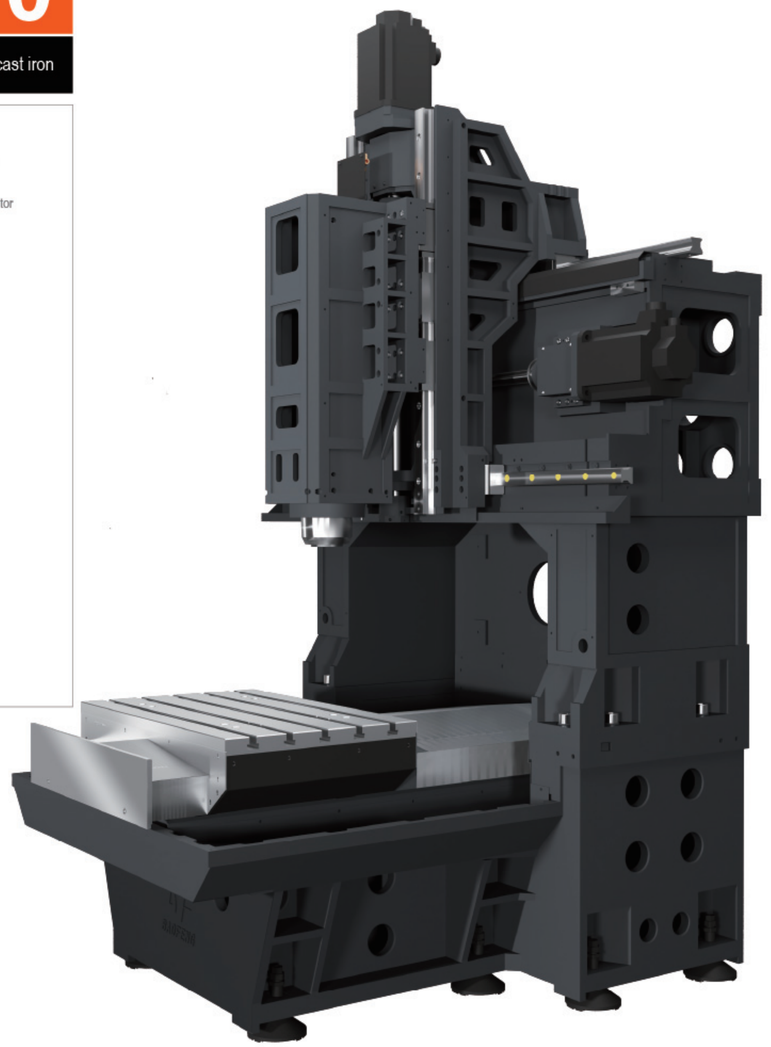
SUP Series High Speed High Precision Machining Center

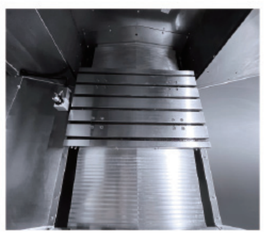
- The spindle box adopts a slider movement design to ensure the consistency of Z-axis axial rigidity and accuracy;
- X axis adopts a gantry structure, which ensures the processing range while minimizing the spindle cantilever length;
- The gantry guideway adopts a stepped distribution, so that the center of gravity of X-axis operation is closer to the gantry casting;
- Equipped with high-speed and high-power HSK-A63 electric spindle, high torque, high rigidity and low vibration;
- 3 axis are equipped with linear scales for high-precision fully closed-loop position detection.

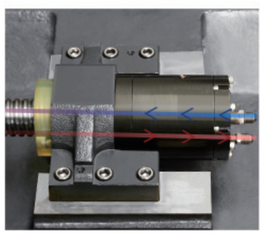
HT300

High strength resin sand gray cast iron

- Standard configurations:
- Working blowing system
- Spindle frequency-change water cooling system
- X/Y/Z axis hollow oil coolant screw & motor plate frenquency-change oil cooling
- Handwheel
- Oil mist collector
- Guideway Cover
- Safety door
- Auto power-off
- 3 color alarm light
- Dual work light
- 600W electric cabinet air conditioner
- Ming Ji tool setter
- Wentao HSK-A63-T40A probe
- Air gun
- High-pressure water gun
- Optional:
- HSK-A63-24T ATC
- Chain-chip conveyor
- X/Y/Z axis linear scale
- Metrol contact tool setter
- Blum NT-A1 tool setter
- Renishaw OMP40 Probe
- Renishaw OMP400 Probe
- 15 inch screen
- Oil mist micro lubrication system




Stainless steel chassis


Hollow oil-cooled ball screw


HSK-A63-24T frequency tool magazine


Electric cabinet air conditioner

SVP Series High Speed High Precision Machining Center

- Fully-supported box-type base structure, with the Y axis positioned above the X axis,ensuring the table always maintains full support within the whole machining range of X/Y axis, and to avoid the overhang problem when table moves to far left or right.
- The machine bed dimensions such as the span of 3 axis linear guideway, sliders distance, the distance from spindle center to Z-axis guideway surface, etc., all strictly follow 1:1 ultra-wide and ultra-large structure with equal distance between action point and support point.

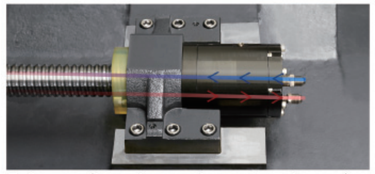
Standard configurations

Workpiece blowing system	Guideway cover	X/Y/Z axis motor constant-temperature control system
Automatic centralized lubrication system	Fully enc losed metal cover	Nitrogen counterweight
Spindle oil coolant	3 color alarm light	
Handwheel	Working light	
Electrial cabinet heat exchanger	All support base structure	
Dual screw+chain type chip conveyor		

Optional

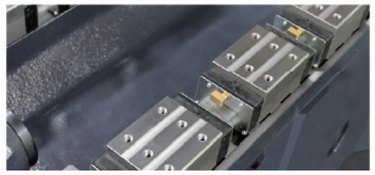
BBT40-150-10000 Spindle	BT50-24T/30T tool magazine
HSK A63-150-15000 Spindle	Coolant through spindle
BT40-24T/30T Tool magazine	
HSK A63-24T/30T Tool magazine	
15 inch screen	

Two-sides fully-supported box-type base structure



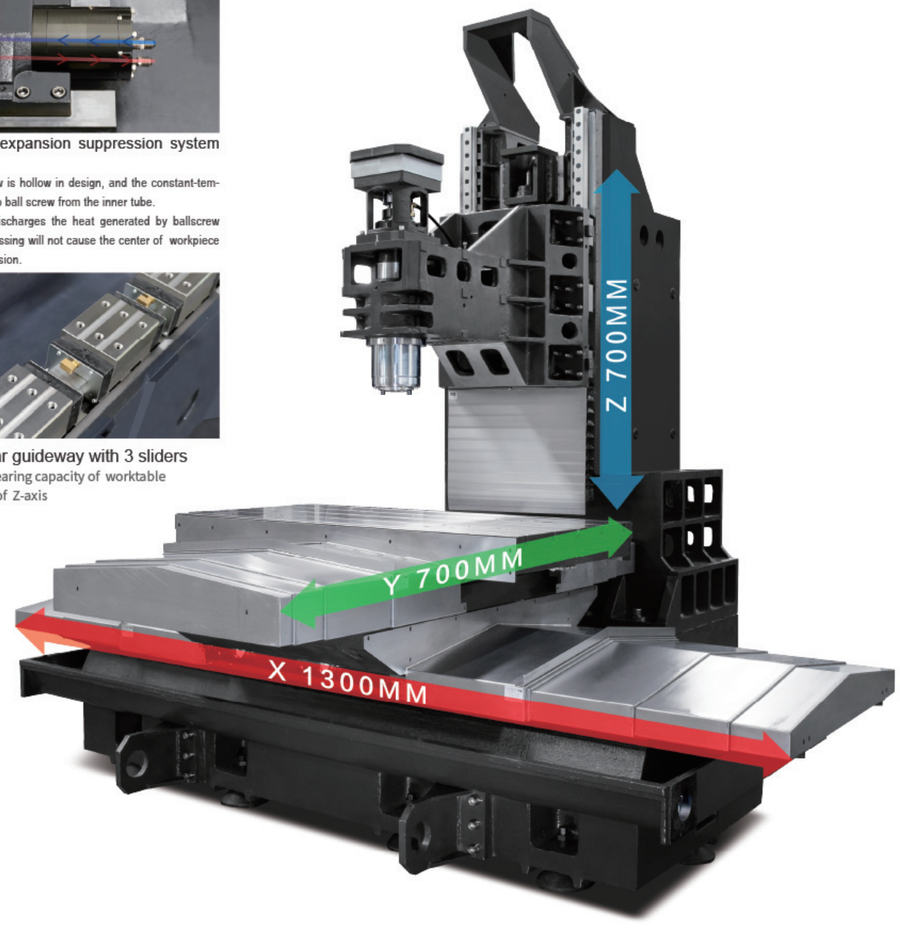
Ball screw thermal expansion suppression system (optional)

The large-diameter ball crew is hollow in design, and the constant-temperature cooling oil is sent to ball screw from the inner tube.
The tail end returns and discharges the heat generated by ballscrew movement. Long-term processing will not cause the center of workpiece to drift due to thermal expansion.

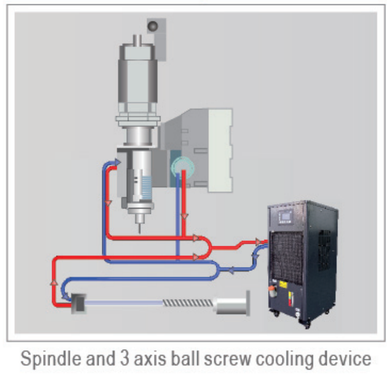


X/Z axis roller linear guideway with 3 sliders

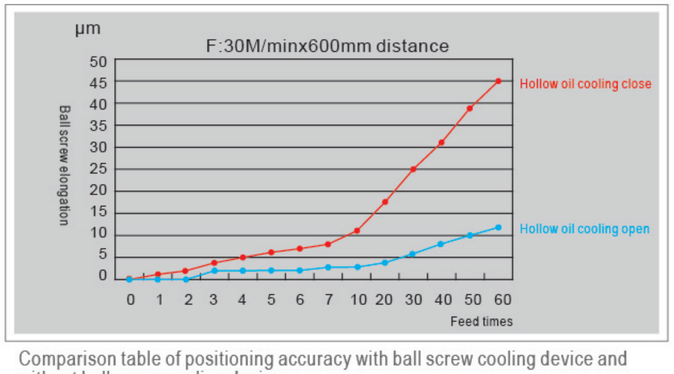
Ensure the large load-bearing capacity of worktable and the cutting rigidity of Z-axis



Innovative design concept servo axis and spindle thermal temperature rise suppression system



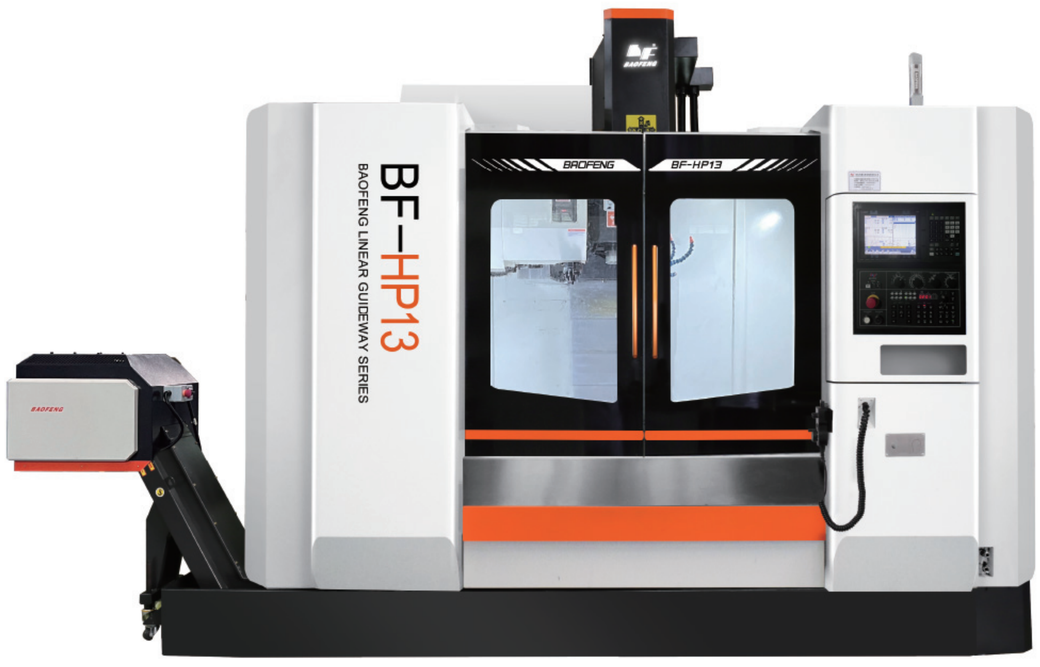
Spindle and 3 axis ball screw cooling device



Comparison table of positioning accuracy with ball screw cooling device and without ball screw cooling device

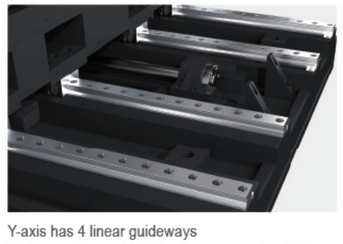
HP Series Linear Guideway Machining Center

▸ This series of models adpots a high-rigidity structure supported by a large span, high precision linear guideways and ball screws design with locking preload for X/Y/Z axis, ensuring fast, strong, and stable processing performance.Ideal for high-precision parts and mold processing. It can be widely used in automobiles, machinery, instrumentation, textiles, and electronic instrument industries.



