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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Production base 1: No.63, Xinmalian Xintai Road, Dalang Town, Dongguan, China.

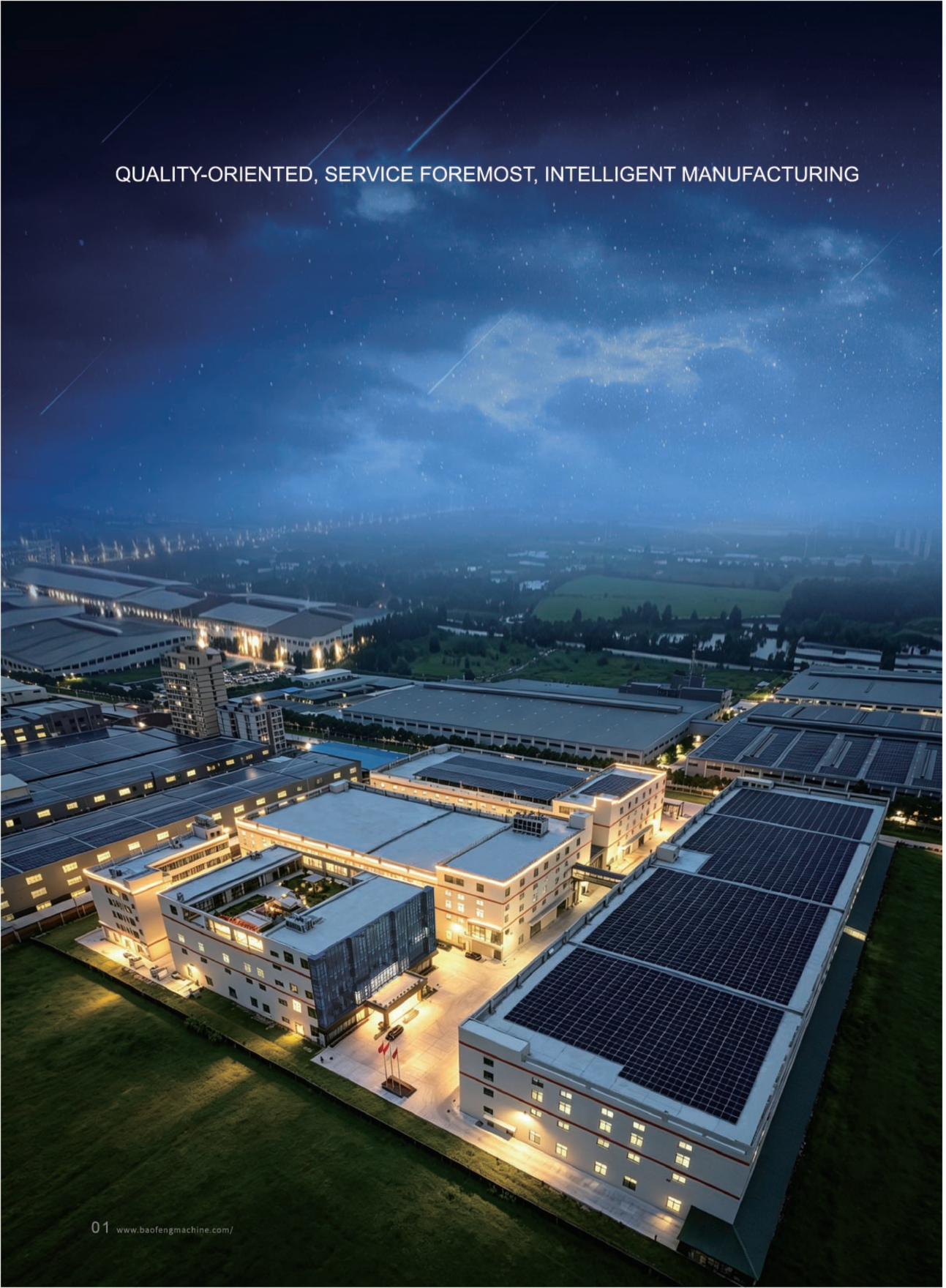
Production base 2: No.8, Caibian South 2nd Street, Dalang Town, Dongguan, China.

Production base 3: No. 333, Yangxi Avenue North, Yanghe Town, Gaoming District, Foshan City, Guangdong Province ,China.

Production base 4: No.68 Guanggu Avenue, Tieshan District, Huangshi City, Hubei Province, China.

Hongkong: Room B1, 2/F, Mei Hing Industrial Building, 16-18 Hing Yip Street, Kwun Tong, Kowloon, Hong Kong.

DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.



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5 **Product parameter** 47-61

Various model, strict test setting for parameters, to ensure the accuracy of machine.

6 **Production Bases and Sales Area** 62-62

3 production bases with 140000m² area, worldwide sales network and service network.

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
HP/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 high-precision vertical machining centers（SP and SVP series）, heavy-cutting VMC (EL series), and small gantry machines

·Foshan Base: Mainly used as a machine export workshop. Specializes in VMC(HP series), high-end machining centers(SUP series), and 5-axis machines.

·Huangshi Base: Specializes in HMC, gantry machines, 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,

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.

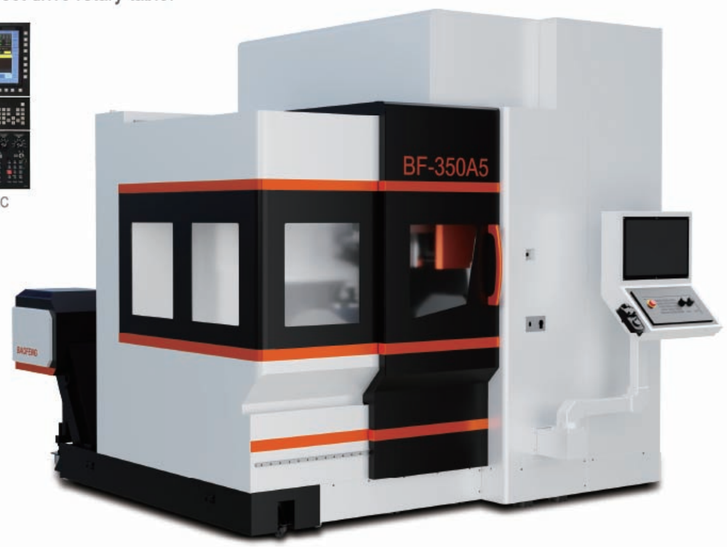
10 Machine packaging and shipping

A series High Speed High Precision 5 axis machine

- Full-support design over the rotary table travel achieves better frame stability, deformation resistance and rigidity than conventional cross-slide structures.
- Integral gantry beam structure boosts frame rigidity and torsion & bending resistance. A larger contact area with the base ensures stable machining.
- A axis and C axis is DDR torque motor direct drive rotary table.



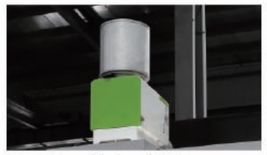
Siemens controller FANUC SYNTEC



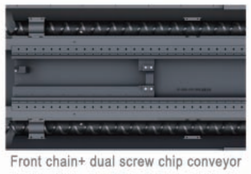
Standard Configuration



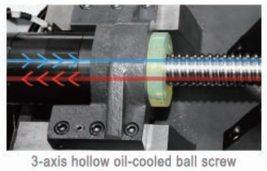
Contact-type tool setter



Oil mist collector



Front chain+ dual screw chip conveyor + Chassis flushing



3-axis hollow oil-cooled ball screw



- 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



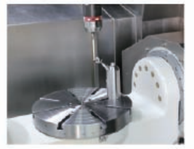
Standard Configuration



Torque motor



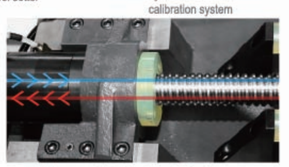
Laser tool setter



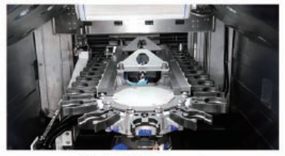
Workpiece's online measurement and rotary table center automatic calibration system



DD rotary table



Three-axis hollow oil-cooled ballscrew



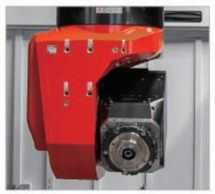
HSK-A63-32T Tool magazine



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



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/ ㎡





AC axis direct drive + Mechanical spindle dual head

Specification	Unit	BF-2618A5
Travel		
X axis(AC axis head 0 °/90°)	mm	3010/2120
Y axis(AC axis head 0 °/90°)	mm	1800/1120
Z axis	mm	1000
Spindle nose to table	mm	400-1400 (AC axis head 0°)
Spindle center to table		730-1730 (AC axis head 90°)
Gantry width	mm	2300
Worktable		
Table size	mm	2800x1800
T-slot	mm	8-22x237
Spindle		
Driving type		Built-in
Spindle speed	rpm	20000(MAX)
Spindle taper and specification		HSK-A63/T63
Spindle motor power	kW	45
Spindle motor torque	Nm	80/110

Controller		
Standard controller (Siemens)		SINUMERIK ONE
3 axis		
X/Y/Z motor power	kW	7.7*2/7.7/5.24*2
X/Y/Z motor torque	Nm	(48/150)*2/48/150/(30/108)*2
Machine		
Air pressure	kg/cm²	6~7bar
Machine dimension: Length	mm	6700
Width	mm	5500
Height	mm	5400
Weight(machine body)	kg	40000

HT300

High strength resin sand gray cast iron

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

SUP Series High Speed High Precision Machining Center

BF-800SUP

- Spindle box adopts slide block movement design to ensure consistent Z-axis axial rigidity and precision retention.
- X-axis adopts a gantry structure to maximize the reduction of spindle overhang while maintaining the machining range.
- Gantry guideways adopt a stepped layout, bringing the spindle centre of gravity closer to the gantry casting for smoother operation.
- High speed high power HSK A63 motor spindle with high torque, low vibration and high rigidity
- Standard hollow oil-cooled ball screws reduce screw thermal elongation errors effectively.



