

Beijing Jingdiao Products Catalogue





Micron Level Cutting Ability

Jingdiao machine has achieved " 0.1μ Feeding & 1μ Cutting" stably, and its surface roughness Sa could reach up to 5nm after finishing on material S136H (HRC52).



Online Measurement and Intelligent Correction

Do realtime intelligent correction based on the measured data, and adjust the machining depth automatically, to ensure the consistent depth of the machined job.

Company Profile

Beijing Jingdiao is a high-tech and innovative corporation, which was founded in 1994 and specialized in the fields of R&D and manufacturing of Jingdiao high speed & precision machining centers. Since its foundation, Beijing Jingdiao all the time has been committing to provide the complete solutions of micro milling, micro drilling, grinding, and 5 axes simultaneous machining process, and already possessed comprehensive abilities of R&D and manufacturing Jingdiao high speed & precision machining centers, CNC control system, high speed spindle, high precision direct-driven rotary table and CAD/CAM software.



Beijing Jingdiao Group is composed of its parent company Beijing Jingdiao Group Co., Ltd., more than 10 wholly-owned subsidiaries (including Langfang Jingdiao CNC Machine Manufacturing Co., Ltd., Beijing Jingdiao Precision Machinery Manufacturing Co., Ltd., and Xi 'an Jingdiao Software Technology Co., Ltd. etc.) and over 40 branches. Beijing Jingdiao Group has more than 5000 employees, annual output value exceeds RMB 4 billion yuan.





Core Competence of Beijing Jingdiao







Large-Scale Production Capacity

Beijing Jingdiao has a large-scale research and production base, which floor area reaches to 280,000 square meters, and building area reaches to 270,000 square meters, it can produce more than 10,000 sets of medium-sized Jingdiao machines and ancillary products annually.

Innovative Research Capacity

Beijing Jingdiao owns professional R&D teams on mechanical structure, CNC control, software etc., which has already launched more than 300 new types of Jingdiao machines over the last 20 years, Beijing Jingdiao has owned more than 100 kinds of patents and software copyrights.

Provide "Management–Control Technology for Precision Machining" as the Core Service to the Customers

Beijing Jingdiao owns experienced manufacturing technology, NC engineering teams, and large-scale engineering validation centers, which can find out the most stable and most effective solutions through actual-process validation, to help customers quickly realize the management-control for CNC precision machining and establish a stable production mode.

Main Products of Beijing Jingdiao

- Jingdiao High Speed & Precision Machining Center
- Jingdiao CNC Control System
- Jingdiao High Speed & Precision Spindle
- Jingdiao CAD/CAM Software
- Jingdiao High Precision Rotary Table





Jingdiao CNC Control System



Jingdiao High Speed & Precision Spindle



Jingdiao CAD/CAM Software



Jingdiao High Precision Rotary Table



Jingdiao High Speed and Precision Machining Center

JDGR Series / JDHGT Series

JDGR Series Full Closed Loop 5 Axes Machining Center

Fits for multi-axis indexing machining and 5 axes simultaneous machining of precision molds, optical molds, precision parts and complex hardwares.

Machine Features

- Owns "0.1μ Feeding & 1μ Cutting" capability, strong vibration suppression ability and low cutter wear.
- Innovatively integrate **DT** programming technology, **RTCP** technology and "Online Measurement Technology" into JD50 control system and Jingdiao CAD/CAM system, to ensure the customers to realize 5 axes machining process efficiently and stably.
- Adopts 5 axes online measurement technology, to realize automatic workpiece-position correction and to rebuild the characteristic coordinate system of the machining surface etc., to significantly improve the product machining precision and efficiency, simplify 5 axes machining operation and reduce the machine commissioning time, and to lower the requirements for fixture.