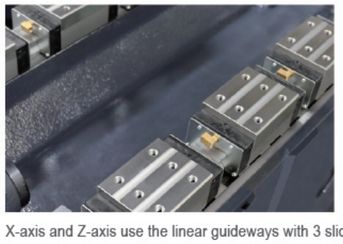
Larger and wider span herringbone design

The interior adopts dense and thickened rib arrangement, compared with ordinary columns, the body's rigidity, torsion resistance and bending resistance are enhanced.The contact area with the base is increased,making the processing more stable accordingly.



Y-axis has 4 linear guideways

X-axis support is more stable, it can improve processing stability.



X-axis and Z-axis use the linear guideways with 3 sliders

Ensure the large load capacity of worktable and cutting rigidity of the Z-axis.

Standard configurations

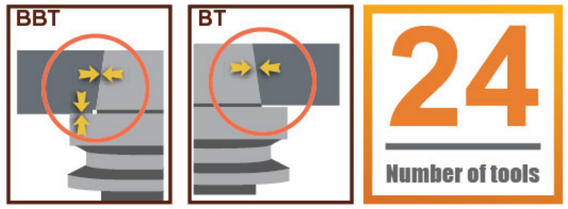
▸ Workpiece blowing system	▸ Heat exchanger	▸ Cutting fluid cooling system
▸ Tool Chip flushing system	▸ Guideway protection cover	▸ BT40-24T Arm type tool magazine
▸ Central lubrication system	▸ Full enclosed metal cover	▸ Rear chip flushing system
▸ Spindle oil coolant	▸ Alarming light	
▸ Handwheel	▸ Working light	

Optional

▸ BBT40-15000rpm direct drive spindle	▸ Dual screw + chain type chip conveyor
▸ HSK-A63-15000rpm direct drive spindle	
▸ BT40-24T/30T disc type tool magazine	
▸ HSK-A63-24T/30T disc type tool magazine	
▸ Coolant through spindle	

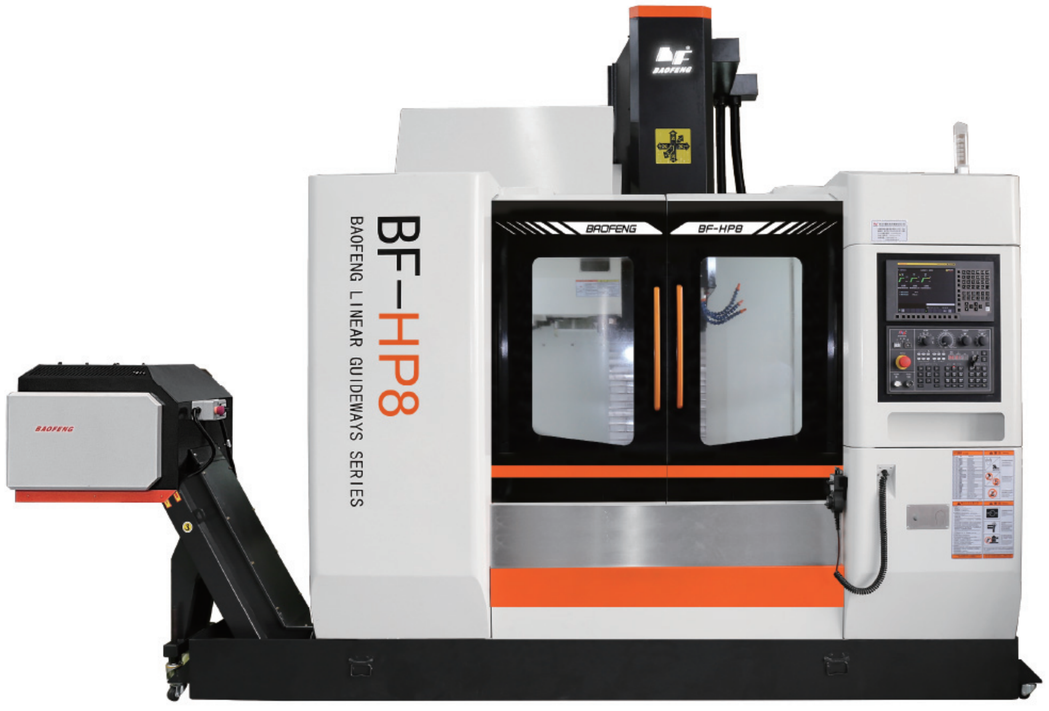
HP Series Linear Guideway Machining Center

- Direct drive BBT40-12000rpm, high speed and high rigidity spindle.
- The machine structure uses Finite Element Analysis（FEA）to optimize the structural design.
- All parts are made of HT300 high-grade castings,after in-mold 48H thermal insulation + high-temperature annealing stress relief treatment, It is to ensure rigidity and stable precision.



The difference between BBT and BT

BBT is bonded on both sides, providing high rigidity and low vibration during high-speed rotation.

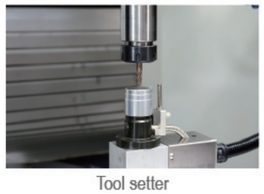


Standard configurations

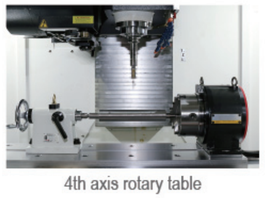
Workpiece blowing system	Handwheel	Guideway protection cover
Gutting fluid cooling system	Heat exchanger	Full enclosed metal cover
Central lubrication system	Rear Chip flushing system	3 color alarm light
Spindle oil coolant	BT40-24T Arm type tool magazine	Working light

Option

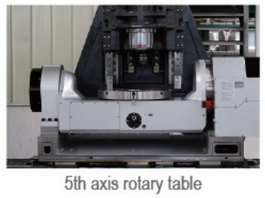
Coolant through spindle



Tool setter



4th axis rotary table



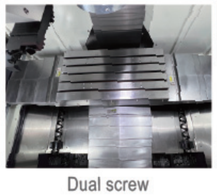
5th axis rotary table

Standard configurations

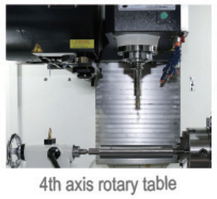
Workpiece blowing system	Handwheel	Rear chip fluid system
Cutting fluid cooling system	Heat exchanger	Full enclosed metal cover
Central lubrication system	BT40-24T arm type tool magazine	3 color alarm light
Spindle oil coolant	Guideway protection cover	Working light

Option

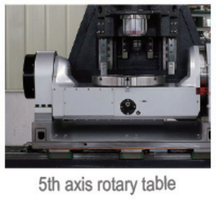
Coolant through spindle



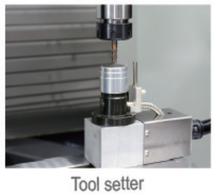
Dual screw



4th axis rotary table



5th axis rotary table



Tool setter

Direct drive spindle

Spindle motor directly drives the spindle via the coupling. It has the advantages of short start-up and stopping time, high tapping accuracy, high speed and low vibration.

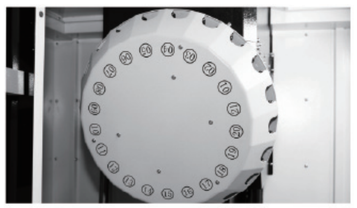
HT300

High strength resin sand gray cast iron

PT Series Drilling & Tapping Machining Center

- Large A-shaped column, X/Y/Z axis rapid speed 48M/min, acceleration up to 1G.
- Rigid tapping speed 4000rpm, specification M10 (AL6061).
- The back-flushing features a powerful chip removal device, no need to stop the machine for cleaning.
- Improved tool exchange structure, (T-T) tool exchange time 1.7S.


Z-axis extended slider


Standard servo tool magazine for quick tool change(T~T): 1.7 seconds


Tool holder cleaning function before tool exchange

Standard configurations


FANUC


MITSUBISHI

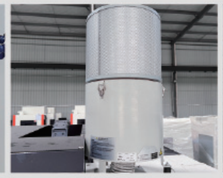

SYNTEC

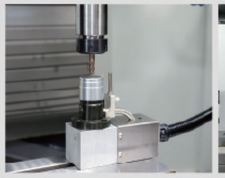

SIEMENS

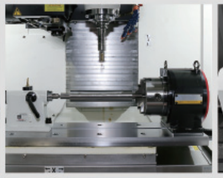
Workpiece blowing system	Spindle oil coolant	Spindle temperature control system	3 color alarm light
Cutting fluid cooling system	Handwheel	Guideway protection cover	Working light
Automatic centralized lubrication system	Heat exchanger	Full enclosed metal cover	BT30-21T servo tool magazine

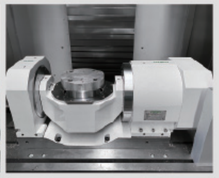
Optional


BT30 side milling tool holder


Oil mist collector


Tool setter


4th axis rotary table


5th axis rotary table

21
Number of tools

High speed, high efficiency

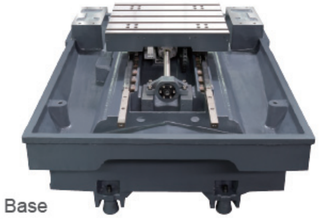
Ideal for mass production processing!

