

CNC CONTROLLED MACHINING CENTRES

AJV 550/760/800/1000



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The Ajax V range of machining centres are linear rail high speed and high feed machines, having substantial design construction giving rigid vibration free cutting.

Supplied as standard with swarf conveyor and bin, coolant and air guns for easy cleaning down and high speed tool changes. With rapid speeds of 36 m/min and spindle speeds of 10 or 12,000 rpm. These machines make formidable production centres, outperforming the competition.



MODEL	AJV 550	AJV 760	AJV 800	AJV 1000
Table	MJ V JJU	A3V 700	AJV 000	A3V 1000
Working surface	700 x 400mm	900 x 500mm	900 x 500mm	1200 x 500mm
"T" Slots (number & width)	3 x 18mm	3 x 18mm	5 x 18mm	5 x 18mm
Distance between "T" Slots	100mm	100mm	100mm	100mm
Maximum weight over table	400Kgs	500Kgs	700Kgs	800Kgs
Spindle Nose to Table	110 ~ 610mm	110 ~ 610mm	110 ~ 610mm	110 ~ 610mm
Traverses				
X-Axis	550mm	760mm	800mm	1,000mm
Y-Axis	400mm	450mm	500mm	500mm
Z-Axis	500mm	500mm	500mm	500mm
Feed system				
Working Feed Rate (X,Y,Z)	1-10,000 mm/min	1-10,000 mm/min	1-10,000 mm/min	1-10,000 mm/min
Rapid Feed Rate (X,Y, Z)	36,000 mm/min	36,000 mm/min	36,000 mm/min	36,000 mm/min
Ball Screws	X, Y & Z = 32x12mm	X, Y & Z = 32x12mm	X, Y & Z = 32x12mm	X, Y & Z = 32x12mm
Drive System	Direct Drive	Direct Drive	Direct Drive	Direct Drive
Spindle Taper	MAS-403 BT.40	MAS-403 BT.40	MAS-403 BT.40	MAS-403 BT.40
Spindle Speeds	8,000-12,000 RPM	8,000-12,000 RPM	8,000-12,000 RPM	8,000-12,000 RPM
Automatic Tool Changer				
Tool storage capacity	16 or 24	24 or 30	24 or 30	24 or 30
Tool selection system	Bi directional	Bi directional	Bi directional	Bi directional
Max. tool Ø x length	90 x 300mm	90 x 300mm	90 x 300mm	90 x 300mm
Pull stud	MAS P40T-1	MAS P40T-1	MAS P40T-1	MAS P40T-1
Air pressure required	6-7 kg/cm ² 85psi	6-7 kg/cm ² 85psi	6-7 kg/cm ² 85psi	6-7 kg/cm ² 85psi
Tool change time (tool to tool)	- c ,g, c copc.	2.5 sec	2.5 sec	2.5 sec
Tool change time (chip to chip)		3.6 sec	3.6 sec	3.6 sec
Motors				
Main spindle motor Heidenhaim	7.5Kw 15min	13Kw 15 min	17Kw 15 min	17Kw 15min
·	5.5Kw cont	7.5Kw cont	10Kw cont	10Kw cont
Feed motors (X, Y, Z)	2.4 / 3.5 / 5Kw	2.4 / 3.5 / 5Kw	2.4 / 3.5 / 5Kw	3 / 4 / 5.5Kw
Coolant motor	0.96Kw	0.96Kw	0.96Kw	0.96Kw
Lubrication pump	0.1Kw	0.1Kw	0.1Kw	0.1Kw
Machine Performance				
Positioning accuracy	+/- 0.010mm	+/- 0.010mm	+/- 0.010mm	+/- 0.010mm
Repeatability	+/- 0.007mm	+/- 0.007mm	+/- 0.007mm	+/- 0.007mm
System resolution	+/- 0.001mm	+/- 0.001mm	+/- 0.001mm	+/- 0.001mm
Machine Size				
Dimensions (mm)	2,004 x 1,960 x 2,350	2,280 x 2,260 x 2,350	2,380 x 2,280 x 2,850	2,700 x 2,250 x 2,850
Net Weight	3,200Kgs	3,900Kgs	4,600Kgs	4,950Kgs
Total Power Consumption	27 Kva	27 Kva	32 Kva	32 Kva
Communications Port	RS-232C, RJ45 & USB			
Controller	HEIDENHAIN, SIEMENS, FANUC OR FAGOR			

TECHNICAL SPECIFICATIONS

STANDARD ACCESSORIES

High speed linear guideways

Brushless A.C. Main Motor

Telescopic protection guideways.

Complete Coolant System.

Electronic Hand wheel.

Tool Storage capacity 16, 24 or 30

Coolant capacity 200 L

RS.232C Interface. USB & RJ45 on Heidenhain

High accuracy Ball Screws (C-3)

Pneumatic Tool Clamping System.

Automatic lubrication system.

Full enclosure & safety guarding.

Test Sheet.

Introduction Manuals, CNC Unit Manuals & Spares

Parts List.

C.E. Safety regulation conformity

Spiral swarf conveyor & bin

Air blow to spindle to blow swarf when dry cutting.

Wash down gun



Fanuc 0i MD control

Fanuc 0i MD manual guide i

Heidenhain TNC controls

Flat swarf conveyor

Through spindle coolant

30 ATC

10,000 RPM spindle with chiller

12,000 RPM spindle with chiller

4th axis options

5th axis options





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