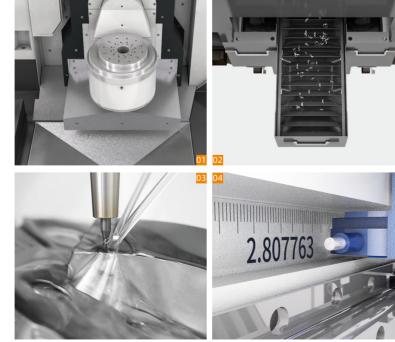


With fully closed-loop control technology, the GRU100 is suitable for 5-axis machining of small precision mold, small precision and complex hardware parts. Highlights Cooling technology of the rotary table, bearings and screw nut are chilled which makes them thermally stable. The fully enclosed structure further enhances thermal stability of the work environment.

- 102 Inclined design and drawer type collection box makes it easy to collect machining chips . Waste recycling rate reaches 3‰.
- JINGDIAO 5-axis high-speed machining centers are designed for the stable precision machining, "0.1 μm feeding, 1 μm cutting, nano surface finish"
- 104 The fully closed loop axis drives are equipped with linear glass scales which ensure machining and positioning accuracy.
- The machine weighs 2.5 ton (5511.56 lb) and has a compact footprint of $1670 \text{mm} \times 2210 \text{mm} (5.48' \times 7.25')$.

Learn More About GRU100





Machining Samples



Medical Bone Rasp

Size (mm/in): 99×29×17/3.90×1.17×0.67 **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;

 $oldsymbol{+}$ Since there are no burrs, secondary processes are

eliminated.



Ring Carving Patterns

Size (mm/in): Φ24.0×4.8/Φ0.94×0.19

Material: Al 6061

 $\textbf{Highlights:} \ + \texttt{JINDIAO} \ \texttt{SurfMill} \ \texttt{CAM} \ \texttt{"Carving Patterns"} \ feature$

makes it easy to program jewelry patterns;
+ The entire processing time is 17min 10s;

+ No machining marks on the surface under 40x

magnifier.

Fresnel Lens Mold

Size (mm/in): Φ30×60/Φ1.18×2.36

Material: S136 (HRC50)

Highlights: + Stable 2 μm cutting for 99 h with

R0.1 μ m PCD cutting tool and the tool wear is less than 1 μ m;

+ Surface roughness Sa < 0.05 μ m;

+ Dimensional accuracy is ±5 μm.



Mirror Mold

Size (mm/in): 75×75×40/2.95×2.95×1.57

Material: Stavax (HRC50)

Highlights: + Continuous finishing with R1 PCD

cutting tool for 20h, stable cutting

volume of 3 μm;

+ Sa <4 nm, PV <3 μ m.



Bracelet Processing Stripe

Size (mm/in): Φ68.0×5.0/2.68×0.20

Material: Al 6061

Highlights: + 800 shading processing in one minute;

+ Witness mark in nearly impossible to see under

40x magnifier.

Special-Shaped Bracelet

Size (mm/in): 62.0×52.0×5.0/2.44×2.05×0.20

Material: Al 6061

Highlights: + Our 5-axis high-speed machining

centers are equipped with JING-DIAO on-machine measurement and intelligent modification technology which conforms the NC program to the shape of the work

piece.



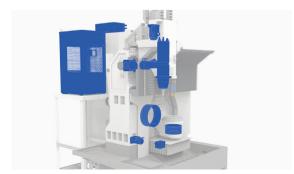
Higher Motion Accuracy

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



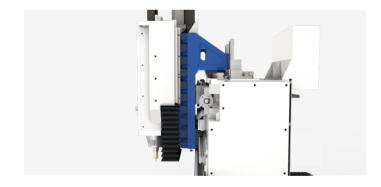
Good Thermal Stability

+ All round cooling design, using rotary table cooling, bearing cooling, screw cooling technology, and equipped with fully enclosed machine covers.



Better Machine Rigidity

+ Inverted "L" structure.