E Series Engraving & Milling Machine Center

- High-density ribs structure, small deformation and strong load capacity
- The surface is high-frequency quenched (harder and more wear-resistant)
- Precision grinding to ensures minimal flatness and roughness
- The machine has a compact appearance and small footprint
- The machine structure has been optimized through finite element analysis,offering strong rigidity and stable structure
- The lightweight design Z-axis moving part provides excellent responsiveness during processing


Column

Integrated casting double-layer reinforced gantry structure to improve rigidity and torsional strength


Base

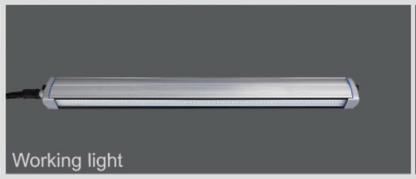
Double-layer ribs box-type base ensures high stability and rigidity


Spindle

High-speed and high-precision electric spindle, spindle deflection controlled at ±0.001mm

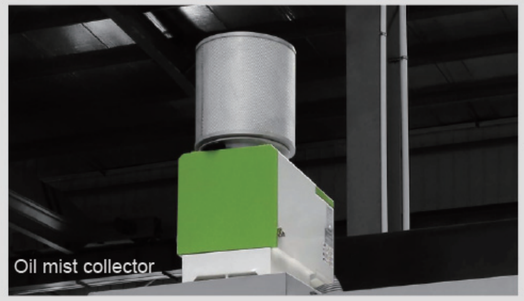
Standard configurations ♦ Syntec 22MA ♦ Mitsubishi E80


Tool Setter


Working light

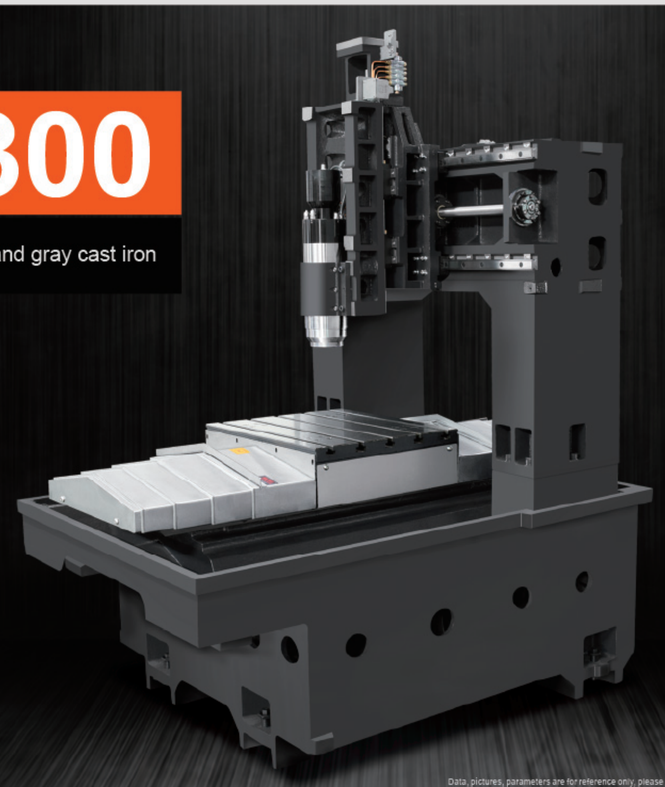
- Workpiece blowing system
- Cutting fluid cooling system
- Automatic centralized lubrication system
- Spindle oil coolant
- Handwheel
- Guideway protection cover
- Full enclosed metal cover
- 3 color alarm light
- Working light
- Tool setter

Optional


Oil mist collector

HT300

High strength resin sand gray cast iron



EL Series XY Axis Linear Guideway Z Axis Box Way Machining Center

- X/Y axis linear guide way and Z axis box way ensure high accuracy and cutting strength.
- Box-shaped base and large-span A-shaped column ensure good accuracy.
- The precision ballscrew adopts a double-nut design, and the support seats at both ends are equipped with 5 ball bearings and are pre-tensioned to offset the thermal elongation error of ballscrew to ensure the thermal stability of machine.
- All lubrication systems adopt distribution valves to ensure uniform oil supply to all lubrication points, keep good lubrication for machine, and extend service life of machine.

ATC adopts advanced tool clamping technology
Tool change time 2.3 s (T to T)

Workpiece blowing system	Spindle oil coolant	Guideway protection cover	Working light
Cutting fluid cooling system	Handwheel	Full enclosed metal cover	
Automatic centralized lubrication system	Heat exchanger	3 color alarm light	

Standard configurations

FANUC

MITSUBISHI

SIEMENS

Optional

Cooling through spindle

BF Gearbox(optional for 1375L and bigger machines)

Tool setter

Arm type tool magazine

EB Series XYZ Axis Box Way Machining Center

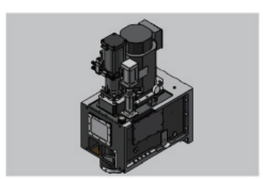
- ▸Adopt high strength Meehanite cast iron and high-temperature tempering and aging treatment to eliminate internal stress and ensure long-term maintenance of mechanical accuracy.
- ▸Worktable surface and 3-axis sliding guide rails are heat-treated by high-frequency, with a hardness as high as HRC50 and excellent wear-resistance.
- ▸The sliding surfaces of the 3-axis guideway are pasted with Japanese Turcite-B wear-resistant sheet, which is carefully scraped by professional technicians to achieve better anti-wear effect and smaller friction.

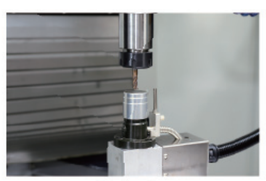
Standard configurations

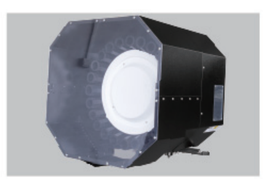
▸ Workpiece blowing systems	▸ Spindle oil coolant	▸ Guideway protection cover	▸ Working light
▸ Cutting fluid cooling system	▸ Handwheel	▸ Full enclosed metal cover	
▸ Central lubrication system	▸ Heat exchanger	▸ 3 color alarm light	

Optional

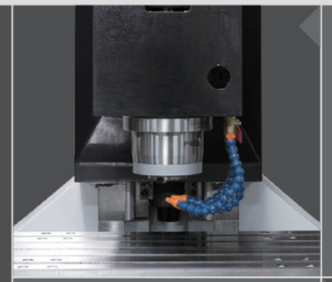

Coolant through spindle


BF Gearbox(optional for 1375L and bigger machines)

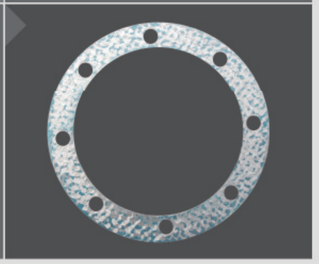

Tool setter


Arm type tool magazine

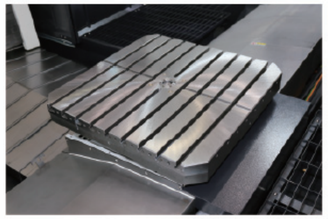

Column
Large span herringbone structure column, more rigid, more stable during heavy cutting.


Machine head
Rib-reinforced and box-type machine head support the spindle stably.

Precision scraping process



High Speed High Precision Horizontal Machining Center

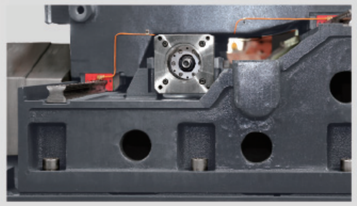


- T-base, full support structure for each axis.
- Large capacity tool magazine, high machining adaptability.
- Single worktable or dual pallet changer available as an option.
- Fully automatic chip removal to reduce cleaning downtime.
- Super wide range of processing, suitable for machining all kinds of mechanical parts.

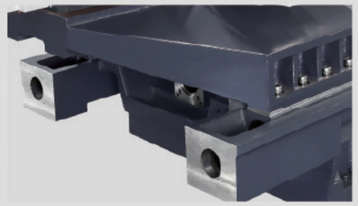
• Standard positive T-type structure. • Gear-driven high-torque spindle. • Large capacity tool magazine. • Dual pallets changer

Standard configuration

Workpiece blowing system	Spindle temperature control system	Guideway protection cover	Working light	Dual screw + chain type chip conveyor
Cutting fluid cooling system	Handwheel	Full enclosed metal cover	Oil-water separation system	BT50-32T tool magazine
Automatic centralized lubrication system	Heat exchanger	3 color alarm	630x630 dual pallet exchanger	Safety door

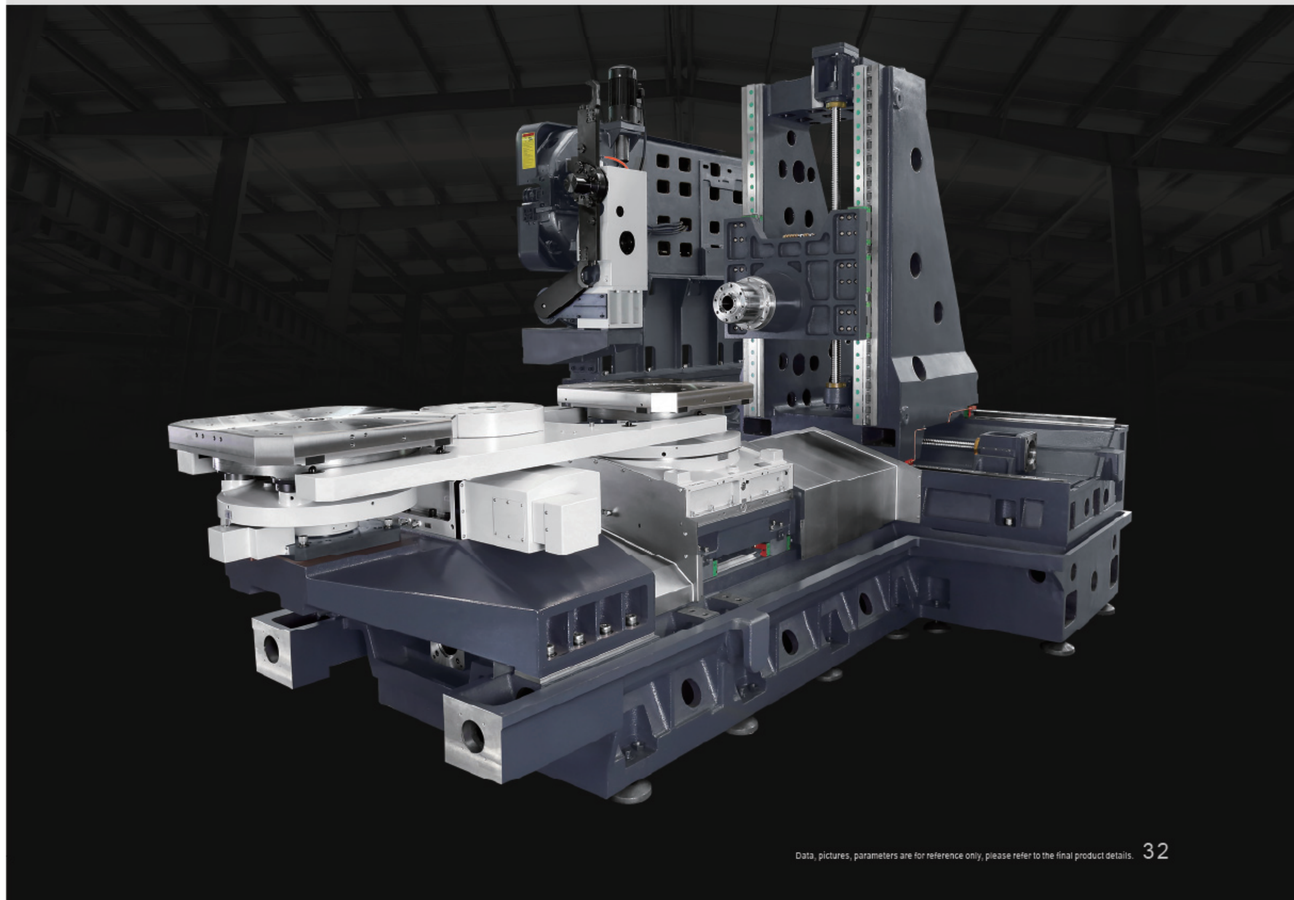


The X-axis parallel rail adopts step distribution to enhance the rigidity of the column when cutting in the Z-axis direction.



The base adopts large span support to ensure the stability of the whole machine. The key parts have passed finite element analysis to ensure the stability and rigidity of the mechanism.

The column adopts large triangular structure design, which provides better vibration resistance and smoother machining.



