

Product Brochure For M8793

CNC Vertical Machining Centre - LG1000



ORDER CODE:	M8793
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):	10,000
Spindle Motor (kW):	11
Rapid Traverse (m/min):	30 / 30 / 24
Guideways:	LMG
Tool Arm Type (No.):	24
Control:	Hartrol Plus
Programming:	Hartcam Conversational

Hartford
innovation



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
- 10,000 rpm spindle speed
- 11kW spindle power
- 70Nm spindle torque
- BT40 spindle taper
- High precision wide span linear guide ways

Main Spindle

- 10,000 rpm heavy duty spindle
- 11kW spindle motor
- Air blast through spindle

CNC Control

- Hartrol Plus CNC Control
- Hartcam 2.5 Conversational Software
- 19" Touch Screen Colour LCD
- Rigid-synchronised tapping
- Helical interpolation
- High Speed Machining Function
- Ethernet Interface
- USB Port
- RS232 Interface
- Hartrol Enhanced CNC Software
- Spindle Load Monitoring
- Advanced Tool Register
- Advanced Workpiece Co-ordinate System

Axis Motors & Drives

- Mitsubishi servo drive amplifiers
- Mitsubishi high torque direct coupled AC digital servo motors
- Mitsubishi absolute position encoders (No Axes limit switches required)

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- 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

Specific Features



LG Frame



Spindle



ATC



LG with Safeway Vices

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Hartrol Plus Main Screen



Hartrol Plus P2 Controller