

## A Variety of Functions (Specifications & Accessories)

Machine Specifications

<b>Travel</b>		
X-axis travel (longitudinal movement of column)	500 mm	
Y-axis travel (lateral movement of spindle head)	500 mm	
Z-axis travel	500 mm	
Cross movement of table		
Distance from table surface to spindle center	80~540 mm	
Distance from table center to spindle nose	50~710 mm	
<b>Table (table type)</b>		
Pallet working surface	400×400 mm	
Maximum pallet loading capacity	400 kg	
Pallet surface configuration	24 M16 tapped holes (T slots: 14, square: 80 mm)	
Height up to pallet surface	1100 mm	
Minimum table indexing angle	0° to 90° index	
Table indexing time	3 sec per 30°	
Pallet positioning	4-point taper bushing type	
<b>Spindle</b>		
Spindle speed range	120~12000 rpm	
Number of spindle speed ranges	5 range (12 ranges (selectable) for high torque machine)	
Type of spindle taper hole	A-24 taper No. 40	
Spindle bearing inner diameter	85 mm	
Spindle drive motor	AC 22 kW (15 min rating) 10.5 & 9A (continuous rating)	
Spindle starting characteristics	1.7 sec (at 12000 rpm) 0.5 sec (at 6000 rpm)	
<b>Feedrate</b>		
Rapid traverse rate	24000 mm/min	
Feedrate	1~8000 mm/min	
Ang. feedrate	2.8~1200 mm/min (15° stepped)	
<b>Automatic tool changer</b>		
Type of tool shaft	40T JIS B6330 or 40P JIS B6336 or MA3403, F40T11 mm × 12 pins (140, 60, 120 pins)	
Tool storage capacity		
Maximum tool diameter	12 pins	Standard 120 mm, limited 140 mm
	40, 60, 120 pins	Standard 70 mm, limited 140 mm
Maximum tool length		300 mm
Maximum tool weight		5 kg
Tool selection method		Random, shorter path
Tool changing time		Tool-to-tool 2 sec chip-to-chip 4 sec

<b>Automatic pallet change</b>		
Number of pallets	2	
Pallet change method	Auto change by vertical arm	
Pallet changing time	6 sec	
<b>Motors</b>		
Feed motors	AC 3.5 kW for each axis	
Table indexing motor	AC 0.75 kW	
Hydraulic pump motor	3.3 kW	
Cooling unit motors	0.75 kW×3	
Lubricant pump motors	0.75 kW×3	
Coolant pump motors	0.75 kW×3	
<b>Power sources (Standard machine)</b>		
Electrical power supply	AC 200/200 V/10% 60 Hz, 50/50 Hz/2%	
Compressed air supply	0.5~0.8 MPa (5~8 kgf/cm <sup>2</sup> ) 600 c/min (at atmospheric pressure) max. 2	
<b>Tank capacity</b>		
Hydraulic oil tank capacity	80 l	
Lubricant tank capacity	6.82 l	
Spindle lubricant tank capacity	30 l	
Coolant tank capacity	400 l	
<b>Machine size (Standard machine)</b>		
Machine height	2020 mm	
Floor space	2430×2480 mm	
Machine weight with numerical controller	3400 kg	
Level	3-point support	

### Accuracy

Positioning accuracy	±0.003 mm per 500 mm
Repeatability	±0.002 mm (width scaled)
	±0.002 mm
	±0.001 mm (width scaled)
Table indexing accuracy	±0.01°
Table indexing repeatability	±1"
Pallet change repeatability	OK, Y, Z: 0.005 mm

\*1. Option

Note 1: Spindle-through coolant is not available.

Note 2: Compressor is for a 1.5 to 5 kW reciprocating compressor.

■ Specifications are subject to change without notice.

# Makino A55 Manual

**C Cleary**



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 $2\text{NaClO}_3 \rightarrow 2\text{NaCl} + 3\text{O}_2$   
 $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$   
 $2\text{NH}_3 + 3\text{H}_2\text{O}$

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