

GRA200

Thanks to the excellent machine design and compatibility between key components, the GRA200 is capable of "0.1µm feeding, 1µm cutting" consistent machining resulting in nano surface fisnishes.

Highlights

Learn More About GRA200

- on Full closed-loop control technology guarantees the linear axes motion accuracy.
- Jingdiao spindles are available to fulfill a variety of machining applications
- Tool inspection system is equipped to automatically monitor tool wear amount and results in higher work piece accuracy.
- **104** With the on-machine measurement system, workpieces are inspected on the machine and the results are graphically shown on the control system. Knowing the part accuracy at each machining step ensures the workpiece's quality.











GRA200



Machining Samples

Auto Brake Housing Mold Inset

Travel (X/Y/Z) mm/(in)

Size (mm/in): 141×131×197/5.6×5.6×7.8

Material: H13(HRC52)

Highlights: + Cornering with R0.5 mm ball end mill;

Max. Load (kg/lb): 50/110.2

+ JINGDIAO On-machine Measurement Technology intelligently compensates the workpiece position, resulting in accurate machining

500/280/300

(19.7/11.0/11.8)

-120~90/360

Max. Workpiece Dimension

The machine design is the foundation of the machine tool. Through continuous optimization and manufacturing, the GRA200's compact. rigid, and stable structure is ideal for

Unit: mm (in)

5-axis high speed machining.

ф260 (10.2) т

Machine Structure

Anti Vibration Design

The most classic gantry structure design is used to provide a strong support for the machine tool.



Good Rigidity

The inverted "L" structure design is good for force balance which makes the structure more compact in Z direction. This design also improves the rigidity and anti-vibration ability of machine tool.



at designated locations to improve the stability of the machine tool. The feet are also covered in a rubber material which reduces vibration.

The feet of the machine tool are arranged



Good Thermal Stability

The all encomposing cooling design, includes rotary table cooling, bearing cooling, ball screw cooling technology, and is equipped with machine cover.



III III

Suitable for 5-Axis Machining

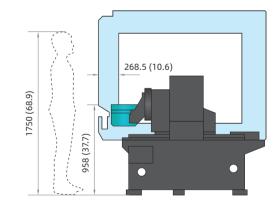
The sharp structure design at bottom of machine head lengthens the nose end of spindle and helps avoid 5 axis machining interference.



Ergonomics

We design the machine based on ergonomics principles to provide convenient operation experience to our customers.

- + The panel of the CNC system can be adjusted to the appropriate angle according to the needs, while being operated in a comfortable position.
- + The distance between the worktable and the operator is ideal which is convenient for workpiece loading and unloading.
- + Pneumatic and lubricating components are installed on the right side of the machine, which is convenient for inspection and maintenance.
- + The machine tool door has a large-sized window, which makes it easy to view the machining process.



Facial Massager Parts Mold

Size (mm/in): 150×150×60/5.9×5.9×2.4 Material: \$136(HRC52)

Highlights: + Corner machining is perfect as length to diameter ratio of R0.4 mm cutting tool can be reduced less than 2:1 by using Jingdiao 5-axis machine tools;

- + Tool wear of R0.4 mm cutting tool is less than 5µm during 27 hours of machining;
- + Our mirror finishing eliminates the need for hand polishing;
- + Clearance fit is less than 5 µm, products have no fins.

Glass-Ceramic Aspheric Lens

Size (mm/in): φ190×31/φ7.5×1.2

Material: Glass-ceramic

Highlights: + Surface roughness Sa<0.05 μm;

+ Profile tolerance is less than 5 mm.

Medical Bone Rasp

Size (mm/in): 99×29×17/3.9×1.1×0.7

Material: 17-4 Stainless Steel

Highlights: + Cycle time including roughing and finishing is only 4h 15min;

+ Witness mark on each surface is less than 0.01 mm;

+ Since there are no burrs on the workpiece, the deburring process is eleiminated.