Less Interference in 5-Axis Machining

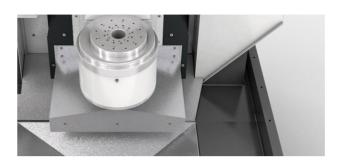
+ The sharp structure of the machine head bottom lengthens the nose head of the spindle.



Designed for Convenient Precious Metal Recycling

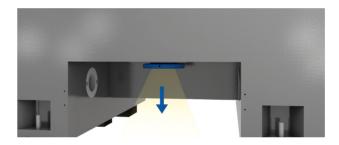
+ Stainless Steel Sheet Metal

The stainless steel sheet metal located machining area of the machine tool, makes it easy to clean up the processing waste.



+ Recycling Filter Bags

Install a filter bag to improves the recovery rate precious metal debris.



+ Drawer Type Collection Box

The upper part of the machine oil tank adopts a drawer type collection box, which is convenient for cleaning and recycling of precious metal debris.



+ Labyrinth Protective Structure

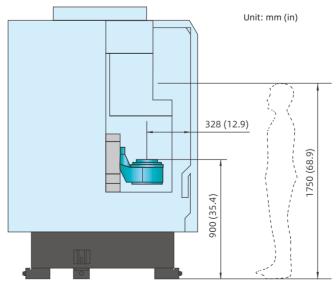
The machine uses a labyrinth structure which has higher protection level design to prevent chips from entering the machine tool area.



Ergonomics

The structural designed of each operation part conforms to ergonomics.

- + The worktable is close to the operator ,which makes it easy to load and unload the workpiece.
- + The display height of the console is ideal for the operator of average height.
- + Pneumatic components and lubricating components are all installed on the left side of the machine, which is convenient for inspection and maintenance.

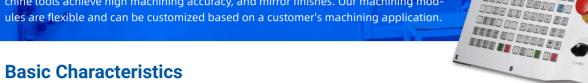




Key Components

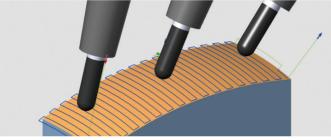
JD50 CNC System

The JD50 CNC system developed by JINGDIAO is the brains of the machine. 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.



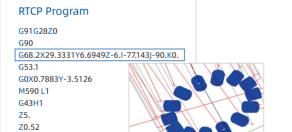
- + The programming resolution and control resolution are 0.1 μm (3.9×10⁻⁶ in).
- + Supports linear, plane arc, space arc, spiral line, spline and involute interpolation methods.
- + Support pitch compensation and reverse clearance compensation.
- + Support RTCP multi-axis motion control.





0.1µm Feed, 1µm Cutting

Not RTCP Program G91G28Z0 G0X0.7883Y2.4874A-90.C-77.1431 G43H1 Z35.0874 730 6074 N102G1Z30.1074F189. Not intuitive





7 8 9



RTCP



N102G1Z0.02F189.

System Advantages

+ Various programming methods and flexible technical process design.

NO NO NET NO SE SE SE SE

....

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

DES RES

(DEBER

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

1 Tool NO 0. ODegre 2020.04.21-12:56:43 2 Time 10. ODegre Parameter 20. ODegre Length Radius 40. ODegre Fit R Value 50. ODegre Avarage A Value 60. ODegre 70. ODegre Contour Range **9**0. ODegre

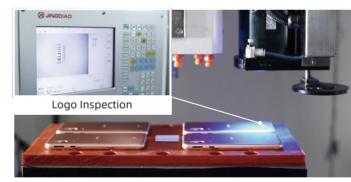
Advanced Features

- + Includes on-machine contact and non-contact measurement functions, which results in high-precision 2D and 3D measurements.
- + Built-In CAM technology and intelligent modification technology supports the on-machine tool-path deformation compensation machining.

G100 Instruction

Data Management

+ Incorporates multiple communication protocols and remote monitoring.





