

Product Brochure For M910

## Optimum CNC Machining Center - F300 OPTi-Mill

(X) 1100mm (Y) 650mm (Z) 650mm

Siemens 828D with Shopmill



ORDER CODE:	M910
MODEL:	F300
Travel (X Axis) (mm):	1100
Travel (Y Axis) (mm):	650
Travel (Z Axis) (mm):	650
Rapid Traverse (X, Y, Z Axis) (m/min):	36
Motor Torque (X & Y Axis) (Nm):	20
Motor Torque (Z Axis) (Nm):	36
Table T Slot (size/distance/number) (-):	18mm / 125mm / 5
Position Accuracy (mm):	0.01
Automatic toolchanger (Pockets):	24
Spindle Taper:	BT40
Spindle Speed Range (rpm):	80-10000
Spindle Motor Torque (Nm):	70Nm
Motor Power (kW / hp):	11 / 15
Voltage / Amperage (V / amp):	415
Dimensions (mm):	2850 x 2450 x 2600
Nett Weight (kg):	5000

OPTIMUM



### Description

Designed and Engineered in Germany the OPTIMUM CNC range is a market leader in Europe and is now available in Australia through Hare and Forbes Machinery House. Offering exceptional value for money the OPTIMUM range can have you set up for in house CNC machining at a fraction of the financial outlay previously required.

#### Basic Specifications

- Travel - X 1100mm, Y 650, Z 650mm
- Table Size - 1200 x 600mm
- Table load - 800kg
- T-Slot size - 18mm / 125mm \* 5
- Rapid Traverse - X 36, Y 36, Z 36m/min
- Spindle Nose to Table - 120 – 770mm
- High precision wide span linear guide ways

#### Main Spindle

- BT 40 Taper
- 10,000 rpm heavy duty spindle
- 11kW / 15Hp spindle motor
- Air blast through spindle

#### Siemens CNC control

- Siemens 828D CNC control
- 12.1 TFT colour controller
- ShopMill conversational step programming
- Measuring cycles for calibration of workpiece probe, workpiece measurement probing and tool measurement
- Rigid-synchronised tapping
- Helical interpolation
- Ethernet interface
- USB port

#### SINUMERIK MDynamics optional technology included with machine

- High speed machining settings
- Advanced surface

#### Axis Motors & Drives

- Siemens servo drive amplifiers
- Siemens high torque direct coupled AC digital servo motors

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### Tool Changer

- High-speed arm type automatic tool changer
- 24 tool bi-directional magazine
- Maximum tool diameter 78mm (Adjacent tools)
- Maximum tool length 300mm
- Maximum tool weight 8kgs

### Coolant System

- Flood coolant (M08)
- Machine coolant tank 250L
- High pressure through spindle coolant 25 bar with separate tank

### Swarf Removal

- Belt type chip conveyor

### Operation

- Remote MPG (Portable hand wheel)
- 3 Colour Operation lamp
- High output LED work light
- Machine operating & maintenance manuals
- Electrical schematics
- Automatic lubrication equipment
- Full CE safety enclosure with safety PLC

## Specific Features



Tool Changer (24 Tools)



Tool Changer Arm



Remote Control



LED Operation 3 colour Light



LED Work Light



Through Spindle Coolant



Chip conveyor

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**Recommended Accessories**

**M907T**  
 BT40 CNC Starter Tooling  
 Package Deal



**L771**  
 Optimum CNC Lathe



**T142**  
 Pull Stud



**T194**  
 BT40-APU16-120 Drill Chuck  
 BT APU Type



**T220**  
 BT40 x ER32-70 Collet Chuck



**T226**  
 BT40 x ER40-80 Collet Chuck



**T204**  
 BT40 x ER16-100 Collet Chuck



**T208**  
 BT40 x ER20-70 Collet Chuck



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**T215**  
 BT40 x ER25-100 Collet Chuck

**T150**  
 BT40-FMB22-45 Face Mill Arbor

**T151**  
 BT40-FMB22-90 Face Mill Arbor

**T164**  
 BT40-SLN12 Side Lock Holder  
 (BT40)



**T165**  
 BT40-SLA16 Side Lock Holder  
 (BT40)

**T167**  
 BT40-SLA20 Side Lock Holder  
 (BT40)

**T169**  
 BT40-SLA25 Side Lock Holder  
 (BT40)