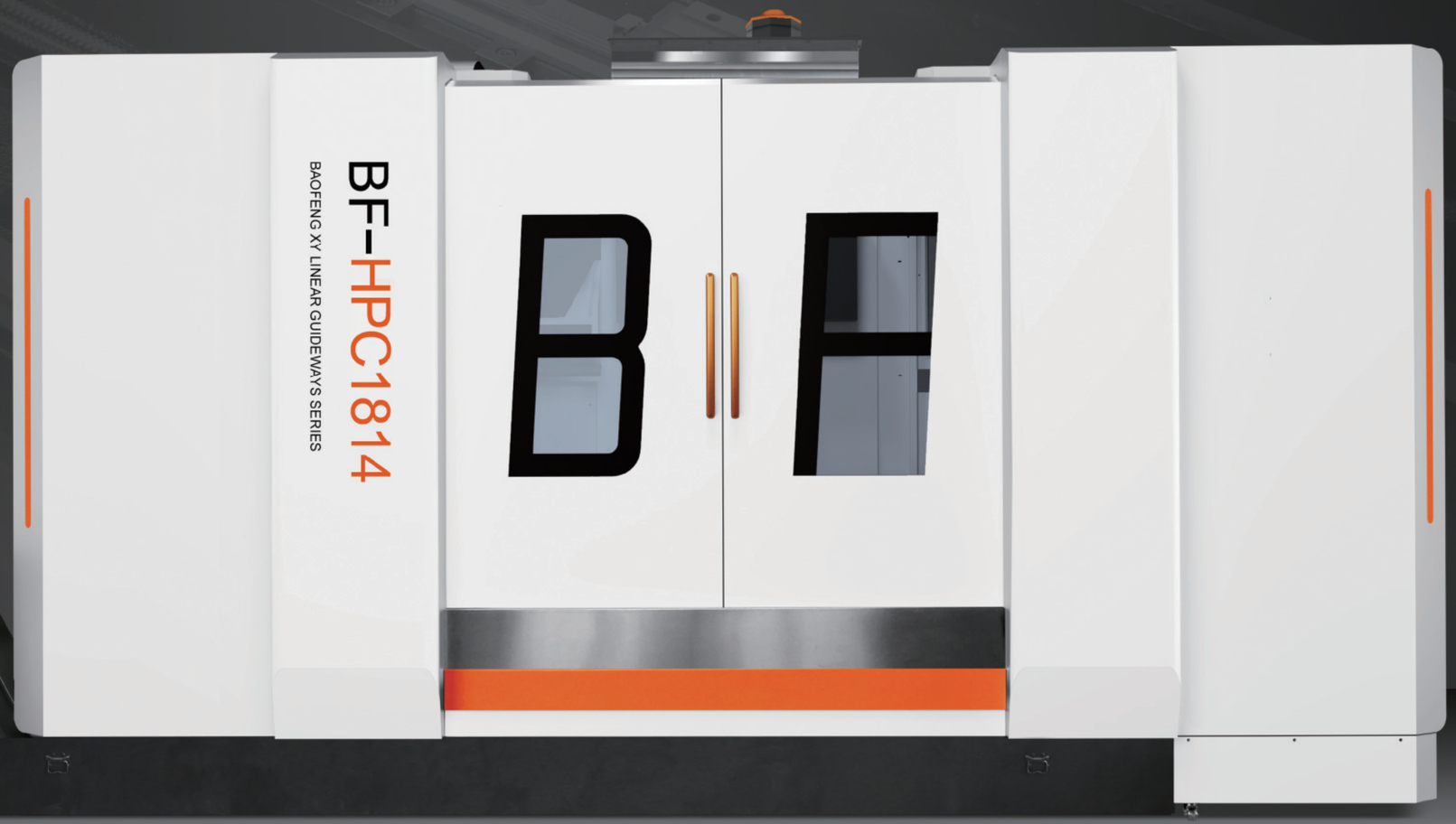
Standard configuration


Fanuc


Mitsubishi

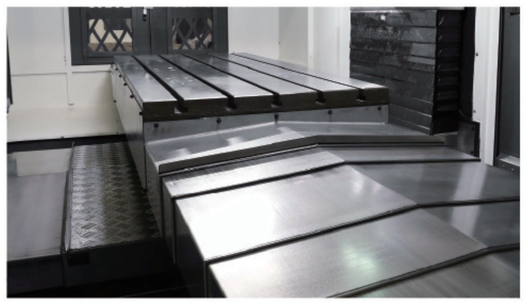

HNC


Siemens



High Speed Heavy Cutting Horizontal Machining Center

Workpiece blowing system	Spindle temperature control system	Guideway protection cover	Working light
Cutting fluid cooling system	Handwheel	Full enclosed metal cover	Dual screw+chain type chip conveyor
Automatic centralized lubrication system	Heat exchanger	3 color alarm light	



DCV Series High Speed High Precision Double Column Machining Center

▶ Double column machining center with 3-linear guideways has mature manufacturing capabilities and advanced technical skills. Its high rigidity structure combined with powerful spindle cutting performance,it can meet high-speed and high-precision processing of various heavy parts and molds, and is widely used in general mechanical parts, processing of automobile molds, stamping molds, transportation molds, precision mechanical parts, large electronic product casings, etc.

Z axis 4 linear guideway

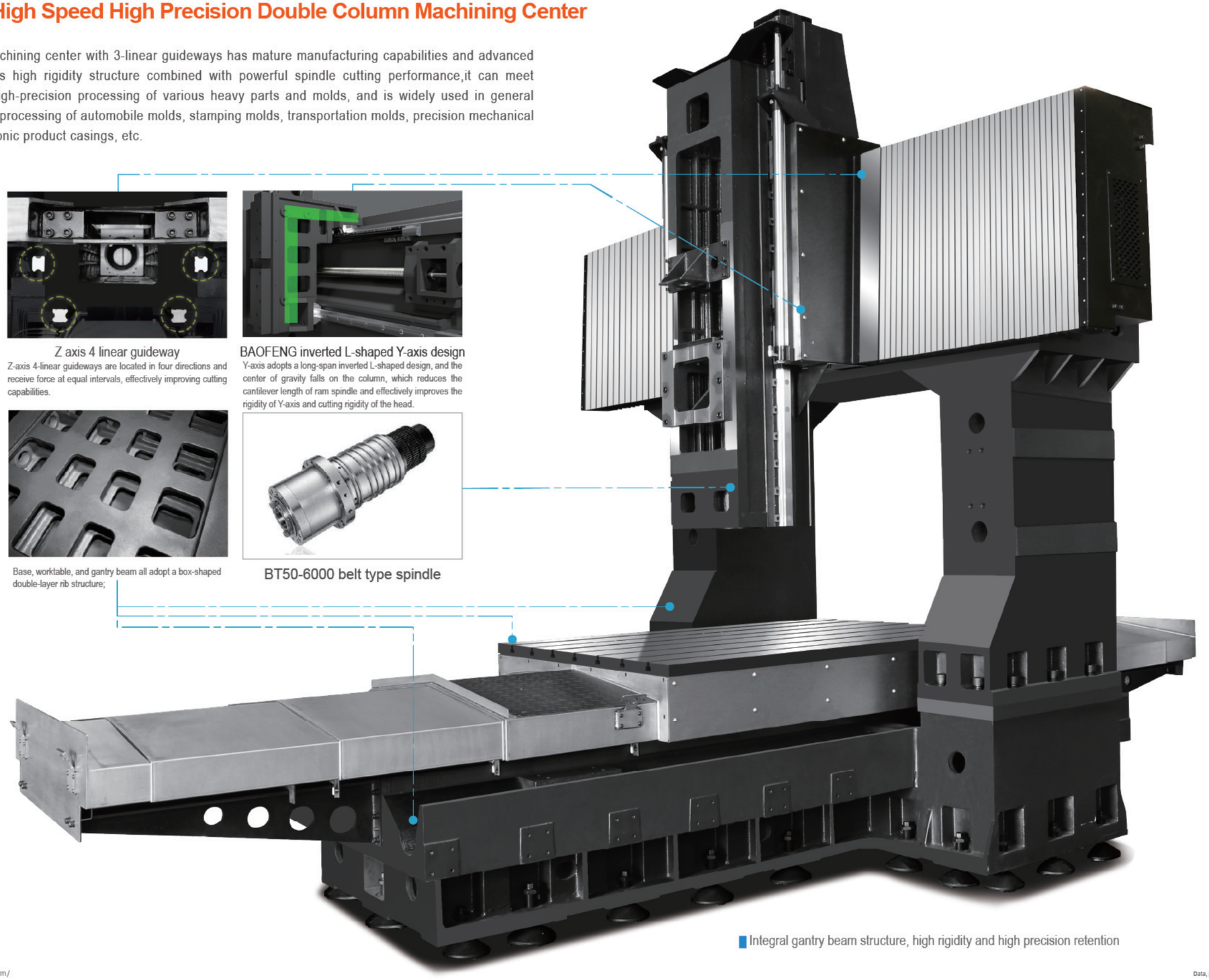
Z-axis 4-linear guideways are located in four directions and receive force at equal intervals, effectively improving cutting capabilities.

BAOFENG inverted L-shaped Y-axis design

Y-axis adopts a long-span inverted L-shaped design, and the center of gravity falls on the column, which reduces the cantilever length of ram spindle and effectively improves the rigidity of Y-axis and cutting rigidity of the head.

Base, worktable, and gantry beam all adopt a box-shaped double-layer rib structure;

BT50-6000 belt type spindle



Integral gantry beam structure, high rigidity and high precision retention

Standard

BT50-6000rpm belt type spindle

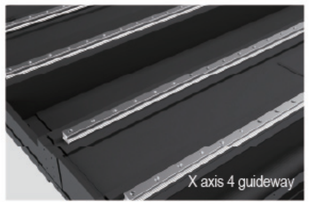
Optional

1 .BBT50-10000 rpm direct drive spindle

2 .HSK-A63-18000 rpm built-in spindle

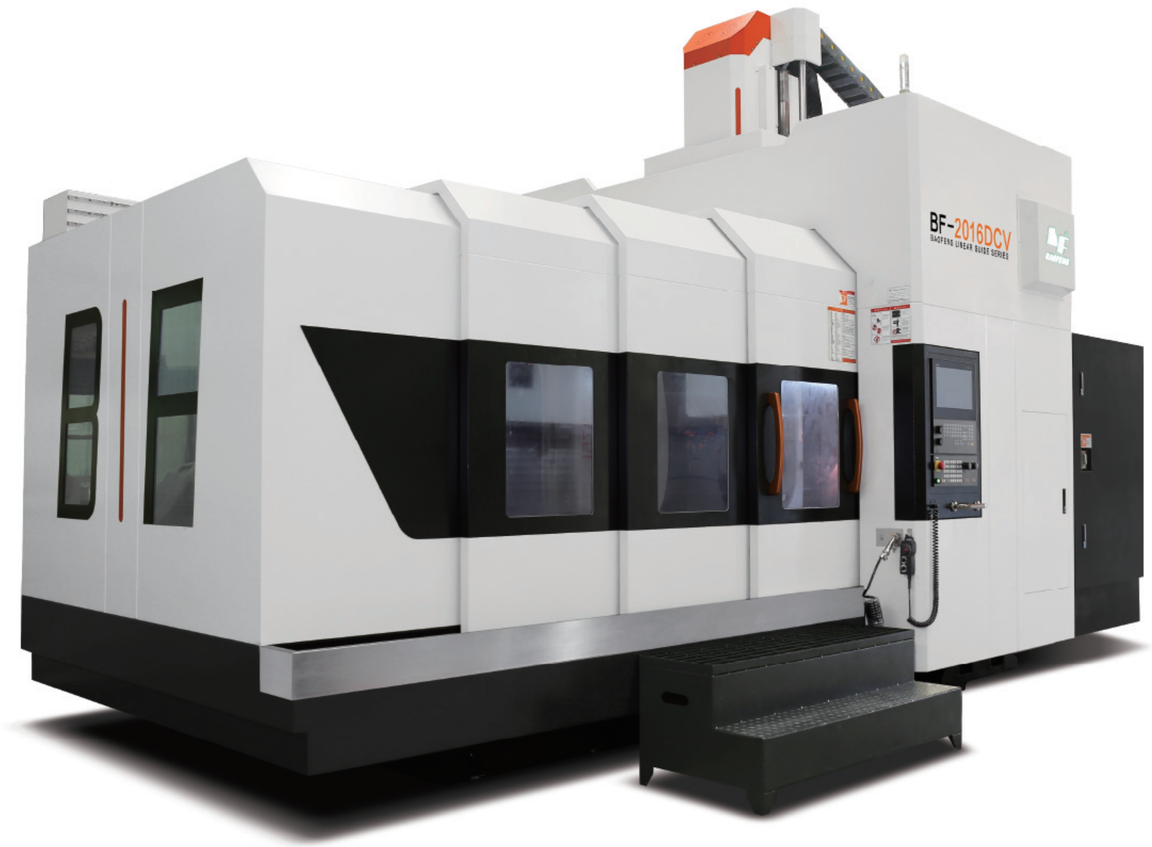
DCV Series High Speed High Precision Double Column Machining Center

The machine design adopts large-span support to achieve the best anti-deformation structure of casting.
The body design has undergone FEA to ensure stability and rigidity.