Non-Contact Measurement

Contact Measurement



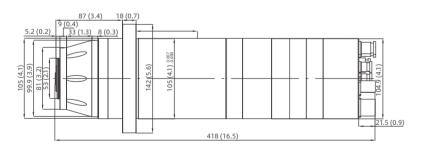
Surface Deformation Compensation

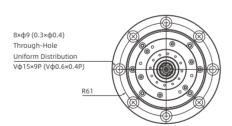
Remote Monitoring of Machines

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. JD105S-28-HE32/F

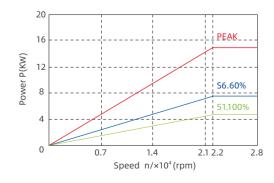
Dimension

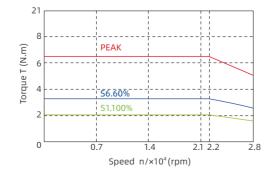
Unit:mm (in)





Output Performance





Basic Specification

Clamping Diameter (mm/in): ϕ 105 (0,-0.007) mm ϕ 4.13 (0,-0.00028) in

Output Power (S6-60%): 7.6 KW Output Torque (S6-60%): 3.3 N·m

Speed: 28,000 rpm Tool Holder: HSK-E32 Weight (kg/lb): 13.3/29.32

Performance

- + Taper bore radial runout $\leq 1.5 \,\mu\text{m} (5.9 \times 10^{-5} \,\text{in})$
- + Rotor end face axial runout $\leq 1 \, \mu m \, (3.9 \times 10^{-5} \, in)$
- + Vibration at maximum speed ≤0.6 mm/s (1.44 ipm)

Optional



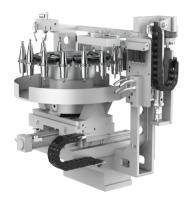
- Oldont Through Spindle:JD105SC-28-HE32 (28,000 rpm/HSK-E32)
- DE High-Speed Precision Spindle: JD105E-36-ISO20/F (36,000 rpm/ISO20)
- Spindle for Precision Machining:JD105E-32-HE32/F (32,000 rpm/HSK-E32)
- Migh-Speed Precision Spindle:JD130E-32-HE32/F (32,000 rpm/HSK-E32)
- 5 Spindle for Precision Machining:JD130S-24-BT30/F (24,000 rpm/BT30)

Cutting Test Results (Spindle Type JD105S-28-HE32/F 28,000rpm)

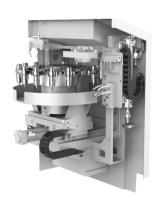
Item	Material	Teeth	Tool Size	Cutting Width (mm/in)	Spindle Speed	Cutting Feed Rate	Cutting Capacity	
iteiii	Material	Number	mm/in	Cutting Depth (mm/in)	rpm	mm/min (in/min)	cm³/mm	
also	Aluminum	3	ф10 (ф0.39)	8/0.31	10,000	3,000 (118.1)	24	
	Ataminam		φτο (φο.52)	1/0.039	10,000	3,000 (110.1)	24	
	Steel	4	ф10 (ф0.39)	6/0.24	4,000	1,600 (63.0)	1.92	
Face Mill	Sieei		φτο (φο.59)	0.2/0.0079	4,000	1,000 (03.0)	1.92	
89	Aluminum	3	ф10 (ф0.39)	0.2/0.0079	10,000	3,000 (118.1)	9	
ØA11.	Ataminam	5	φτο (φο.59)	15/0.59	10,000	3,000 (116.1)		
34	Steel	4	ሐ10 (ሐ0 20)	0.1/0.0039	4,200	1,600 (63.0)	2.4	
End Mill	Sieei	4	ф10 (ф0.39)	15/0.59	4,200			
- (/)	Aluminum	2	ф8 (ф0.31)	1	1,600	500 (19.7)	/	
(∤) Drill	Steel	2	ф6 (ф0.24)	1	1,200	100 (3.9)	/	
-1	Aluminum	2	M8×1	1	800	800 (31.5)	/	
Tap	Steel		M6×1	1	500	500 (19.7)	/	

