

JINGDIAO 3-AXIS HIGH-SPEED MACHINING CENTER

HGA600



Learn More About HGA600

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Highlights

Using Fully Closed-loop Control Technology, the HGA600 is suitable for the machining of precision molds and precise grinding applications.

The HGA600 is capable of the stable machining of work that requires accuracy of 2-5µm. The laser tool-length calibrator effectively monitors the tool profile, tool wear and spindle thermal elongation which assist in the production of precise parts.

JINGDIAO's own handling system is available on the HGA600. This system eliminates the tedious work of operators of having to load and unload workpieces. The material han-dling will also improve machining efficiency, unattended operation and reduce your labor HGA600 cost.

"On-Machine Measurement and Intelligent Modification Technology"can be used to measure the position and dimension of the workpiece, which improves the accuracy.

The optional 32,000rpm high speed precision spindle is an ideal solution for precision mold machining that requires the use of smaller tools.

The optional JINGDIAO made rotary tables make multi-axis machining easy and affordable.

For shops with limited floor space, the compact machine design requires a small footprint.

Samples





Size (mm/in): 93×42×80 (3.7×1.7×3.1) Material: S136 (HRC48) **Highlights:** Continuous and stable machining for 20 hours with a small tool; Tool wear within 5 µm.

Precision Interchangeable Mold





Size (mm/in): 300×300×140 (11.8×11.8×5.5) Material: H13 (HRC50-52) **Highlights:** Fit clearance within 8 µm; Multiple sets can be easily swapped out and matched in four directions.

Helical Gear Copper Electrode



Machine: HGA600+RTD150 Rotary Table **Size (mm/in):** ϕ 12.6×60.0 (ϕ 0.5×2.4) Material: Copper Highlights: Machining with general carbide tools; Gear accuracy reaches level 0 of JIS.

Optical Lamp with Mirror Finish



Size (mm/in): \$\phi85\times50 (\$\phi3.3\times2.0) Material: S136 (HRC52) Highlights: Surface deviation 8µm; Contour error dispersion within 3 µm; Surface roughness Ra<0.07 µm.

Machine Structure

Max. Workpiece Dimension



Higher Motion Accuracy

+ Full closed-loop control, axes drives equipped with linear glass scales.



Max

Travel



Better Machine Rigidity + Inverted "L"structure.



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ravel (X/Y/Z) (mm/in)	600/500/300 (23.6/19.7/11.8)
Table Size (mm/in)	650×650 (25.6×25.6)
Max. Load (kg/lb)	300 (661.4)

Good Thermal Stability

+ JINGDIAO designs and builds their own chiller unit which protects the machine from thermal distortion created by a shop's environment. This ensures stable machining resulting in high precision parts.



Key Components & Distinctive Technologies

JINGDIAO High-Speed Precision Spindle

JINGDIAO's high speed spindles are the machine's main power source which produce precision machining results. Our in-house built spindles have low vibration, and high thermal stability resulting in a small coefficient of Thermal Expansion and stable cutting in conditions.

Standard spindle is suitable for

JD150S-20-HA50

machining of precision mold (Precision milling and grinding).

Dimension Unit:mm (in)



山ф15 (ф0.6) ↓12 <u>R86 (3.4)</u> 15°,15° Uniform Distribution 6-ф9 (ф0.4) Through-Hole Uniform Distribution 山ф15 (ф0.6) 12 Uniform Distribution R84 (3.3)

(Φ5.9) (0, -0.009)

Speed (rpm): 20,000 Tool Holder: HSK-A50 Weight (kg/lb): 46.5/102.5

18 (24.1)

Basic Specification

Clamping Diameter (mm/in): Φ150

Output Power (S6-60%) (Kw/HP):

Output Torque (S6-60%) (Nm): 21.5

6-φ9 (φ0.4) Through-Hole Uniform Distribution

Output Performance





Optional

+ JD130S-24-BT30 Speed: 24,000rpm Tool Holder: BT30

+ JD105S-28-HE32 Speed: 28,000rpm

Tool Holder: HSK-E32

JD130E-32-HE32

JINGDIAO own high-speed precision spindles are designed to be extremely stable with minimum vibration and have small thermal elongation. The spindle's 32,000rpm is ideal suitable for precision machining that requires smaller tools and capable mirror grinding, micro milling, precision milling and micro-hole drilling.