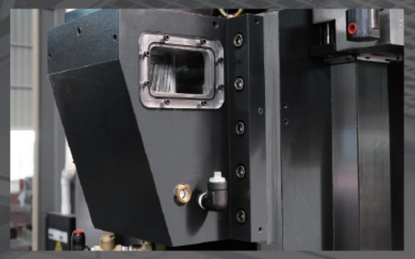


- Workpiece blowing system
- Cutting fluid cooling system
- Automatic centralized lubrication system
- Spindle temperature control system
- Handwheel
- Heat exchanger
- Dual screw+chain type chip conveyor
- Guideway protection cover
- Standard metal cover
- 3 color alarm light
- Working light

Standard metal cover

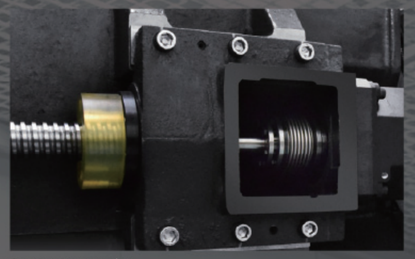


Full enclosed metal cover



High-Low Gear Head

Spindle can equipped with an optional high-low gear head



3-axis servo motor

Direct drive structure, avoiding the reversal acceleration disturbance caused by synchronous belt drive.

- Workpiece blowing system
- Cutting fluid cooling system
- Automatic centralized lubrcation system
- Spindle teperature control system
- Handwheel
- Heat exchanger
- Dual screw+chain type chip conveyor
- Guideway protection cover
- Standard metal cover
- 3 color alarm light
- Working light

BF-4026DCL

BAOFENG XY LINEAR GUIDE SERIES

DCL Series High Speed Heavy Cutting Double Column Machining Center

▶ L-series double column machine retains X/Y axis of high-speed and high-precision processing performance, Z-axis is fully adopted box way, and the guide way surface is properly widened and lengthened, so that the ability on heavy cutting has been significantly improved.

The gantry beam is designed with mouse cage type, which is Baofeng's unique patent, compared with traditional beam structure, the compression resistance and deformation resistance are greatly improved, and the structural defect of Y-axis sag caused by the load and self-weight of the long-span gantry beam is solved.

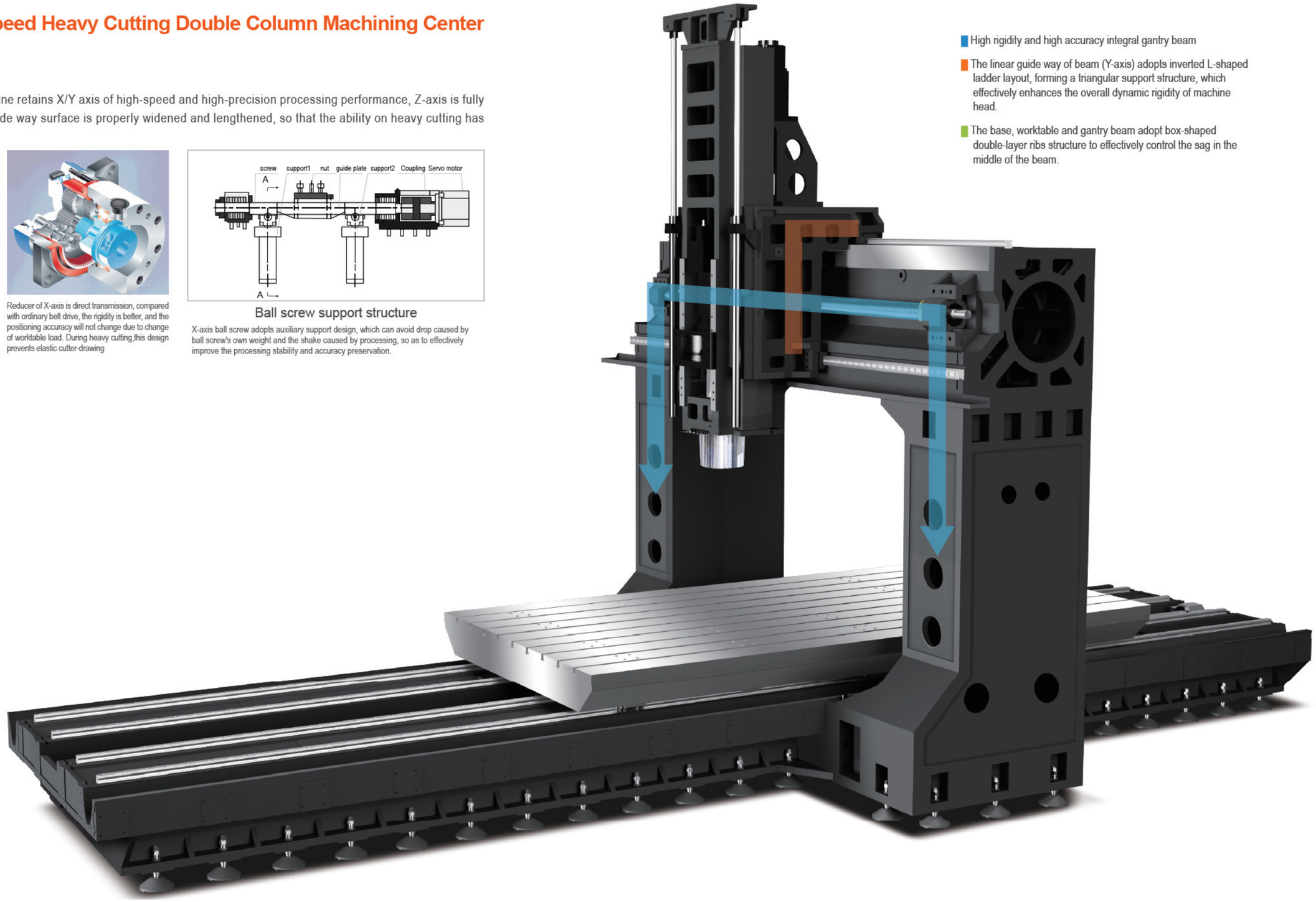
Reducer of X-axis is direct transmission, compared with ordinary belt drive, the rigidity is better, and the positioning accuracy will not change due to change of worktable load. During heavy cutting,this design prevents elastic cutter-drawing

Ball screw support structure

X-axis ball screw adopts auxiliary support design, which can avoid drop caused by ball screw's own weight and the shake caused by processing, so as to effectively improve the processing stability and accuracy preservation.

HT300

High strength resin sand gray cast iron



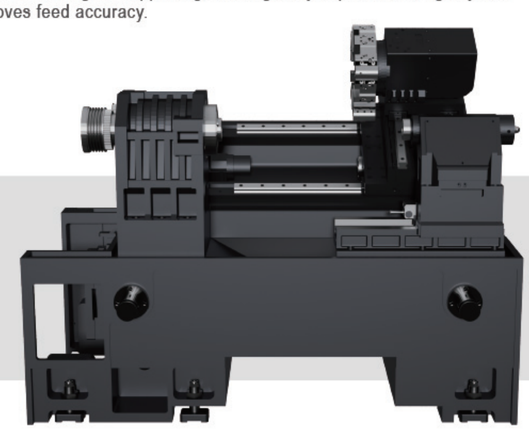
- High rigidity and high accuracy integral gantry beam
- The linear guide way of beam (Y-axis) adopts inverted L-shaped ladder layout, forming a triangular support structure, which effectively enhances the overall dynamic rigidity of machine head.
- The base, worktable and gantry beam adopt box-shaped double-layer ribs structure to effectively control the sag in the middle of the beam.

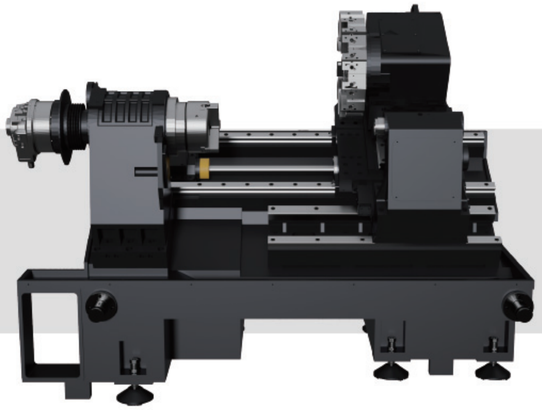
Slant-bed CNC Lathe Machine

Outer circle, boring, conical surface, ring groove, cutting, forming surface, end face, etc.
Equipped with power turret can realize drilling, tapping and other milling processes, finishing turn-milling composite processing.

- Integrated rigid structure.
- Using high-rigidity turret with accurate indexing to ensure machining accuracy.
- Adopting 30° slant bed structure, and the bed guide way adopts oil-water separation structure to reduce environmental pollution.
- Spindle is supported by high-precision double-row cylindrical roller bearings and high-speed precision angular contact bearings, driven by servo motor and synchronous belt.
- X/Z axis feed system adopts pre-stretched ballscrew, with special bearing for supporting, which greatly improves the rigidity and thermal deformation resistance of ballscrew, and greatly improves feed accuracy.

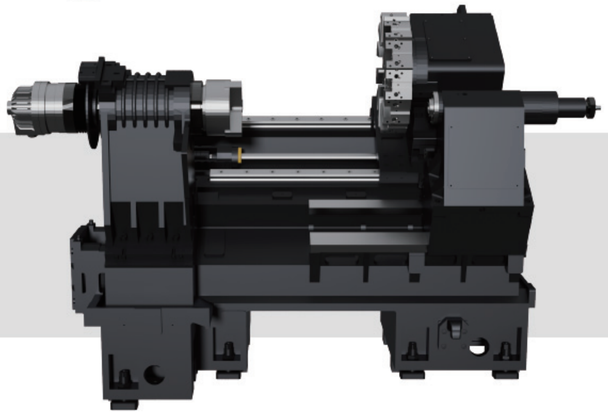
BF-1600P





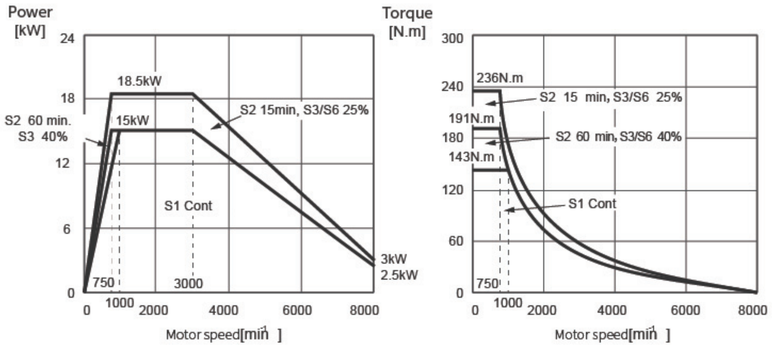
BF-2100P

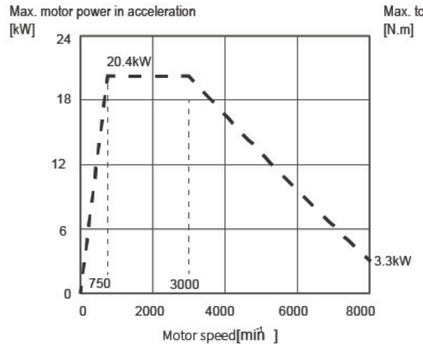
BF-2000P

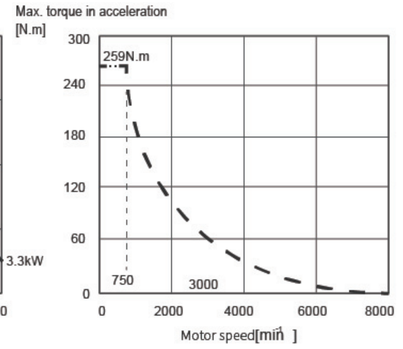


Spindle motor power/torque

▶ Spindle motor power 18.5kW, max. speed 8000r/min, max. torque 236Nm, can meet the requirement of high-rigidity cutting very well.







Adjacent tool change time	0.3S
Farmost tool change time	0.6S

Faster tool-change, higher efficiency

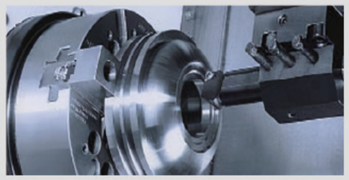
▶ The tool change speed is fast, and shortest T-T time reaching within 1 second, which improves processing efficiency.

▶ Different millings can be carried out continuously based on the processing of lathe. Processing such as drilling, tapping, and milling keyway on circumference of the disc can also be completed at one time using the power turret.