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





Tool Magazine	Servo Tool Magazine 1
Tool Holder	ISO20
Capacity	16
Allowable Maximum Tool Length (mm/in) (From End of Spindle)	120/4.72
Maximum Diameter of Contiguous Tools (Full) (mm/in)	40/1.57
Maximum Diameter of Contiguous Tools (Vacant) (mm/in)	40/1.57
Max. Load of Each Position(kg/lb)	0.4/0.88
Max. Load of Tool Magazine (kg/lb)	6.4/14.11



Tool Magazine	Servo Tool Magazine 2
Tool Holder	HSK-E32
Capacity	16
Allowable Maximum Tool Length (mm/in) (From End of Spindle)	120/4.72
Maximum Diameter of Contiguous Tools (Full) (mm/in)	40/1.57
Maximum Diameter of Contiguous Tools (Vacant) (mm/in)	40/1.57
Max. Load of Each Position(kg/lb)	0.4/0.88
Max. Load of Tool Magazine (kg/lb)	6.4/14.11

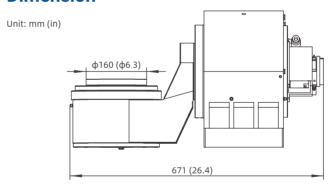


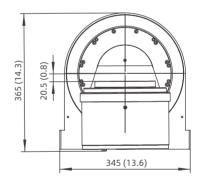
Tool Magazine	Servo Tool Magazine 3
Tool Holder	BT30
Capacity	14
Allowable Maximum Tool Length (mm/in) (From End of Spindle)	120/4.72
Maximum Diameter of Contiguous Tools (Full) (mm/in)	40/1.57
Maximum Diameter of Contiguous Tools (Vacant) (mm/in)	40/1.57
Max. Load of Each Position(kg/lb)	3/6.61
Max. Load of Tool Magazine (kg/lb)	42/14.11

Features

- + The rotary table is a cantilever structure..
- + Five axis simultaneous processing, multi surface positioning processing.
- + Direct drive motor, with emergency braking function.
- + B-axis adopts pneumatic locking method, and contains a brake structure.
- + Both b and c axis are cooled by circulating water cooling to reduce the thermal deformation.
- + The encoder and limit structure are external, which is convenient for maintenance.
- + The chip resistant sheet metal makes it easy to clean.

Dimension





Specification

Item	Tilt Axis (B)	Rotation Axis (C)
Weight (kg/lb)	130/286.60	40/88.18
Position Accuracy (")	8	8
Repeatability (")	5	5
Cooling Mode	Circulating Water Cooling	Circulating Water Cooling
Positioning Locking Mode	Pneumatic Locking	
Positioning Locking Air Pressure (MPa/PSI)	0.6±0.02/8.8±2.9	
Safety Brake	√	

Accessories

Flexible Manufacturing System

Flexible Manufacturing System is mainly composed of handling manipulator, storage module and the control system. It is equipped with tridimensional fixed plate exchange system, which can realize the automatic handling of workpiece under the condition of no human intervention.









Processing System Feeding

Clamping Syste

Software Syste

Production Mode

The exceptional features of JINGDIAO 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	Operator	Technologist	Dispatcher	Workshop Supervisor
Obtain Production Information	Maintain	Synchronous Programming	Production Scheduling	Real Time Statistics of
in Time	Preparation	Network Transmission	Flexible Adjustment	Machine State

