

## 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

## Product Brochure For M8422

- 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

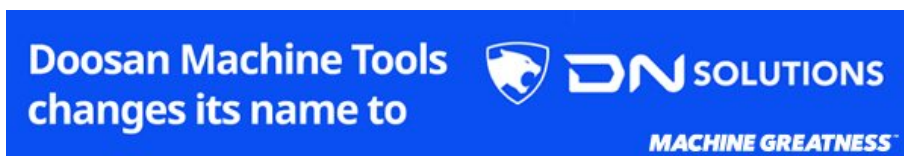
- Control prepared to accept Rotary Table – 4th Axis

### 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:



**Specific Features**



Doors Open



Doors Closed



DNM ATC



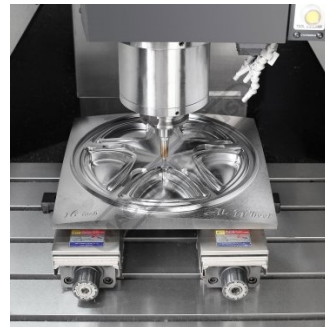
DNM Housing



DNM Spindle



DNM500II Milling



DNM650II Milling