Dimension & Output Performance



Cutting Test Results (Spindle Type JD150S-20-HA50)

Item	Material	Tool Size (mm/in)	Teeth Number	Cutting Width (mm/in)	Cutting Depth (mm/in)	Spindle Speed (rpm)	Cutting Feed Rate mm/min (in/min)	Cutting Capacity (cm³/min)
	Aluminum	D80 (D3.1)	7	70 (2.8)	2 (0.08)	6000	3200 (126.0)	448
Face Mill	Steel	D50 (D2.0)	4	45 (1.8)	0.8 (0.03)	1000	1000 (39.4)	36
End Mill Steel	Aluminum	D16 (D0.6)	4	3.2 (0.1)	32 (1.3)	10000	3200 (126.0)	327.68
	Steel	D16 (D0.63)	4	1 (0.04)	32 (1.3)	3600	2400 (94.5)	76.8
	Aluminum	D24 (D0.9)	2	/	/	1000	200 (7.9)	/
Ψ Drill	Steel	D24 (D0.9)	2	/	/	1000	100 (3.9)	/
4	Aluminum	M20×1.5	2	/	/	700	1050 (41.3)	/
V) Tap	Steel	M14×1.5	2	/	/	400	600 (23.6)	/

Different machining conditions have different pmachining data, which is only for reference.

+ Taper Bore Radial Runout ≤1.5 μm (5.9×10-5 in) + Rotor End Face Axial Runout $\leq 1 \mu m (3.9 \times 10.5 in)$

Performance

+ Vibration at Maximum Speed ≤0.6 mm/s (1.44 ipm)



Basic Specification

Clamping Diameter (mm/in): Φ130/Φ5.1 (0, -0.008) Output Power (S6-60%) (KW/HP): 5.0 (6.7) Output Torque (S6-60%) (Nm): 2.4 Speed (rpm): 32,000 Tool Holder: HSK-E32 Weight (kg/lb): 25/55.1

JD50 CNC System

The JD50 CNC System is Developed by JINGDIAO's own R&D software engineers. The control is designed for high speed precision machining and is highly efficient, and reliable.

The control integrates JINGDIAO's own on-machine measurement and intelligent modification software which are critical components for the machining of precision parts. The control has 10.4" LED display, come with a PC based Windows OS, 2G memory 32G hard drive and 1,200 block look ahead feature.



Featured Function



+ High-Speed High-Precision Machining

The advanced look ahead function ensures smooth transitions between line segments, which greatly improves the machining speed.

The flexible motion parameter matching function and rich compensation functions improves the processing efficiency and machining accuracy.



+ Intelligent Monitoring

With a wide range of expansion interfaces, our Intelligent Monitoring feature can integrate various types of testing equipment to monitor machine status in real time.

Complete network communication interfaces are provided for the remote monitoring of machines.



+ Safe and Convenient Operation

MPG trial cutting, authority management and test proofing function can greatly reduce the failure rate caused by operator error.

Built-in auxiliary programming function and parameterized automatic programming function can improve programming efficiency.

System Advantages

- + Various programming methods and flexible technical process design.
- + Abundant types of interfaces and buses, with strong peripheral expansion capabilities.

+ Unique external extended function instructions (G100). It can achieve instruction-level peripheral control, human-computer interaction, and complex data operations.



B10 - 🔍 🌬 O)	
A	В	C
Tool NO.	1	0.0Degre
Time	2020.04.21-12:56:43	10.0Degre
Parameter	Measure Data	20.0Degre
Length	0	30.0Degre
Radius	0	40.0Degre
Fit R Value		50.0Degre
Avarage A Value		60.0Degre
Max deviation		70.0Degre
Min deviation		80.0Degre
Contour Range	0	90.0Degre

Tool Magazine

A variety of tool magazine can be selected for different spindles, to meet different production needs.