HT300

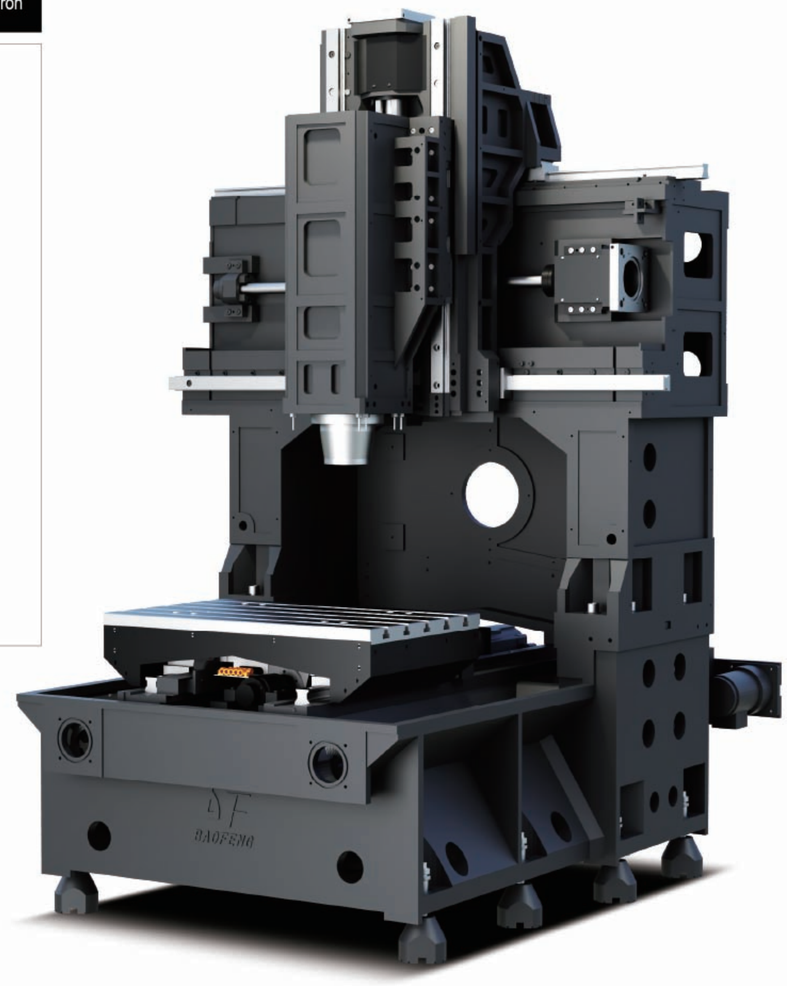
High strength resin sand gray cast iron

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

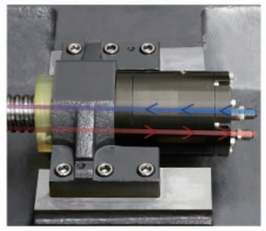
Optional:

- 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





Wentao HSK-A63-T40A probe



Hollow oil-cooled ball screw



HSK-A63-24T/32T Tool Magazine (Optional)



Electric cabinet air conditioner

SUP Series High Speed High Precision Machining Center

BF-1100SUP / BF-1300SUP

- Box-type base structure provides significantly higher machine stability, deformation resistance, and structural rigidity than conventional designs.
- Integrated gantry beam structure enhances overall machine rigidity and resistance to torsion and bending. The increased contact area between the gantry and base further improves structural stability, ensuring superior machining stability and precision.
- Standard hollow ball screws with oil cooling effectively minimize thermal elongation errors.

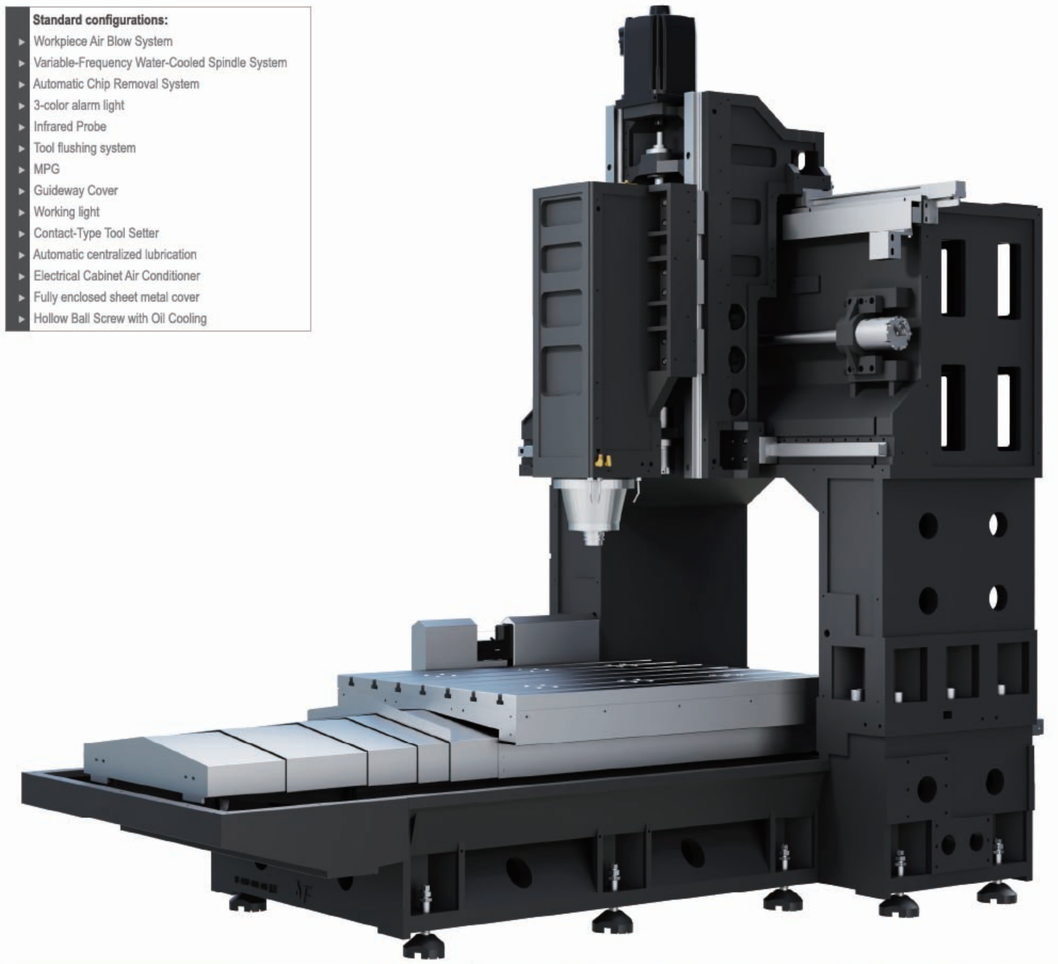


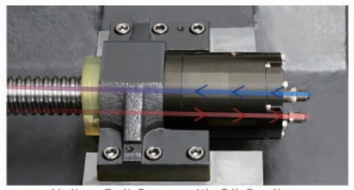
HT300

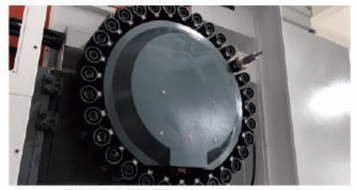
High strength resin sand gray cast iron

Standard configurations:

- Workpiece Air Blow System
- Variable-Frequency Water-Cooled Spindle System
- Automatic Chip Removal System
- 3-color alarm light
- Infrared Probe
- Tool flushing system
- MPG
- Guideway Cover
- Working light
- Contact-Type Tool Setter
- Automatic centralized lubrication
- Electrical Cabinet Air Conditioner
- Fully enclosed sheet metal cover
- Hollow Ball Screw with Oil Cooling




Hollow Ball Screw with Oil Cooling


HSK-A63-24T/32T Tool Magazine (Optional)


Electrical 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.



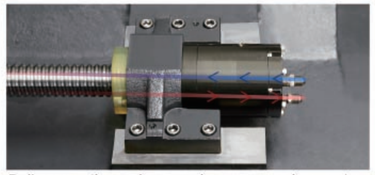
Standard configurations

Workpiece blowing system	Guideway cover	X/Y/Z axis motor constant-temperature control system
Automatic centralized lubrication system	Fully enclosed 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

BBT40-150-15000 Spindle	Coolant through spindle
HSK A63-150-15000 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)

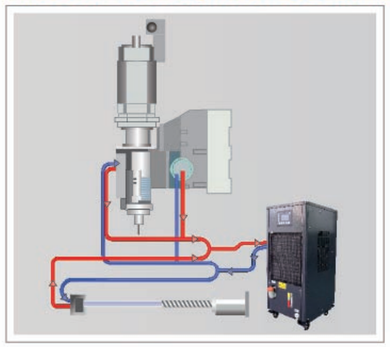
The large-diameter ball crew is hollow in design, and the constant-temperature cooling oil is sent to ball screw from the inner tube.
The tail end returns and discharges the heat generated by ballscrew movement. Long-term processing will not cause the center of workpiece to drift due to thermal expansion.



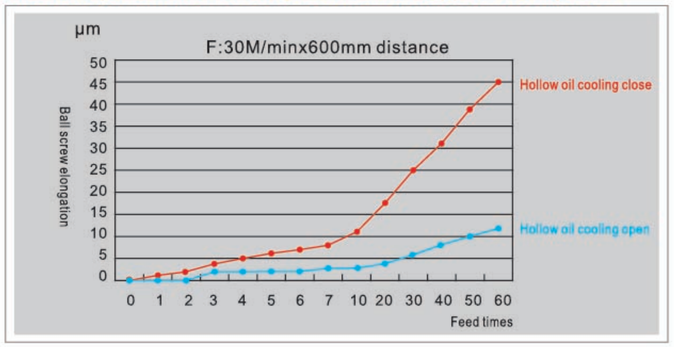
X/Z axis roller linear guideway with 3 sliders

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



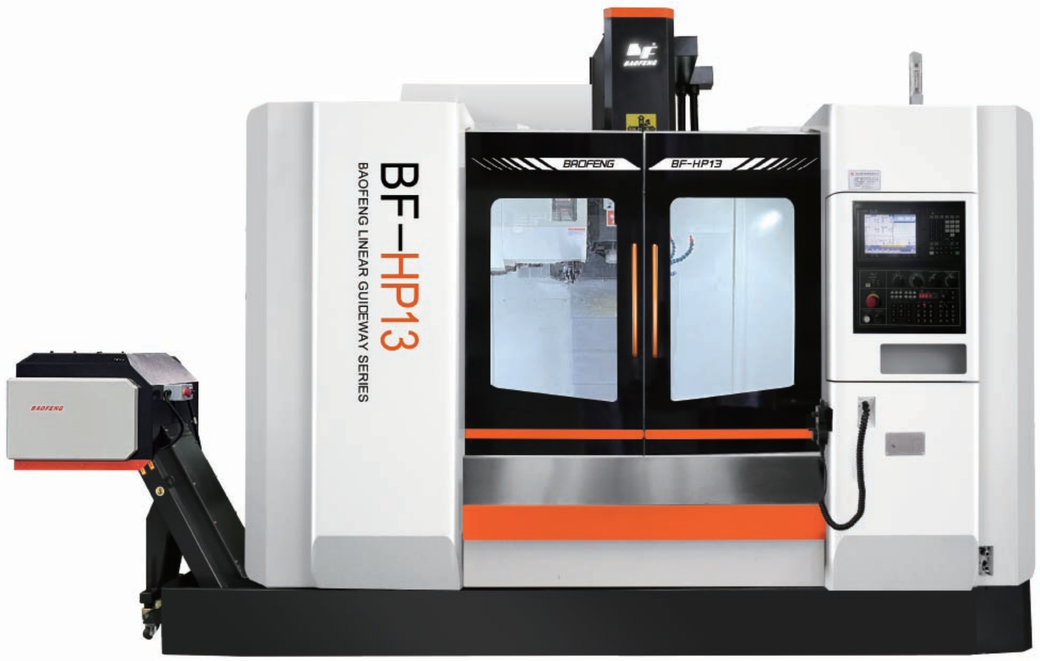
Spindle and 3 axis ball screw cooling device



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.