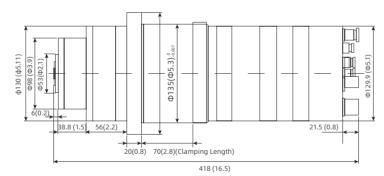
Basic Specification

Clamping Diameter (mm/in): Φ135/Φ5.3(0,-0.007)

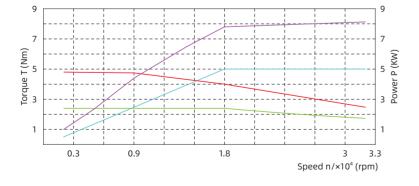
Output Power (S6-60%) (KW): 5.0 Output Torque (S6-60%) (Nm): 2.4

Speed (rpm): 32,000 Tool Holder: HSK-E32 Weight (kg/lb): 25/55.1

Dimension Unit: mm (in)



Output Performance





Performance

- + Taper Bore Radial Runout ≤1.5 μm (5.9×10⁻⁵ in)
- + Rotor End Face Axial Runout ≤1 μm (3.9×10⁻⁵ in)
- + Vibration at Maximum Speed \leq 0.6 mm/s (1.44 ipm)

Optional

JD150SC-20-HA50/A (Coolant Through Spindle)

Speed: 20,000rpm Tool Holder: HSK-A50



Basic Specification

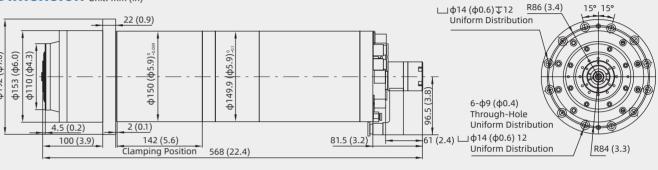
Clamping Diameter (mm/in): Φ 150/ Φ 5.9 (0, -0.009) mm

Output Power (S6-60%): 18 KW Output Torque (S6-60%): 21.5 Nm Weight (kg/lb): 46.5/102.5

When machining with coolant through spindle, the cutting fluid or cutting oil is ejected to the tool tip through the hole of the internal cooling tool. This can improve the cooling and lubricating effects on the tool and workpiece. Coolant through spindle is hepful in deep hole drilling since the chips are quickly discharged through the spiral groove of the drill. This greatly improves the machining efficiency and tool durability.

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

Dimension Unit: mm (in)



JD135S-24-BT30/FA

Speed (rpm): 24,000 Tool Holder: BT30

JD150S-20-HA50/C

Speed (rpm): 20,000 Tool Holder: HSK-A50

Cutting Test Results (Spindle Type JD135E-32-HE32/F 32,000rpm)

ltom	Material	Teeth Tool Size Cutting Width (mm/in) Spindle Spe		Spindle Speed	Cutting Feed Rate	Cutting Capacity	
Item	Material	Number	mm/in	Cutting Depth (mm/in)	rpm	mm/min (in/min)	cm³/mm
abo	Aluminum	7	ф80/ф3.15	70/2.8	6,000	3,200 (126.0)	448
	Atulillium	,	φου/ φο.15	2/0.08	0,000	3,200 (120.0)	440
96	Steel	4	ф50/ф2.0	45/1.8	1,000	1,000 (39.3)	36
Face Mill	Sieei	4	ψ30/ψ2.0	0.8/0.03		1,000 (39.3)	50
M	Aluminum	4	ф16/ф0.6	3.2/0.1	10,000	3,200 (126.0)	327.68
JA _{TI} .	Atummum	4	ψ10/ψ0.0	32/1.3			
342	Steel	4	ф16/ф0.6	1/0.04	3,600	2,400 (94.5)	76.8
End Mill	Sieei	-	φ10/φ0.0	32/1.3	3,000	2,400 (94.3)	70.0
(h)	Aluminum	2	ф24/ф0.9	/	1,000	200 (7.9)	/
4	Steel	2	ф24/ф0.9	/	1000	100 (3.9)	/
Drill							
7	Aluminum	2	M20×1.5	/	700	1,050 (41.3)	/
	Steel	2	M14×1.5	/	400	600 (23.6)	/
Tap						,	

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

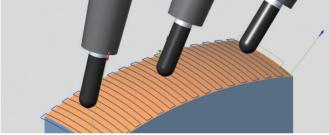
JD50 CNC System

The JD50 CNC system developed by JINGDIAO is the brains of machine tools. It has the basic functions seen other control systems, but also includes several complete 5-axis modules developed by JINGDIAO's R&D department. This is how JINGDIAO 5-axis machine tools achieve high machining accuracy, and mirror finishes. Our machining modules are flexible and can be customized based on a customer's machining application.