Applications:

Axis components processing

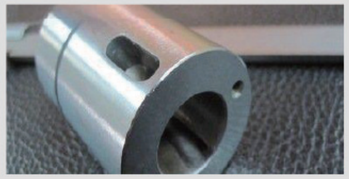
U Drill punch hole processing



Lathe boring

External thread processing

Circumference drilling & tapping



Circumference keyslot processing

Slant-bed CNC Lathe Machine

Specifications	Unit	BF-1600P	BF-2100P	BF-2000P
Item				
Chuck Max.rotation Dia.	mm	460	400	650
Max.machining length	mm	380	500(option:600)	500
Max.turnining Dia.	mm	350	350	490
Max.rotation Dia.on sliding plate	mm	200	300	400
Spindle				
Spindle head type		A2-5 (6")	A2-6 (8")	
Bar diameter	mm	42	52	
Max.spindle speed	rpm/min	4000		
Spindle maximum output torque	Nm	191	143/191/236	
Spindle motor power	kW	11/15	15/18.5	
CNC controller				
Standard controller		Fanuc Oi-TF 3B		
Axis				
X axis travel	mm	436	445	505
Z axis travel	mm	440	501	525
X feed motor power	kW	1.8	3.0	3.0
Z feed motor power	kW	1.8	3.0	3.0
X axis driver type		Direct drive		
Z axis driver type		Direct drive		
Rapid feed rate	m/min	20	24	
Tailstock				
Tailstock sleeve taper		MT4	MT5	
Tailstock sleeve Dia.	mm	65	80	
Tailstock sleeve travel	mm	80		
Tailstock travel	mm	300	435	
Turret				
Standard turret		12T Servo Turret		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	3629	3274	3880
(Width)	mm	1760	1692	2002
(Height)	mm	1837	1850	2048
Machine weight	kg	3400	5000	5000

A series high-speed and high-precision 5-axis machine

Item	Unit	BF-350A5	BF-500A5	BF-630A5	BF-800A5
Travel					
X axis travel	mm	625	600	900	1100
Y axis travel	mm	900	1080	1050	1300
Z axis travel	mm	450	500	650	
A/B axis angle range	mm	/	-110--40°	-120--120°	
C axis angle range	mm	360°			
Spindle nose to table surface		100-550	100-610	120-770	120-770
Distance from table surface to A axis rotation center		25	0	60	100
Worktable					
Rotary table Dia.	mm	Φ350	Φ500	Φ630	Φ800
Max.worktable load	kg	100	350	850	850
Dimension of T-slot		12H8	12H8	14H7	14H8
Reference aperture		Φ45H7	Φ50H7		Φ50H8
CNC controller					
Standard controller (Siemens)		Fanuc/siemens/Syntec	Hei denhain/siemens/HNC		Hei denhain/siemens
Spindle					
Drive type		Built-in	Built-in		
Spindle speed	rpm	17000	15000		
Spindle taper		HSK-A63	HSK-A63		
Spindle motor power (Siemens)	kW	20	30		
Spindle motor torque (Siemens)	Nm	48	105		
5 axes					
X/Y/Z/A/C axis motor power (Siemens)	kW	2.9/2.9/3.55/3.5/6	2.9/2.9/3.55/3.1/1.6	6.4/6.4/.6.4/8.1*2/6.3	6.4/6.4/.6.4/9.6*2/9
X/Y/Z/A/C axis motor torque (Siemens)	Nm	22/22/22/557/300	22/22/22/543/363	40/40/40/1290*2/600	40/40/40/1539*2/860
X/Y/Z/A/C axis feed rate(Siemens)	m/min	30/30/30	24/24/24	20/20/20	
A axis rotation speed	rpm	30	30	20	
C-axis rotation speed	rpm	60	60	60	
Machine					
Air pressure	kg/cm²	6-7bar			
Machine dimension (Length)	mm	2995	3250	5200	5800
(Width)	mm	3960	3500	3800	3900
(Height)	mm	3531	3300	4100	
Machine weight	kg	8000	9500	18000	21500

SUP series high-speed and high-precision machining center

Item	Unit	BF-500SUP	BF-800SUP	BF-1300SUP	BF-1800SUP
Travel					
X axis travel	mm	500	800	1300	1800
Y axis travel	mm	400	550	1100	1400
Z axis travel	mm	220	500	700	
Spindle nose to table surface	mm	170-390	160-660	130-830	150-850
Width of gantry	mm	620	950	1200	1430
Worktable					
Table size	mm	500X400	850X550	1450x1000	1800x1200
Max.worktable load	kg	300	800	1800	4000
Dimension of T-slot	mm	3-14X125	5-18X100	7-18x150	7-18x160
CNC controller					
Standard controller (FANUC)		/	0i-MF Plus		
Standard controller (Mitsubishi)		/	M80A		M80A
Standard controller (Siemens)		828D SW28x			
Spindle					
Drive type		Buit-in			
Spindle speed	rpm	30000	17000	15000	18000
Spindle taper		HSK-E40	HSK-A63		
Spindle motor power (FANUC)	kW	/	11/13.75	18.5/23	18.5/23
Spindle motor torque (FANUC)	Nm	/	48/60	90	90
Spindle motor power (Mitsubishi)	kW	/	11/13.75	18.5/23	
Spindle motor torque (Mitsubishi)	Nm	/	48/60	90/113	
Spindle motor power (Siemens)	kW	11	20/25	30	17
Spindle motor torque (Siemens)	NM	8.5	48/60	105	162
Axis					
Axis feed motor-X/Y/Z(FANUC)	kW	/	3.0/3.0/3.0	3.0/3.0/3.0	
Axis torque-X/Y/Z(FANUC)	kW	/	27/68	36/90	36/90
Axis feed motor-X/Y/Z(Mitsubishi)	kW	/	3.0/3.0/3.0	4.5/4.5/4.5	7/7/7
Axis torque-X/Y/Z(Mitsubishi)	Nm	/	22.5/64	37.2/90	45/130
Axis feed motor-X/Y/Z(Siemens)	Nm	/	2.9/2.9/3.55	6.4/5.5/5.5	7.7/7.7/7.7
Axis torque-X/Y/Z(Siemens)	Nm	Axis linear motor XY:5180Nm Z:3450NM	22/66	40/30/30	48
Rapid feed rate-X/Y/Z(FANUC)	m/min	/	30/30/30		15/15/12
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	/	30/30/30		15/15/12
Rapid feed rate-X/Y/Z(Siemens)	m/min	60/60/60	30/30/30		15/15/15
Machine					
Air pressure	kg/cm²	6-7bar			
Machine dimension (Length)	mm	2000	3600	4450	5650
(Width)	mm	2180	2400	3600	3385
(Height)	mm	2650	3000	3950	4030
Machine weight	kg	4500	6500	12500	18000

SVP series high-speed and high-precision machining center

Item	Unit	BF-600SVP	BF-800SVP	BF-1100SVP	BF-1300SVP
Travel					
X axis travel	mm	600	800	1150	1300
Y axis travel	mm	500	550	660	700
Z axis travel	mm	500	550	600	700
Spindle nose to table surface	mm	130-630	130-680	120-720	155-855
Spindle center to column	mm	517	587	690	735
Worktable					
Table size	mm	720X450	900X550	1250X650	1450X700
Max.worktable load	kg	400	800	1100	1500
Dimension of T-slot	mm	5-18X80	5-18x100	6-18X100	5-18x152
CNC controller					
Standard controller (FANUC)		0i-MF 3B			
Standard controller (Mitsubishi)		M80A			
Standard controller (Siemens)		828D SW28x			
Spindle					
Drive type		Direct Drive			
Spindle speed	rpm	12000			
Spindle taper		BBT40			
Spindle motor power (FANUC)	kW	11/15	15/18.5		
Spindle motor torque (FANUC)	Nm	52.5/95.5/118	95.5/118/159/191		
Spindle motor power (Mitsubishi)	kW	52.5/95.5/118	15/18.5		
Spindle motor torque (Mitsubishi)	Nm	22.5/64	77.8/106/118		
Spindle motor power (Siemens)	kW	9	15		
Spindle motor torque (Siemens)	Nm	57/135	96/143/240		
Axis					
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0			
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0	3.0/3.0/4.5		
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55	5.5/5.5/5.5		
Axis torque-X/Y/Z(FANUC)	Nm	20/45	20/45		
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64	XY:22.5/64--Z:37.2/90		
Axis torque-X/Y/Z(Siemens)	Nm	22/66	30		30/90
Rapid feed rate-X/Y/Z(FANUC)	m/min	30/30/30	30/30/30		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	30/30/30	30/30/30		
Rapid feed rate-X/Y/Z(Siemens)	m/min	30/30/30	24/24/24	30/30/30	24/24/24
Machine					
Air pressure	kg/cm²	6-7bar			
Machine dimension (Length)	mm	2850	2600	3360	3300
(Width)	mm	2400	2700	3320	3950
(Height)	mm	2900	3100	3200	3300
Machine weight	kg	4500	6000	8000	10500

HP series linear way machining center

Item	Unit	BF-HP6	BF-HP8	BF-850HP	BF-HP10	BF-HP11	BF-1150HP	BF-HP13
Travel								
X axis travel	mm	600	800	850	1000	1150	1150	1300
Y axis travel	mm	500	550	550	600	650		750
Z axis travel	mm	500	550	800	600	650	800	700
Spindle nose to table surface	mm	130-630	130-680	130-930	150-750	130-780	130-930	130-830
Spindle center to column	mm	517	563.5		628	662	645	762
Worktable								
Table size	mm	720×450	900X500		1100x600	1250x650	1200X600	1450x700
Max.worktable load	kg	400	600		700	900		1000
Dimension of T-slot	mm	5-18x80	5-18x100			6-18x100	5-18x100	5-18x152
CNC controller								
Standard controller (FANUC)		0i-MF 3B						
Standard controller (Mitsubishi)		M80						
Standard controller (Siemens)		828D SW28x						
Spindle								
Drive type		Direct Drive						
Spindle speed	rpm	12000						
Spindle taper		BBT40						
Spindle motor power (FANUC)	kW	11/15						15/18.5
Spindle motor torque (FANUC)	Nm	52.5/95.5/118						95.5/159/191
Spindle motor power (Mitsubishi)	kW	11/15						15/18.5/22
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5/118						77.8/118/142
Spindle motor power (Siemens)	kW	9/17.1						15
Spindle motor torque (Siemens)	Nm	57/108/135						96
Axis								
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0						
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0						3.0/3.0/4.5
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55						5.5/5.5/5.5
Axis torque-X/Y/Z(FANUC)	Nm	20/45						XY:20/45 Z:36/90
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64						22.5/64
Axis torque-X/Y/Z(Siemens)	Nm	22/66						30
Rapid feed rate-X/Y/Z(FANUC)	m/min	48/48/48			36/36/36			
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	48/48/48			36/36/36			
Rapid feed rate-X/Y/Z(Siemens)	m/min	48/48/48			36/36/36			
Machine								
Air pressure	kg/cm²	6-7bar						
Machine dimension (Length)	mm	2200	2596	2600	2730	3140	3170	3500
(Width)	mm	2288	2230	2270	2568	3085	3200	2782
(Height)	mm	2821	3010	3257	3204	3127	3300	3155
Machine weight	kg	4500	5100	5800	6800	7000	7500	8000

