

# Farrell Engineering Ltd

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Category	:-	Horizontal Machining Centre CNC (HMC)	Serial No	:-
Model	:-	makino mc-65	Country	:-
Make	:-	makino	Type of Machine	:- horizontal machining centre twin pallet
Year	:-	1985	Weight	:- 0.0
Dimensions	:-		Power	:-
Location	:-		Asking Price	:- On Request

Specifications :-	
Excellent working Condition, Working Dvd Available On Request.	
Makino has 40 ATC	
Twin Pallet 500x500mm	
ISO 50 ,	
Fanuc 11M,	
1985 PALLET SIZE....: 20" X 20" CROSS TRAVEL (X).....: 25" VERTICAL TRAVEL (Y).....:	
20" LONGITUDINAL TRAVEL (Z).....: 20" SPINDLE SPEEDS.....: 4,000 RPM SPINDLE	
TAPER.....: 50 TPR CONTROL TYPE.....: FANUC 11M	

Descriptions :-	
For Higher Precision Positioning accuracy (+,-)0.01 mm (0.0004 inch) full stroke (standard) (+,-)0.005 mm (0.0002 inch) full stroke (scale feedback) Repeatability (+,-)0.003 mm (0.00012 inch) (standard) (+,-)0.0015 mm (0.00006 inch) (scale feedback)	
Boring diameter repeatability (+,-) 0.003 mm (0.00012 inch) bore Table indexing accuracy (+,-) 3 sec per 360 Pallet positioning and repeatability (+,-) 0.01 mm (0.0004 inch) (for X-, Y- and Z-axes)	
For Better Machining Efficiency Spindle output AC 11 kW (15 HP) (High power type- AC 15 kW (20 HP) 30 min.)	
Spindle speed 10- 4000 rpm (S4 digit direct command) (High speed type- 10- 7000 rpm, Spindle nose NT-40)	
Maximum workpiece dimensions 630 x 500 x 525 mm (25 x 20 x 20-3/4 inch)	
Automatic indexing angle 360 planes in increments of 1 Rapid traverse 12 m per min (480 ipm) Tool-to-tool time Approx. 3 sec. Metal-to-metal time Approx. 9 sec. Table indexing time 4 sec. for 90 ; 5.5 sec. for 180 Maximum workpiece weight 700 Kg (1540 lbs) Number of tools 30 (40*, 60*, 99*, 120*) Pallet Change time Approx. 40 sec.	
THRU SPINDLE COOLANT Table and Pallet Table type -Pallet mounting type Indexing angle -360 planes, in increments of 10 Pallet dimensions- 500 x 500 mm & 20 X 20 INCH Width and number of T-slots on pallet-18MM X 5 & 11/16 inch x 5 Allowable load. on pallet - 700 kg & 1540 lbs WorkPiece positioning-Edge locator system	
Range of Movement Table longitudinal (X-axis) -630 mm & 25 Inch Spindle vertical (Y-axis)- 525 mm & 20-	

3/4inch Table cross (Z-axis) - 500 mm & 20 inch Spindle center to table top -60-585 mm & 2-1/4-23 inch Spindle nose to pallet center- 150-650mm & 6-26 inch  
Spindle Spindle nose- 7/24 taper No. 50 40 50 Spindle speed- 10 - 4000rpm 7000 15000 Spindle speed change- Stepless Spindle drive motor- AC11 kw (15kw)  
Feed Rate Cutting feed -0.1-4000 mm/min 0.0004-157.4ipm Rapid traverse-12M/MIN 480ipm Least input increment- 0.001mm 0.00004 inch  
ATC Number of tools- 40 Tool selection system- Bi-directional Random Tool shank - MAS403-BT50 (SK shank or V-flange) Automatically changeable tools Maximum tool length - 400 mm 16 inch Maximum tool weight (with shank) - 15kg 33lbs Power Supply - 38kVA Machine Weight - approx 7500kg 16500lbs