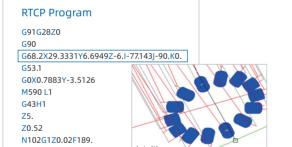
- + The programming resolution and control resolution are 0.1 µm (3.9×10⁻⁶ in).
- + Supports linear, plane arc, space arc, spiral line, spline and involute interpolation methods.
- + Support pitch compensation and reverse clearance compensation.
- + Support RTCP multi-axis motion control.





0.1µm Feed, 1µm Cutting

Not RTCP Program G91G28Z0 G0X0.7883Y2.4874A-90.C-77.1431 G43H1 Z35.0874 Z30.6074 N102G1Z30.1074F189. Not intuitive





RTCP



System Advantages

+ Various programming methods and flexible technical process design.

ROS ROS MET ME IN ME ME ME

+ Abundant types of interfaces and buses, with strong peripheral expansion

DEP MES

CHESTS.

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

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	B10 - 🙉 🏂	0						
	A			В			С	
	Tool NO.			1			0. ODegre	
	Time		2020.0	4. 21-1	2:56:43	3	10. ODegre	;
	Parameter		Mea	sure I	Data		20. ODegre	
	Length			0			30. ODegre	
	Radius			0			40. ODegre	
	Fit R Value						50. ODegre	
	Avarage A Value						60. ODegre	
	Max deviation						70. ODegre	
	Min deviation						80. ODegre	
	Contour Range			0			90.ODegre	

F7 MDI

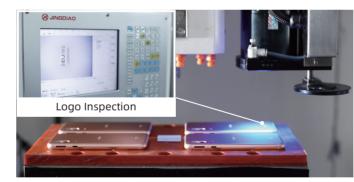
Task Text Graph Draft Check

Advanced Features

- + Supports on-machine contact and non-contact measurement, which can realize high-precision 2D and 3D measurement.
- + Built-In CAM technology and intelligent modification technology supports the on-machine tool-path deformation compensation machining.

G100 Instructio Data Managemen

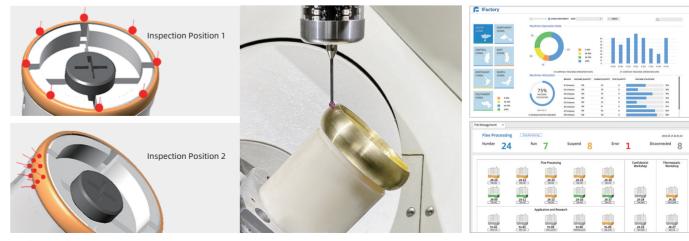
+ Supports multiple communication protocols including remote monitoring.





Non-Contact Measurement

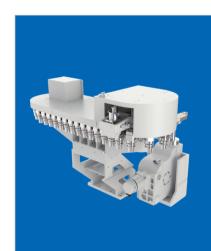
Contact Measurement



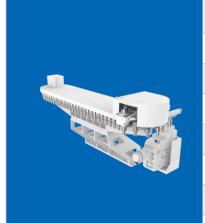
Surface Deformation Compensation

Remote Monitoring of Machines





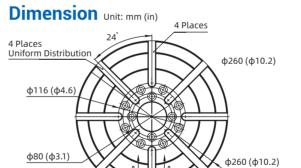
Туре	Chain Type Tool Magazine with Manipulator			
Capacity	37			
Tool Holder	HSK-A50	BT30	HSK-E32	
Allowable Maximum Tool Length (mm/in) (From End of Spindle)	170/6.7	155/6.1	155/6.1	
Maximum Diameter of Contiguous Tools (Full) (mm/in)	50/2.0	50/2.0	50/2.0	
Maximum Diameter of Contiguous Tools (Vacant) (mm/in)	90/3.5	90/3.5	90/3.5	
Max. Load of Each Position (kg/lb)	3.5/7.7	3/6.6	1.5/3.3	
Max. Load of Tool Magazine (kg/lb)	85/187.4	85/187.4	85/187.4	