EL series XY axis linear way machining center

Item	Unit	BF-800EL	BF-1200EL	BF-1375EL	BF-1375ELP	BF-1500EL	BF-1800EL
Travel							
X axis travel	mm	800	1200	1300		1500	1800
Y axis travel	mm	500	700	750		800	
Z axis travel	mm	500	700				
Spindle nose to table surface	mm	160-660	110-810	130-830	130-830	130-830	130-830
Spindle center to column	mm	650	680	815		820	860
Worktable							
Table size	mm	1000x500	1300x700	1450x700		1700x800	1800x800
Max.worktable load	kg	550	1000	1500		1500	2000
Dimension of T-slot	mm	5-18x90	5-18x120	5-18x152		5-22x135	5-18x160
CNC controller							
Standard controller (FANUC)		0i-MF Plus					
Standard controller (Mitsubishi)		M80B			M80A	M80B	M80A
Standard controller (Siemens)		828D					
Spindle							
Drive type		Belt drive			Gear box	Belt drive	Gear box
Spindle speed	rpm	8000		6000			
Spindle taper		BT40		BT50			
Spindle motor power (FANUC)	kW	11/15		15/18.5			
Spindle motor torque (FANUC)	Nm	105/140/191		143/191/236			
Spindle motor power (Mitsubishi)	kW	11/15		15/18.5			
Spindle motor torque (Mitsubishi)	Nm	70/95.5/118		143/191/236			
Spindle motor power (Siemens)	kW	11/15		17			
Spindle motor torque (Siemens)	Nm	70		162			
Axis							
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0					
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0		4.5/4.5/4.5		7.0/4.5/4.5	
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55		6.4/6.4/6.4			
Axis torque-X/Y/Z(FANUC)	Nm	20/45		36/90			
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64		37.2/90		X:45/130 YZ:37.2/90	
Axis torque-X/Y/Z(Siemens)	Nm	22/66		40/120			
Rapid feed rate-X/Y/Z(FANUC)	m/min	30/30/18		18/18/15			
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	30/30/18		18/18/15			
Rapid feed rate-X/Y/Z(Siemens)	m/min	30/30/18		18/18/15			
Machine							
Air pressure	kg/cm²	6-7bar					
Machine dimension (Length)	mm	2700	3560	3700	3700	5240	4700
(Width)	mm	2870	2760	4000	4000	3225	4000
(Height)	mm	2780	3300	3300	3300	3380	3500
Machine weight	kg	5000	8000	10000	11000	11000	13000

EB series box way machining center

Item	Unit	BF-800EL	BF-850EC	BF-1200EB	BF-1500EB
Travel					
X axis travel	mm	800		1200	1500
Y axis travel	mm	500		700	800
Z axis travel	mm	500	700		
Spindle nose to table surface	mm	130-630	110-810		160-860
Spindle center to column	mm	510	575	735	810
Worktable					
Table size	mm	1050x500	1000x530	1300x650	1700x800
Max.worktable load	kg	800	1000	1300	1800
Dimension of T-slot	mm	5-18x90	5-18x100	/	5-22x135
CNC controller					
Standard controller (FANUC)		0i-MF Plus			
Standard controller (Mitsubishi)		M80			
Standard controller (Siemens)		828D			
Spindle					
Drive type		Belt drive			
Spindle speed	rpm	8000			
Spindle taper		BT40		BT50	
Spindle motor power (FANUC)	kW	11/15		15/18.5	
Spindle motor torque (FANUC)	Nm	105/140/191		143/191/236	
Spindle motor power (Mitsubishi)	kW	11/15		15/18.5	
Spindle motor torque (Mitsubishi)	Nm	70/95.5/118		143/191/236	
Spindle motor power (Siemens)	kW	11/15		/	
Spindle motor torque (Siemens)	Nm	70		/	
Axis					
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0			
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0		4.5/4.5/4.5	
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55		/	
Axis torque-X/Y/Z(FANUC)	Nm	20/45		36/90	
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64		37.2/90	
Axis torque-X/Y/Z(Siemens)	Nm	22/66		/	
Rapid feed rate-X/Y/Z(FANUC)	m/min	15/15/12			
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	15/15/12			
Rapid feed rate-X/Y/Z(Siemens)	m/min	15/15/12		/	
Machine					
Air pressure	kg/cm²	6-7bar			
Machine dimension (Length)	mm	2600	2800	3500	4300
(Width)	mm	2240	2400	3600	3800
(Height)	mm	2740	2800	3100	3350
Machine weight	kg	5000	6000	8000	11000

PT series drilling and tapping machine

Item	Unit	BF-PT600	BF-PT700	BF-PT1000
Travel				
X axis travel	mm	600	700	1000
Y axis travel	mm	420	420	500
Z axis travel	mm	300	300	330
Spindle nose to table surface	mm	150-450	135-435	150-480
Spindle center to column	mm	447	447	523
Worktable				
Table size	mm	700x420	800x420	1100x500
Max.worktable load	kg	400	450	500
Dimension of T-slot	mm	3-14x135		5-18x100
CNC controller				
Standard controller (FANUC)		0i-MF Plus		
Standard controller (Mitsubishi)		M80		
Standard controller (Siemens)		828D		
Spindle				
Drive type		Direct Drive		
Spindle speed	rpm	20000		
Spindle taper		BT30		
Spindle motor power (FANUC)	kW	5.5		
Spindle motor torque (FANUC)	Nm	14.1/17.5/28.7		
Spindle motor power (Mitsubishi)	kW	5.5		
Spindle motor torque (Mitsubishi)	Nm	14.1/17.5		
Spindle motor power (Siemens)	kW	4.8		
Spindle motor torque (Siemens)	Nm	10		
Axis				
Axis feed motor-X/Y/Z(FANUC)	kW	2.5/2.5/2.7		2.5/2.5/2.7
Axis feed motor-X/Y/Z(Mitsubishi)	kW	1.5/1.5/3.0		2.0/2.0/3.0
Axis feed motor-X/Y/Z(Siemens)	kW	2.85/2.85/3.55		2.85/2.85/3.55
Axis torque-X/Y/Z(FANUC)	Nm	XY:8/32 Z:12/46		XY:8/32 Z:12/46
Axis torque-X/Y/Z(Mitsubishi)	Nm	XY:9/42 Z:22.5/64	XY:9/42 Z:22.5/64	XY:13.7/47 Z:22.5/64
Axis torque-X/Y/Z(Siemens)	Nm	XY:12/36 Z:22/66	XY:8/32 Z:12/46	/
Rapid feed rate-X/Y/Z(FANUC)	m/min	48/48/48		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	48/48/48		
Rapid feed rate-X/Y/Z(Siemens)	m/min	48/48/48		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	2150	2085	2680
(Width)	mm	2480	2505	2385
(Height)	mm	2309	2336	2295
Machine weight	kg	3200	3300	4800

E series engraving and milling machine

Item	Unit	BF-600TP	BF-600E	BF-800E
Travel				
X axis travel	mm	600		800
Y axis travel	mm	420	500	700
Z axis travel	mm	500	250	350
Spindle nose to table surface	mm	150-650	80-330	40-390
Spindle center to column	mm	447	/	/
Worktable				
Table size	mm	700X420	600x500	800x700
Max.worktable load	kg	400		500
Dimension of T-slot	mm	3-14x135	5-14x100	5-18x115
CNC controller				
Standard controller		0i-MF Plus(Fanuc)	22MA(Syntec)	
Standard controller (Mitsubishi)		M80B	E80	
Spindle				
Drive type		Direct Drive	Built-in	
Spindle speed	rpm	20000	24000	
Spindle taper		BBT30	ER32	
Spindle motor power	kW	5.5(Fanuc)	7.5	
Spindle motor torque	Nm	14.1/17.5/28.7(Fanuc)	8	
Spindle motor power (Mitsubishi)	kW	5.5	7.5-24000 rpm	
Spindle motor torque (Mitsubishi)	Nm	14.1/17.5	8	
Axis				
Axis feed motor-X/Y/Z	kW	2.5/2.5/2.7(FANUC)	1.1/1.1/1.1(Syntec)	1.7/1.7/1.7(Syntec)
Axis feed motor-X/Y/Z(Mitsubishi)	kW	1.5/1.5/3.0	1.5/1.5/1.5	1.5/1.5/1.5
Axis torque-X/Y/Z	Nm	XY:8/32 Z:12/46(FANUC)	5.39/14.2(Syntec)	8.34/23.3(Syntec)
Axis torque-X/Y/Z(Mitsubishi)	Nm	XY：9/42 Z：22.5/64	4.8/16.7	7.2/25.1
Rapid feed rate-X/Y/Z	m/min	48/48/36	12/12/12	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	154/154/303	12/12/12	
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	2150	2030	2440
(Width)	mm	2480	2375	1930
(Height)	mm	2507	2550	2400
Machine weight	kg	3500	3500	4000

Linear way horizontal machining center

Item	Unit	BF-HPC50	BF-HPC6363	BF-HPC80	BF-HPC8080	BF-HPC1000
Travel						
X axis travel	mm	1100	1300		1500	2500
Y axis travel	mm	735	850	900	1450	1600
Z axis travel	mm	600	950	1100	1200	1400
Spindle nose to table surface	mm	150-750	130-1080	220-1320	200-1600	280-1680
Spindle center to column	mm	0-735	50-900	0-900	0-1450	200-1800
Worktable						
Rotary table size	mm	500X500	630X630	800X800		1000X1000
Max.worktable load	kg	600	1200	2000		5000
Dimension of T-slot	mm	5-18X100	–	7-18X100	–	9-22X100
CNC controller						
Standard controller (FANUC)		0i-MF Plus				
Standard controller (Mitsubishi)		M80B				
Standard controller (Siemens)		828D				
Spindle						
Drive type		Direct Drive	Belt Drive		Gear Drive	
Spindle speed	rpm	12000	6000			
Spindle taper		BBT40	BT50-190-45°		BT50-45°	BT50
Spindle motor power (FANUC)	kW	11/15	15/18.5		22/26	
Spindle motor torque (FANUC)	Nm	52.5/95.5/118	143/191/236		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	11/15/18.5	15/18.5		22/26	
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5/118	143/191/236		140/166/223	
Spindle motor power (Siemens)	kW	9/17.1/21.2	17/32.3/42.4		22	22/41.8/59.7
Spindle motor torque (Siemens)	Nm	57/108/135	162/308/405		140	140/266/380
Axis						
Axis feed motor-X/Y/Z/B(FANUC)	kW	3.0/3.0/3.0/3.0	3.0/3.0/3.0/3.0	3.0/3.0/3.0/3.0	7.0/4.0/7.0	7.0/7.0/6.0/4.0
Axis feed motor-X/Y/Z/B(Mitsubishi)	kW	3.0/3.0/3.0/2.0	7.0/7.0/7.0/3.0/3.0	7.0/7.0/7.0/3.0	7/7/7/3/3	7.0/7.0/7.0/3.0
Axis feed motor-X/Y/Z/B(Siemens)	kW	2.9/3.55/2.9/3.05	7.0/7.0/7.0/2.9/2.9	7.7/7.7/7.7/2.9	7.7/7.7/7.7/2.9/2.9	7.7/7.7/7.7/3.14
Axis torque-X/Y/Z(FANUC)	Nm	20/45	36/90	36/90	/	XZ:30/83 Y:38/130 B:22/64
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64	XYZ:15/130	B:22.5/64	/	45/130
Axis torque-X/Y/Z(Siemens)	Nm	22/66	XYZ:45/130	B:22.5/64	/	48/150
Rapid feed rate-X/Y/Z(FANUC)	m/min	36/36/36	24/24/24			12/12/12
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	36/36/36	24/24/24			12/12/12
Rapid feed rate-X/Y/Z(Siemens)	m/min	36/36/36	24/24/24			15/15/15
Machine						
Air pressure	kg/cm²	6-7bar				
Machine dimension (Length)	mm	3500	6890	6480	8000	6900
(Width)	mm	4600	4300	3520	4625	5750
(Height)	mm	3100	3450	3370	4075	4330
Machine weight	kg	7500	16000	16500	16000	28000

Heavy cutting horizontal machining center

Item	Unit	BF-HPC1290	BF-HPC1814
Travel			
X axis travel	mm	1200	1800
Y axis travel	mm	900	1400
Z axis travel	mm	700	1200
Spindle nose to table surface	mm	150-850	200-1400
Spindle center to column	mm	70-970	160-1560
Worktable			
Table size	mm	1360x900	2000x900
Max.worktable load	kg	1000	1600
Dimension of T-slot	mm	5-18x122	5-22x165
CNC controller			
Standard controller (FANUC)		0i-MF Plus	
Standard controller (Mitsubishi)		M80	
Standard controller (Siemens)		/	
Spindle			
Drive type		Belt drive	
Spindle speed	rpm	8000	6000
Spindle taper		BT50	
Spindle motor power (FANUC)	kW	15/18.5	
Spindle motor torque (FANUC)	Nm	143/191/236	143/191/236
Spindle motor power (Mitsubishi)	kW	15/18.5	
Spindle motor torque (Mitsubishi)	Nm	143/191/236	
Spindle motor power (Siemens)	kW	/	/
Spindle motor torque (Siemens)	Nm	/	/
Axis			
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0	
Axis torque-X/Y/Z(FANUC)	kW	36/90	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	4.5/4.5/4.5	
Axis torque-X/Y/Z(Mitsubishi)	Nm	37.2/90	
Axis feed motor-X/Y/Z(Siemens)	Nm	6.4/6.4/6.4	
Axis torque-X/Y/Z(Siemens)	Nm	40/120	
Rapid feed rate-X/Y/Z(FANUC)	m/min	15/15/15	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	15/15/15	
Rapid feed rate-X/Y/Z(Siemens)	m/min	15/15/15	
Machine			
Air pressure	kg/cm²	6-7bar	
Machine dimension (Length)	mm	3850	4950
(Width)	mm	3350	4125
(Height)	mm	2730	3195
Machine weight	kg	10500	15000

