

NANYA CNC

Precision Engineering Solutions



Advanced Milling Technology

Advanced Milling Accuracy

High Speed & Accuracy

Reliable Performance

Reliable Performance

Reliable Performance

Global Support Network

Global Support Network

HORIZONTAL MACHINE CENTER 800A / 800B 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 : 1300mm
- Y-Axis Travel : 1000mm
- Z-Axis Travel : 1050mm
- Spindle Nose to pallet : 150 - 1200mm
- Spindle Center to Pallet Surface : 90-1090mm / 0-1000mm

Table

- Table Size : 800X800mm
- Workbench Number : 1(Opt.2)
- Workbench Surface Configuration : M16-160mm
- The Workbench Maximum Load : 1300-2000kg
- The Smallest Unit of Setting : 1°(Opt.0.001°)

Spindle

- Spindle Taper : BT-50
- Type Of 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-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 (4.5sec)
- Max. Tool Diameter (Adjacent with Neighbor): 200 × 350 mm
- Max. Tool Weight: 15 kg

Motors

- | | | |
|--|------------------|----------------------|
| • Spindle Motor : 15/18.5 kW (143.3Nm) | 22/26 kW (140Nm) | 15/18.5 kW (143.3Nm) |
| • X Axis Servo Motor : 3kW(36Nm) | 7kW(30Nm) | 3kW(36Nm) |
| • Y Axis Servo Motor : 3kW(36Nm)BS | 7kW(30Nm)BS | 3kW(36Nm)BS |
| • Z Axis Servo Motor : 3kW(36Nm) | 7kW(30Nm) | 3kW(36Nm) |
| • B Axis Servo Motor : 2.5kW (20Nm) | 3kW (12Nm) | 2.5kW (20Nm) |
| • Spindle Motor type : 0IMF-β | 0IMF- α | 0IMF-β |

Physical Dimensions & Weight

- Approximate Weight : A: 16,500kg B:20,000kg
- Floor Space Measurement : A 6000 x 5000 x 3800mm
B: 7000 x 5000 x 3800mm

Standard Accessories

The HMC 800A / 800B 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

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