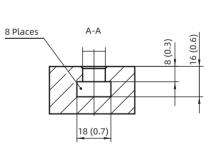


Туре	Chain Type Tool Magazine with Manipulator		
Capacity	63		
Tool Holder	HSK-A50	BT30	HSK-E32
Allowable Maximum Tool Length (mm/in) (From End of Spindle)	170/6.7	155/6.1	155/6.1
Maximum Diameter of Contiguous Tools (Full) (mm/in)	50/2.0	50/2.0	50/2.0
Maximum Diameter of Contiguous Tools (Vacant) (mm/in)	90/3.5	90/3.5	90/3.5
Max. Load of Each Position(kg/lb)	3.5/7.7	1.5/3.3	1.5/3.3
Max. Load of Tool Magazine (kg/lb)	125/275.6	125/275.6	125/275.6

Features

- + The double-axes are driven by a high precision responsive torque motor;
- + The compact rotary table adopts a cantilever structure, which occupies a space small resulting in convenient operation;
- + Circulating water cooling technology reduces thermal deformation;
- + 5-Axis synchronous machining, multi-surface positioning machining;
- + The hollow design of C-axis is conducive to the configuration of a variety of pneumatic fixtures.





Specification

Item	Tilt Axis	Rotation Axis
Position Accuracy (")	8	8
Repeatability (")	5	5
Rapid Feed Rate(rpm)	60	100
Cutting Speed (rpm)	60	100
Cooling Mode	Circulating Water Cooling	Circulating Water Cooling
Positioning Locking Mode	Pneumatic Locking	Pneumatic Locking
Positioning Locking Air Pressure (MPa/PSI)	0.6/87	0.6±0.02/87±2.9
Safety Brake	V	

Accessories

Material Handling System

JINGDIAO material handling systems are able to increase your production capacity. The automatic workpiece loading and unloading reduces set up time. JINGDIAO technologies like OMIM, easy start, and DT further improves safe and continuous machining. JINGDIAO's own MHS25 and MHS30 material handling systems are available to increase your working capacity.

MHS30

Specification

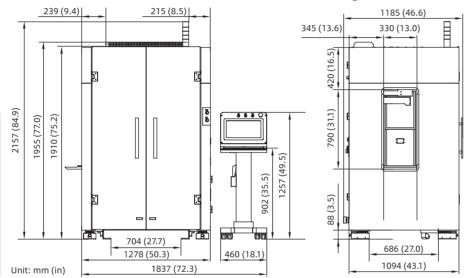
MHS30 Specifications					
Feeding System	MHS30-SR18A	MHS30-SR24A1	MHS30-SR32A	MHS30-SR18B	
Load (kg/lb)		3	30 (66.1)		
Storage Capacity	18	24	32	18	
Workpiece Dimension (mm/in)	170×170×200 (6.7×6.7×7.9)	120×120×200 (4.7×4.7×7.9)	120×120×200 (4.7×4.7×7.9)	ф100×230 (Jack-up structure) (Ф3.9×9.1)	
Machine Dimension	1100×2600×2000 (43.3×102.4×78.7)				
Weight (kg/lb)	1500 (3306.9)				



MHS25

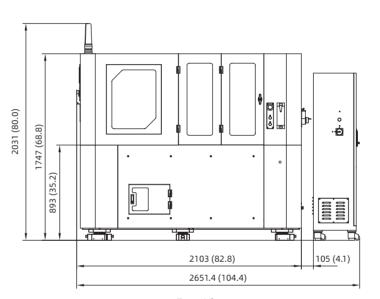
Specification

N	MHS25 Specifications				
Feeding System	MHS25-SF42	MHS25-SF96B	MHS25-SF63A		
Load (kg/lb)	25 (55.1)				
Storage Capacity	42	96	63		
Workpiece Dimension (mm/in)	120×120×120 (4.7×4.7×4.7)	Ф60×100 (Ф2.4×3.9)	120×100×100 (4.7×3.9×3.9)		
Machine Dimension	1280×1100×1970 (50.4×43.3×77.6)				
Weight (kg/lb)	1000 (2204.6)				

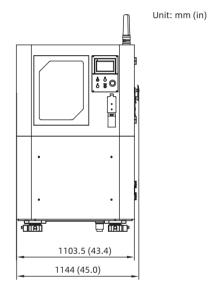


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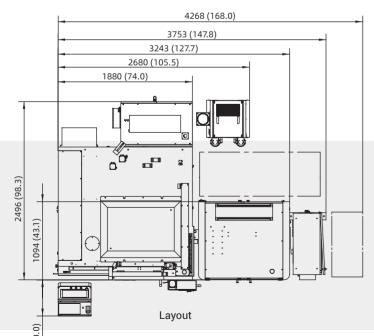




