

# 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**

## NANO X-10 CNC MACHINE SPECIFICATION

### Overview

The NANO-X10 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 : 1020mm Y-Axis Travel : 550mm Z-Axis Travel : 550mm
- Spindle Nose to Table : 100 - 700mm
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#### Guideway System

- Three-Axis Guideway: XYZ Load Roller Linear Guideway

#### Table

- Table Size: 1200x600mm
- T-slot (number x width x pitch): 5 x 18 x 100mm
- Maximum table load: 900KGS

#### Spindle

- Spindle Taper: BT-40 (140 mm)
- Spindle Drive: Direct Driven (DDS)
- Spindle Speed: 12,000 rpm

#### Feed Rates

- X/Y-Axis Rapid Traverse: 36m/min
- Z-Axis Rapid Traverse: 30 m/min
- X/Y/Z Max. Cutting Feed Rate: 12 m/min

#### ATC Tool Changer

- Type: Arm-Type (Tool-to-Tool) : 24 Tools ATC (1.8sec)
- Max. Tool Diameter (Adjacent with Neighbor): 100 x 300 mm
- Max. Tool Weight: 8 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.):  $\pm 0.008$  mm / 300 mm
- Repeatability Accuracy (JIS Std.):  $\pm 0.003$  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/cm<sup>2</sup>

#### Physical Dimensions & Weight

- External Dimensions (L x W x H): 3300x2300x2600 mm
- Gross Weight: 5700 kg (5.7 Tons)
- Ground Clearance: 2850mm

### Standard Accessories

The NANO-X8 comes with the following standard accessories:

- BT-40 Direct Driven Spindle (DDS) – 12,000 rpm
- Tool Box & Tools
- Air-Blast Throughout Spindle
- SCREW TYPE CHIP CONVEYOR + CART
- Work Lamp / Work LED Light
- TOOLS LENGTH MEASURING EQUIPMENT
- Three-Color Light
- ARM-TYPE ATC-24 TOOLS
- Auto Power Off
- HIGH PRESSURE WATER & AIR-GUN
- Auto Lubrication System
- CHIP FLUSH SYSTEM & NOBS
- Rigid Tapping & Threading System Operation
- FULL SPLASH GUARD
- Heat Exchanger for Controller Cabinet
- UBS INTERFACE
- Spindle Oil Coolant System
- SPINDLE CUTTING COOLANT RING

### Optional Accessories

- 4TH AXIS ROTARY TABLE: Ø125 / Ø170 / Ø210 / Ø255mm
- HEAVY SPINDLE MOTOR 11KW/18.5KW
- CHAIN TYPE CHIP CONVEYOR + CART : CE SAFTY DOORS SYSTEM
- SEMI-AUTO ROTARY TABLE APC SYSTEM
- HEAVY SPINDLE TROQUE MOTOR
- LCD SCREEN 15" INCH
- CE APPROVED CERTIFICATION