

NANYA CNC

Precision Engineering Solutions



Advanced Milling Technology

Automated Tooling Accuracy

High Speed & Accuracy

Precision Robotics Integration

Real-time Monitoring

Reliable Performance

Global Support Network

Sustainable Manufacturing

HORIZONTAL MACHINE CENTER 630A / 630B SPECIFICATION

Overview

The HMC-630A/630B is a high-performance CNC milling machine designed for precision, durability, and efficiency. It features robust construction, advanced spindle technology, and a comprehensive set of standard and optional accessories.

Specifications

Travel Range

- X-Axis Travel : 1050mm Y-Axis Travel :
- 850mm Z-Axis Travel : 950mm Spindle Nose
- to Table : 150 - 1100mm Spindle Center to
- Pallet Surface : 90-940mm
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Guideway System

- Three-Axis Guideway: XYZ Load Roller Linear Guideway

Table

- Table Size : 630X630mm
- Workbench Number : 1(Opt.2)
- Workbench Surface Configuration : M16-125mm
- The Workbench Maximum Load : 1200kg
- The Smallest Unit of Setting : 1°(Opt.0.001°)

Spindle

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|--------------------------------------|----------------|---------------|
| • Spindle Taper : BT-50 | Direct Type | Gear head |
| • Type Of Driving : Belt Type | 8000rpm | 6000rpm |
| • Spindle RPM : 6000 rpm | OIMF- α | OIMF- β |
| • Spindle Motor type : OIMF- β | | |

Feed Rates

- X/Z-Axis Rapid Traverse: 24m/min
- Y-Axis Rapid Traverse: 24 m/min
- X/Y/Z Max. Cutting Feed Rate : 6m/min

ATC Tool Changer

- Type: Arm-Type(Tool-to-Tool) : 30 Tools ATC (1.8sec)
- Max. Tool Diameter (Adjacent with Neighbor): 200 × 300 mm
- Max. Tool Weight: 15 kg

Motors

- Spindle Motor (Rate/Max) : 7.5KW/11 kw
- X.Y Axis Servo Motor : 2.0 Kw
- Z Axis Servo Motor / w Breaks : 3.0 Bs

Machine Accuracy

- Positioning Accuracy(JIS Std.): ± 0.008 mm / 300 mm
- Repeatability Accuracy (JIS Std.): ± 0.003 mm

Power & Air Requirements

- Power Required: 20 kVA (7.5/11 kW)
- Electricity: 3-Phase AC 220V $\pm 5\%$ / 3-Phase AC 380V 60Hz $\pm 5\%$
- Air Pressure Requirement: 6-8 kg/cm²

Physical Dimensions & Weight

- External Dimensions(L×W×H) : 6500×4600×3800 mm

- Gross Weight: A-15500 kg (15.5 Tons)/ B-17000kg(1.7 Tons)

Standard Accessories

The NANO-X8 comes with the following standard accessories:

- Fully-Enclosed Splash Guard Electrical Cabinet with Heat Exchanger Work Lamp + Alarm Lamp High Pressured Coolant & Air Gun Spindle Air Blast & Coolant Nozzle Rigid Tapping Auto Lubrication System Editable CF Card Function Portable Hand Wheel (MPG) Auto interrupt & Power Off System Leveling Blocks & Screws Tool & Tool Box Chip Flushing System Spindle Coolant System Screw Type Chip Conveyor+Cart Operation Manual
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Optional Accessories

- FANUC 0i-MF-(ALPHA PACKAGE)+AICC II

- Air Conditioner for Electrical Cabinet

- Chain type ATC-40T (40 taper)

- Chain type ATC-60T (40 taper)

- Chain type ATC-80T (40 taper)

- CTS 30 bar / 50 bar

- Heidenhain linear scales for XYZ

- Renishaw TS-27R (touch probe)

- Renishaw NC4 (laser probe)

- Renishaw OMP60 (workpiece probe)

- Transformer 30kva

- Oil Skimmer

- CE standard