Front View

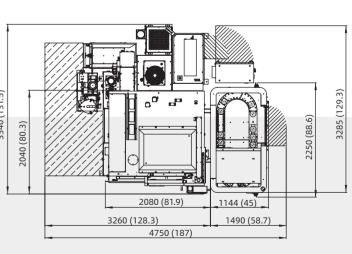


Left View









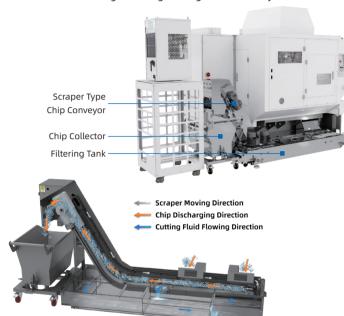
Layout

Scraper Style Chip Conveyor System

The scraper style chip conveyor collects and filters out the collection of cutting chips from the machining fluid.

Features

- + Improves maintenance by moving the chips into disposal container.
- + Cutting fluid service life is extended by using a multistage filtration unit.
- + Equipped with a cleaning mechanism and drop recovery mechanism which is self cleaning resulting cutting fluid recovery.



Appropriate Chip Types

Material	Chip Form	Chip Size	Applicability
		Long	•
Steel		Short	•
		Powder	•
Continue		Short	•
Cast Iron		Powder	•
		Long	•
Aluminum/ Non-ferrous Metal		Cumulus	•
	工厂	Short	•

• :Ideal • :Suitable • :Not Suitable

Oil Mist Collector

Chip Conveyor Principle ▲

The oil mist collector reduces the rise of internal temperature caused by the oil mist accumulation. It eliminates the diffusion of oil mist, reduces the internal electrical fault of the machine tool, improves the stability of equipment operation, reduces air pollution, and protects the workshop environment.



JDACM300 Oil Mist Collector ▶

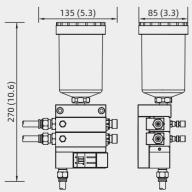
Specification

ltem	Spec
Voltage (V)	AC380±10%
Power (W)	290
Current (A)	0.9
Frequency (Hz)	50±2%
Ambient Temperature (°C / °F)	5~40/41~104
Environmental Pressure	Atmos
Weight (kg/lb)	450/2.7×107
Max. Air Volume (m³/in³)	450/2.7×107
Filtration Efficiency	> 99%

Minimal Quantity Lubrication (MQL)

MQL cooling technology is used in precision grinding and micro milling. Equipped with MQL, the temperature fluctuation in the machine can be controlled within 0.5 °C (32.9

Dimension Unit:mm (in)



Specification

Item	Spec
Pressure (MPa/PSI)	0.5~0.8/73.5~117.6
Rated Pressure (MPa/PSI)	0.55/80.8
Air Volume (L/min)	0~220
Air Consumption per Nozzle (L/min)	100
Oil Consumption per Nozzle (ml/h)	0~30
Nozzle Quantity	2
Weight (kg/lb)	1.5/3.3
Mounting Pitch (mm/in)	70/2.8

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.

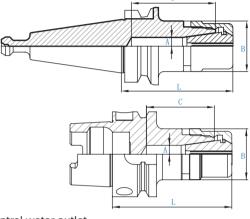
JINGDIAO tool holders have anti-corrosive styles, minimize air resistance, and ar designed good dynamic balance. Our tool holders are available in various styled including BT30, HSK.



Technical Parameter

Tyrno	Type Name		Size mm (in.)				
Туре	Maille	Α	В	C	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-A40-ER16-060HS	10.5 (0.41)	30 (1.18)	28.5 (1.12)	65 (2.56)	M22×1.5	
HSK-A	HSK-A50-ER11-080S	7 (0.28)	19 (0.75)	30 (1.18)	80 (3.15)	M14×0.75	
пэк-А	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 (4.37)	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	

Dimension Comparison Chart

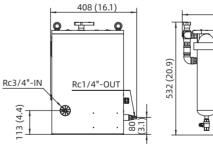


CTS Coolant System

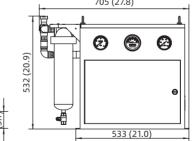
Provides high-pressure and clean cutting fluid(oil) for CTS to realize the function of central water outlet.

