

# FHC-500A

## Specifications

<b>TRAVEL</b>	
X-axis Travel (in.)	31.5 in.
Y-axis Travel (in.)	31.5 in.
Z-axis Travel (in.)	31.5 in.
<b>ROTARY TABLE</b>	
Working table (in.)	20 x 20 in. / 20 x 25* in.
The maximum load of working table (lbs.)	1,323 lbs.
Minimum indexing degree	0.001° / 1°*
Surface configuration (in.)	M16 x 0.08 x 1.30 x 4 in.
Rotary time	3.6 sec/rev
Cutting force resistance (lb-in.)	21,699 lb-in.
<b>SPINDLE</b>	
The distance from spindle nose to working table surface (in.)	5.9 - 37.4 in.
The distance from spindle center to table surface (in.)	4.7 - 36.2 in.
Spindle nose taper	BT-40 / CT-40
Spindle speed (RPM)	12,000 / 15,000* RPM
Spindle diameter (in.)	2.75 in.
<b>FEED</b>	
Rapid feed (X/Y/Z) (in./min)	1,417/1,417/1,417 in./min (2,362/2,362/2,362* in./min)
Cutting speed (in./min)	393.7 - 787,401.5 in./min
<b>ATC</b>	
Tool change method	Arm
ATC drive	Servo motor
Magazine drive	Servo motor
Tool shank	BT-40
Tool capacity	40 T / 60* T
Tool change time	T-T 1.5 sec, C-C 4.5 sec
Pull stud	MAS 403 P40T-1 (45°) / ANSI 40
Max. tool diameter (w/ adjacent tool) (in.)	3.75 in.
Max. tool diameter (w/o adjacent tool) (in.)	7.87 in.
Max. tool length (in.)	15.75 in.
Average tool weight (lbs.)	11 lbs.
Max. tool weight (lbs.)	24.25 lbs.
Tool selection method	Fixed position

<b>APC</b>	
Exchange method	Rotary pallet change
Number of pallets	2
Max. jig swing diameter (in.)	Ø29.5 in.
Max. jig height (in.)	35.4 in.
Pallet surface to floor (in.)	45.3 in.
Pallet exchange time	11 sec
<b>ACCURACY</b>	
Positioning accuracy	VDI 3441 P0.0005 in. (JIS B6338 ± 0.00015 / 12 in.)
Repeatability accuracy	VDI 3441 PS0.0004 in. (JIS B6338 ± 0.0001 in. / 12 in.)
<b>MOTOR</b>	
Spindle motor	Yaskawa 18.5 / 22 Kw (cont. / 15 min)
Servo motor X / Y / Z / B	Yaskawa X, Y, Z: 5.5 Kw, B: 4 Kw
	Yaskawa X, Y, Z: 4.5 Kw, B: 2 Kw
Magazine motor	Yaskawa: Absolute, With brake
ATC motor	Yaskawa: Absolute
Coolant pump motor	0.37 Kw
Hydraulic unit motor	3.7 Kw
<b>OTHER</b>	
Power capacity	45 kVA
Pressure capacity	42.67-56.89 psi (0.3-0.4 Mpa) 200 L/min
Mechanical dimensions (W x D x H) (in.)	122 x 240 x 118 in.
Machine weight (lbs.)	29,762 lbs.

All specifications are subject to change without notice.

\*Optional