



MORI SEIKI NV-5000α1/40 MACHINING CENTER

YEAR **2006**
MODEL **NV-5000α1/40**
MSX-501 **CNC (MAPPS-M conversational)**

FEATURES

1. WORK CAPACITY AND TRAVELS

- X-Axis Travel: 800 mm
- Y-Axis Travel: 510 mm
- Z-Axis Travel: 510 mm
- Distance between table surface and spindle nose: 150 - 660 mm

2. TABLE

- Table dimensions: 1,100 x 600 mm
- Maximum load capacity: 1,000 kg
- Configuration: 6 x 18 mm T-slots

3. SPINDLE

- Rotation speed: 14,000 rpm
- Spindle mount: MAS BT-40 (7/24 taper No. 40)
- Bearing inner diameter: 65 mm
- Motor power (30 min/cont.): 22 / 18.5 kW
- Cooling: Spindle cooling refrigerator included

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4. FEEDS AND ACCURACY

- Rapid feeds: 42,000 mm/min
- JOG feed: 0 - 1,260 mm/min
- Positioning accuracy: 0.005 mm (over the entire travel)
- Positioning repeatability: ± 0.001 mm

5. TOOL CHANGE (ATC)

- Magazine capacity: 30 positions
- Tool holder type: MAS BT-40 (90° pull-through shank)
- Maximum tool diameter: 80 mm (125 mm with adjacent empty positions)
- Maximum tool length: 300 mm
- Maximum tool weight: 8 kg
- Tool change time (chip-to-chip): 2.6 seconds (1.0 s tool-to-tool)

6. CNC FEATURES (Mori Seiki MSX-501)

- Monitor: 10.4" TFT color active matrix
- Program memory: 320 m (63 recordable programs)
- Main functions:
 - o LOOK-AHEAD (G08) for high-speed 2D profile control
 - o Synchronized tapping (Rigid Tapping)
 - o Helical interpolation
 - o Load Monitor (cutting force management)
 - o Standard RS-232-C and PCMCIA interface

7. DIMENSIONS, WEIGHTS, AND POWER CONSUMPTION

- Machine height: 2,603 mm
- Installation area: 2,788 x 2,710 mm
- Machine weight: 6,960 kg
- Installed electrical power: 50.5 kVA
- Coolant tank capacity: 275 liters

8. INCLUDED EQUIPMENT AND ACCESSORIES

- Chip conveyor: Left-hand side conveyor
- Coolant: Through-spindle coolant interface (Type-B) with additional high-pressure pump (50 atm) and double filter
- Cleaning system: Pneumatic
- Signaling: End-of-cycle light and buzzer
- Transformer: Included (380V/50Hz > 200V/60Hz)

Machine supplied with manuals, test certificates, and CE declaration

All technical data shown is indicative and subject to change without notice; therefore, it should not be considered binding.

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