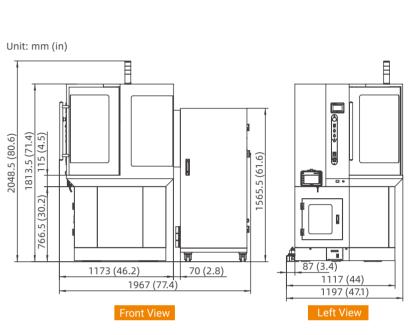
JDFMS15

Specification

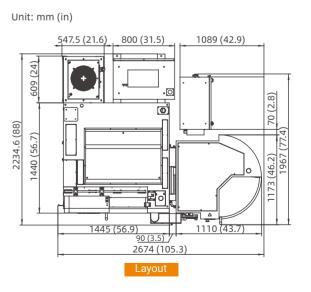
JDFMS15 Specifications						
Feeding System	JDFMS15-SR14A	JDFMS15-SR18A	JDFMS15-SR24A			
Load (kg/lb)		15 (33.07)				
Storage Capacity	14	18	24			
Workpiece Dimension (mm/in)	120×120×140 (4.7×4.7×5.5)	80×80×140 (3.1×3.1×5.5)	60×60×140 (2.4×2.4×5.5)			
Machine Dimension (mm/in)	900×940×2065 (35.4×37.0×81.3)					
Weight (kg/lb)	1000 (2204.6)					

 $^{\,^{\}times}$ Machine dimension and weight are only parameters of the Flexible Manufacturing System



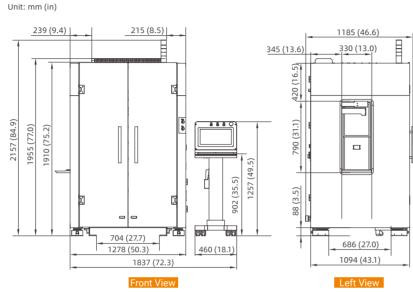






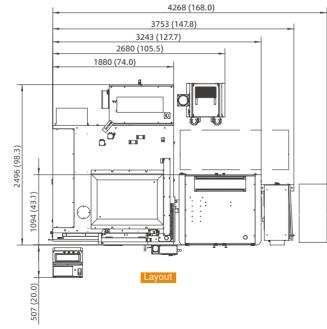
JDFMS25





Unit:mm (in)





Specification

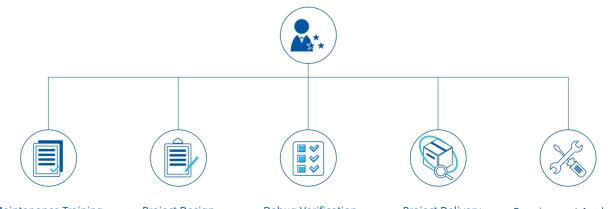
JDFMS25 Specifications						
Feeding System	JDFMS25-SF42A	JDFMS25-SF96B	JDFMS25-SF63A			
Load (kg/lb)		25 (55.1)				
Storage Capacity	42	96	63			
Workpiece Dimension (mm/in)	120×120×120 (4.7×4.7×4.7)	Ф60×100 (Ф2.4×3.9)	120×100×100 (4.7×3.9×3.9)			
Machine Dimension(mm/in)	1280×1000×1900 (50.39×39.37×74.80)					
Weight (kg/lb)		900 (1984.2)				

^{**} Machine dimension and weight are only parameters of the Flexible Manufacturing System.



Customized Service

We can design and develop the structure according to your actual production needs.



Maintenance Training

Project Design

Debug Verification

Project Delivery

Requirement Analysis

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. Equipped with different spindles, GRU100 can use BT30, HSK & ISO type tool holders.



Technical Parameter

ER Series Handle

Type	Name	Size (mm /in)					
Type	Name	A	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	
B130	BT30-ER16-100S	10.5 (0.41)	30 (1.18)	50 (1.97)	107 (4.21)	M22×1.5	
	BT30-ER25-060S	18 (0.71)	41.8 (1.65)	54 (2.13)	62 (2.44)	M32×1.5	
	HSK-E32-ER16M-050S	10.5 (0.41)	22 (0.87)	27.5 (1.08)	50 (1.97)	M19×1	
HSK-E32	HSK-E32-ER20M-050S	13.5 (0.53)	28 (1.1)	27.5 (1.08)	51 (2.01)	M24×1	
	HSK-E32-ER20M-060S	13.5 (0.53)	28 (1.1)	27.5 (1.08)	54 (2.13)	M24×1	
	ISO20-ER16-040MS	10.5 (0.41)	22 (0.87)	28.5 (1.12)	35 (1.38)	M19×1	
ISO20	ISO20-ER16M-045S	10.5 (0.41)	22 (0.87)	29 (1.14)	41 (1.61)	M19×1	
	ISO20-ER16M-050S	10.5 (0.41)	22 (0.87)	28.5 (1.12)	47 (1.85)	M19×1	