Allowable Maximum Tool Len Allowable Maximum Tool Le Maximum Diameter Maximum Diameter of Max.Load Max.Load



Allowable Maximum Tool Len Allowable Maximum Tool L Maximum Diameter Maximum Diameter of Max.Load Max.Load



Allowable Maximum Tool Ler Allowable Maximum Tool L Maximum Diameter Maximum Diameter of Max.Load Max.Load



Allowable Maximum Tool Ler Allowable Maximum Tool L Maximum Diameter Maximum Diameter of Max.Load Max.Load

Туре	Servo Tool Magazine
Tool Holder	HSK-E32
Spindle	JD105S-28-HE32
Capacity	28
gth (Vacant) (From End of Spindle) (mm/in)	120 (4.7)
ength (Full) (From End of Spindle) (mm/in)	140 (5.5)
of Contiguous Tools (Full) (mm/in)	50 (2.0)
f Contiguous Tools (Vacant) (mm/in)	80 (3.1)
of Each Position (kg/lb)	0.5 (1.1)
of Tool Magazine (kg/lb)	14 (30.9)

Туре	Servo Tool Magazine
Tool Holder	HSK-E32
Spindle	JD130E-32-HE32
Capacity	24
gth (Vacant) (From End of Spindle) (mm/in)	120 (4.7)
ength (Full) (From End of Spindle) (mm/in)	140 (5.5)
of Contiguous Tools (Full) (mm/in)	50 (2.0)
f Contiguous Tools (Vacant) (mm/in)	80 (3.1)
l of Each Position (kg/lb)	0.5 (1.1)
of Tool Magazine (kg/lb)	12 (26.5)

Туре	Servo Tool Magazine
Tool Holder	BT30
Spindle	JD130S-24-BT30
Capacity	20
gth (Vacant)(From End of Spindle) (mm/in)	90 (3.5)
ength (Full)(From End of Spindle) (mm/in)	140 (5.5)
of Contiguous Tools (Full) (mm/in)	50 (2.0)
f Contiguous Tools (Vacant) (mm/in)	80 (3.1)
l of Each Position (kg/lb)	3 (6.6)
of Tool Magazine (kg/lb)	25 (55.1)

Туре	Servo Tool Magazine
Tool Holder	HSK-A50
Spindle	JD150S-20-HA50
Capacity	18
ngth (Vacant)(From End of Spindle) (mm/in)	175 (6.9)
ength (Full)(From End of Spindle) (mm/in)	195 (7.7)
of Contiguous Tools (Full) (mm/in)	50 (2.0)
f Contiguous Tools (Vacant) (mm/in)	80 (3.1)
l of Each Position (kg/lb)	3 (6.6)
of Tool Magazine (kg/lb)	25 (55.1)

On-Machine Measurement and Intelligent Modification

These features measure both the position deviation of the fixture, and the cutting allowance at each machining step which results in precision machining

+ Compensation of Workpiece Position Error

There can be errors associated when clamping a workpiece to the fixture. Compensation of workpiece position error assures the accurate part position by calculating the deviation between the actual position and the theory position.







+ Remaining Stock Inspection

For precision machining, it is critical to have a constant chip load and remove a consistent amount of material at each machining step. In order to achieve this, the operator needs to inspect the remaining stock before moving onto the next machining step. After inspecting the part, the JINGDIAO CNC control will give real time measurement results by displaying a accuracy heat map in which the operator can decide if the results are favorable to move onto the the next machining step. This process achieves the stable machining and high precision parts.







Inspect the Remaining Stock on the Machine

Real Time Display of CNC System

Achieve Stable Precision Machining

+ Machining Digitization and Continuous Production

When parts have to be manually inspected, it severly interfers with continuity and stability of production process. JINGDIAO's Machining Digitization allows for in-process and finish inspection of the machined part. After machining, the part is inspected and if is within tolerance the part is ready to be removed from the machine. The part needs additional stock to be removed, machining will resume until the part is within tolerance. This integration of manufacturing and inspection vastly improves production and mini-mizes the number of operators.



Without the use Integration of Machining and Inspection feature, many more operators are required to run the machines since they must remove and manually inspect each part which slows down production.



