

# 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

## NV-1165 SPECIFICATION

### Overview

The NV-1165 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 : 1100mm Y-Axis Travel : 650mm Z-Axis Travel : 600mm Spindle Nose to table : 120-720mm
- Spindle center to Z-Rail travel : 680mm Three-Axis
- Guideway : X Y Z load Roller Linear Guideway
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#### Table

- Table Size : 1200 x 600mm
- T-Slot ( number x width x pitch) : 5 x 18 x 100mm
- Maximum table load : 900 KGS.

#### Spindle

- Spindle taper : (Ø150mm) BT-40
- Spindle Driven : Direct driven ( DDS)
- Spindle Speed : 12,000 Rpm
- Spindle motor Torque : 115 N/m

#### Feed Rates

- X.Y Axis Rapid traverse : 40 / 40m/min
- Z-Axis Rapid traverse : 40m/min
- X.Y.Z Max. Cutting feed rate : 12m/min

#### ATC Tool Changer

- Arm-Type ( Tool to tool ) : 24 Tools ATC (1.8sec)
- Max. Tool diameter\*adjacent (with Neighbor) : Ø100 x 300mm
- Max. Tools weight : 7 KGS

#### Motors

- Spindle Motor (Rate/Max.) : 11~18.5 Kw
- X.Y Axis Servo Motor : 230 Kw
- Z Axis Servo Motor / w Breaks : 3.0Kw BS

#### Machine Accuracy

- Positioning Accuracy (JIS) Std. : ± 0.008mm / 300mm
- Repeatability Accuracy (JIS) Std. : ± 0.003mm
- Power Required (kva/ Electricity Capacity) : 25 kva(7.5/11kw) 3 Φ -AC 220V ±5% / 3 Φ -AC 380V 60Hz ± 5%
- Air-Pressure Requirement : 6~8 kg/cm²

#### Physical Dimensions & Weight

- External Dimensions ( L x W x H ) : 2700x2300x2550mm
- Gross.Weight : 6450 KG (6.5 ton)
- Ground Clearance ( height ) : 2600mm

### Standard Accessories

The NV-855 comes with the following standard accessories:

- BT-40 DIRECT DRIVEN ( DDS) 12,000Rpm
- TOOL BOX & TOOLS
- AIR- BLAST THROUGH 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
- RIDGIT 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