DCV Series High Speed High Precision Double Column Machining Center

Item	Unit	1613DCV	2513DCV	1814DCV	2016DCV	3016DCV	2518DCV	3023DCV	4023DCV	3026DCV	4026DCV	5026DCV	6026DCV	4029DCV	5029DCV	6029DCV	6032DCV	8032DCV	6038DCV	8038DCV
Travel																				
X axis travel	mm	1600	2400	1800	2200	3200	2700	3200	4200	3200	4200	5200	6200	4200	5200	6200	6200	8200	6100	8100
Y axis travel	mm	1400		1400	1700		1900	2600		2600			2600	3200			3900		3800	
Z axis travel	mm	600		700	800		800	1000		1000				1000			1250		1250	
Spindle nose to table surface	mm	180-780		150-850	260-1060		150-950	236-1236		236-1236				236-1236			530-1780	600-1850	400-1650	
Gantry width	mm	1400		1400	1600		1800	2300		2600				2850			3200		3850	
Worktable																				
Table size	mm	1650X1100	2500X1100	1800x1200	2200x1300	3000x1300	2700x1500	3000x1800	4000x1800	3000x2200	4000x2200	5000x2200	6000x2200	4000x2400	5000x2400	6000x2400	6000x2600	8000x2600	6000X3200	8000X3200
Max.worktable load	kg	3000	4000	4000	5000	6000	8000	8000	10000	12000	15000	16000	18000	15000	16000	18000	20000	25000	22000	28000
Dimension of T-slot	mm	7-18X150		7-18x160	7-22x190		8-22x180	10-22x180		11-22x200				12-26x200			13-22X200		16-22X200	
CNC controller																				
Standard controller (FANUC)		0i-MF Plus		0i-MF Plus	0i-MF Plus		0i-MF Plus	0i-MF Plus		0i-MF Plus				0i-MF Plus			0i-MF Plus		0i-MF Plus	
Standard controller (Mitsubishi)		M80		M80	M80		M80	M80		M80				M80			M80		M80	
Standard controller (Siemens)		828D		828D	828D		828D	828D		828D				828D			828D		828D	
Spindle																				
Drive type		Direct drive		Direct drive	Direct drive		Direct drive	Direct drive		Direct drive				Direct drive			Direct drive		Direct drive	
Spindle speed	rpm	12000		10000	10000		10000	10000		10000				10000			10000		10000	
Spindle taper		BBT40-45°		BBT50-45°	BBT50-45°		BBT50-45°	BBT50-45°		BBT50-45°				BBT50-45°			BBT50-45°		BBT50-45°	
Spindle motor power (FANUC)	kW	15/18.5		15/18.5	15/18.5		15/18.5	22/26		22/26				22/26			22/26		22/26	
Spindle motor torque (FANUC)	Nm	95.5/118/159/191		143/191/236	143/191/236		143/191/236	140/166/223		140/166/223				140/166/223			140/166/223		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	15/18.5		15/18.5	15/18.5		15/18.5	22/26		22/26				22			22/26/35		22/26/35	
Spindle motor torque (Mitsubishi)	Nm	77.8/106/118		143/191/236	143/191/236		143/191/236	140/166/223		140/166/223				140/166/223			140/166/223		140/166/223	
Spindle motor power (Siemens)	kW	9		17	17		17	22		22				22			22		22	
Spindle motor torque (Siemens)	Nm	57/108/135		162	162		162	140		140				140			140		140	
Axis																				
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0		3.0/3.0/3.0	3.0/3.0/3.0		3.0/3.0/3.0	6.0/7.0/7.0		6.0/7.0/7.0				6.0/7.0/7.0			6.0/7.0/7.0		6.0/7.0/7.0	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/4.5	4.5/4.5/4.5	7.0/7.0/7.0	7.0/7.0/7.0		7.0/7.0/7.0	7.0/7.0/7.0		7.0/7.0/7.0				9.0/7.0/7.0			9.0/7.0/7.0		9.0/7.0/7.0	
Axis feed motor-X/Y/Z(Siemens)	kW	6.4/2.9/3.55		7.7/7.7/7.7	7.7/7.7/7.7		7.7/7.7/7.7	7.7/7.7/7.7		7.7/7.7/7.7				7.7/7.7/7.7			7.7/7.7/7.7		7.7/7.7/7.7	
Axis torque-X/Y/Z(FANUC)	Nm	X:36/90 YZ:20/45		36/90	36/90		36/90	X:38/130 YZ:30/83		X:38/130 YZ:30/83				X:38/130 YZ:30/83			X:38/130 YZ:30/83		X:38/130 YZ:30/83	
Axis torque-X/Y/Z(Mitsubishi)	Nm	XY:22.5/64 Z:37.2/90		45/130	45/130		45/130	49/152		49/152				49/152			49/152		45/130	
Axis torque-X/Y/Z(Siemens)	Nm	X:40/120 YZ:22/66	30/90	48/150	48/150		48/150	48/150		48				48			48		48	
Rapid feed rate-X/Y/Z(FANUC)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	12/12/12		12/12/12				12/12/12			15/15/12		10/10/10	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	12/12/12		12/12/12				12/12/12			15/15/12		10/10/10	
Rapid feed rate-X/Y/Z(Siemens)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	12/12/12		12/12/12				12/12/12			10/10/10		10/10/10	
Machine																				
Air pressure	kg/cm²	6-7bar		6-7bar	6-7bar		6-7bar	6-7bar		6-7bar				6-7bar			6-7bar		6-7bar	
Machine dimension (Length)	mm	5083	6900	5650	6370	8600	7670	8440	10540	8440	10540	12880	16000	10540	12880	15050	15000	19000	15000	19000
(Width)	mm	3555	3870	3385	4400	4310	4460	4960	4960	5260	4790	5300	5300	5220	5820	5920	6570		7200	
(Height)	mm	3285	3300	4030	4400	4380	4330	4400	4960	4960	4920	4925	5000	4920	4930	4995	6200		6200	
Machine weight	kg	13000	18000	16000	19000	22000	21000	30500	33500	32000	36500	41000	49000	38500	43500	48500	52000	60000	58000	68000

DCL Series High Speed Heavy Cutting Double Column Machining Center

Item	Unit	2016DCL	3016DCL	2518DCL	3023DCL	4023DCL	3026DCL	4026DCL	5026DCL	6026DCL	4029DCL	5029DCL	6029DCL	6032DCL	8032DCL	6038DCL	8038DCL
Travel																	
X axis travel	mm	2200	3200	2700	3200	4200	3200	4200	5200	6200	4200	5200	6200	6200	8200	6100	8100
Y axis travel	mm	1700		1900	2600		2600		2600		3200			3900		3800	
Z axis travel	mm	800		800	1000		1000		1000		1000			1250		1250	
Spindle nose to table surface	mm	250-1050		150-950	250-1250		250-1250		250-1250		250-1250			530-1780	600-1850	400-1650	
Gantry width	mm	1600		1800	2300		2600		2600		2850			3250		3850	
Worktable																	
Table size	mm	2200X1300	3000x1300	2700x1500	3000x1800	4000x1800	3000x2200	4000x2200	5000x2200	6000x2200	4000x2400	5000x2400	6000x2400	6000x2600	8000x2600	6000X3200	8000X3200
Max.worktable load	kg	5000	6000	8000	8000	10000	12000	15000	16000	18000	15000	16000	18000	20000	25000	22000	28000
Dimension of T-slot	mm	7-22x190		8-22x180	10-22x180		11-22x200		11-22x200		12-26x200			13-22x200		16-22X200	
CNC controller																	
Standard controller (FANUC)		0i-MF Plus		0i-MF Plus	0i-MF Plus		0i-MF Plus		0i-MF Plus		0i-MF Plus			0i-MF Plus		0i-MF Plus	
Standard controller (Mitsubishi)		M80B		M80B	M80B		M80B		M80B		M80B			M80B		M80B	
Standard controller (Siemens)		828D		828D	828D		828D		828D		828D			828D		828D	
Spindle																	
Drive type		Belt drive		Belt drive	Belt drive		Belt drive		Belt drive		Belt drive			Belt drive		Belt drive	
Spindle speed	rpm	6000		6000	6000		6000		6000		6000			6000		6000	
Spindle taper		BT50		BT50	BT50		BT50		BT50		BT50			BT50		BT50	
Spindle motor power (FANUC)	kW	15/18.5		15/18.5	22/26		22/26		22/26		22/26			22/26		22/26	
Spindle motor torque (FANUC)	Nm	143/191/236		143/191/236	140/166/223		140/166/223		140/166/223		140/166/223			140/166/223		140/166/223	
Spindle motor power (Mitsubishi)	kW	15/18.5		15/18.5	22/26		22/26		22/26		22/26			22/26		22/26	
Spindle motor torque (Mitsubishi)	Nm	143/191/236		140/166/223	140/166/223		140/166/223		140/166/223		140/166/223			140/166/223		140/166/223	
Spindle motor power (Siemens)	kW	17		17	22		22		22		22			22		22	
Spindle motor torque (Siemens)	Nm	162		162	140		140		140		140			140		140	
Axis																	
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0		3.0/3.0/3.0	6.0/7.0/7.0		6.0/7.0/7.0		6.0/7.0/7.0		6.0/7.0/7.0			6.0/7.0/7.0		6.0/7.0/7.0	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	7.0/7.0/7.0		7.0/7.0/7.0	7.0/7.0/7.0		7.0/7.0/7.0		7.0/7.0/7.0		7.0/7.0/7.0	9.0/7.0/7.0		9.0/7.0/7.0		9.0/7.0/7.0	
Axis feed motor-X/Y/Z(Siemens)	kW	7.7/7.7/7.7		7.7/7.7/7.7	7.7/7.7/7.7		7.7/7.7/7.7		7.7/7.7/7.7		7.7/7.7/7.7			7.7/7.7/7.7		7.7/7.7/7.7	
Axis torque-X/Y/Z(FANUC)	Nm	36/90		36/90	X:38/130 YZ:30/83		X:38/130 YZ:30/83		X:38/130 YZ:30/83		X:38/130 YZ:30/83	X:28.6/85.8		X:38/130 YZ:30/83		X:38/130 YZ:30/83	
Axis torque-X/Y/Z(Mitsubishi)	Nm	45/130		45/130	45/130		45/130		45/130		45/130			45/130		45/130	
Axis torque-X/Y/Z(Siemens)	Nm	48		48	48		48		48		48			48		48	
Rapid feed rate-X/Y/Z(FANUC)	m/min	15/15/12		12/12/12	12/12/12		12/12/12		12/12/12		12/12/12			10/10/10		15/15/12	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	15/15/12		12/12/12	12/12/12		12/12/12		12/12/12		12/12/12			10/10/10		15/15/12	
Rapid feed rate-X/Y/Z(Siemens)	m/min	15/15/12		12/12/12	12/12/12		12/12/12		12/12/12		12/12/12			12/12/12		15/15/12	
Machine																	
Air pressure	kg/cm²	6-7bar		6-7bar	6-7bar		6-7bar		6-7bar		6-7bar			6-7bar		6-7bar	
Machine dimension (Length)	mm	6370	8600	7670	8440	10540	8440	10540	12880	16000	10540	12880	15050	15000	19000	15000	19000
(Width)	mm	4400	4310	4460	4960		5260	4790	5300	5300	5220	5820	5920	6570		7200	
(Height)	mm	4400	4380	4330	4400	4960	4960	4920	4925	5000	4920	4930	4995	6200		6200	
Machine weight	kg	19000	22000	21000	30500	33500	32000	36500	41000	53000	38500	43500	48500	52000	60000	58000	68000

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