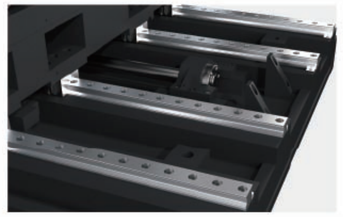




Larger and wider span herringbone design

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

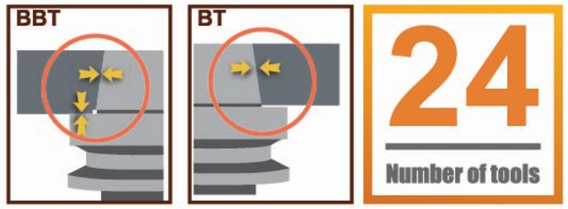
▸ Workpiece blowing system	▸ Heat exchanger	▸ Cutting fluid cooling system
▸ Tool Chip flushing system	▸ Guideway protection cover	▸ BT40-24T Arm type tool magazine
▸ Central lubrication system	▸ Full enclosed metal cover	▸ Rear chip flushing system
▸ Spindle oil coolant	▸ Alarming light	
▸ Handwheel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

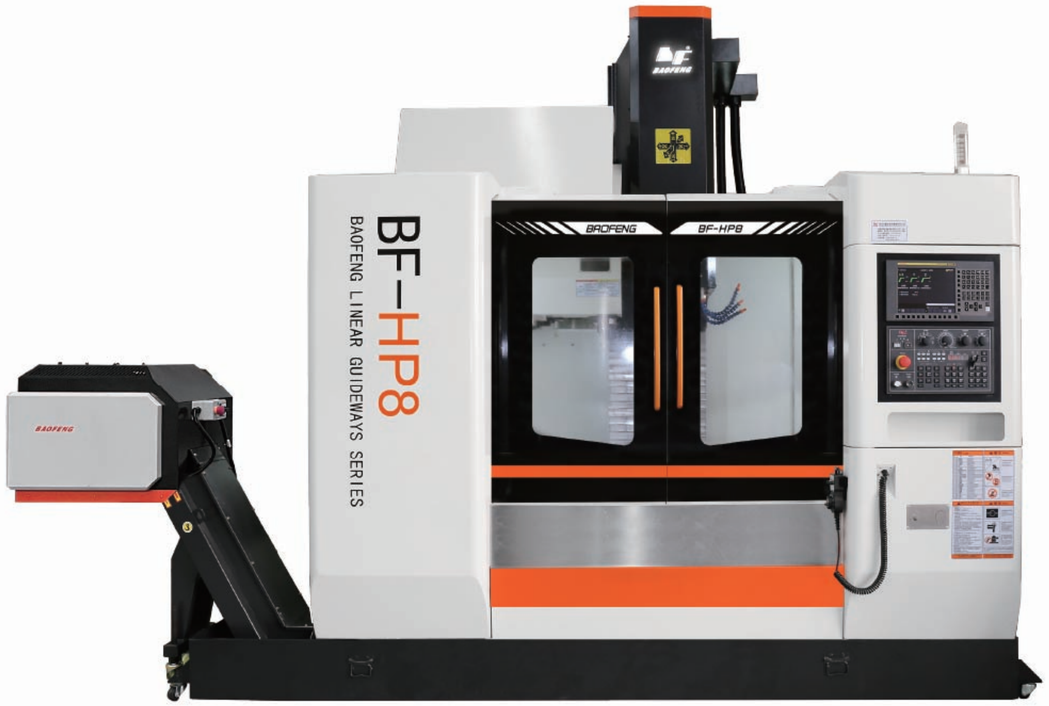
HP Series Linear Guideway Machining Center

- 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

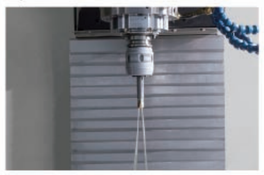
BBT is bonded on both sides, providing high rigidity and low vibration during high-speed rotation.



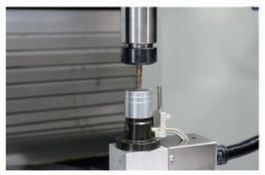
Standard configurations

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

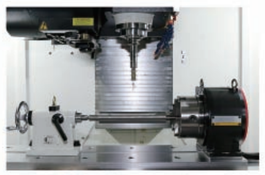
Option



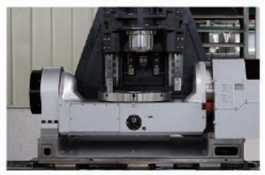
Coolant through spindle



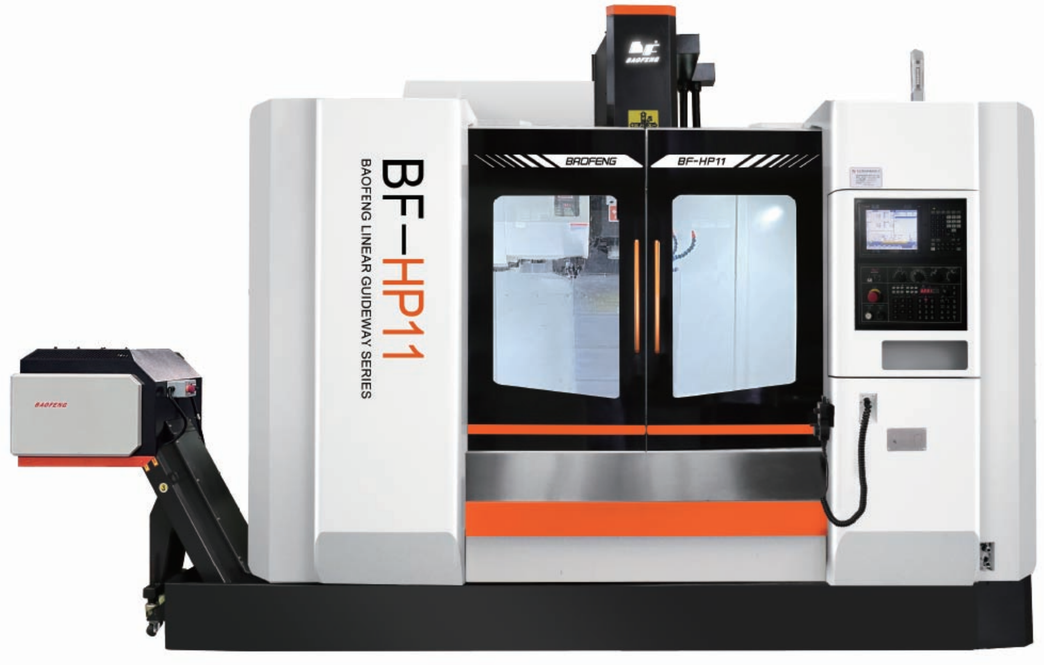
Tool setter



4th axis rotary table



5th axis rotary table



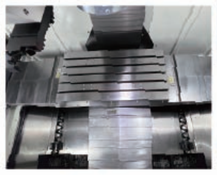
Standard configurations

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



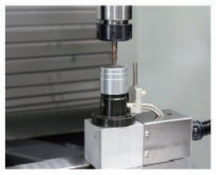
Dual screw



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

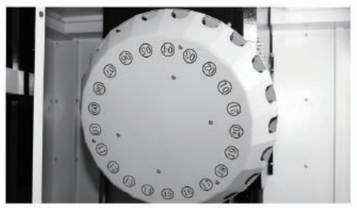


PT Series Drilling & Tapping Machining Center

- 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 1.6S.




Z-axis extended slider


Standard servo tool magazine for quick tool change(T~T): 1.6 seconds


Tool holder cleaning function before tool exchange

Standard configurations


FANUC


MITSUBISHI

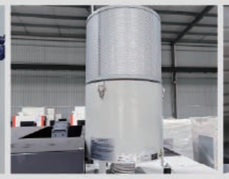

SYNTEC


SIEMENS

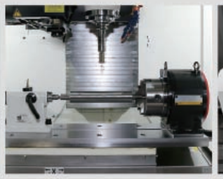
Workpiece blowing system	Spindle oil coolant	Spindle temperature control system	3 color alarm light
Cutting fluid cooling system	Handwheel	Guideway protection cover	Working light
Automatic centralized lubrication system	Heat exchanger	Full enclosed metal cover	BT30-21T servo tool magazine

