

Specification



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NEW HARTFORD MODEL KAPPA VMC-1300AG HEAVY-DUTY OPEN FRONTED VERTICAL MACHINING CENTRE WITH 24-STATION ARM TYPE AUTO TOOLCHANGER, GEARED HEAD AND HARTROL-FANUC A1200 (21iMB) CONTROL SYSTEM.



TABLE SIZE	1400 x 610 MM
X AXIS TRAVEL	1300 MM
Y AXIS TRAVEL	610 MM
Z AXIS TRAVEL	610 MM
TABLE TO SPINDLE NOSE	270 - 880 MM
SPINDLE CENTRE TO COLUMN	645 MM
MAX TABLE LOAD	1500 KGS
MAX SPINDLE SPEED	60 - 6000 RPM
SPINDLE TAPER	BT 50
TOOLCHANGER CAPACITY	24 STATIONS
SPINDLE DRIVE MOTOR	26 KW
CUTTING FEED RATES	UP TO 7,000 M/MIN
RAPID TRAVERSE RATES	X, Y & Z : 20 M/MIN
ELECTRICS	415V, 3PH, 50HZ

STANDARD ACCESSORIES

Full Splash Guard
25 Bar through Spindle Coolant
Oil Cooler
Centralized Automatic Lubrication
System
Work Lamp
Spindle Air Blast
Leveling Bolts & Blocks
Auto Power Off
Cycle Finish Lamp

RS-232 Interface
Manual Pulse Generator
Operator & Maintenance Handbooks
Coolant Gun
Oil Separator
CE Mark
4th Axis Preparation & Interface
Link Type Front Chip Conveyor
Chip Bucket

CONTROL SPECIFICATION

Hartrol Fanuc AI200 (0iMC)
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 – 640M
Number of Stored Programs – 200
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 0-150%
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 – 200
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
Graphic Display
Dynamic Graphic Display
Operation Help Display
IC Memory Interface
Run Hour Display & Parts Count

4th Axis Interface
AI Contour Control
8.4" TFT/LCD
Calculator
Load Monitor
AICC Programmable Parameter Setting

LENGTH	3800 MM
WIDTH	3910 MM
HEIGHT	2946 MM
WEIGHT	10000 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.