CTS Coolant System (2MPa)





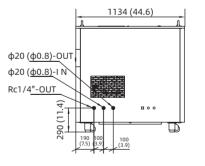


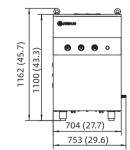


CTS Coolant System (5MPa)









Specification

Specification Type	JDAZX20 JDAZX50				
Pressure Regulating Scope	0.8~2 MPa	2.5~5 MPa			
Filtration Accuracy	5 μm 10 μm				
Spindle	JD150SC-20-HA50/A				
Machining Type	Grinding,Milling	Milling			
Cutting Tool	Hollow Cutting Tools with Diameter over φ6 mm Hollow Cutting Tools with Diameter over φ2 mm				
Application	Deep hole drilling, inner cavity machining and inner cavity cleaning				
Application requirement	Inlet filtering accuracy of cutting fluid (oil) is required within 250 µm				

Distinctive Technologies

On-Machine Measurement and Intelligent Modification Technology

JINGDIAO's innovative on-machine measurement and intelligent modification technology (OMIM) is an ideal solution that integrates CAD/CAM programming technology, numerical control processing and precision inspection technology. Its intelligent application can effectively shorten the production cycle of the workpiece, streamline the processing flow, and improve quality and efficiency for production and machining.

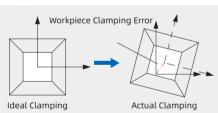
The Function of JINGDIAO OMIM is Mainly Reflected in Three Aspects

+ Intelligent Workpiece Alignment

This feature automatically corrects the workpiece alignment by probing workpiece position which automatically adjusts the program accordingly in control. This reduces workpiece setup time, improves machining quality and increases production.



01-Support Multiple Workpiece Position Compensation Methods

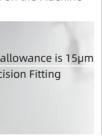


03-Workpiece Position Compensation



02-Obtain Actual Position on the Machine





04-Verification of Position Compensation Accuracy

+ Machining Step Remaining Stock Inspection

With this feature, the remaining stock at each step can be measured in real time, and the inspection results will be feedback on the screen of control system. The operator can analyze these results to make sure every step is removed at the right amount of material.



Inspect the Remaining Stock on the Machine

Real Time Display of CNC System



Before Modification: 7 µm

After Modification: 4 µm

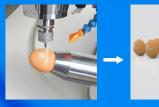
Achieve Stable Precision Machining

+ 5-Axis Path On-Machine Compensation

The CAM function embedded in the CNC system can compensate for the inaccurate machining path, which is created by a irregular workpiece shape, clamping deformation and clamping devi-



Adjust Processing Path



Egg Processing **Egg Demonstration**

A New Model of Numerical Control Processing

+ Machining and inspection are achieved on one machine, forming a new model of "integration of machining and inspection".

Surface Data

Measurement

- + The digitalization of CNC machining experience enables a entry-level operator to complete precision machining.
- + The actual processing time proportion of CNC machines has increased from 25% -45% to 45% -70%



Before Using Integration of Machining and Inspection

After Using Integration of Machining and Inspection

Tool Inspection System

During the 5-axis machining process, JINGDIAO tool inspection system can inspect the errors of different positions of the tool contour of the bull nose tool, ball-end tool and other tools for precision machining and compensate intelligently. This can effectively reduce the unqualified workpiece accuracy caused by the tool inaccuracy.



Realization

* Tool Type



JIGNDIAO CAM Software



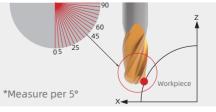
Standard Laser Tool Set

JIGNDIAO CNC System









Inspect Tool Contour on the Machine



G41 P2 D3 X-73.5376 Z-1.8930 NX6711.5031 NY-1.5915NZ7413.2128

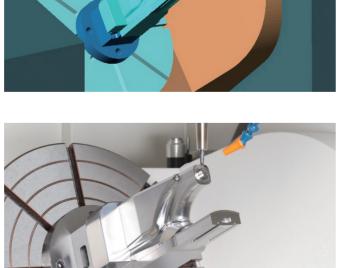
Compensate Tool Contour Deviation

JINGDIAO JINGDIAO Digital Twin (DT) Technology With JINGDIAO's software, the actual production materials and process parameters are digitized to ensure the correct information is selected by the process personnel, material preparation personnel and the operator. This creates a seamless integration process development, material preparation and machine operation, and improves the accuracy and fluency of the machining Process.