Fewer operators are required after using the Integration Machining and Inspection feature.

Accessories Products

Flexible Manufacturing System

IINGDIAO's own Flexible Manufacturing System is pallet automatic exchange system, which ideal for variety of different work and small batch product processing. The pallet system improves automation, part accuracy and provides a safe, stable and continuous flexible manufacturing experience.





Processing System



Feeding System

Clamping System

Requirement Analysis

Software System





Customized Service

When equipped with MHS pallet changer, the HGA600 achieves continuous machining and unattended operation which improves productivity and reduces labor cost.

Production Mode

The exceptional features of JINDAIO Operation Management System makes it easier to collaborate with colleagues within in your manufacturing team. The Personnel will perform Their Respective Duties, Guarantee the Continuous Operation of the System, and Improve the Machines' Actual Utilization Rate.

Factory Supervisor	Obtain Production Information in Time
Operator	Maintain
operator	Preparation
Technologist	Synchronous Programming
rechnologist	Network Transmission
Dispatchor	Production Scheduling
Dispatcher	Flexible Adjustment
Workshop Supervisor	Real Time Statistics of Machine State



MHS25 Flexible Manufacturing System

Specification

Overall Dimension

Unit:mm (in)



MHS25 Specifications						
Feeding System	MHS25- SF42A	MHS25- SF96B	MHS25- SF63A			
Load (kg/lb)	25 (55.1)					
Storage Capacity	42	96	63			
Workpiece Dimension	120×120 ×120	Ф60×100	120×100 ×100			
(mm/in)	(4.7×4.7 ×4.7)	(Ф2.4×3.9)	(4.7×4.7 3.9)			
Machine Dimension	12 (50	1280×1000×1900 (50.4×39.4×74.8)				
Weight (kg/lb)		900 (1984.2))			

Overall Dimension

Unit:mm (in)





MHS25 Dimension

Unit:mm (in)





MHS30 Flexible Manufacturing System

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Specification

MHS30 Specifications							
Feeding	MHS30-	MHS30-	MHS30-				
System	SR24A	SR18A	SR18B				
Load (kg/lb)		30 (66.1)					
Storage Capacity	24	18	18				
Workpiece Dimension (mm/in)	120×120 ×200 (4.7×4.7 ×7.9)	170×170 ×200 (6.7×6.7 ×7.9)	Ф100×230 (Ф3.9×9.1)				
Machine Dimension	11 (43	1100×2600×2000 (43.3×102.4×78.7)					
Weight (kg/lb)	1500 (3306.9)						



Scraper Type Chip Conveyor System

The scraper style chip conveyor automatically collects and filters out the co ting chips from the machining fluid.

Side-Type Scraper Chip Conveyor

Configuration







Specifications

Color			Gi	rey (Customizab	le)				
Width(mm/in)	280 (11.0)								
Length (mm/in)		885 (34.8)							
Capacity (L/gal)				130 (28.6)					
Lifting Angle				60°					
Height of Exit from the Ground (mm/in)				747 (29.4)					
Water Pump	Name	Туре	Power (W)	Voltage (V)	Maximum Pump Head (m/in)	Discharge (mm/in)	Quantity	Note	
Parameters	Pooling Pump	LDPB2-18-TP	250	380	7 (275.6)	Ф13 (0.5)	1		
	Washer Pump	LDPB2V-60-TP	1150	380	52 (2047.2)	Ф32 (1.3)	1		
Right Angle Reduction	Ту	Type Power (W) Voltage (V)			Motor Speed (rpm)	Motor Level	Quantity	Note	
Motor Parameters	SZG18-F-150)-240-S-K-F-J	150	380	6.3	4	1		
	Filter S	Filter Screen of Primary Filter Basket (µm/in)				178 (7.0×10 ⁻³)			
Filtering Accuracy	Strainer of Chip Box (µm/in)				380 (1.5×10 ⁻²)				
	Double-layered Strainer (μm/in) 250 (9.8×10 ⁻³) Customizable								
Chip Load				≤180 (396.8)					
Chip Type	Used for Metal Chip	s, Chips, Powder Chi	ps and Other Fir	e Metal Chips a	nd Non-Metal Pa	rticles with a Le	ngth of Less	Than 50mm	

Features

- + The chip collector improves the cleaning cycle of the of the chip waste.
- + The closed structure of the multistage filtration unit increases the service life of cutting fluid.
- + The unit is equipped with both a cleaning and drop recovery mechanism which results in self-cleaning and cutting fluid recovery of chip conveyor system.

