

Heavy Duty Vertical Machining Centres

AJMCV1400/1600



Ajax Machine Tools

Machine Tool Exporters to the World

▶ ▶ ▶ ▶ ▶ Vertical Machining Centres

AJMCV1400/1600

This range of machines are heavy weights in their field, weighing in at 12 tonnes and having solid box ways in all axes, designed to take a big cut without vibration. Other machines are just not built this way.

Machining processes can be achieved at high speed with reliable repeatability and quality. All the range are built on cast columns & bases to eliminate vibration and enable a better cutting finish. Rigid tapping is standard, as is pneumatic counterbalance. On the random toolchanger, an air blast is used to clean the spindle prior to the next one entering, air blast is also used to clean the work piece while machining. Thus bringing together the perfect balance of quality reliability & price.



AJMCV1600



Solid box ways last longer and work harder on hard materials. Ergonomically designed to save space and power, these machines make an excellent tool in any machine shop.



MODEL	AJMCV1400	AJMCV1600
Travel		
X-Axis	1400 mm (55.1")	16000 mm (63")
Y-Axis	760 mm (29.9")	
Z-Axis	680 mm (26.8")	
Spindle nose to table	125 ~ 805 mm (4.9 ~ 31.7")	

Table		
Table size	1600 X 700 mm (63 X 27.5")	1800 X 700 mm (70.9 X 27.5")
Floor to table	960 mm (37.8")	
Max. table loading capacity	2,500 kgs (5,511Lbs)	3,000 kgs (6,614Lbs)
T-slot (number x width x pitch)	5 X 22 mm X 125 mm (5 X 0.86" X 4.9")	
Spindle center to column	760 mm (29.9")	

Feed system		
Rapid traverse speed	X/Y: 24 M/min(944.8"/min) , Z:20 M/min(787.4"/min)	
Feed motor (FANUC)	Alpha 22-3000i	
Ball screw diameter & pitch	X / Y / Z : 50mm / 10mm (2/0.4")	
Cutting feed rate	1~10,000 mm/min(0.04 ~ 393.7"/min)	
Type of transmission	Direct Drive	

Spindle				
Type of tool shank	BT 40 / CAT 40 DIN 69871A	BT 50 / CAT 50 DIN 69871A	BT 40 / CAT 40 DIN 69871A	BT 50 / CAT 50 DIN 69871A
Max. spindle speed	8,000 rpm / 10,000 rpm (Op)	6,000 rpm / 8,000 rpm (Op)	8,000 rpm / 10,000 rpm (Op)	6,000 rpm / 8,000 rpm (Op)
Spindle motor	Alpha 12-7000i 11/15 Kw	Alpha 12-7000i 15/18.5 Kw	Alpha 12-7000i 11/15 Kw	Alpha 12-7000i 11/15 Kw 15/18.5 Kw
Type of transmission	Belt			

ATC				
Tool storage capacity	24 / 32 or 40 T (Op)	24 / 30 or 40 T (Op)	24 / 32 or 40 T (Op)	24 / 30 or 40 T (Op)
ATC type	Arm type			
Max. tool diameter	90 / 76 mm (3.5 / 3")	110 / 127 mm (4.3 / 5")	90 / 76 mm (3.5 / 3")	110 / 127 mm (4.3 / 5")
Without adjacent tool	170 / 127 mm (6.7 / 5")	200 / 228 mm (7.9 / 9")	170 / 127 mm (6.7 / 5")	200 / 228 mm (7.9 / 9")
Max. tool length	300mm(11.8")			
Max. tool weight	7 kg(15 Lbs)	15 kgs(33Lbs)	7 kg(15 Lbs)	15 kgs(33Lbs)
Tool changing time (Tool to Tool)	1.8 / 1.5 / 1.5 sec	2.9 sec	1.8 / 1.5 / 1.5 sec	2.9 sec
Tool changing time (Chip to Chip)	5.5 sec	6 sec	5.5 sec	6 sec
Method of tool selection	Random selection bi-directional magazine rotation			
Tool display	Yes			
Special tool management	Yes			

Coolant system	
Coolant tank size	650 L
Coolant capacity	105 L / min
Chip Flush capacity	125 L / min

Machine size				
Machine height	2,940 mm(115.7")		2,940 mm(115.7")	
Floor space	3,600 X 2,750 mm(141.7X108.3")		4,000 X 2,750 mm(157.5X108.3")	
Weight	11980 kgs(5434Lbs)	12340 kgs(5597Lbs)	12040 kgs(5461Lbs)	12400 kgs(5625Lbs)

Power Source	
Electrical power supply	25 KVA / 3PH / 220V / 50 / 60HZ
Compressed air supply	6.0 kgf/cm ² (85PSI) (0.6MPa)

Controller	
FANUC / HEIDENHAIN / SIEMENS	

STANDARD ACCESSORIES

Armless type ATC (20Tools)(ISO40)
Arm type ATC (24 tools)(ISO50)
Fully enclosed splash guard
Chip flush system
Coolant system
Coolant tank & chip collector
Automatic lubrication system
Telescopic covers
Portable electronic handwheel (FANUC)
Working light
Alarm light
Tool box
Operator's manual and parts list
Leveling bolts, pads and nuts
CE

OPTIONAL ACCESSORIES

Arm type ATC (24 or 32 or 40 tools)(ISO40)
Arm type ATC (30 tools)(ISO50)
Bigger spindle motor 11/15kW, 15/18kW(ISO40)
Spindle chiller
Coolant through spindle system
Air blow system for dry cutting
Flat type chip conveyor
4th or 4+5th axis rotary table
High precision linear scale
Work piece measurement system
Tool length measurement system
Heat exchanger on electrical cabinet
Power transformer



AJMVC1600
Solid construction with box ways



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