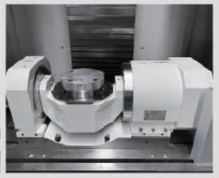
Optional


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



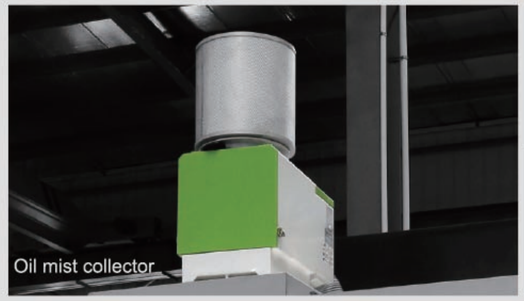
Tool Setter



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

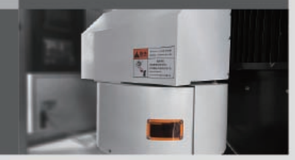


Oil mist collector



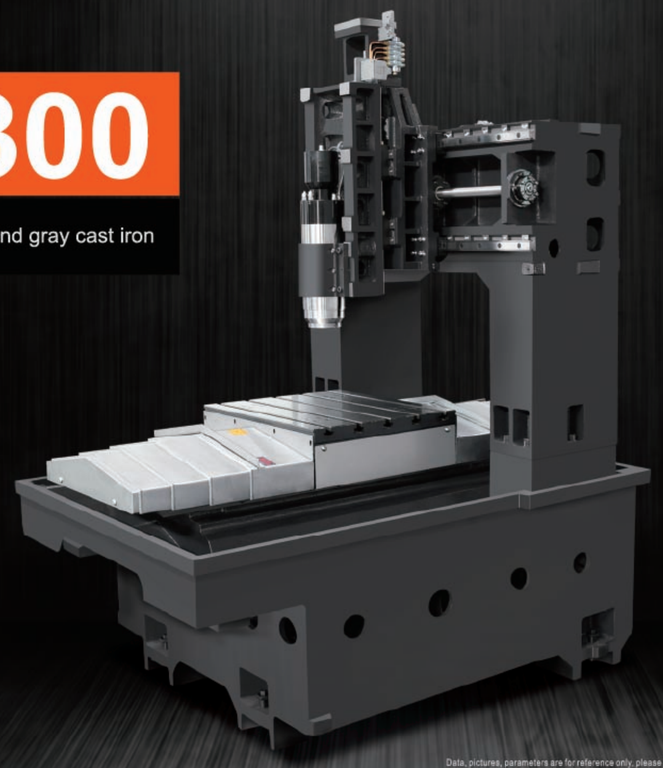
NBT30-12T umbrella type tool magazine

NBT30 pneumatic spindle



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

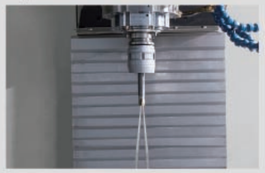


MITSUBISHI

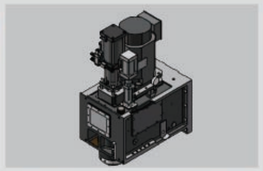


SIEMENS

Optional



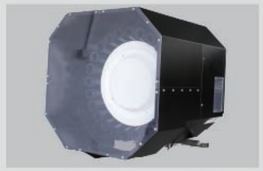
Coolant through spindle



BF Gearbox(optional for 1300EL and bigger machines)



Tool setter



Arm type tool magazine



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

EB Series XYZ Axis Box Way Machining Center

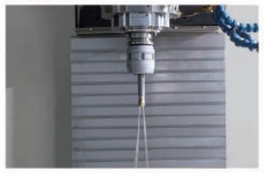
- ▸Adopt high strength Meehanite cast iron and high-temperature tempering and aging treatment to eliminate internal stress and ensure long-term maintenance of mechanical accuracy.
- ▸Worktable surface and 3-axis sliding guide rails are heat-treated by high-frequency, with a hardness as high as HRC50 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.
- ▸1200 and above models adopt Y-axis four-guideway design.

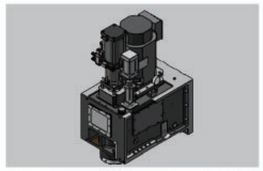


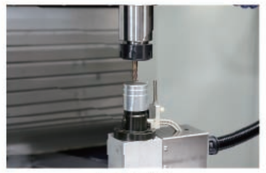
Standard configurations

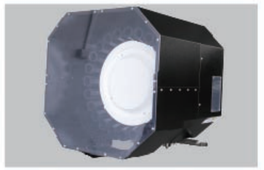
▸ Workpiece blowing systems	▸ Spindle oil coolant	▸ Guideway protection cover	▸ Working light
▸ Cutting fluid cooling system	▸ Handwheel	▸ Full enclosed metal cover	
▸ Central lubrication system	▸ Heat exchanger	▸ 3 color alarm light	

Optional

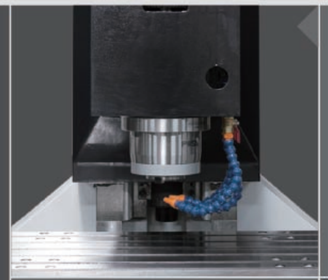

Coolant through spindle


BF Gearbox(optional for 1300EL and bigger machines)

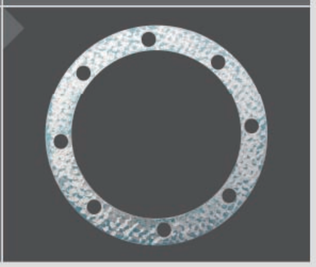

Tool setter


Arm type tool magazine


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

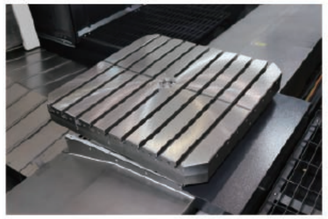

Machine head
Rib-reinforced and box-type machine head support the spindle stably.

Precision scraping process





High Speed High Precision Horizontal Machining Center



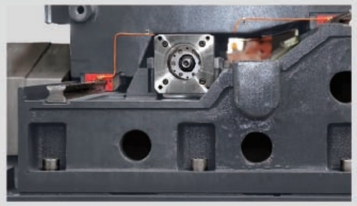
- ▸ T-base, full support structure for each axis.
- ▸ Large capacity tool magazine, high machining adaptability.
- ▸ Single worktable or dual pallet changer available as an option.
- ▸ Fully automatic chip removal to reduce cleaning downtime.
- ▸ Super wide range of processing, suitable for machining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



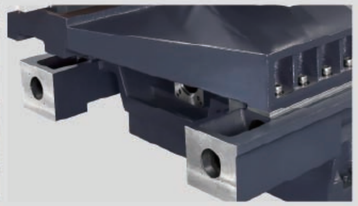
• Standard positive T-type structure. • Gear-driven high-torque spindle. • Large capacity tool magazine. • Dual pallets changer

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.



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

Standard configuration

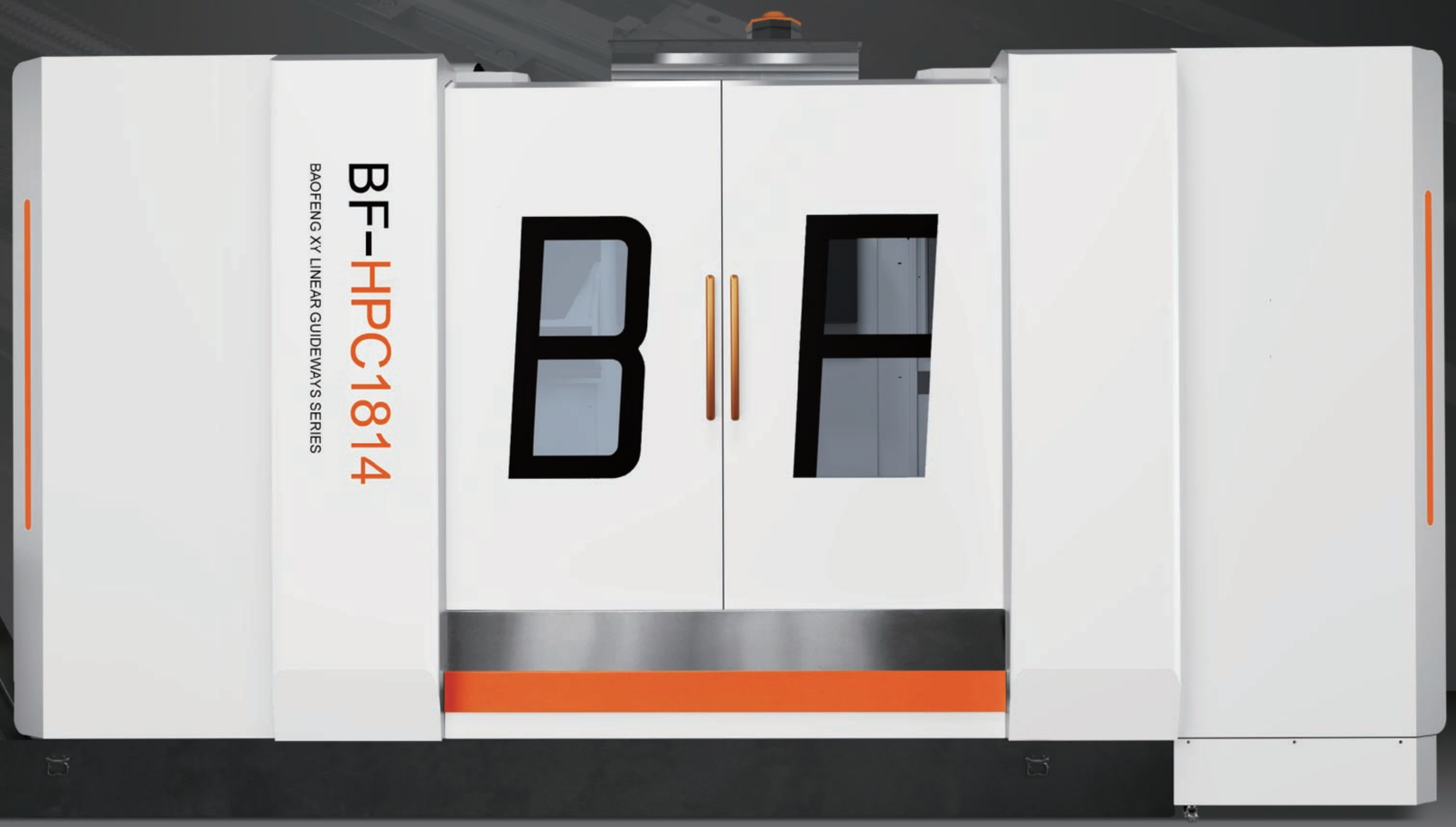

Fanuc


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	

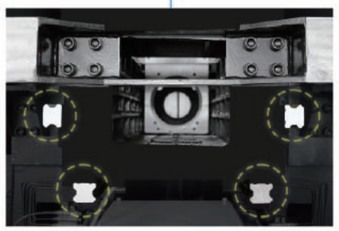




Data, pictures, parameters are for reference only, please refer to the final product details.

