

Product Brochure For M8407

CNC 5 Axis Machining Centre - DVF5000

15,000rpm built-in spindle

Please Call



ORDER CODE:	M8407
MODEL:	DVF5000
X Travel (mm):	625
Y Travel (mm):	450
Z Travel (mm):	400
A Travel (deg):	~
B Travel (deg):	140 (-30 / +110)
C Travel (deg):	360
Table Size (mm):	Ø500 x 450
MAX Workpiece Height (mm):	450
Table Capacity (kg):	400
Spindle - Table (mm):	150-550
Spindle - Table (mm):	~
Spindle - Table (mm):	~
Spindle Taper:	BT40 - BigPlus
Spindle Speed (rpm):	15,000
Spindle Motor (kW):	18.5
Rapid Traverse (m/min):	40
Guideways:	LMG
Tool Change:	60 Tool
Control:	Fanuc 31iMB5 & 5 Axis Simultaneous



Description

Specifications

- 620, 450, 400mm X, Y, Z Travels
- 1400 (-30 ~ +1100) A Axis tilting table
- 3600 C Axis Rotary table
- Ø500mm x 450mm table size
- Ø550mm x 450mm high workpiece capacity (see brochure for working envelope)
- 150 – 550mm spindle to table (@A-00)
- 400kg table load capacity
- 40m/min X, Y & Z rapid feed rates
- 20rpm A & C Axis rapid feed rates
- 15,000 rpm spindle speed
- 18.5kW spindle power
- 118Nm spindle torque
- BT40 Dual contact (Big Plus) spindle
- 7,500kg machine weight
- CE Regulation Specification

Main Spindle

- 15,000 rpm heavy duty spindle
- BT40 "Big Plus" dual contact spindle nose
- 18.5kW direct coupled Fanuc spindle motor
- Air blast through spindle
- Spindle side air blower
- Spindle oil cooler
- Spindle air curtain

CNC Control

- Fanuc 31i-B5 Series CNC Controller
- Fanuc 15" Colour LCD with iHMi
- 5 Axis Simultaneous Machining
- Intelligent Kinematic Compensation
- Rigid-synchronised tapping
- Helical interpolation
- Nano Interpolation
- Large capacity Memory 2GB
- 1000 Block Look ahead

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- Machine Condition Selection Function
- Custom Macro B
- USB & PCMCIA Card Slot
- Ethernet Interface & RS232 Interface
- Easy operation package including:
 - o Graphical tool table
 - o Self diagnostics
 - o Onboard G & M code assistance

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 guideways
- Large diameter pretensioned precision reciprocating ballscrews
- Automatic grease lubrication equipment
- Linear Scales X, Y & Z

Tool Changer

- High-speed arm type automatic tool changer 1.5 second tool to tool
- 60 tool chain type bi-directional side mounted magazine
- LCD Control screen

Coolant System

- Flood coolant
- Box type screen filter
- Fully enclosed chip & coolant shield
- 410L coolant tank & chip pan
- 30 Bar Through Spindle Coolant 3.7kW & 29L/min

Electrical

- Door safety interlock switch
- Heat exchanger for electrical cabinet
- Line filter
- Transformer
- Auto power off
- Operators panel with symbols and text

Swarf Removal

- Hinged belt type chip conveyor (scraper type all in one)

Included Features

- Renishaw TS27 Swivel type Tool Setter
- Renishaw RMP60 Spindle Probe
- Operator Lamp (Green, Amber, Red)
- Remote MPG (Portable Hand Wheel)
- Control panel with > 90° swivel
- LED Work light
- Z axis heat displacement control device
- Operating & maintenance manuals
- Electrical schematics
- Tool box
- Datum ball & Master Tool

Support and Service

- In house specialised applications engineers.
- In house service and support technicians.
- Ongoing phone support for the life of the machine.

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Specific Features



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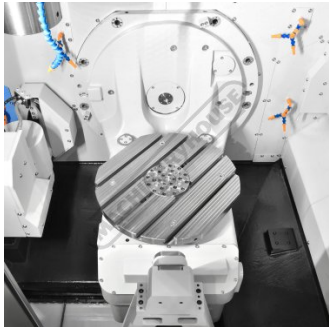
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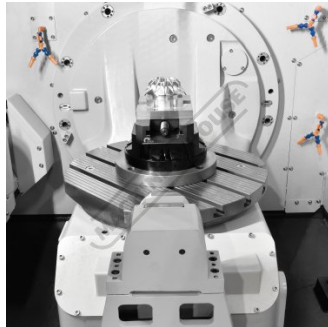
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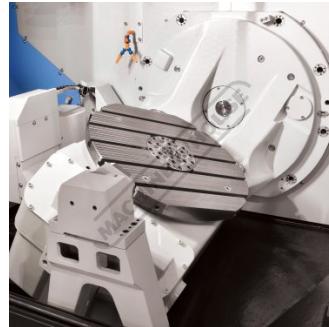
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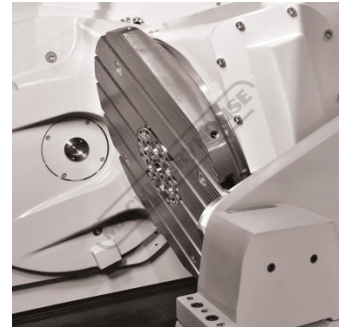
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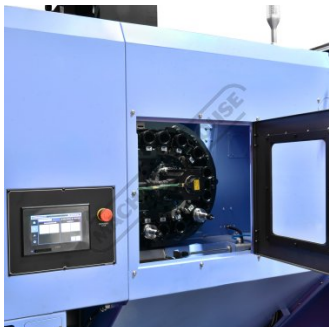
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