

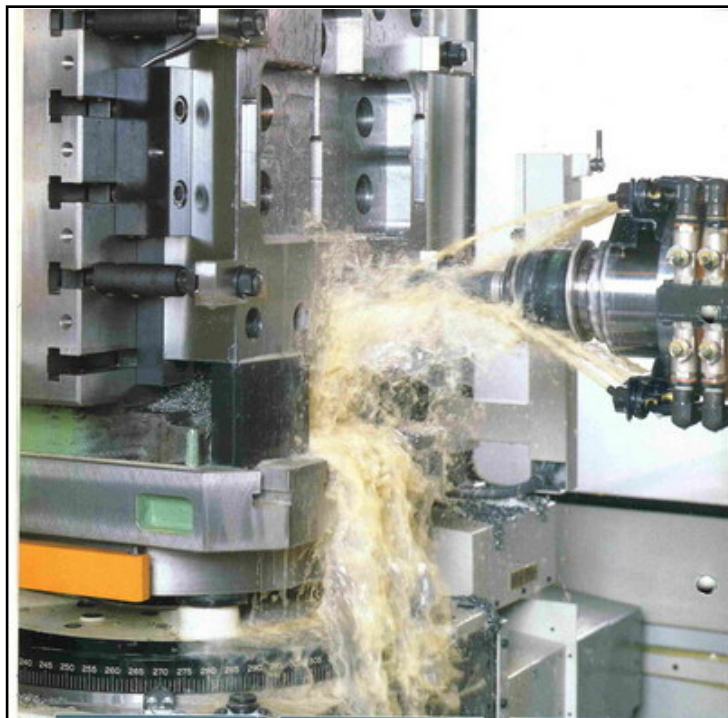
# Farrell Engineering Ltd

Westbury House, 23-25 Bridge Street, Pinner HA5 3HR United Kingdom

Tel : 0044-208-3432 3291 Fax : 044-208-9657586

Email : [chan@farrellengineering.com](mailto:chan@farrellengineering.com)





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

Specification :-

**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**

Description :--

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 1S 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