

Facilities & Equipment List

We provide CNC Machining Services of any complexity and precision for the production of both serial parts and prototypes. Advanced facilities coupled with knowledgeable and experienced staff provides optimum performance and ability to handle a wide variety of machining requirements.

CNC Machining Equipment

1 unit	JINGDIAO JDGR400T High-Speed Machining Center (5-Axis) Spindle Type HSK-A50, Max. Speed 20,000 rpm, Tool Capacity 37, Travel (X/Y/Z) 450×680×400 (mm), Worktable Diameter Φ400 mm, Rapid traverse 15m/min, Max Cutting 10m/min, Pointing Accuracy 0.002 mm, Repeatability 0.0018mm	
1 unit	JINGDIAO JDGR300 High-Speed Machining Center (5-Axis) Spindle Type HSK-E32, Max. Speed 32,000 rpm, Tool Capacity 24, Travel (X/Y/Z) 390×510×300 (mm), Worktable Diameter Φ300 mm, Rapid traverse 15m/min, Max Cutting 10m/min, Pointing Accuracy 0.002 mm, Repeatability 0.0018mm	
1 unit	JINGDIAO JDGR400_A13S High-Speed Machining Center (5-Axis) Spindle Type BT30, Max. Speed 24,000 rpm, Tool Capacity 37, Travel (X/Y/Z) 450×700×400 (mm), Worktable Diameter Φ400 mm, Rapid traverse 15m/min, Max Cutting 10m/min, Pointing Accuracy 0.002 mm, Repeatability 0.0018mm	
2 units	JINGDIAO JDVT600_A15S High-Speed Machining Center (3-Axis) Spindle Type BT30, Max. Speed 24,000 rpm, Tool Capacity 21, Travel (X/Y/Z) 600×400×350 (mm), Rapid traverse 15m/min, Max Cutting 15m/min, Pointing Accuracy 0.005 mm, Repeatability 0.0045mm	
1 unit	JINGDIAO JDCT600E_A12 High-Speed Machining Center (3-Axis) Spindle Type BT30, Max. Speed 20,000 rpm, Tool Capacity 15, Travel (X/Y/Z) 600×500×420 (mm), Rapid traverse 15m/min, Max Cutting 10m/min, Pointing Accuracy 0.005 mm, Repeatability 0.0045mm	
1 unit	Hass VF-4SS-V Vertical Machining Center (3-Axis) BT40 Taper, 12,000-rpm Spindle, 31 Tool Capacity, Travel (X/Y/Z) 1270×508×635 (mm). Rapid traverse 35.6m/min, Max Cutting 21.2m/min, Positioning ±0.005 mm, Repeatability ±0.003mm	
4 units	Hass VF-2SS-V Vertical Machining Center (3-Axis) BT40 Taper, 12,000-rpm Spindle, 31 Tool Capacity, Travel (X/Y/Z) 762×406×508 (mm). Rapid traverse 35.6m/min, Max Cutting 21.2m/min, Positioning ±0.005 mm, Repeatability ±0.003mm	
1 unit	Hass VF-2SS-V Vertical Machining Center (3+2 Axis) DEX 5-axis Rotary Tilting Tables (ACS200), Max. workpiece diameter Φ300 mm, BT40 Taper, 12,000-rpm Spindle, 31 Tool Capacity, Rapid traverse 35.6m/min, Max Cutting 21.2m/min, Positioning ±0.005 mm, Repeatability ±0.003mm	
5 units	JIRFINE VH-85 Vertical Machining Center (3-Axis) BT40 Taper, 15,000-rpm Spindle, 24 Tool Capacity, Travel (X/Y/Z) 850×550×550 (mm). 3-axis rapid feed 36m/min, Positioning 0.006 mm, Repeatability 0.004mm	
1 unit	JIRFINE VH-85 Vertical Machining Center (3+2 Axis) DEX 5-axis Rotary Tilting Tables (ACUB200), Max. workpiece diameter Φ235 mm, BT40 Taper, 15,000-rpm Spindle, 24 Tool Capacity, 3-axis rapid feed 36m/min, Positioning 0.006 mm, Repeatability 0.004mm	
3 units	JIRFINE T-7C High Speed Drilling and Milling Machining Center (3-Axis) BT30 Taper, 20,000-rpm Spindle, 21 Tool Capacity, Travel (X/Y/Z) 700×400×350 (mm). 3-axis rapid feed 48m/min, Positioning 0.005 mm, Repeatability 0.003mm	

