

WIDE BED HEAVY DUTY MACHINING CENTRES

AJMCV 850/1100/1200 /1400/1600/2000 WB



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AJMCV 850 1100/1200/1400 1600/2000 WB

These are heavy duty solid box way vertical machining centres, designed with rigidity in mind to cut harder materials.

Also incorporating large Y axis travels to obtain a larger cutting area. Ajax has long been known for selling solid reliable machines and these are no exception. Available with Fanuc, Heidenhain, Siemens or Fagor controls to suit any requirement or application. Other options include through spindle coolant to give you coolant straight to the cutting tip, through ball screw coolant to give you better accuracy all day, coolant refrigeration to keep your coolant at a constant temperature, Renishaw or Heidenhain tooling & job probes, higher speed spindles with cooling, 4th & 5th axis options, high accuracy linear scales for super high precision, riser blocks to give more daylight clearance under the spindle.



MODEL Table	AJMCV 850	AJMCV 1100	AJMCV 1200	AJMCV 1400	AJMCV 1600	AJMCV 2000
Working surface	1,050 x 600mm	1,300 x 600mm	1,300 x 600mm	1,450 x 600mm	1,700 x 810mm	2,200 x 1000mm
"T" Slots (number & width)	5 x 18mm	5 x 18mm	5 x 18mm	5 x 18mm	6 x 22mm	8 x 22mm
Distance between "T" Slots	125mm	125mm	125mm	125mm	125mm	125mm
Maximum weight over table	800Kgs	800Kgs	1,000Kgs	1,200Kgs	2,100Kgs	2,500Kgs
Spindle centre to col. surface	700mm	700mm	750mm	750mm	920mm	920mm
Spindle Nose to Table	165 ~ 765mm	165 ~ 765mm	165 ~ 765mm	165 ~ 765mm	185 ~ 885mm	200 ~ 900mm
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Traverses						
X-Axis	850mm	1,100mm	1,200mm	1,400mm	1,600mm	2,000mm
Y-Axis	650mm	650mm	700mm	700mm	800mm	1,000mm
Z-Axis	600mm	600mm	600mm	600mm	700mm	800mm
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	1-10,000 mm/min	1-10,000 mm/min
Rapid Feed Rate (X,Y)	16,000 mm/min	16,000 mm/min	16,000 mm/min	16,000 mm/min	15,000 mm/min	15,000 mm/min
Rapid Feed Rate (Z)	16,000 mm/min	16,000 mm/min	16,000 mm/min	16,000 mm/min	15,000 mm/min	15,000 mm/min
Ball Screws(X, Y & Z	12mm pitch	12mm pitch	12mm pitch	12mm pitch	10mm pitch	5mm pitch
Spindle Taper	MAS-403 BT.40	MAS-403 BT.40	MAS-403 BT.40	MAS-403 BT.40	MAS-403 BT.40 or	50 MAS-403 BT.4
Spindle Speeds	8,000-12,000 RPM	8,000-12,000 RPM	8,000-12,000 RPM	8,000-12,000 RPM	8,000 RPM	10,000 RPM
Automatic Tool Changer						
Tool storage capacity	24, 32 or 40	24, 32 or 40	24, 32 or 40	24, 32 or 40	24, 32 or 40	24, 32 or 40
Tool selection system	Bi directional	Bi directional	Bi directional	Bi directional	Bi directional	Bi directional
Fool change time (chip to chip)		2.5sec	2.5sec	2.5sec	2.5 (#50: 4.5 sec)	2.5 (#50: 4.5 sec)
Max. Tool Ø x length	77.5 x 300mm	77.5 x 300mm	77.5 x 300mm	77.5 x 300mm	77.5 x 300 (110x30	,
Max. Tool Weight	7Kgs	7Kgs	7Kgs	7Kgs	7Kgs (#50: 15Kgs)	•
Pull stud	MAS P40T-1	MAS P40T-1	MAS P40T-1	MAS P40T-1	#40 or #50	#40 or #50
Air pressure required	6-7 kg/cm ²	6-7 kg/cm ²	6-7 kg/cm ²	6-7 kg/cm ²	6-7 kg/cm ²	6-7 kg/cm ²
Type	High speed twin arm	High speed twin arm	High speed twin arm	High speed twin arm	High speed twin arm	*
Motors Main spindle motor (AC)						
Fanuc	15 / 11 Kw	15 / 11 Kw	15 / 18.5 Kw	15 / 18.5 Kw	30 / 22 Kw	30 / 22 Kw
-leidenhain	32 / 15 Kw	32 / 15 Kw	32 / 15 Kw	32 / 15 Kw	32 / 15 Kw	32 / 15 Kw
Feed motors (X, Y)	3 Kw 12 Nm	3 Kw 12 Nm	4 Kw 22 Nm	4 Kw 22 Nm	7 Kw 30 Nm	7 Kw 30 Nm
Feed motors (Z)	3 Kw 12 Nm	3 Kw 12 Nm	4 Kw 22 Nm	4 Kw 22 Nm	7 Kw 30 Nm	7 Kw 30 Nm
Machine Performance						
Positioning accuracy	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm
Repeatability	+/- 0.003mm	+/- 0.003mm	+/- 0.003mm	+/- 0.003mm	+/- 0.003mm	+/- 0.003mm
System resolution	+/- 0.003mm	+/- 0.003/11/11 +/- 0.001mm	+/- 0.003mm	+/- 0.003/mm	+/- 0.003mm	+/- 0.003mm
Machine Size						
Dimensions WxDxH (mm)	2,880x2,380x3,100	2 880v2 380v3 100	3,030x2,400x3,100	3,380x2,400x3,100	1 600×3 030×3 600	15400v3300v3500
Net Weight	7,000Kgs	7,500Kgs	8,500Kgs	10,000Kgs	4,600x3,030x3,600 15,000Kgs	20,000Kgs
Total Power Consumption	25 KVA	25 KVA	30 KVA	30 KVA	45 KVA	45 KVA

TECHNICAL SPECIFICATIONS

STANDARD ACCESSORIES

High quality cast hardened & ground ways

Brushless A.C. Digital Main Motor

Rigid tapping

Telescopic protection guideways

Complete Coolant System with wash down gun

Airblast for Toolholder cleaning

Electronic Hand wheel

RS.232C Interface

High accuracy C3 Ball Screws

Pneumatic Tool Clamping System

Automatic lubrication system

Full enclosure & safety guarding

Test Sheet

Introduction Manuals

CNC Unit Manuals

Spares Parts List

OPTIONAL ACCESSORIES

Swarf conveyor

Spindle chiller

Through spindle coolant 20 bar

Renishaw auto measuring system OMP40

Renishaw tool measuring system TS-27R

Renishaw tool measuring system NC-4

Heidenhain 3 Axis Linear scales

Oil Skimmer

Missed collection system

Vacuum dust collector

Auto power off

Ethernet cards available

Cables pre wired for 4th axis

Various sizes and makes of 4th Axis

Tooling Package available.







AJMCV 1600 WB Casting



sales@ajax-mach.co.uk www.ajax-mach.co.uk