Blade Handle without Wind Resistance

Type	Name	Size mm (mm /in)					
Туре	Ivallie	A	В	С	D	L	Thread
	BT30-ER11-085S	7.5 (0.30)	17.99 (0.71)	53 (2.09)	19 (0.75)	85 (3.35)	M14×0.75
BT30	BT30-ER16-060S	10.5 (0.41)	26.99 (1.06)	50 (1.97)	30 (1.18)	60 (2.36)	M22×1.5
	BT30-ER20M-060S	13.5 (0.53)	30 (1.18)	28.5 (1.12)	32 (1.26)	60 (2.36)	M24×1
HSK-E32	HSK-E32-ER16-060HS	10.5 (0.41)	26.99 (1.06)	27.5 (1.08)	30 (1.18)	60 (2.36)	M22×1.5
	HSK-E40-ER16-060HS	10.5 (0.41)	26.99 (1.06)	28.5 (1.12)	30 (1.18)	60 (2.36)	M22×1.5
ISO20	BT30-ER20M-060S	10.5 (0.41)	26.99 (1.06)	28.5 (1.12)	30 (1.18)	60 (2.36)	M22×1.5

Oil Mist Collector

15

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.





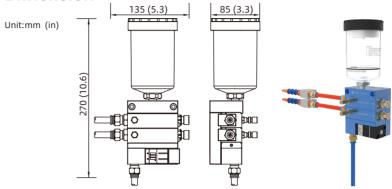
Specification

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	Atmos
Weight (kg/lb)	80/176.4
Max. Air Volume (m³/in³)	450/2.7×10 ⁷
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 °F).

Dimension



Specification

ltem	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

JINGDIAO Quick-Change Clamping Systems

Realizing fast, accurate and efficient clamping.

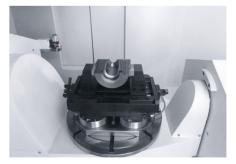
Features

- + The loading and unloading work inside the machine can be transferred outside the machine.
- + Multi-process processing or inspection can achieve accurate positioning.
- + To achieve rapid conversion between tooling and shorten the manufacturing cycle.

Application Scenario



Multi-Axis Machining

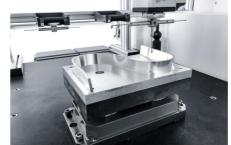


Multi-Process Machining



Automation Manufacturing

16





Measuring Use in Combination

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.

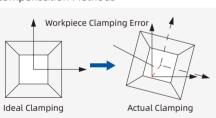
The Function of JINGDIAO OMIM is Mainly Reflected in Three Aspects

+ Intelligent Workpiece Alignment

This feature automatically corrects the workpiece alignment by probing workpiece position which automatically adjusts the program accordingly.



01-Support Multiple Workpiece Position Compensation Methods



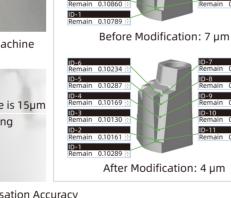
03-Workpiece Position Compensation



02-Obtain Actual Position on the Machine



Unilateral allowance is 15µm



04-Verification of Position Compensation Accuracy

+ Machining Step Remaining Stock Inspection

With this feature, the remaining stock at each machining step can be measured in real time, and the inspection results will be displayed on the machine's control. The operator can analyze the results in order to ensure that an even amount of material is removed at every machining step. This results in reduced tool wear, constant chip load, improved machining accuracy and improved surface finishes.



