



TITAN Training Package

DEM 4000

22" x 16" Vertical Machining Center

The DEM 4000 is a 3-axis VMC with a FANUC Oi-F Plus control that is ideal for new and experienced machinists alike. It's compact yet feature-rich, with a 650mm x 400mm table, 10hp 8,000 rpm spindle and 20 tool ATC.

FEATURES AND STANDARD EQUIPMENT

- FANUC Oi-F Plus control with 10.4" display
- High rigidity machine structure
- Belt driven spindle with (5.5/7.5 kw / 7.4/10 hp motor, 8,000 rpm)
- Cam Type, double arm ATC (20 tools)
- 24 m/min (945 ipm) all linear axis
- AICC I (40 block look ahead)
- Flood coolant with separate coolant tank (100 liter/26 gallon)
- Eco friendly grease lubrication with 1 cartridge pre-installed
- Work light and tower signal light
- Two-year machine parts warranty, one year labor warranty.
Two-year control warranty (parts and labor).

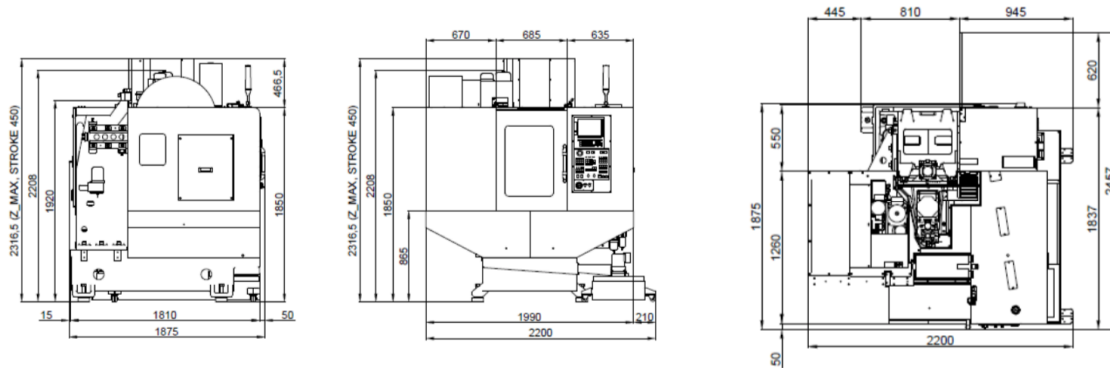
TRAINING PACKAGE INCLUDES

- Kennametal high-performance starter kit with 16 tools, plus inserts and adapters
- Blaser Swissslube coolant starter package
- HAIMER Universal 3D-Sensor
- Mitutoyo inspection tools training package
- SCHUNK grip vise, soft jaws and accessories kit
- Mastercam Educational Suite one-year subscription with post processor
- Machine installation and training



TITANS OF CNC PACKAGE PRICING AVAILABLE

Contact your Doosan Machine Tools distributor to get a quote



SPECIFICATIONS

Capacity

X-axis travel	550 mm (21.65")
Y-axis travel	400 mm (15.748")
Z-axis travel	450 mm (17.7")
Table loading area	650 mm x 400 mm (25.59" x 15.748")
Allowable table load	400 kg (882 lbs)
Table T-slot spacing x width	(3) - 125 mm x 18H8 (3) - 4.92" x 708"

Spindle

Spindle nose to table top	200 mm to 570 mm (7.87" to 22.4")
Spindle	CAT 40
Spindle speed	8,000 rpm
AC spindle motor (S3 25%)	7.8 kw (10 hp)
Spindle torque (S3 25%)	47.75 nm (35.2 ft-lbs)

Automatic Tool Changer

Number of tools	20
Tool shank	CAT 40
Pull stud (supply company #)	711-23
Maximum tool diameter / adjacent pots are empty	80 mm / 125 mm (3.15" / 4.9")
Maximum tool length	300 mm (11.81")
Maximum tool weight	8 kg (17.6 lbs)
Tool-to-tool	1.3 seconds
Chip-to-chip	4 seconds

Motion

X-axis rapid traverse rate	24 m/min (945 ipm)
Y-axis rapid traverse rate	24 m/min (945 ipm)
Z-axis rapid traverse rate	24 m/min (945 ipm)
Cutting feed rate	1 - 12,000 mm/min (.04 - 472 ipm)

Utility

Power required	21 kVA / 55 amps @ 220v
Voltage required - FANUC	205-235 Volts / 3 phase

Tank Capacity

Coolant tank capacity	100 liters (26 gallons)
Lubrication (grease cartridge)	.7 liter (.18 gallon)
Air required	.54 mpa (80 psi) * 8.82 cfm