

Product Brochure For M8432

DNM 650 II CNC Vertical Machining Centre



ORDER CODE:	M8432
MODEL:	DNM 650 II
X Travel (mm):	1270
Y Travel (mm):	670
Z Travel (mm):	625
Table Size (mm):	1300x670
Table Capacity (kg):	1000
Spindle - Table (mm):	150-775
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
Programming:	EZI Guide I Conversational



Description

Basic Specifications

- 1270, 670, 625mm X, Y, Z travels
- 1300 x 670mm table size
- 1000kg table load capacity
- 36, 36, 30m/min X, Y, Z rapid feed rates
- 150 – 775mm spindle to table
- 12,000 rpm spindle speed
- 18.5kW spindle power
- 118Nm 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 0
- 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
- 380L coolant tank & chip pan

Electrical

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

Swarf Removal

- Twin screw type internal chip conveyors
- Link type External chip conveyor

Operation

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

CNC Control

- Doosan Fanuc I Series (0i-MD) CNC Controller
- Ezi Guide i Conversational software
- Fanuc 10.4" Colour LCD
- Rigid-synchronised tapping
- Helical interpolation
- Artificial intelligence contour control (AICC)
- 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



DNM500II Front Open



DNM650II Front Open



DNM750L Front Open



DNM ATC



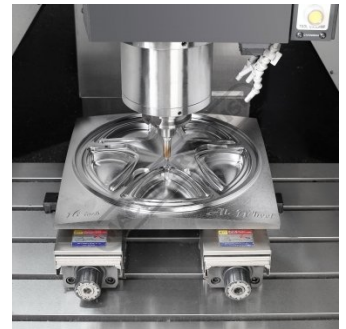
DNM Housing



DNM Spindle



DNM500II Milling



DNM650II Milling