Ensuring the Safety of 5-Axis Machining

Five-axis milling is a complex machining process. During the machining there is the risk of collisions between tools, tool holders and the workpiece. JINGDIAO uses its SurfMill software to establish the connection between production materials, CAM programming and actual processing in a virtual environment. The user can build the same digital scene in the software, simulate the machining process, analyze and adjust the process, and eliminate the machining risk in the software programming stage.







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Machine Bank

Tool Holder Bank

Fixture Bank

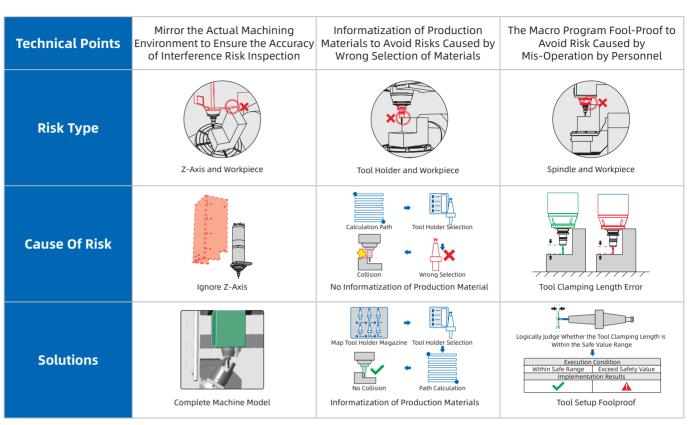






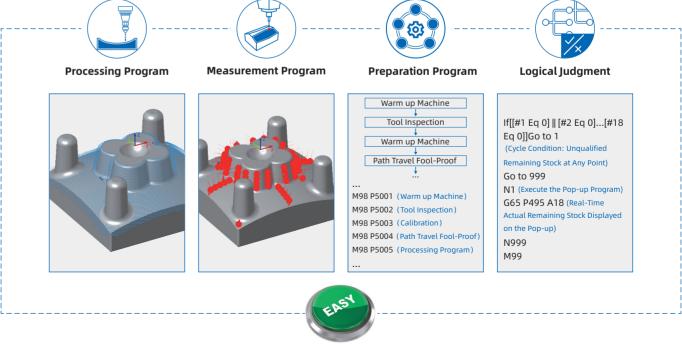


Application Scenarios of JINGDIAO DT Technology



Easy Start

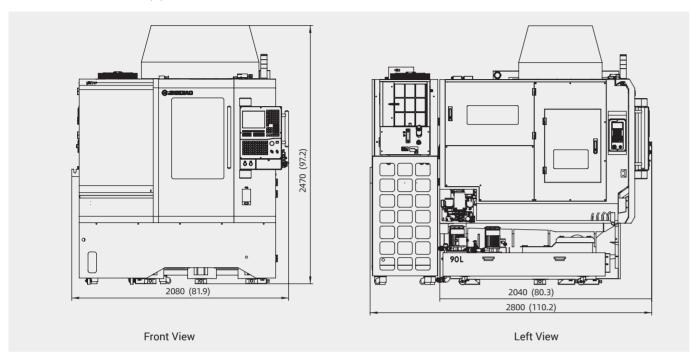
With this software, the program processing, measurement, preparation and logical judgment are combined into one program. The operator only needs to press the start button to begin the processing of the part which reduces machine setup time.



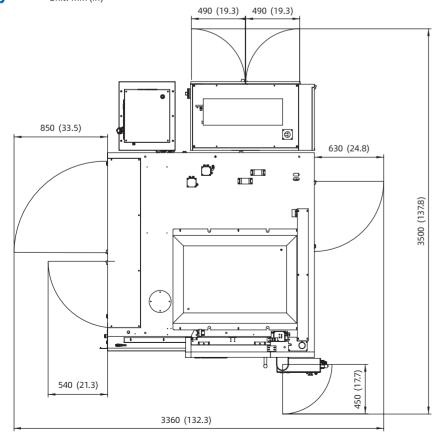
Processing Easy Start 15 16

Technical Specification

Dimension Unit: mm (in)