| | | JDGR200 | | JDGR400 | |
|---------------------------------|-------|-----------------|------------|-------------------|----------|
| X/Y/Z Positioning Accuracy | mm | 0.003 / 0.002 / | 0.002 | 0.002 / 0.002 / 0 | 0.002 |
| X/Y/Z Repeatable Accuracy | mm | 0.0025 / 0.001 | 8 / 0.0018 | 0.0018 / 0.0018 | / 0.0018 |
| X/Y/Z Travel | mm | 500 / 260 / 290 |) | 450 / 700 / 400 | |
| Work Table Diameter | mm | Ф260 | | Ф400 | |
| Max. Load | kg | 30 | | 150 | |
| Max. Spindle Speed | rpm | 32000 / 28000 | 1 | 24000 / 20000 | |
| Tool Holder Type | _ | HSK-E32 | | BT30 / HSK-A50 |) |
| Standard Tool Magazine Capacity | _ | 36 | | 36 | |
| X/Y/Z Max. Rapid Rate | m/min | 15 | | 15 | |
| X/Y/Z Max. Feed Rate | m/min | 10 | 15.15 | 10 | |
| Gross Weight | kg | 5600 | 3 | 10000 | |
| Footprint | mm | 2250×2750 | | 3705×3015 | |



Sample Description

- 1. Semi-finishing and finishing done by JDGR400_A15SH; Material 718H (HRC36); Sample dimension 140×106×230mm; Process time 33 hrs 38 mins.
- 2. The sample is one injection mold inserted part, which was done by 5 axes indexing machining and which 5 surfaces were finished by only one clamping. Surface roughness Ra<0.3 μ m; Dimension precision controlled within ±0.02mm.

JDHGT Series High Precision Mold Machining Center

Adopts full closed loop control technology, and fits for the machining of precision molds, optical molds, and precision parts etc..

Machine Features

- Owns "0.1μ Feeding & 1μ Cutting" capability, strong vibration suppression ability and low cutter wear.
- By the "Online Measurement and Intelligent Correction" technology, to do realtime online measurement valuation and realtime intelligent correction on the product intermediate results.
- Laser calibrator is optional, to manage-control and monitor the cutter profile and its wear, and also the spindle thermal elongation.



| | | JDHGT400 | JDHGT600 | JDHGT800 | JDHGT1200 |
|---------------------------------|-------|--------------------------|--------------------------|--------------------------|--------------------------|
| X/Y/Z Positioning Accuracy | mm | 0.002 / 0.002 / 0.002 | 0.002 / 0.002 / 0.002 | 0.002 / 0.003 / 0.002 | 0.002 / 0.003 / 0.002 |
| X/Y/Z Repeatable Accuracy | mm | 0.0018 / 0.0018 / 0.0018 | 0.0018 / 0.0018 / 0.0018 | 0.0018 / 0.0025 / 0.0018 | 0.0018 / 0.0025 / 0.0018 |
| X/Y/Z Travel | mm | 400 / 400 / 160(200) | 600 / 500 / 260 | 800 / 800 / 350 | 1200 / 800 / 350 |
| Work Table Size | mm | 530×430 | 650×650 | 850×850 | 1250×850 |
| Max. Load | kg | 300 | 300 | 1000 | 1000 |
| Max. Spindle Speed | rpm | 36000 / 32000 | 24000 / 28000 | 24000 / 20000 | 24000 / 20000 |
| Tool Holder Type | _ | ISO20 / HSK-E32 | BT30 / HSK-E32 | BT30 / HSK-A50 | BT30 / HSK-A50 |
| Standard Tool Magazine Capacity | _ | 20 | 28 | 32 | 32 |
| X/Y/Z Max. Rapid Rate | m/min | 15 | 18 / 18 / 15 | 18 / 18 / 15 | 15 |
| X/Y/Z Max. Feed Rate | m/min | 10 | 10 | 10 | 10 |
| Gross Weight | kg | 4600 | 5500 | 9000 | 11000 |
| Footprint | mm | 2355×2535 | 2840×3120 | 3215×3100 | 3350×3820 |





Sample Description

- 1. Machined by JDHGT600_A13S; Material S136H (HRC52); Sample dimension 220×160×45mm; Process time 33 hrs.
- 2. No any connecting marks between the cavity vertical wall and bottom surface; Profile error of parting surface is less than 10 μ m; Cavity surface roughness Ra<0.1 μ m.