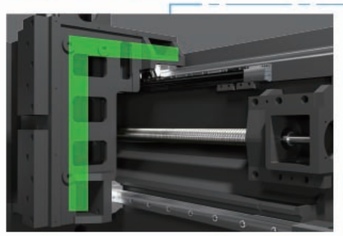
DCV Series High Speed High Precision Double Column Machining Center

▶ 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

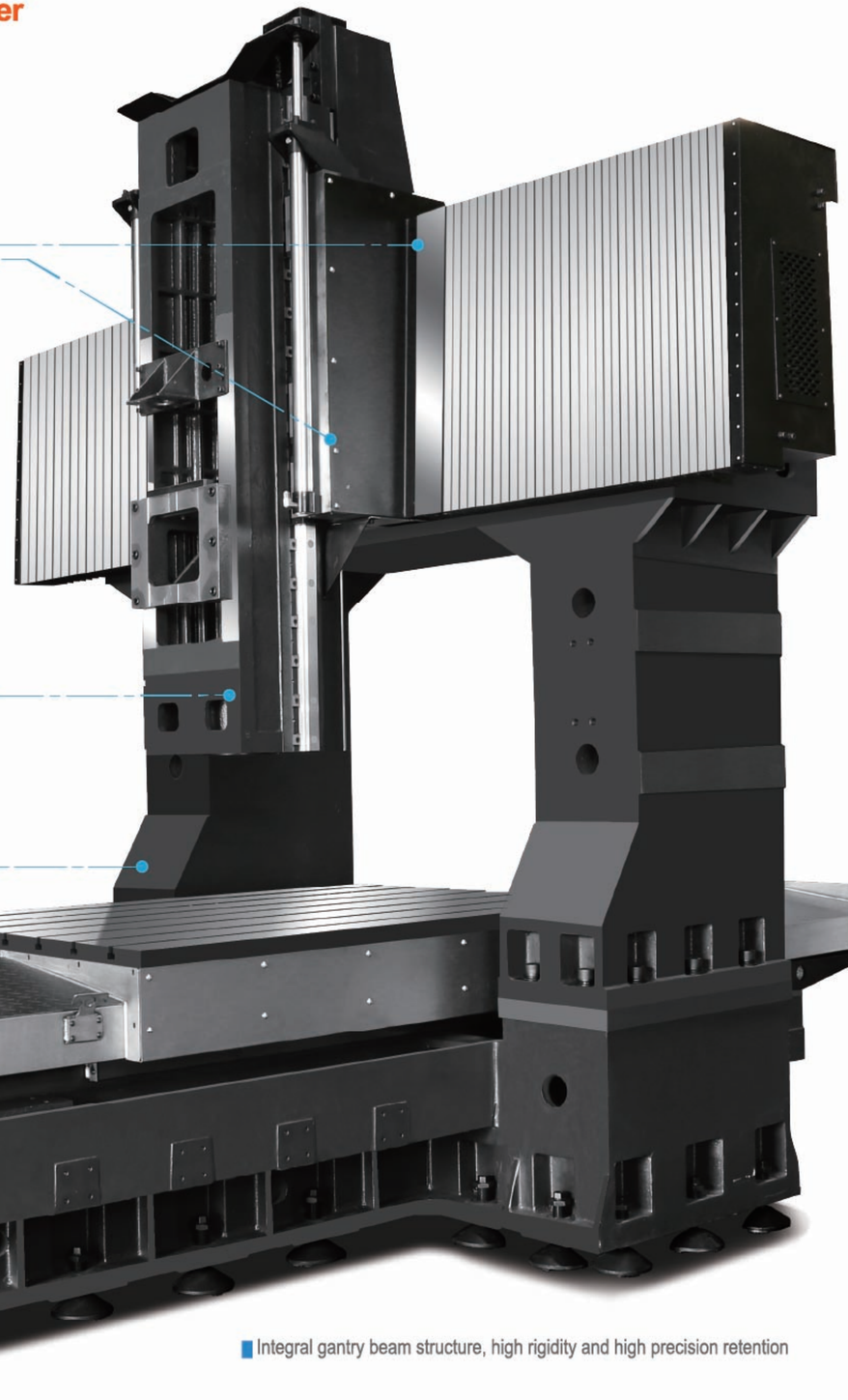
Y-axis adopts a long-span inverted L-shaped design, and the center of gravity falls on the column, which reduces the cantilever length of ram spindle and effectively improves the rigidity of Y-axis and cutting rigidity of the head.



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

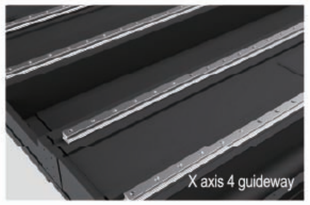
1 .BBT50-10000 rpm direct drive spindle

2 .HSK-A63-14000 rpm built-in spindle

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

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 oil cooler
- Handwheel
- Heat exchanger
- Dual screw+chain type chip conveyor
- Guideway protection cover
- Standard metal cover
- 3 color alarm light
- Working light



Standard metal cover

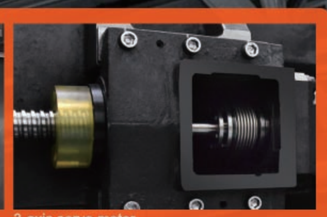


Fully enclosed (Optional)



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	▸ Handwheel	▸ Standard metal cover
▸ Cutting fluid cooling system	▸ Heat exchanger	▸ 3 color alarm light
▸ Automatic centralized lubrcation system	▸ Dual screw+chain type chip conveyor	▸ Working light
▸ Spindle oil cooler	▸ Guideway protection cover	

BF-4026DCL

BAOFENG XY LINEAR GUIDE SERIES

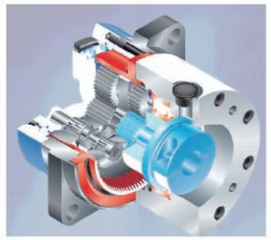
Data, pictures, parameters are for reference only, please refer to the final product details

DCL Series High Speed Heavy Cutting Double Column Machining Center

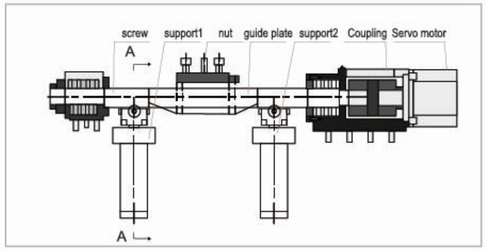
▶ L-series double column machine retains X/Y axis of high-speed and high-precision processing performance, Z-axis is fully adopted box way, and the guide way surface is properly widened and lengthened, so that the ability on heavy cutting has been significantly improved.



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

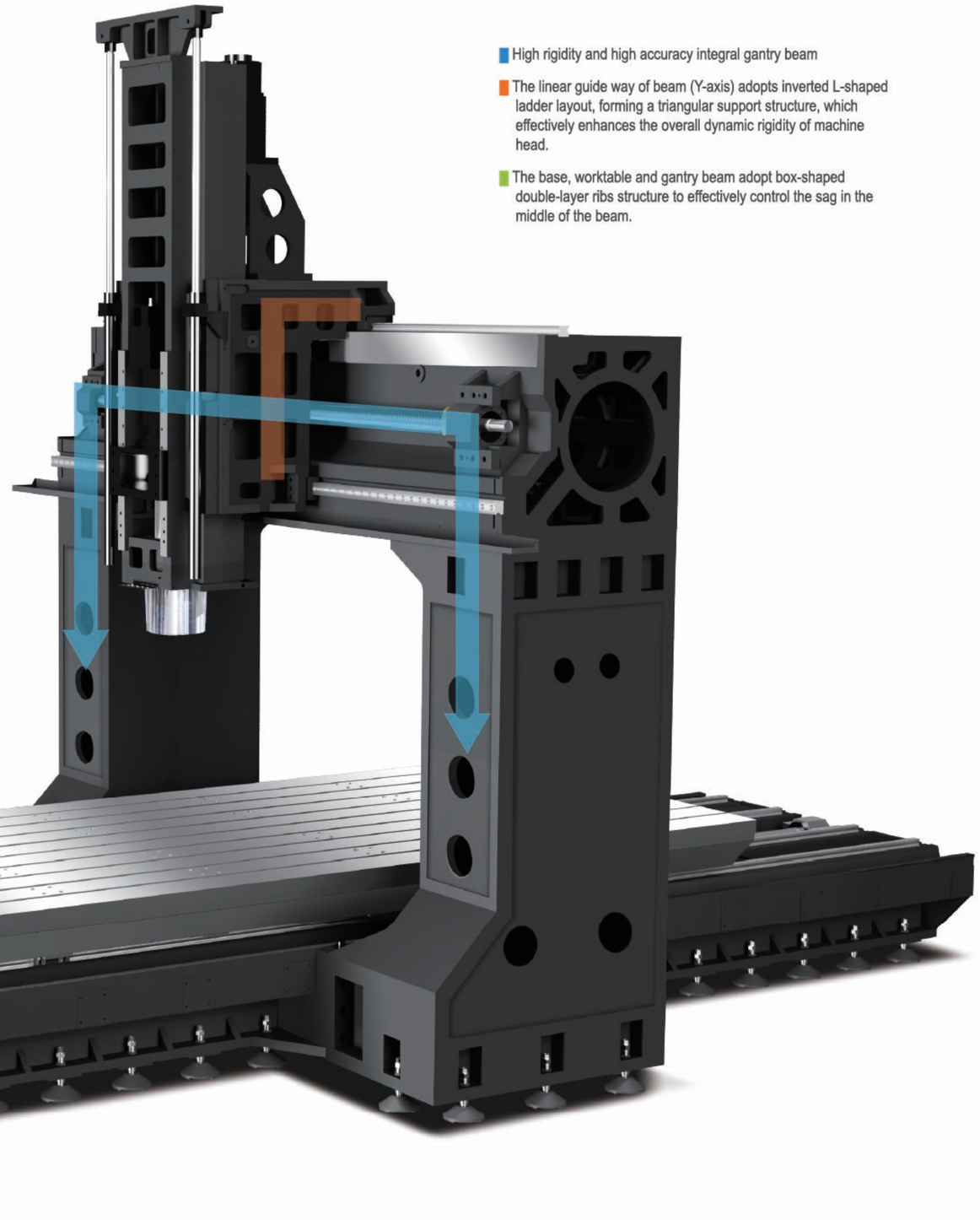


Ball screw support structure

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.(This function is not standard, only applicable to machine with X axis travel bigger than 4m)

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.



