

Product Brochure For M8792

CNC Vertical Machining Centre - LG1000



ORDER CODE:	M8792
MODEL:	LG1000
X Travel (mm):	1000
Y Travel (mm):	510
Z Travel (mm):	630
Table Size (mm):	1150 x 510
Table Capacity (kg):	700
Spindle – Table (mm):	100 - 730
Spindle Taper:	BT40
Spindle Speed (rpm):	8,000
Spindle Motor (kW):	11
Rapid Traverse (m/min):	30 / 30 / 24
Guideways:	Roller LMG
Tool Arm Type (No.):	24
Control:	Fanuc I Series
Programming:	Manual Guide I & Conversational



Description

Basic Specifications

- 1000, 510, 630mm X, Y, Z travels
- 1150 x 510mm table size
- 700kg table load capacity
- 30, 30, 24m/min X, Y, Z rapid feed rates
- 100 – 730mm spindle to table
- 8,000 rpm spindle speed
- 11kW spindle power
- 70Nm spindle torque
- BT40 spindle taper
- High precision wide span linear guide ways

Main Spindle

- 8,000 rpm heavy duty spindle
- 11kW Fanuc spindle motor
- Air blast through spindle

CNC Control

- Fanuc Oi-MD CNC Controller
- Manual Guide & Conversational software
- Fanuc 10.4 Colour LCD
- Rigid-synchronised tapping
- Helical interpolation
- Artificial intelligence contour control (AICC)
- Custom Macro B
- Ethernet Interface
- USB & PCMCIA Card Slot
- RS232 Interface
- Hartrol Ai100 Enhanced CNC Software
- Spindle Load Monitoring
- Advanced Tool Register
- Advanced Workpiece Co-ordinate System

Axis Motors & Drives

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

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- Fanuc absolute position encoders (No Axes limit switches required)
- High precision, wide span linear guide ways
- Fully supported table eliminating overhang
- Large diameter pretensioned precision reciprocating ballscrews
- Automatic lubrication equipment

Tool Changer

- High-speed arm type automatic tool changer
- 24 tool bi-directional magazine
- Side mount fully enclosed tool magazine

Coolant System

- Flood coolant
- High pressure through spindle coolant 20 bar
- Fully enclosed chip & coolant shield
- Coolant Gun

Electrical

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

Swarf Removal

- Base chip flushing
- Screw type external chip conveyor

Operation

- Remote MPG (Portable Hand Wheel)
- Control panel with > 90° swivel
- 3 tier operation patrol lamp
- Work light
- Machine operating & maintenance manuals
- Controller manuals on CD
- Electrical schematics
- Tool box

Automation

- Control prepared to accept Rotary Table & 4th Axis

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Hartford

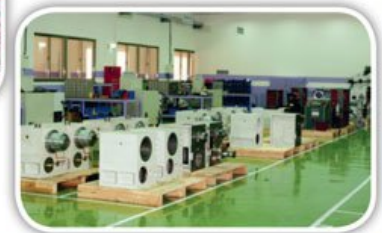
innovation

The High Quality Hartford range of CNC machining centres is manufactured by She-Hong Industrial Co. Ltd of Taiwan.

With over 50 years experience in the research, development and manufacture of precision machine tools, Hartford is a dedicated specialist producer of CNC machining centres. Producing only CNC machining centres allows all of Hartford's substantial research and development budget to be channelled into the one type of product.

Hartford is the largest single machining centre manufacturer in Taiwan and is rated as a world-class machine tool builder. Unlike many of their Taiwanese competitors who are merely machine assemblers Hartford produce over 90% of their machine components and carry out all of their assembly in house. The results of this can be seen in the quality, consistency and performance of their machines.

In recent years the above facts combined with Hare and Forbes CNC Division's commitment to the product has resulted in Hartford being the best selling Taiwanese built machining centre in Australia.



Specific Features



LG800



LG Frame



Spindle



ATC

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LG with Safeway Vices