Back-Type Scraper Chip Conveyor

Configuration



Specifications

Color			G	rey (Customizab	le)			
Width(mm/in)	280 (11.0)							
Length (mm/in)				1649 (64.9)				
Capacity (L/gal)				200 (44.0)				
Lifting Angle				60°				
Height of Exit from the Ground (mm/in)				766 (30.2)				
Water Pump	Name	Туре	Power (W)	Voltage (V)	Maximum Pump Head (m/in)	Discharge (mm/in)	Quantity	Note
Parameters	Pooling Pump	LDPB2-18-TP	250	380	7 (275.6)	Ф13 (0.5)	1	
	Washer Pump	LDPB2V-60-TP	1150	380	52 (2047.2)	Ф32 (1.3)	1	
Right Angle Reduction	Type Power (W) Voltage (V) Motor Speed (rpm) Motor Level Quantity						Note	
Motor Parameters	SZG18-F-150	0-240-S-K-F-J	150	380	6.3	4	1	
	Strainer of Chip Box (µm/in)				380 (1.5×10 ⁻²)			
Fillering Accuracy		Double-layered Stra	iner (µm/in)		250 (9.8×10 ⁻³) Customizable			
Chip Load				≤180 (396.8)				
Chip Type	Used for Metal Chip	os, Chips, Powder Chi	ps and Other Fir	ie Metal Chips a	nd Non-Metal Pa	irticles with a Le	ngth of Less	Than 50mm

Tool Holders

Tool Holders require Good Clamping Performance such as High Clamping Accuracy, low vibration and the ability minimize Oil Mist during High-Speed Machining. JINGDIAO Tool Holders have Anticorrosive Properties, minimize Air Resistance, and are designed Good Dynamic Balance.

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Dimension Chart

BT30 High-Speed Tool Shank Dimension



HSK High-Speed Tool Shank Dimension



Spindle Chiller

	Specification Type	ZLJBE-18-380-C		
	Material Code	6297.0314.000000		
Product Illustration				
	Number of Air Outlets	1		
	Wind Direction	Ejection Wind		
	Power Type	380V 50/60Hz		
	Compressor Type	Frequency Conversion		
Technical Parameter	With Casters and Packing Cases	Yes		
	Control Accuracy (°C / °F)	±0.1 (±32.18)		
	Refrigerating Capacity (Kw)	1.8		
	Pump Head (m/in)	35 (1378.0)		
	Boundary Dimension (L ×W× H) (mm/in)	482×422×870 (19.0×16.6×34.3)		

Specification

Туре	Name	Size mm (in)				
		Α	В	С	L	Thread
	BT30-ER11-85S	7.5 (0.30)	19 (0.75)	35 (1.38)	82 (3.23)	M14×0.75
BT30	BT30-ER16-60S	10.5 (0.41)	30 (1.18)	50 (1.97)	67 (2.64)	M22×1.5
	BT30-ER16-100S	10.5 (0.41)	30 (1.18)	50 (1.97)	107 (4.21)	M22×1.5
	HSK-A50-ER11-080S	7 (0.28)	19 (0.75)	30 (1.18)	80 (3.15)	M14×0.75
HSK-A	HSK-A50-ER16-070S	10.5 (0.41)	30 (1.18)	40 (1.57)	71 (2.95)	M22×1.5
	HSK-A50-ER16-110S	10.5 (0.41)	30 (1.18)	40 (1.57)	111 (4.4)	M22×1.5
HSK-E	HSK-E32-ER16-060HS	10.5 (0.41)	30 (1.18)	27.5 (1.08)	65 (2.56)	M22×1.5

Minimal Quantity Lubrication

MQL cooling is used in precision grinding and micro milling. MQL reduces temperature fluctuation in machine tool ensures high quality workpiece surface finishes. MQL is essential for high accuracy work.