JDCT Series Jingdiao Engraving Center

Fits for the machining of difficult-to-cut materials like quenched material and stainless steel etc.

Machine Features

- By adopting the "Online Measurement and Intelligent Correction" technology originally created by Jingdiao, to stably realize the composite machining such as micro milling, high gloss milling and mirror-effect milling, precision milling, grinding, polishing, drilling, boring, and tapping etc.
- By adopting the multi-function vibration suppression technology, to comprehensively improve the product surface quality and reduce the cutter wear.



| | | JDCT600T | JDCT800T | JDCT1200T | |
|---------------------------------|-------|-----------------------|-----------------------|-----------------------|--|
| X/Y/Z Positioning Accuracy | mm | 0.008 / 0.008 / 0.006 | 0.008 / 0.008 / 0.008 | 0.012 / 0.008 / 0.008 | |
| X/Y/Z Repeatable Accuracy | mm | 0.005 / 0.005 / 0.005 | 0.005 / 0.005 / 0.005 | 0.009 / 0.005 / 0.005 | |
| X/Y/Z Travel | mm | 600 / 500 / 300 | 800 / 800 / 350 | 1200 / 800 / 350 | |
| Work Table Size | mm | 650×650 | 850×850 | 1250×850 | |
| Max. Load | kg | 300 | 1000 | 1000 | |
| Max. Spindle Speed | rpm | 24000 / 20000 | 24000 / 20000 | 24000 / 20000 | |
| Tool Holder Type | _ | BT30 / HSK-A50 | BT30 / HSK-A50 | BT30 / HSK-A50 | |
| Standard Tool Magazine Capacity | _ | 28 | 32 | 32 | |
| X/Y/Z Max. Rapid Rate | m/min | 18 | 18 / 18 / 15 | 15 | |
| X/Y/Z Max. Feed Rate | m/min | 10 | 10 | 10 | |
| Gross Weight | kg | 5800 | 9000 | 11000 | |
| Footprint | mm | 2840×3120 | 3215×3100 | 3170×3230 | |



Sample Description

- 1. Machined by JDCT600T_A15SH; Material Cr12mov (HRC60); Sample dimension 122×130×73mm.
- 2. Surface dimension precision range can be controlled within 0.01mm; Good consistent surface quality; Surface roughness Ra<0.3µm.

JDVT600T_DZ_A13S

Fits for the efficient machining of the 3C cellphone frame (aluminium alloy and stainless steel etc.) and hardware by drilling, tapping, milling, grinding and polishing etc.. Compared with two sets of JDVT600T_A13S, its footprint, power and coolants consumption etc. could be reduced by around 50% to save costs for customers.

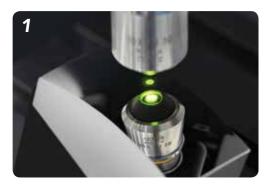




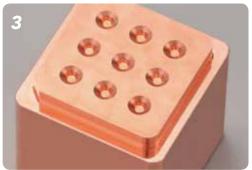
JDVT600T _ DZ _ A13S

| X/Y/Z Positioning Accuracy | mm | 0.005 / 0.005 / 0.005 / 0.005 |
|---------------------------------|-------|-----------------------------------|
| X/Y/Z Repeatable Accuracy | mm | 0.0045 / 0.0045 / 0.0045 / 0.0045 |
| X/Y/Z Travel | mm | 600 / 400 / 330 / 330 |
| Work Table Size | mm | 830×400 |
| Max. Load | kg | 300 |
| Max. Spindle Speed | rpm | 24000 |
| Tool Holder Type | _ | BT30 |
| Standard Tool Magazine Capacity | _ | 2×24 |
| X/Y/Z Max. Rapid Rate | m/min | 20 |
| X/Y/Z Max. Feed Rate | m/min | 15 |
| Gross Weight | kg | 5800 |
| Footprint | mm | 2300×2400 |

Typical Application









1. Optical Mirror Mold Milling

Machined by JDGR200_A10SH; Material S136H (HRC52); Surface roughness Sa up to 5nm; Process time 21 hrs 16 mins.

