

# 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

## NANO-X8 CNC Machine Specifications & Accessories

### Overview

The NANO-X8 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: 800 mm
- Y-Axis Travel: 500 mm
- Z-Axis Travel: 550 mm
- Spindle Nose to Table: 90–600 mm
- Spindle Center to Z-Rail Travel: 550 mm

#### Guideway System

- Three-Axis Guideway: XYZ Load Roller Linear Guideway

#### Table

- Table Size: 1000 × 500 mm
- T-Slot (number × width × pitch): 3 × 18 × 102 mm
- Maximum Table Load: 700 kg

#### Spindle

- Spindle Taper: BT-40 (140 mm)
- Spindle Drive: Direct Driven (DDS)
- Spindle Speed: 12,000 rpm
- Spindle Motor Torque: 96 N/m
- Spindle Motor (Rated/Max.): 7.5 kW / 11 kW

#### Feed Rates

- X/Y-Axis Rapid Traverse: 40 m/min
- Z-Axis Rapid Traverse: 40 m/min
- X/Y/Z Max. Cutting Feed Rate: 12 m/min

#### ATC Tool Changer

- Type: Arm-Type (Tool-to-Tool)
- Capacity: 24 Tools (1.8 sec)
- Max. Tool Diameter (Adjacent with Neighbor): 100 × 300 mm
- Max. Tool Weight: 8 kg

#### Motors

- X/Y-Axis Servo Motor: 2.0 kW
- Z-Axis Servo Motor with Brake: 3.0 kW BSM

#### 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 ±5% / 3-Phase AC 380V 60Hz ±5%
- Air Pressure Requirement: 6–8 kg/cm<sup>2</sup>

#### Physical Dimensions & Weight

- External Dimensions (L × W × H): 2300 × 2300 × 2400 mm
- Gross Weight: 4700 kg (4.7 Tons)
- Ground Clearance: Provided as per setup

### Standard Accessories

The NANO-X8 comes with the following standard accessories:

- BT-40 Direct Driven Spindle (DDS) – 12,000 rpm
- Air-Blast Throughout Spindle
- Work Lamp / Work LED Light
- Three-Color Light
- Auto Power Off
- Auto Lubrication System
- Rigid Tapping & Threading System Operation
- Heat Exchanger for Controller Cabinet
- Spindle Oil Coolant System
- Tool Box & Tools
- Screw-Type Chip Conveyor + Cart
- Tool Length Measuring Equipment
- Arm-Type ATC – 24 Tools
- High-Pressure Water & Air Gun
- Chip Flush System & Knobs
- Full Splash Guard
- USB Interface
- Spindle Cutting Coolant Ring

### Optional Accessories

- Enhance your NANO-X8 with these optional accessories:

- 4th Axis Rotary Table:
  - Ø125 mm / Ø170 mm / Ø210 mm / Ø255 mm

- Chain-Type Chip Conveyor + Cart

- Semi-Auto Rotary Table APC System

- LCD Screen – 15 inch

- Heavy Spindle Motor:
  - 11 kW / 18.5 kW

- CE Safety Doors System

- Heavy Spindle Torque Motor

- CE Approved Certification