Dimension Unit:mm (in)



Specification

Item	
Pressure (MPa/PSI)	
Rated Pressure (MPa/PSI)	
Air Volume (L/min)	
Air Consumption Per Nozzle (L/min)	
Oil Consumption Per Nozzle (mL/h)	
Nozzle Quantity	
Weight (kg/lb)	
Mounting Pitch (mm/in)	





Spec	
0.5~0.8 (73.5~117.6)	
0.55 (80.8)	
0~220	
100	
0~30 (0~6.6×10 ⁻³)	
2	
1.5 (3.3)	
70 (2.8)	

GL370 Oil Mist Collector

The oil mist separator helps maintain a constant temperature within the cutting zone by removing the accumulation of the oil mist. It also improves the air quality in shop area.

Technical Parameter

Item	Spec	
Voltage (V)	AC380±10%	
Power (W)	370	
Current (A)	0.95	
Frequency (Hz)	50±2%	
Ambient Temperature (°C / °F)	5~40 (41~104)	
Environmental Pressure	Atmospheric Pressure	
Weight (kg/bl)	80 (176.4)	
Max. Air Volume (m³/gal) 450 (98986.2)		
Filtration Efficiency > 99%		



GL370 Oil Mist Collector

Coolant Chiller

Specification Type		ZLQE-30-380-1	ZLQ-30-380-S1	
Materi	al Code	6297.1104.000000	6297.1110.000000	
Product Illustration				
	Number of Air Outlets 3		1	
	Wind Direction	Side Wind	Ejection Wind	
	Power Type	380V 50/60Hz	380V 50/60Hz	
	Compressor Type	Fixed Frequency	Fixed Frequency	
	With Casters and Packing Cases	Yes	No	
Technical	Control Accuracy (°C / °F)	±0.5 (±32.9)	±0.5 (±32.9)	
Parameter	Refrigerating Capacity (Kw)	3	3	
	Pump Head (m)	NO	NO	
	Weight (kg/lb)	96 (211.6)	65 (143.3)	
	Boundary Dimension (L × W× H)(mm/in)	510×490×1000 (20.1×19.3×39.4)	490×535×980 (19.3×21.1×38.6)	

Rotary Table

JINGDIAO made optional rotary tables make it possible for high-precision multi-axis machining. In addition to the following types of rotary table, we can customized it according to your application.

CNC Single-Axis Vertical Rotary Table RTU85-HB

	ltem	Specification	ltem	Rotation Axis
	Overall Dimension (mm/in)	161×243×165 (6.3×9.6×6.5)	Position Accuracy (")	30
	Weight (kg/lb)	20 (44.1)	Repeatability (")	20
	Load (kg/lb)	25 (55.1)	Rated Speed (r/min)	20
	Worktable Dimension (mm/in)	Ф160 (Ф6.3)	Maximum Speed (r/min)	40
	/	/	Cooling Mode	Natural Cooling
rh	/	/	Positioning and Locking	Pneumatic Locking
	/	/	Positioning Locking Air Pressure (MPa)	0.6-0.7

CNC Double-Axis Rotary Table CRTM115-H

	Item	Specification	Item	Tilt Axis	Rotation Axis
	Overall Dimension494×318×230Position(mm/in)(19.4×12.5×9.1)Accuracy (")	8	30		
•	Weight (kg/lb)	70 (154.3)	Repeatability (")	5	20
	Load (kg/lb)	15 (33.1)	Rated Speed (r/min)	25	20
	Worktable Dimension (mm/in)	Φ150 (Φ5.9)	Maximum Speed (r/min)	50	40
	/	/	Cooling Mode	Natural Cooling	Natural Cooling
	/	/	Positioning and Locking	Optional	/
	/	/	Safety Brake	Optional	/