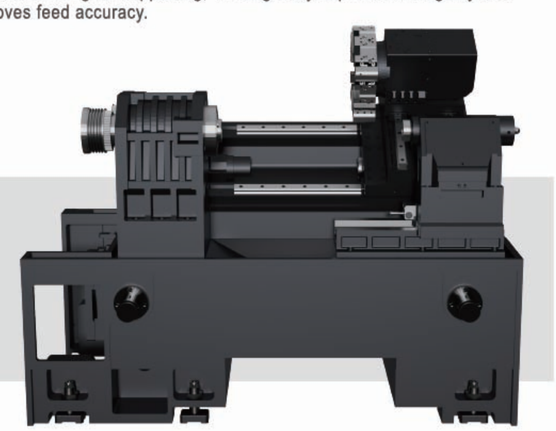
Slant-bed CNC Lathe Machine

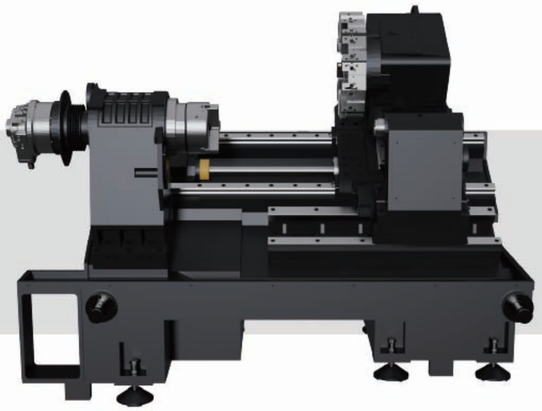
Outer circle, boring, conical surface, ring groove, cutting, forming surface, end face, etc.
Equipped with power turret can realize drilling, tapping and other milling processes, finishing turn-milling composite processing.



- 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.

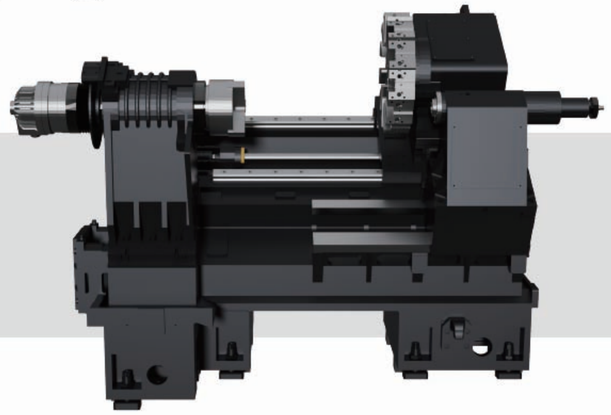
BF-1600P





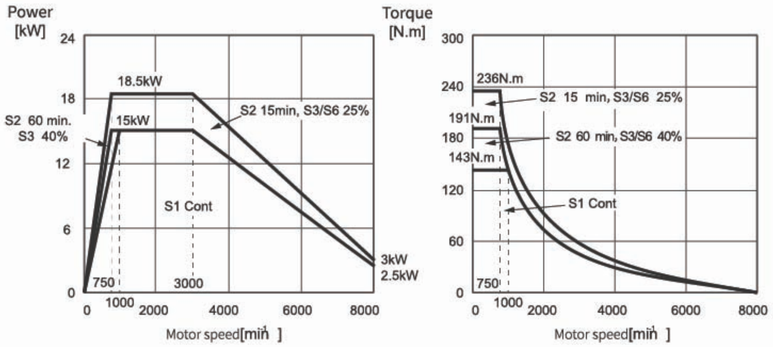
BF-2100P

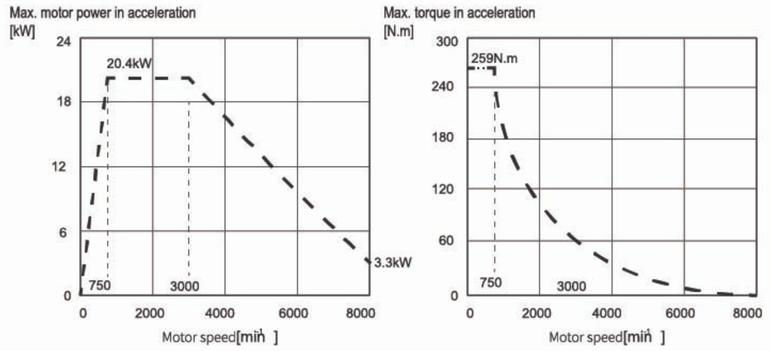
BF-2000P



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 driven turret.

Applications:



Shaft part processing



U Drill punch hole processing



Lathe boring processing



External thread processing



Circumference drilling & tapping



Circumference keyslot processing

Automation & Digitalization

- Integrated FMS operating system, including: CAM Management, Tool Presetting, Production Scheduling, Tool Management, Remote Monitoring & Control, Data Collection & Early Warning.
- Designed for both high-mix low-volume and batch production applications
- Enables lights-out machining to maximize machine utilization



IIoT (Industrial Internet of Things) BI Management Dashboard



Flat-Pallet Storage Automated Cell

JG-M70R35、JG-M20R80

Workpiece Size: 200 × 120 × 80 mm

Workpiece Weight: ≤30 kg



Circular Pallet Storage Cell (1-to-2)

TJ-V240T

Compatible CNCs: Side-door models (e.g. BF-HPT600)

Gripper Payload: 10 kg

System Weight: 1,800 kg



Rail-Guided Automation Line

JG-M6R80、JG-M6R210

Workpiece Size: 500 × 450 × 80 mm

Workpiece Weight: ≤200 kg

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

A series high-speed and High Speed High Precision 5-axis machine

Item	Unit	BF-300A5	BF-350A5	BF-500A5	BF-630A5	BF-800A5
Travel						
X axis travel	mm	450	625	600	880	1080
Y axis travel	mm	770	900	1080	1050	1300
Z axis travel	mm	400	450	500	650	
A/B axis angle range		-120—90°		-120—40°	±120°	
C axis angle range		360°				
Spindle nose to table surface	mm	100-500	100-550	100-600	120-770	
Worktable						
Rotary table Dia.	mm	Φ300	Φ350	Φ500	Φ630	Φ800
Max.worktable load	kg	80	200	350	850	
Dimension of T-slot		12H8			14H8	
Reference aperture		Φ65H8		Φ50H7	Φ50H8	
CNC controller						
Standard controller(SYNTEC)		220MA5/Plus			/	
Standard controller(FANUC)		/	0i-MF Plus(1A)/STEP2		/	
Standard controller(SIEMENS)		/	SINUMERIK ONE			
Standard controller(Heidenhain)		/	/	/	TNC640	
Spindle						
Drive type		Built-in				
Spindle speed	rpm	14000				
Spindle taper		BBT40	HSK-A63			
Spindle motor power / torque(SYNTEC)	kW/NM	15/43	20/48	30/105	/	/
Spindle motor power / torque(FANUC)	kW/NM	/	11/13.75-48/60	18.5/23-90/113	/	/
Spindle motor power / torque(SIEMENS)	kW/NM	/	20/48	30/105		
Spindle motor power / torque(Heidenhain)	kW/NM	/	/	/	30/105	
5 axes						
X/Y/Z/A/C axis motor power(SYNTEC)	kW	3.9/3.9/5.9/6/2.2	5.9/5.9/5.9/3.5/6	5.9/5.9/5.9/3.1/1.6	/	/
X/Y/Z/A/C axis motor torque(SYNTEC)	NM	18.6/18.6/28/300/105	28/28/28/557/300	28/28/28/543/363	/	/
X/Y/Z/A/C axis motor power(FANUC)	kW	/	3.0/3.0/3.0/3.5/6	3.0/3.0/3.0/3.1/1.6	/	/
X/Y/Z/A/C axis motor torque(FANUC)	NM	/	20/20/20/557/300	20/20/20/543/363	/	/
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 motor power(Heidenhain)	kW	/	/	/	5.11/6.5/6.5/8.1*2/6.3	5.11/6.5/6.5/9.6*2/9.0
X/Y/Z/A/C axis motor torque(Heidenhain)	NM	/	/	/	21.6/28/28/1290*2/600	21.6/28/28/1539*2/860
X/Y/Z/A/C axis feed rate	m/min	24/24/24			20/20/20	
A/C axis rotation speed	rpm	30/60			20/60	
Machine						
Air pressure	kg/cm²	6-7bar				
Machine dimension (Length)	mm	2560	3000	3250	4120	4260
(Width)	mm	3170	3540	3500	5350	5870
(Height)	mm	3150	3540	3300	3900	
Machine weight	kg	7000	8500	9500	18000	21500

SUP series High Speed High Precision machining center

Item	Unit	BF-800SUP	BF-1100SUP	BF-1300SUP
Travel				
X axis travel	mm	800	1080	1300
Y axis travel	mm	550	900	1100
Z axis travel	mm	500		700
Spindle nose to table surface	mm	160-660	200-700	120-820
Width of gantry	mm	950	1000	1175
Worktable				
Table size	mm	850X550	1200X900	1450x1000
Max.worktable load	kg	800	1500	1800
Dimension of T-slot	mm	5-18X100	7-18X125	7-18x150
CNC controller				
Standard controller (FANUC)		0i-MF Plus(3A)/STEP2		
Standard controller (Mitsubishi)		M80VA		
Standard controller (Siemens)		828D SW28x		
Spindle				
Drive type		Built-in		
Spindle speed	rpm	16000	14000	
Spindle taper		HSK-A63		
Spindle motor power (FANUC)	kW	11/13.75	18.5/23	
Spindle motor torque (FANUC)	Nm	48/60	90/113	
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	20/25	30	
Spindle motor torque (Siemens)	NM	48/60	105	
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	5.5/5.5/5.5	6.4/5.5/5.5
Axis torque-X/Y/Z(FANUC)	Nm	20/45	27/76	36/90
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64	22.5/64	37.2/90
Axis torque-X/Y/Z(Siemens)	Nm	22/66	30	40/30/30
Rapid feed rate-X/Y/Z(FANUC)	m/min	24/24/24		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	24/24/24		
Rapid feed rate-X/Y/Z(Siemens)	m/min	24/24/24		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	3600	3490	4450
(Width)	mm	2400	3400	3600
(Height)	mm	3000	2820	3950
Machine weight	kg	7000	8500	12500