2. Online Measurement & Intelligent Correction Technology Application to the Precision Casting Part

By using the "Online Measurement Evaluation and Realtime Intelligent Correction" technology, to ensure the machine more stable while running the high precision machining, cost controllable, the shortest production process, the minimum auxiliary cost.

3. Precision Connector

By using the machine JDHGT400_A8, the distance deviation from every cavity position to G54 center could be controlled within $\pm 2\mu m$, the dimension precision of every cavity diameter is less than $5\mu m$, no any cutter marks could be found on every vertical sidewall, and its process time is 5 hrs 30 mins.

4. Micro Holes Drilling

By using the machine JDHGT400_A8, its material is "red board", its hole diameter is 0.05mm, its precision deviation of holes center distance is less than 5μ m, and totally 4176 holes are drilled.

Machining Samples

Tank Model

Profile:

The high precision tank model is all made of stainless steel No.304, composed of 767 parts, which total weight is 4985g.

Main Size:

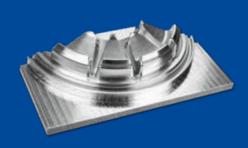
408×140×121mm

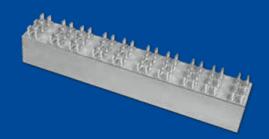
Processing Difficulty:

This model is artware, which has high requirements on its surface roughness. Stainless steel No.304 has strong toughness and poor machining performance. So, only if the proper process is combined with high speed machining ability of Jingdiao machine, some machining problems could be avoided, including deformation, chip building-up, burr, to meet the special requirements for the artware surface roughness.









Steel Mold Sample by 5 Axes Machining

Material: 718H (HRC36)
Dimension: 140×106×230mm

Cutter:

Bull nose cutter D10R0.5, ball-end cutter R4, ball-end cutter R1.

Difficulty:

The required surface roughness is within Ra $0.3\mu m$, and its dimension precision is within $\pm 0.02mm$. By using Jingdiao 5 axes machine, it could reduce the 3 axes clamping times, improve the mold machining efficiency, and meanwhile, it could avoid the motionless point machining of ball-end cutter tip to improve the mold surface quality.

Machine: JDGR400_A15SH

Automobile Hub Mold Sample

Material: S136H (HRC52)

Dimension: 440×200×88mm

Cutter:

Bull nose cutter D16R0.8, bull nose cutter D10R1, ball-end cutter R3,

ball-end cutter R2.

Difficulty:

Cutter length-diameter ratio is 10:1, process time is 11 hrs, the cutter is easy to be worn, and it is difficult to assure the product

surface quality.

Machine: JDHGT800_A13S

Multi-Column Drawing Die Sample

Material: S136H (HRC52) Dimension: 270×45×52mm

Cutter:

Bull nose cutter D8R0.5, bull nose cutter D8R0.2, bull nose cutter D4R0.2.

Difficulty:

As required, the dimension precision $\leq \pm 2\mu m$, the surface should have

consistent effects, no satin on surface, contour profile < 5µm.

Machine: JDHGT600_A13S

Jingdiao High Speed and Precision Machining Center



JDGR200





Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Optional Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate

Gross Weight

Footprint

0.003/0.002/0.002mm 500/260/290mm JD105-32-HSK32 JD105S-28-HE32 36 15m/min 10m/min 5600kq 0.002/0.002/0.002mm 450/700/400mm JD130S-24-BT30 JD150S-20-HA50

JDGR400

36 15m/min 10m/min 10000kg 3705×3015mm

JDHGT400

0.002/0.002/0.002mm 400/400/160(200)mm JD83-36-ISO20 JD105-32-HSK32 20 15m/min 10m/min 4600kg

2355×2535mm



2250×2750mm





Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Optional Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate Gross Weight Footprint JDHGT600