CNC Double-Axis Rotary Table PRTM45-HB

	Item	Specification	Item	Tilt Axis	Rotation Axis
	Overall Dimension	605×285×333	Position	8	30
	(mm/in)	(23.8×11.2×13.1)	Accuracy (")		
	Weight (kg/lb)	95 (209.4)	Repeatability (")	5	20
	Lood (kg/lb)	15 (22 1)	Rated Speed	100	20
	Load (Kg/Ib)	15 (33.1)	(r/min)	100	
	Worktable Dimension (mm/in)	Φ180 (Φ7.1)	Maximum	200	40
			Speed (r/min)	200	
	/	/	Cooling Mode	Circulating Water	Natural Cooling
	/			Cooling	
	/	/	Positioning and	Pneumatic	/
	7	/	Locking	Locking	/
	/	/	Positioning Locking	0.6+0.02	/
	1		Air Pressure (MPa)	0.0±0.02	1
	/	/	Safety Brake	\checkmark	/

Technical Specification

Dimension Unit:mm (in)



Layout Unit:

Unit:mm (in)



Items	Standard Value				
Position Accuracy (X/Y/Z) mm/ (in)	0.002/0.002/0.002 (0.00008/0.00008/0.00008)				
Repeatability (X/Y/Z) mm/ (in)	0.0018/ 0.0018/ 0.0018 (0.00007/ 0.00007/ 0.000		/ 0.00007)		
Travel (X/Y/Z) (mm/in)	600/500/300 (23.6/19.7/11.8)				
Table Size (mm/in)	650×650 (25.6×25.6)				
Max. Load (kg/Ib)		300 (6	561.4)		
Spindle Type	JD105S-28- HE32	JD130E-32- HE32	JD130S-24- BT30	JD150S-20- HA50	
Max. Spindle Speed (rpm)	28,000	32,000	24,000	20,000	
Tool Holder Type	HSK-E32	HSK-E32	BT30	HSK50-A	
Tool Magazine/Capacity	Servo Tool Magazine R28	Servo Tool Magazine R24	Servo Tool Magazine R20	Servo Tool Magazine R18	
Rapid Speed (X/Y/Z) m/min (in/min)	18 (708.7)				
Max. Cutting Feed Speed (X/Y/Z) m/min (in/min)		15 (5	90.6)		
Drive System	AC servo				
Voltage	3-Phase,480V/60Hz				
Air Pressure (MPa/PSI)	≥0.52 (75.4)				
Machine Weight (kg/lb)	5500 (12125.4) 6000 (13227.7)			3227.7)	

+ Parameters above calibrates with reference to international standard ISO 230-2.

Travel Dimension Unit:mm (in)



Standard Features and Options

Items	Configurati
Control System	
JD50 CNC System	•
CAM Software	
JDSoft SurfMill 9.0	•
Spindle	
JD150S-20-HA50	•
JD105S-28-HE32	0
JD130E-32-HE32	0
JD130S-24-BT30	0
Tool Magazine	
Servo Tool Magazine R18	•
Servo Tool Magazine R28	0
Servo Tool Magazine R24	0
Servo Tool Magazine R20	0
Cooling System	
Coolant Tank	•
Cutting Air Cooling System	•
Cutting Fluid Cooling System	0
Spindle Cooling	•
Screw Cooling	•
Conctrol Cabinet Cooling	•
Oil Mist Separation System	0
Disc Type Oil Water Separating System	0
Chip Conveyor	
Scraper Type Chip Conveyor	•
Internal Spiral Chip Conveyor	0
Measurement System	
Contact-Type Tool Set	•
Probe	0
Laser Tool Set	•
JINGDIAO On-machine Measurement System	0
Others	
Manual Pulse Generator (MPG)	•
Bag Type Filtration System FBS10	0
Coolant Refrigerator (Self-produce)	0
Oil Mist Separation System GL3702-E	0
Refrigerator ZLJB-18-380-C	•
Automatic Side Door	0
Alarm	•
Internal Lighting Switch	•

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You can find more information at us.jingdiao.com





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The pictures of the equipment are for your reference only. The configurations and parameters are subject to change without notice. The final interpretation of this brochure is owned by Beijing JING-DIAO Group Co., Ltd. Print Date: 2021.01