Inspect the Remaining Stock on the Machine

Real Time Display of CNC System

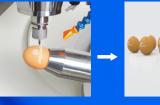
Achieve Stable Precision Machining

+ 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 an non-conforming geometric shapes, clamping deformation and clamping deviation.



Surface Data Adjust Processing



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".
- + 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%.
- + Thanks to our on machine inspection fewer inspectors and inspection equipment is required.



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

Path Edit

Set end point

Sa<u>f</u>e area

Retract mode

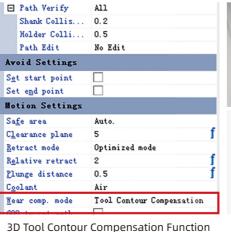
* Tool Type

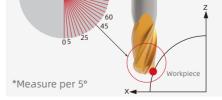




Standard Laser Tool Set

IIGNDIAO CNC System





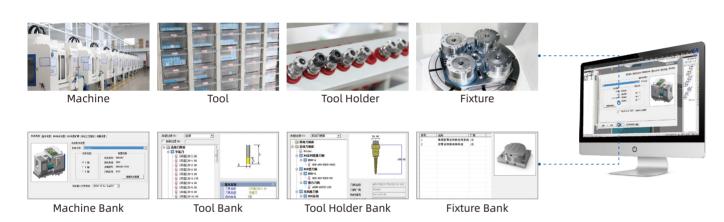
Inspect Tool Contour on the Machine

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

Compensate Tool Contour Deviation



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.



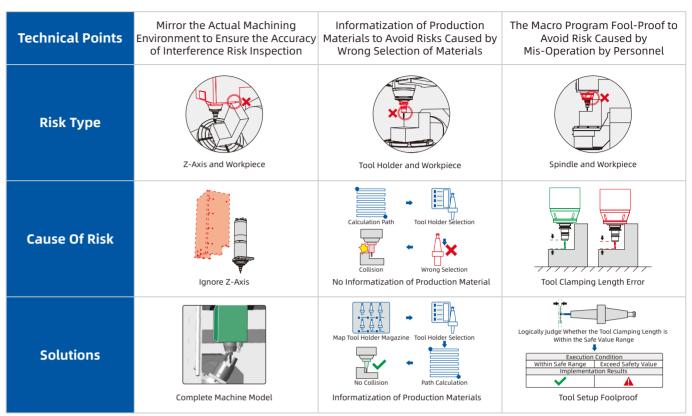
Ensuring the Safety of 5-Axis Machining

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.



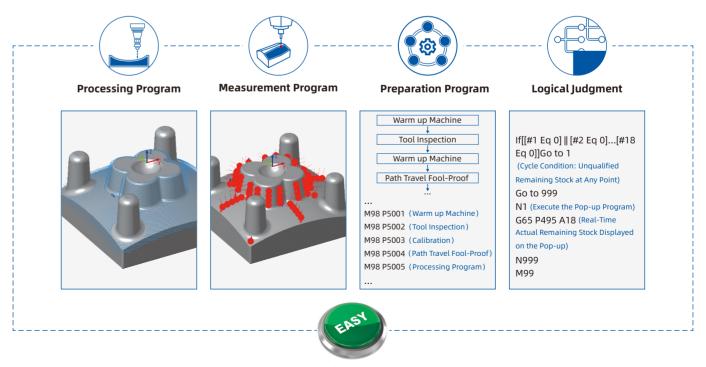


Application Scenarios of DT Programming Technology



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.