Facilities

- 2 groups **Hand Finishing Workbench (10 seat)**
Sanding and Polishing Workbench (12 seat)



Inspection and Gaging Equipment

1 unit	ZEISS CAPTUM 7/10/6 Coordinate Measuring Machine (CMM) 700×1000×600 (mm), MPE (maximum permissible error) 2.1µm	
1 unit	SEREIN Croma 8126 Coordinate Measuring Machine (CMM) 800×1200×600 (mm), MPE (maximum permissible error) 3.0µm	
1 unit	ScanTech PRINCE775 Handheld 3D Scanner Laser source: 14+1 red laser crosses / 5 blue parallel laser lines Effective work range 275 mm × 250 mm / 200 mm × 200 mm, Accuracy Up to 0.03mm.	
1 unit	KEYENCE IM 8010 Image Dimension Measurement System (Optical Comparator) 200x200(mm), With a 20-megapixel CMOS sensor, Measure 300 features in seconds, Measurement accuracy: ±3.9µm (Wide-field), ±2.0µm (High-precision)	
1 unit	TL4030PC Optical 2D Vision Image Measurement Machine 400x300x200(mm), Measurement accuracy EI (X/Y) ≤ (3.5+L/200) µm	
1 unit	Mitutoyo SURFTEST SJ-210 Surface Roughness Tester Measuring range: 360µm (-200µm - +160µm) Range/Resolution: 360µm/0.02µm, 100µm/0.006µm, 25µm/0.002µm	
1 unit	TESA-HITE 700 Digimatic Height Gauge Measuring range: 715 mm, Resolution: 0.0001 / 0.001 / 0.01 mm, Max. perm. Errors: 2.5+4L µm	
1 unit	Olympus Vanta Element-S XRF Analyzer Offers fast grade identification of alloys, including stainless and alloy steels, titanium, copper, nickel and precious metal content, and comparisons of light elements such as magnesium, aluminium and silicon.	
1 unit	HR-150A Rockwell Hardness Tester Measurement range:20-95HRA,10-100HRBW,10-70HRC; Hardness resolution:0.5HR Suitable for ferrous metals, nonferrous metals, cemented carbide, and materials subject to heat treatment such as quenching and tempering.	
1 unit	3nh TS7700 Grating Spectrophotometer Full spectrum LED light source, 1000 line precision blazed grating, optical resolution < 10nm, Spectral reflectance: MAV/SCI, Standard deviation within 0.08%	
4 groups	Outside Micrometers / Inside Micrometers / Dial Indicating Micrometers / Full Range of Vernier Caliper 0-25-50-75-100-125-150 (mm) / 12-20-50-100 (mm) / 0-25-50-75-100 (mm) / 0-100-150-200-300-600-1000 (mm)	
3 groups	Full Range of Pin Gauge / Gauge Block / Thread through stop gauge 0.2-30 (mm) / 1.0-100 (mm), Step 0.01mm; Plug Gauges & Ring Gauges	
3 units	Granite Inspection Table 1200×1000 (mm) X2 / 1000×750 (mm)	

Miscellaneous

Manual Vertical Mill, Engine Lathe, Smart Tool Cabinet, Laser Engraving Machine, Tapping Machine, Sand Blasting Machine, Cutoff Sawing Machine, Tool Grinder, UV Curing Machine, Air Compressors...