

Specification



T.W. Ward CNC Machinery Limited
Albion Works, Savile Street, Sheffield, S4 7UD England
Tel: (+44) 0114 276 5411 Fax: (+44) 0114 270 0786
e-mail: sales@wardcnc.com

www.wardcnc.com

Catalogue Number: **07862**

NEW HARTFORD MODEL F1 LG-800AP HIGH PERFORMANCE OPEN FRONTED VERTICAL MACHINING CENTRE WITH 24-STATION ARM TYPE AUTO TOOLCHANGER AND HARTROL-FANUC A1100 CONTROL SYSTEM.



TABLE SIZE	950 x 510 MM
X AXIS TRAVEL	800 MM
Y AXIS TRAVEL	510 MM
Z AXIS TRAVEL	630 MM
TABLE TO SPINDLE NOSE	100 - 730 MM
SPINDLE CENTRE TO COLUMN	560 MM
MAX TABLE LOAD	500 KGS
MAX SPINDLE SPEED	40 - 8000 RPM
SPINDLE TAPER	BT 40
TOOLCHAGER CAPACITY	24 STATIONS
SPINDLE DRIVE MOTOR	7.5 / 10 KW
CUTTING FEED RATES	UP TO 10,000 M/MIN
RAPID TRAVERSE RATES	X & Y 30 M/MIN, Z 24 M/MIN
ELECTRICS	415V, 3PH, 50HZ



STANDARD ACCESSORIES

Full Splash Guard
Centralized Automatic Lubrication System
Work Lamp (Fluorescent)
Through Spindle Air Blast
Leveling Bolts & Blocks
Auto Power Off
Cycle Finish Lamp

RS-232 Interface
Manual Pulse Generator
Operator & Maintenance Handbooks
Coolant Gun
CE Mark
Link Type Front Chip Conveyor
Flushing Device

CONTROL SPECIFICATION

Hartrol Fanuc Ai100 (0iMC-PB)
Inch / Metric Conversion (G20/G21)
Absolute Incremental Command (G90/G91)
ISO/EIA Automatic Identification
RS232 Interface
Positioning (G00)
Uni-Directional Positioning (G61)
Linear Interpolation (G01)
Circular Interpolation (G02/G03)
Helical Interpolation
Polar Coordinate Command
Memory Capacity – 320M
Number of Stored Programs – 400
Background Editing
S-Code Output 4-Digit BCD-Binary
Spindle Rate 50-120%
Feed Per Minute
Rapid Feedrate Override 0%, 25%, 50%, 100%
Cutting Feedrate Override 0-200%
Jog Feedrate Override
F-1 Digital Feed
Override Cancel
Handle Feed Rate x1, x10, x100
Rigid Tapping / Synchronous Tapping
M-Code
Automatic Coordinate System Setting
Machine Coordinate System
Work Coordinate System Setting (G54/G59)
Coordinate System Setting (G54/G59)
Manual Reference Point Return
Automatic Reference Point Return
2nd Reference Point Return
Reference Point Return Verify
Work Coordinate System Presetting (G92.1)

Additional Work Coordinate System (48 Sets)
Tool Command (T2 BCD)
Tool Length Offset (G43/G44/G49)
Cutter Compensation C (G403/G41/G42)
Tool Position Offset (G45-G48)
Manual Tool Length Measurement
Offset Memory C
Tool Life Management
Offsets – 400
Single Block
Optional Block Skip
Dry Run
Machine Lock
Optional Stop (M01)
Misc. Function Lock
Manual Absolute On/Off
PLC Switch
DNC/Tape Operation
Manual Handle Interruption
Program Restart Function
Sub Program Control (M98.M99)
Corner Chamfering / Corner Rounding
Canned Cycle for Drilling (G80-G89)
Automatic Corner Override (G62)
User Macro
No. of Variable Command Sets – 100
Backlash Compensation
Memory Type Pitch Error Compensation
Coordinate System rotation
Mirror Image
Scaling (G50/G51)
Programming Date Input (G10)
Skip Function (G31)
Tool Length Automatic Measurement (G37)
Emergency Stop



Travel Protection
Program Protection
Operation Help Display
IC Memory Interface
Run Hour Display & Parts Count
4th Axis Interface

7.2" LCD Mono
Workpiece Calibration
Calculator
Load Monitor
Tool Length Manual Measurement

LENGTH	2960 MM
WIDTH	2470 MM
WEIGHT	5600 KGS

NOTE: The information contained herein is provided in good faith, but however due to unforeseen errors or omissions cannot be binding as to accuracy.