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

SVP series High Speed High Precision machining center

Item	Unit	BF-800SVP	BF-1100SVP	BF-1300SVP
Travel				
X axis travel	mm	800	1150	1300
Y axis travel	mm	550	660	700
Z axis travel	mm	550	600	700
Spindle nose to table surface	mm	130-680	120-720	155-855
Spindle center to column	mm	587	690	735
Worktable				
Table size	mm	900X550	1250X650	1450X700
Max.worktable load	kg	800	1100	1500
Dimension of T-slot	mm	5-18x100	6-18X100	5-18x152
CNC controller				
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2		
Standard controller (Mitsubishi)		M80VA		
Standard controller (Siemens)		828D SW28x		
Spindle				
Drive type		Direct Drive		
Spindle speed	rpm	12000		
Spindle taper		BBT40		
Spindle motor power (FANUC)	kW	15/18.5/25/30		
Spindle motor torque (FANUC)	Nm	95.5/118/159/191		
Spindle motor power (Mitsubishi)	kW	11/15/18.5		
Spindle motor torque (Mitsubishi)	Nm	77.8/106/118		
Spindle motor power (Siemens)	kW	15/22/38		
Spindle motor torque (Siemens)	Nm	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	3.0/3.0/4.5		
Axis feed motor-X/Y/Z(Siemens)	kW	5.5/5.5/5.5		
Axis torque-X/Y/Z(FANUC)	Nm	20/45		
Axis torque-X/Y/Z(Mitsubishi)	Nm	XY:22.5/64--Z:37.2/90		
Axis torque-X/Y/Z(Siemens)	Nm	30/90		
Rapid feed rate-X/Y/Z(FANUC)	m/min	30/30/30		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	30/30/30		
Rapid feed rate-X/Y/Z(Siemens)	m/min	24/24/24		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	2790	3360	3300
(Width)	mm	2600	3320	3950
(Height)	mm	3100	3200	3300
Machine weight	kg	6000	8000	10500

HP series linear way machining center

Item	Unit	BF-HP6	BF-HP8	BF-800HP	BF-HP10	BF-HP11	BF-1150HP	BF-HP13
Travel								
X axis travel	mm	600	800	800	1000	1150	1150	1300
Y axis travel	mm	500	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		762
Worktable								
Table size	mm	720×450	900X500		1100x600	1250x650	1250X650	1450x700
Max.worktable load	kg	400	600		700	900		1000
Dimension of T-slot	mm	5-18x80	5-18x100			6-18x100		5-18x152
CNC controller								
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2						
Standard controller (Mitsubishi)		M80VB						
Standard controller (Siemens)		828D SW28x						
Spindle								
Drive type		Direct Drive						
Spindle speed	rpm	12000						
Spindle taper		BBT40						
Spindle motor power (FANUC)	kW	11/15/18.5						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
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5						77.8/106/118
Spindle motor power (Siemens)	kW	9/17.1/21.2						15/22/38
Spindle motor torque (Siemens)	Nm	57/108/135						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						XY:20/45 Z:36/90
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64						37.2/90
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	2320	2630		3100	3140		3490
(Width)	mm	2750	2830		2700	3090		3330
(Height)	mm	2910	3020	3270	3000	3130	3300	3210
Machine weight	kg	4500	5100	5400	6800	7000	7500	8000

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EL series XY axis linear way machining center

Item	Unit	BF-800EL	BF-1200EL	BF-1300EL	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	110-610	110-810	130-830		
Spindle center to column	mm	560	750	815	810	820
Worktable						
Table size	mm	1000x500	1300x700	1450x700	1700x800	1800x800
Max.worktable load	kg	550	1000	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(3B)/STEP2				
Standard controller (Mitsubishi)		M80VB				
Standard controller (Siemens)		828D SW28x				
Spindle						
Drive type		Belt Drive				
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	11/15/18.5		15/18.5		
Spindle motor torque (Mitsubishi)	Nm	70/95.5/118		143/191/236		
Spindle motor power (Siemens)	kW	9/17.1/21.2		17/32.3/42.4		
Spindle motor torque (Siemens)	Nm	57/108/135		162/308/405		
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		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		
Axis torque-X/Y/Z(Siemens)	Nm	22/66		40/120		
Rapid feed rate-X/Y/Z(FANUC)	m/min	30/30/18	20/20/15	20/20/15		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	30/30/18	20/20/15	20/20/15		
Rapid feed rate-X/Y/Z(Siemens)	m/min	30/30/18	20/20/15	20/20/15		
Machine						
Air pressure	kg/cm²	6-7bar				
Machine dimension (Length)	mm	2700	3830	3300	5510	4700
(Width)	mm	2870	3720	4000	3750	4000
(Height)	mm	2780	3140	3300	3400	3500
Machine weight	kg	5500	8000	10500	12000	13800

EB series box way machining center

Item	Unit	BF-800EB	BF-800EC	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	105-655	110-810		170-870
Spindle center to column	mm	550	575	750	810
Worktable					
Table size	mm	1050x500	1000x530	1300x700	1700x800
Max.worktable load	kg	800	1000	1300	1800
Dimension of T-slot	mm	5-18x90	5-18x100	5-18X120	5-22x135
CNC controller					
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2			
Standard controller (Mitsubishi)		M80VB			
Standard controller (Siemens)		828D SW28x			
Spindle					
Drive type		Belt drive			
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	11/15/18.5		15/18.5	
Spindle motor torque (Mitsubishi)	Nm	70/95.5/118		143/191/236	
Spindle motor power (Siemens)	kW	9/17.1/21.2		17/32.3/42.4	
Spindle motor torque (Siemens)	Nm	57/108/135		162/308/405	
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		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	
Axis torque-X/Y/Z(Siemens)	Nm	22/66		40/120	
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	2370	3830	5510
(Width)	mm	2240	2800	3720	3750
(Height)	mm	2740	2970	3140	3400
Machine weight	kg	5000	6000	8000	12000

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	320	320	330
Spindle nose to table surface	mm	150-470	145-465	150-480
Spindle center to column	mm	447	464	546
Worktable				
Table size	mm	700x420	800x420	1100x500
Max.worktable load	kg	400		
Dimension of T-slot	mm	3-14x135		5-18x100
CNC controller				
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2		
Standard controller (Mitsubishi)		M80VB		
Standard controller (Siemens)		828D SW28x		
Spindle				
Drive type		Direct Drive		
Spindle speed	rpm	20000		
Spindle taper		BBT30		
Spindle motor power (FANUC)	kW	3.7/5.5/9		
Spindle motor torque (FANUC)	Nm	11.8/17.5/28.6		
Spindle motor power (Mitsubishi)	kW	3.7/5.5		
Spindle motor torque (Mitsubishi)	Nm	14.1/17.5		
Spindle motor power (Siemens)	kW	4.8/7.2/21.2		
Spindle motor torque (Siemens)	Nm	10/28.6/45		
Axis				
Axis feed motor-X/Y/Z(FANUC)	kW	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		
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:13.7/47 Z:22.5/64
Axis torque-X/Y/Z(Siemens)	Nm	XY:12/36NM Z:22/66		
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	32/32/32		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	1930	1930	2680
(Width)	mm	2540	2570	2390
(Height)	mm	2310	2340	2300
Machine weight	kg	3200	3500	4800

E series engraving and milling machine

Item	Unit	BF-HPT600	BF-600E	BF-800E
Travel				
X axis travel	mm	600		700
Y axis travel	mm	420	500	800
Z axis travel	mm	520	260	330
Spindle nose to table surface	mm	150-670	80-340	40-370
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(SYNTEC)		/	22MA	
Standard controller (Mitsubishi)		M80VB	E80	
Standard controller(FANUC)		0i-MF Plus(3B)/STEP2	/	
Spindle				
Drive type		Direct Drive	Built-in	
Spindle speed	rpm	20000	24000	
Spindle taper		BBT30	ER32	
Spindle motor power (SYNTEC)	kW	/	7.5-24000rpm	
Spindle motor torque (SYNTEC)	Nm	/	8	
Spindle motor power (Mitsubishi)	kW	3.7/5.5	7.5-24000rpm	
Spindle motor torque (Mitsubishi)	Nm	14.1/17.5	8	
Spindle motor power (FANUC)	kW	3.7/5.5/9	/	
Spindle motor torque (FANUC)	Nm	11.8/17.5/28.6	/	
Axis				
Axis feed motor-X/Y/Z(SYNTEC)	kW	/	1.1/1.1/1.1	1.7/1.7/1.7
Axis feed motor-X/Y/Z(Mitsubishi)	kW	1.5/1.5/3.0	1.5/1.5/1.5	
Axis feed motor-X/Y/Z(FANUC)	kW	2.5/2.5/2.7	/	
Axis torque-X/Y/Z(SYNTEC)	Nm	/	5.39/14.9	8.34/30.8
Axis torque-X/Y/Z(Mitsubishi)	Nm	XY: 9/42 Z: 22.5/64	7.2/25.1	
Axis torque-X/Y/Z(FANUC)	Nm	XY:8/32 Z:12/46	/	
Rapid feed rate-X/Y/Z(SYNTEC)	m/min	/	12/12/12	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	36/36/36	12/12/12	
Rapid feed rate-X/Y/Z(FANUC)	m/min	36/36/36	/	
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	1930	2160	2400
(Width)	mm	2540	2420	1900
(Height)	mm	2510	2480	2350
Machine weight	kg	3600	3500	4000

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

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	2600
Y axis travel	mm	735	850	900	1450	1600
Z axis travel	mm	600	950	1100	1280	1400
Spindle nose to table surface	mm	150-750	130-1080	220-1320	320-1600	280-1680
Spindle center to column	mm	0-735	50-900	0-900	0-1450	30-1630
Worktable						
Rotary table size	mm	500X500	(630X630)*2	800X800	(800X800)*2	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(3B)/STEP2			0i-MF Plus(3A)/STEP2	
Standard controller (Mitsubishi)		M80VB				
Standard controller (Siemens)		828D SW28x				
Spindle						
Drive type		Direct Drive	Belt Gear Drive		Gear Drive	
Spindle speed	rpm	12000	6000			
Spindle taper		BBT40	BBT50		BT50	
Spindle motor power (FANUC)	kW	11/15/18.5	15/18.5		22/26/35/45	
Spindle motor torque (FANUC)	Nm	52.5/95.5/118	143/191/236		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	11/15	15/18.5		22/26/35	
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5	143/191/236		140/166/223	
Spindle motor power (Siemens)	kW	9/17.1/21.2	17/32.3/42.4		22/41.8/59.7	
Spindle motor torque (Siemens)	Nm	57/108/135	162/308/405		140/266/380	
Axis						
Axis feed motor-X/Y/Z/B(FANUC)	kW	3.0/3.0/3.0/3.0			7.0/4.0/7.0/4.0*2	6.0/7.0/7.0/4.0
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*2	7.0/7.0/7.0/3.0	7.0/7.0/7.0/3.0*2	7.0/7.0/7.0/4.5
Axis feed motor-X/Y/Z/B(Siemens)	kW	2.9/2.9/3.55/3.05	7.7/7.7/7.7/2.9*2	7.0/7.0/7.0/2.9	7.7/7.7/7.7/2.9*2	7.7/7.7/7.7/5.5
Axis torque-X/Y/Z(FANUC)	Nm	20/45	36/36/36/20*2	36/36/36/20	30/22/30/22*2	30/22/30/22
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/22.5/22.5/13.7	45/45/45/22*2	45/45/45/22	45/45/45/22*2	45/45/45/37.2
Axis torque-X/Y/Z(Siemens)	Nm	22/22/22/18	48/48/48/22*2	48/48/48/22	48/48/48/22*2	48/48/48/30
Rapid feed rate-X/Y/Z(FANUC)	m/min	36/36/36	24/24/24			15/15/15
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	36/36/36	24/24/24			15/15/15
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	4440	6900	6500	8240	7140
(Width)	mm	4730	4400		4990	5750
(Height)	mm	3090	3570		3980	4390
Machine weight	kg	7500	16000	16500	18500	26000