0.002/0.002/0.002mm 600/500/260mm JD130S-24-BT30 JD105S-28-HE32 28 18/18/15m/min 10m/min 5500kg 2840×3120mm

JDHGT800

0.002/0.003/0.002mm 800/800/350mm JD130S-24-BT30 JD150S-20-HA50 32 18/18/15m/min 10m/min 9000kg 3215×3100mm

JDHGT1200

0.002/0.003/0.002mm 1200/800/350mm JD130S-24-BT30 JD150S-20-HA50 32 15m/min 10m/min 11000kg 3350×3820mm

Jingdiao Engraving Center







Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Optional Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate Gross Weight Footprint

JDCT600T

0.008/0.008/0.006mm 600/500/300mm JD150S-20-HA50 JD130S-24-BT30 28 18m/min 10m/min 5800kg 2840×3120mm

JDCT800T

0.008/0.008/0.008mm 800/800/350mm JD150S-20-HA50 JD130S-24-BT30 32 18/18/15m/min 10m/min 9000kg 3215×3100mm

JDCT1200T

0.012/0.008/0.008mm 1200/800/350mm JD150S-20-HA50 JD130S-24-BT30 32 15m/min 10m/min 11000kg

3170×3230mm



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Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Optional Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate Gross Weight Footprint

JDVT600T_DZ_A13S

0.005/0.005/0.005mm 600/400/330mm JD130S-24-BT30 — 2×24 20m/min 15m/min 5800kg 2300×2400mm

JDVT800 A13S

800/400/350mm JD130S-24-BT30 — 24 15m/min 15m/min 5000kg 2450×2300mm

0.005/0.005/0.005mm

JDLVM800T_A13S

0.006/0.006/0.006mm

800/400/350mm JD130S-24-BT30 — 36 15m/min 12m/min 4800kg 2350×2255mm

Jingdiao Engraving Center





Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate **Gross Weight**

Footprint

JDLVG400E A8

0.008/0.008/0.006mm 400/400/160mm JD83-36-ISO20 15 15m/min 10m/min 2500kg 1930×1725mm

JDLVG600E A10H

0.006/0.006/0.004mm 600/450/160mm JD105-32-HSK32 16 15m/min

10m/min 3600kg 2200×1800mm

JDLVG600E DZ

0.006/0.006/0.004mm 400/450/160mm JD83-42-ER16

15m/min 10m/min 3600kg 2150×1800mm



Technical Specifications

X/Y/Z Positioning Accuracy X/Y/Z Travel Standard Spindle Standard Tool Magazine Capacity X/Y/Z Max. Rapid Rate X/Y/Z Max. Feed Rate **Gross Weight Footprint**

JDLVM400E A8

0.010/0.010/0.008mm 400/400/160mm JD83-36-ISO20 15 15m/min 10m/min 2450kg 1950×1690mm



JDLVM550T_A13S

0.006/0.006/0.006mm 550/400/350mm JD130S-24-BT30 36 15m/min 12m/min 3200kg 2305×1850mm



JDLVM600E A10H

0.006/0.006/0.004mm 600/450/230mm JD105-32-HSK32 16 15m/min 10m/min 3500kg 2200×2300mm