Layout 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)
Position Accuracy (B/C) sec	8/8
Repeatability (X/Y/Z) mm/ (in)	0.0018/ 0.0018/ 0.0018 (0.00007/0.00007/0.00007)
Repeatability (B/C) sec	5/5
Travel (X/Y/Z) (mm/in)	500/280/300 (19.7/11.0/11.8)
A/C Rotation Angle deg	-120~90/360
Table Diameter (mm/in)	φ260/φ10.2
Max. Load (kg/lb)	50/110
Max. Spindle Speed rpm	32,000rpm (HSK-E32)
	24,000rpm (BT30)
	20,000rpm (HSK-A50)
Tool Magazine/Capacity	HSK-E32/BT30/HSK-A50: 37 Chain Type Tool Magazine with Manipulator
	HSK-E32/BT30/HSK-A50: 63 Chain Type Tool Magazine with Manipulator
Rapid Speed (X/Y/Z) m/min (in/min)	15 (590.6)
Rapid Rotation Speed (A/C) rpm	60/100
Max. Cutting Feed Speed (X/Y/Z) m/min (in/min)	10 (393.7)
Max. Cutting Feed Speed (A/C) rpm	60/100
Drive System	AC Servo
Voltage	3-Phase, 480V/60Hz
Air Pressure (MPa/PSI)	≥0.52/75.4
Machine Weight (kg/lb)	5900/13007.3

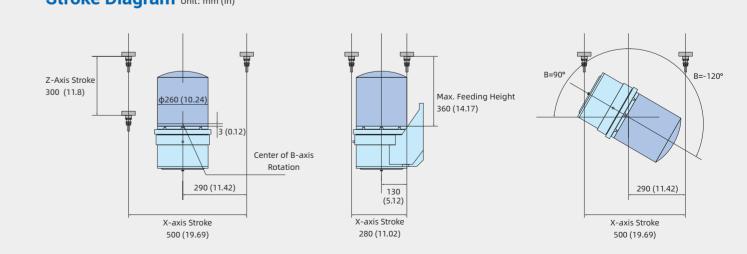
Standard Features and Options

Items	Configuration
Control System	
JD50 CNC System	•
CAM Software	
JDSoft SurfMill 8.0	0
Spindle	
JD135E-32-HE32/F (HSK-E32, Precision Machining)	•
JD135S-24-BT30/FA(BT30)	0
JD150S-20-HA50/C (HSK-A50)	0
JD150SC-20-HA50/A (HSK-A50)	0

Tool Magazine Chain Type Tool Magazine with Manipulator (37 Tools) Chain Type Tool Magazine with Manipulator (63 Tools) Cooling System Coolant Device (Ring Nozzle, 4 Nozzles) Coolant Tank Cutting Air Cooling System	•
Chain Type Tool Magazine with Manipulator (63 Tools) Cooling System Coolant Device (Ring Nozzle, 4 Nozzles) Coolant Tank	0
Cooling System Coolant Device (Ring Nozzle, 4 Nozzles) Coolant Tank	-
Coolant Device (Ring Nozzle, 4 Nozzles) Coolant Tank	•
Coolant Tank	•
Cutting Air Cooling System	•
3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	•
Spindle Cooling	•
Rotary Table Cooling	•
Screw Cooling	•
Control Cabinet Cooling	•
Oil-Water Separating System	0
Oil-Mist Separation System	0
Micro Mist Lubrication	0
Chip Conveyor	
Scraper Type Chip Conveyor	0
Internal Spiral Chip Conveyor	0
Chip Conveyor Interface	0
Chip Collection	0
Measurement System	
Contact-Type Tool Set	•
Laser Tool Set	•
JINGDIAO On-Machine Measurement System	0
Standard Calibrating Ball	0
Others	
MPG (Manual Pulse Generator)	•
Bag Type Filtration System	0
Hollow Filtration System	0
Front Door Safety Lock	•
Low Oil Pressure Inspection Device	0
Low Air Pressure Inspection Device	•
Ground Protector of Power Leakage	•
Machine Foot	•
Alarm	•
Lubricating Oil Inspection	•
Auto Power off Function	0
Internal Lighting Switch	•
Dynamic Balance Holder	0

•: Standard O: Optional

Stroke Diagram Unit: mm (in)





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.