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	160-860	200-1400
Spindle center to column	mm	70-970	30-1430
Worktable			
Table size	mm	1360x700	2000x900
Max.worktable load	kg	1000	1600
Dimension of T-slot	mm	5-18x122	5-22x165
CNC controller			
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2	
Standard controller (Mitsubishi)		M80VB	
Standard controller (Siemens)		828D SW28x	
Spindle			
Drive type		Belt Drive	
Spindle speed	rpm	6000	
Spindle taper		BT50	
Spindle motor power (FANUC)	kW	15/18.5	
Spindle motor torque (FANUC)	Nm	143/191/236	
Spindle motor power (Mitsubishi)	kW	15/18.5	
Spindle motor torque (Mitsubishi)	Nm	143/191/236	
Spindle motor power (Siemens)	kW	17/32.3/42.4	
Spindle motor torque (Siemens)	Nm	162/308/405	
Axis			
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	4.5/4.5/4.5	4.5/4.5/7.0
Axis feed motor-X/Y/Z(Siemens)	kW	6.4/6.4/6.4	
Axis torque-X/Y/Z(FANUC)	Nm	36/90	
Axis torque-X/Y/Z(Mitsubishi)	Nm	37.2/90	XY:37.2/90 Z:45/130
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	5200	6130
(Width)	mm	3860	4630
(Height)	mm	3720	3640
Machine weight	kg	10500	15000

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

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	6036DCV	8036DCV
Travel																				
X axis travel	mm	1600	2400	1800	2200	3200	2700	3200	4200	3200	4200	5200	6200	4200	5200	6200	6200	8200	6200	8200
Y axis travel	mm	1400		1400	1700		1900	2600		2600			2600	3200			3900		4200	
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			580-1836	786-2036	590-1840(Raised300)	
Gantry width	mm	1400		1400	1600		1800	2300		2600				2850			3200		3600	
Worktable																				
Table size	mm	1650X1100	2500X1100	1800x1200	2200x1300	3000x1300	2700x1500	3000x1800	4000x1800	3000x2200	4000x2200	5000x2200	6000x2200	4000x2400	5000x2400	6000x2400	6000x2600	8000x2600	6000X2600	8000X2600
Max.worktable load	kg	3000	4000	4000	5000	8000	8000	8000	10000	12000	15000	16000	18000	15000	16000	18000	20000	25000	25000	
Dimension of T-slot	mm	7-18X150		7-18x160	7-22x190		8-22x180	10-22x180		11-22x200				12-26x200			13-22X200		13-28x200	
CNC controller																				
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2		0i-MF Plus(3B)/STEP2				0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2				0i-MF Plus(3A)/STEP2			0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2	
Standard controller (Mitsubishi)		M80VA		M80VB				M80VB		M80VB				M80VB			M80VB		M80VB	
Standard controller (Siemens)		828D SW28x		828D SW28x				828D SW28x		828D SW28x				828D SW28x			828D SW28x		828D SW28x	
Spindle																				
Drive type		Direct drive		Direct drive	Direct drive		Direct drive	Direct drive		Direct drive				Direct drive			Direct drive		Gear head	
Spindle speed	rpm	12000		10000	10000		10000	10000		10000				10000			10000		6000	
Spindle taper		BBT40-45°		BBT50-45°	BBT50-45°		BBT50-45°	BBT50-45°		BBT50-45°				BBT50-45°			BBT50-45°		BT50-45°	
Spindle motor power (FANUC)	kW	15/18.5/25/30		15/18.5	15/18.5		15/18.5	22/26/35		22/26/35				22/26/35			22/26/35		22/26/35	
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	11/15/18.5		15/18.5	15/18.5		15/18.5	22/26/35		22/26/35				22/26/35			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	9/17.1/21.2		17/32.3/42.4	17/32.3/42.4		17/32.3/42.4	22/41.8/59.7		22/41.8/59.7				22/41.8/59.7			22/41.8/59.7		22/41.8/59.7	
Spindle motor torque (Siemens)	Nm	57/108/135		162/308/405	162/308/405		162/308/405	140/266/380		140/266/380				140/266/380			140/266/380		140/266/380	
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				7.0/7.0/7.0			7.0/7.0/7.0		7.0/7.0/7.0	
Axis feed motor-X/Y/Z(Siemens)	kW	6.4/5.5/5.5		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	20/45	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	37.2/90	45/130	45/130		45/130	45/130		45/130				45/130			45/130		45/130	
Axis torque-X/Y/Z(Siemens)	Nm	X:40/120 YZ:30/90		48/150	48/150		48/150	48/150		48/150				48/150			48/150		48/150	
Rapid feed rate-X/Y/Z(FANUC)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	15/15/12		12/12/12				12/12/12			10/10/10		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	15/15/12		12/12/12				12/12/12			10/10/10		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	15/15/12		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	5090	6900	5550	6370	8600	7670	8450	10550	8450	10550	12880	15050	10550	12880	15050	15000	19170	15000	19000
(Width)	mm	3560	3870	4450	4490		4690	5020		5320				5880		5460	6570	7365	7200	
(Height)	mm	3290	3300	4060	4400		4290	5000		5000				5000			6200	6425	6200	
Machine weight	kg	13000	18000	16000	16000	23000	21000	30000	33500	31000	39000	41000	49000	38500	43500	50000	52000	60000	58000	68000

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

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	6036DCL	8036DCL
Travel																	
X axis travel	mm	2200	3200	2700	3200	4200	3200	4200	5200	6200	4200	5200	6200	6200	8200	6200	8200
Y axis travel	mm	1700		1900	2600		2600		2600	2600	3200			3900		4200	
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			586-1836	786-2036	590-1840(Raised300)	
Gantry width	mm	1600		1800	2300		2600		2600		2850			3200		3600	
Worktable																	
Table size	mm	2200X1300	3000x1300	2700x1500	3000x1800	4000x1800	3000x2200	4000x2200	5000x2200	6000x2200	4000x2400	5000x2400	6000x2400	6000x2600	8000x2600	6000X2600	8000X2600
Max.worktable load	kg	5000	8000	8000	8000	10000	12000	15000	16000	18000	15000	16000	18000	20000	25000	25000	
Dimension of T-slot	mm	7-22x190		8-22x180	10-22x180		11-22x200		11-22x200		12-26x200			13-22x200		13-28x200	
CNC controller																	
Standard controller (FANUC)		0i-MF Plus(3B)/STEP2			0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2			0i-MF Plus(3A)/STEP2		0i-MF Plus(3A)/STEP2	
Standard controller (Mitsubishi)		M80VB			M80VB		M80VB		M80VB		M80VB			M80VB		M80VB	
Standard controller (Siemens)		828D SW28x			828D SW28x		828D SW28x		828D SW28x		828D SW28x			828D SW28x		828D SW28x	
Spindle																	
Drive type		Belt drive		Belt drive	Belt drive		Belt drive		Belt drive		Belt drive			Belt drive		Gear 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	22/26/35/45		22/26/35/45		22/26/35/45		22/26/35/45			22/26/35/45		22/26/35/45	
Spindle motor torque (FANUC)	Nm	143/191/236		143/191/236	140/166/223/286		140/166/223/286		140/166/223/286		140/166/223/286			140/166/223/286		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	15/18.5		15/18.5	22/26/35		22/26/35		22/26/35		22/26/35			22/26/35		22/26/35	
Spindle motor torque (Mitsubishi)	Nm	140/166/223		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	17/32.3/42.4		17/32.3/42.4	22/41.8/59.7		22/41.8/59.7		22/41.8/59.7		22/41.8/59.7			22/41.8/59.7		22/41.8/59.7	
Spindle motor torque (Siemens)	Nm	162/308/405		162/308/405	140/266/380		140/266/380		140/266/380		140/266/380			140/266/380		140/266/380	
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			7.0/7.0/7.0		7.0/7.0/7.0	
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: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	48/150		48/150	48/150		48/150		48/150		48/150			48/150		48/150	
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		15/15/12	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	8450	10550	8450	10550	12880	15050	10550	12880	15050	15000	19170	15000	19000
(Width)	mm	4490		4690	5020		5320		5320		5880		5460	6570	7365	7200	
(Height)	mm	4400		4290	4990		4990		4990		4990		5000	6200	6425	6200	
Machine weight	kg	16000	23000	21000	30000	33500	31000	39000	41000	49000	38500	43500	50000	52000	60000	58000	68000

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

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	230	300	400
Spindle				
Spindle head type		A2-5 (6")	A2-6 (8")	
Spindle hole diameter	mm	56	72	65
Max.spindle speed	rpm/min	4000		
Spindle maximum output torque	Nm	105/191	143/236	
Spindle motor power	kW	11/15	15/18.5	
CNC controller				
Standard controller		0i-TF PLUS(3B)/STEP2		
Axis				
X axis travel	mm	210	205	255
Z axis travel	mm	400	500	525
X feed motor power	kW	1.8	3.0	
Z feed motor power	kW	1.8	3.0	
X axis driver type		Direct drive		
Z axis driver type		Direct drive		
Rapid feed rate	m/min	20		
Tailstock				
Tailstock sleeve taper		MT4	MT5	
Tailstock sleeve Dia.	mm	80		
Tailstock sleeve travel	mm	80		
Tailstock travel	mm	400	435	
Turret				
Standard turret		12T Servo Turret		
Machine				
Air pressure	kg/cm²	6-7bar		
Machine dimension (Length)	mm	2420	3280	3880
(Width)	mm	1750	1700	2010
(Height)	mm	1680	1900	2050
Machine weight	kg	2600	5000	5300



