

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

TheHMC-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-AxisGuideway:XYZLoad Roller Linear Guideway

Table

- TableSize : 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 | | |
| • TypeOf Driving : Belt Type | Direct Type | Gear head |
| • Spindle RPM : 6000 rpm | 8000rpm | 6000rpm |
| • Spindle Motor type : 0IMF-β | 0IMF- α | 0IMF-β |

Feed Rates

- X/Z-AxisRapidTraverse: 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

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

Power & Air Requirements

- PowerRequired:20 kVA (7.5/11 kW)
- Electricity: 3-Phase AC 220V ±5% / 3-Phase AC 380V 60Hz ±5%
- AirPressureRequirement:6–8 kg/cm²

Physical Dimensions & Weight

- ExternalDimensions(L× W × H) : 6500× 4600×3800 mm
- Gross Weight: A-15500 kg (15.5 Tons)/ B-17000kg(1.7 Tons)

Standard Accessories

TheNANO-X8 comes with the followingstandardaccessories:

- 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

- FANUC0i-MF-(ALPHA PACKAGE)+AICC II
- Air Conditioner forElectrical 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