

Product Brochure For M8422

DNM 4500 - CNC Vertical Machining Centre

Please Call



ORDER CODE:	M8422
MODEL:	DNM 4500
X Travel (mm):	800
Y Travel (mm):	450
Z Travel (mm):	510
Table Size (mm):	1000x470
Table Capacity (kg):	600
Spindle - Table (mm):	150-660
Spindle Taper:	BT40 - Big Plus
Spindle Speed (rpm):	12,000
Spindle Motor (kW):	18.5
Rapid Traverse (m/min):	36/36/30
Guideways:	Roller LMG
Tool Arm Type (No.):	30
Control:	Doosan Fanuc I Series (0i-Plus)
Programming:	EZI Guide I Conversational



Description

Basic Specifications

- 800, 450, 510mm X, Y, Z travels
- 1000 x 450mm table size
- 600kg table load capacity
- 36, 36, 30m/min X, Y, Z rapid feed rates
- 150 – 660mm spindle to table
- 12,000 rpm spindle speed
- 18.5kW spindle power
- 117Nm spindle torque
- BT40 spindle taper
- Dual contact (Big Plus) spindle nose

Main Spindle

- 12,000 rpm heavy duty spindle
- 18.5kW Fanuc direct drive spindle motor
- Air blast through spindle
- Spindle oil cooler
- Spindle air curtain

Axis Motors & Drives

- Fanuc Servo Drive Amplifiers
- Fanuc high Torque direct coupled AC Digital servo motors
- Fanuc absolute position encoders (No Axes limit switches required)
- Highly rigid, precision, wide span roller linear guideways
- Fully supported table eliminating overhang
- Large diameter pretensioned precision reciprocating ballscrews
- Automatic lubrication equipment

Tool Changer

- High-speed arm type automatic tool changer 1.3 second tool to tool
- 30 tool bi-directional magazine
- Side mount fully enclosed tool magazine

Coolant System

- Flood coolant

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- Box type screen filter
- High pressure through spindle coolant 20 bar x 20 l/min
- Fully enclosed chip & coolant shield
- 360L coolant tank & chip pan

Electrical

- Door safety interlock switch
- Heat exchanger for electrical cabinet
- Line filter
- Transformer

Swarf Removal

- Link type External chip conveyor

Operation

- Remote MPG (Portable Hand Wheel)
- Control panel with > 90° swivel
- 3 tier operation patrol lamp
- Work light
- Operating & maintenance manuals
- Electrical schematics
- Tool box

CNC Control

- Doosan Fanuc I Series (0i-Plus) CNC Controller
- Ezi Guide i Conversational software
- Fanuc 15" Colour LCD
- Rigid-synchronised tapping
- Helical interpolation
- Artificial Intelligence Advanced Preview Control (AI-APC)
- Custom Macro B
- USB & PCMCIA Card Slot
- Ethernet Interface
- RS232 Interface
- Doosan Easy operation package including:
 - Graphical tool table
 - Self diagnostic ATC recovery
 - Onboard G & M code assistance
- + more

Automation

- Control prepared to accept Rotary Table – 4th Axis

Local Service and Support

- Commissioning & Testing Included
- Comprehensive Operator Training Included
- Hare and Forbes In House Service And Applications Staff
- Ongoing Support For Life Of The Machine

Features

- Doosan Machine Tools changes its name to DN Solutions
- Read more at:



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Specific Features



Doors Open



Doors Closed



DNM ATC



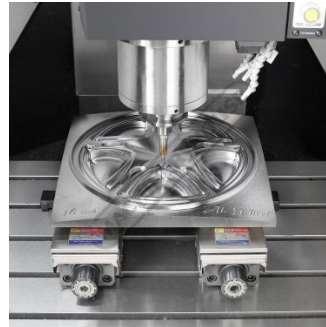
DNM Housing



DNM Spindle



DNM500II Milling



DNM650II Milling