JDLVG800E A13

0.012/0.010/0.008mm 860/500/350mm JD130-20-BT30

6

15m/min 10m/min 4350kg

2540×1925mm

Carver600TE A13S

0.008/0.008/0.006mm 600/500/420mm

JD130S-24-BT30

12

15m/min 10m/min

5800kg

2840×1800mm

Carver800TE_A13S

0.008/0.008/0.008mm 800/800/420mm JD130S-24-BT30

12

18/18/15m/min

10m/min 9000kg

3225×2235mm

Carver1200TE A13S

0.012/0.008/0.008mm 1200/800/420mm JD130S-24-BT30

12

18/18/15m/min

10m/min

9000kg

3215×3230mm



JDLVM1200E_A13

0.012/0.008/0.008mm 1200/550/350mm JD130-20-BT30

9

15m/min

10m/min

6800kg

3170×1805mm



JDLVM400VA_A10S

0.010/0.010/0.008mm 400/400/260mm JD105S-28-ISO25 32

15m/min 10m/min 2800kg

1730×2180mm



JDLMC16T_A8

0.010/0.010/0.008mm 600/600/160mm JD83-36-ISO20

9 15m/min 10m/min 3000kg 1915×2200mm



JDPMT400_A8

0.008/0.008/0.006mm 400/400/160mm JD83-36-ISO20

9

15m/min 10m/min 2200kg

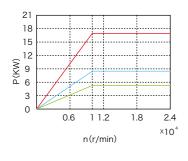
1400×2050mm



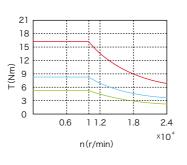
High speed and precision spindle is the key part of Jingdiao machining centers that ensures process precise and efficient. High speed and precision spindle has many advantages such as compact structure, large speed range, high rotation accuracy, light weight, low inertia, slight vibration, and low noise etc.. The latest spindle has composite machining capabilities of milling, holes drilling, thread tapping, turning, grinding, polishing and scraping etc..

JD130S-24-BT30 Output Performance

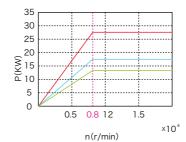
S6-60%



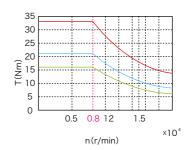
PEAK



- S1-100%



JD150S-20-HA50 Output Performance



Spindle Model and Specifications:

| Model | Max. Speed (r/min) | Rated Power S6-60% (KW) | Rated Torque S6-60% (Nm) | Runout of Taper Bore (mm) | Tool Holder Type | Motor Type |
|-----------------|-----------------------|----------------------------|-----------------------------|------------------------------|---------------------|--------------------|
| JD62-24-ER11/B | 24000 | 0.8 | 0.32 | ≤0.0015 | ER11/B | Asynchronous Motor |
| JD62-60-ER11/A | 60000 | 2.0 | 0.32 | ≤0.0015 | ER11/A | Asynchronous Motor |
| JD83-24-ER16 | 24000 | 2.4 | 1.9 | ≤0.0015 | ER16 | Asynchronous Motor |
| JD83-42-ER16 | 42000 | 2.5 | 1.6 | ≤0.0015 | ER16 | Asynchronous Motor |
| JD83-36-ISO20 | 36000 | 2.4 | 1.9 | ≤0.0015 | ISO20 | Asynchronous Motor |
| JD105-28-ISO25 | 28000 | 5.0 | 2.4 | ≤0.0015 | ISO25 | Asynchronous Motor |
| JD105-32-HSK32 | 32000 | 5.0 | 2.4 | ≤0.0015 | HSK-E32 | Asynchronous Motor |
| JD105S-28-ISO25 | 28000 | 9.2 | 4.0 | ≤0.0015 | ISO25 | Synchronous Motor |
| JD105S-28-HE32 | 28000 | 9.2 | 4.0 | ≤0.0015 | HSK-E32 | Synchronous Motor |
| JD130-20-BT30 | 20000 | 3.2 | 5.1 | ≤0.0015 | ВТ30 | Asynchronous Motor |
| JD130S-24-BT30 | 24000 | 8.9 | 8.5 | ≤0.0015 | ВТ30 | Synchronous Motor |
| JD150S-20-HA50 | 20000 | 18 | 21.5 | ≤0.0015 | HSK-A50 | Synchronous Motor |
| | | | | | | |

Technical Services Focusing on "JD Precision Machining Management-Control Technology"

- According to the customer's actual products, provide appropriate process technology, and management-control technology for CNC precision machining.
- Provide the mass production validation services to customers, to help realize the mass stable producing as soon as possible.
- Provide the customer technical training and services which take "Jingdiao Precision Machining Management-Control Technology" as the core service.
- Pay a return visit periodically and answer doubt & guide customer.
- Update the software to provide value-added service.

Overseas Branch



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