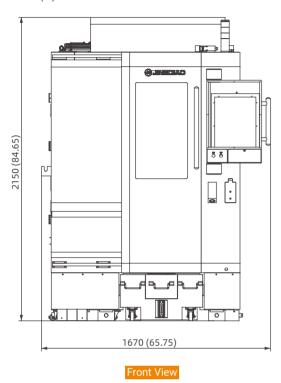


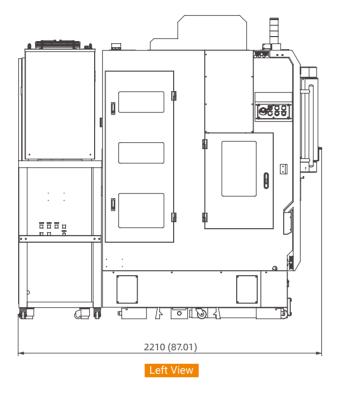
Processing Easy Start

Technical Specification

Dimension

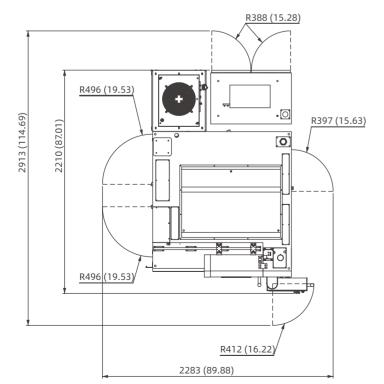
Unit: mm (in)





Layout

Unit: mm (in)



Technical Specification

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)	400/200/200 (15.74/7.87/7.87)					
A/C Rotation Angle deg	±120/360					
Table Diameter (mm/in)	ф160/ф6.30					
Max. Load (kg/lb)	15/33.1					
Spindle Type	JD105S -28- HE32/F	JD105SC -28- HE32	JD105E -36- ISO20/F	JD105E -32- HE32/F	JD130E -32- HE32/F	JD130S -24- BT30/F
Max. Spindle Speed (rpm)	28,000	28,000	36,000	32,000	32,000	24,000
Tool Holder Type	HSK-E32	HSK-E32	ISO20	HSK-E32	HSK-E32	BT30
Tool Magazine/Capacity	Chain Type Tool Magazine with Manipulator/60					
Max. Rapid Rate (X/Y/Z) m/min (ipm)	15 (590.6)					
Max. Swivel Rate (B/C)rpm	60/240					
Max. Feed Rate (X/Y/Z) m/min (ipm)	10 (393.7)					
Max.Feed Rate (B/C)rpm	30/120					
Drive System	AC Servo					
Voltage	3-Phase, 380V/50Hz					
Air Pressure (MPa/PSI)	≥0.52/75.4					
Machine Weight (kg/lb)	2740/6040.7					

 $^{\,^{\}times}$ Above parameters have been calibrated With reference to International standard ISO230-2.

Standard Features and Options

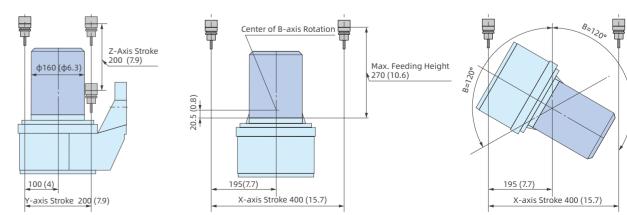
Items	Configuration
Control System	
JD50 NC System	•
CAM Soft	
JDSoft SurfMill 9.0	•
Spindle	
JD105S-28-HE32/F	•
JD105SC-28-HE32	0
JD105E-36-ISO20/F	0

JD105E-32-HE32/F	0
JD130E-32-HE32/F	0
JD130S-24-BT30/F	0
Tool Magazine	
Disc Type Servo Tool Magazine (16 Tools)	0
Disc Type Servo Tool Magazine (16 Tools)	•
Disc Type Servo Tool Magazine (14 Tools)	0
Cooling System	
Coolant Device (Half Ring Nozzle, 2 Nozzles)	•
Coolant Tank	•
Cutting Air Cooling System	•
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 Style Chip Conveyor	×
Internal Spiral Chip Conveyor	×
Chip Conveyor Inerface	×
Chip Collection	×
Measurement System	
Contact-Type Tool Set	•
Laser Tool Set	•
JINGDIAO On-Machine Measurement System	•
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
Auto Power off Function Internal Lighting Switch	•

^{•:} Standard O: Optional

Stroke Diagram

Unit: mm (in)





You can find more information at eu.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.

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