

Compact Vertical Machining Centre

AJMCV300



Ajax Machine Tools

Machine Tool Exporters to the World

▶ ▶ ▶ ▶ ▶ Vertical Machining Centres

AJMCV300

The model AJMCV300 is from a range of machining centres that are built to a high quality standard without a high price. Only the best products are used, high quality is a must.

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.



AJMCV300 (FANUC OI MD)

With solid box way construction these machines have proved to be solid hard working partners in industry fitting into a 6ft square.



MODEL**AJMCV300****Travel**

X-Axis	610 mm(24")
Y-Axis	305 mm(12")
Z-Axis	460 mm(18.1")
Spindle nose to table	70 - 530 mm(2.8-20.9")

Table

Table size	700 mm X 308 mm(27.6-12.1")
Floor to table	835 mm(32.9")
Max. table loading capacity	350 kgs(770Lbs)
T-slot (no x Width x Pitch)	4 X 16 X 63.5 mm (4 X 0.6 X 2.5 inch)
Spindle center to column	415 mm(16.3")

Feed system

Rapid traverse speed	X/Y: 20 M/min (787.4"/min) , Z:18 M/min (708.7"/min)
Feed motor(FANUC)	X/Y: 1.2kW (8Nm) , Z: 1.8kW (12Nm)
Ball screw diameter & pitch	32 mm / 10mm (1.3" / 0.4")
Cutting feedrate	1-10,000 mm/min (0.04 - 393.7")
Type of transmission	X/Y/Z: Direct mounting

Spindle

Type of tool shank	BT 40 / CAT 40 / DIN 69871A
Max. spindle speed	8,000 rpm / 10,000 rpm (Op)
Spindle motor	5.5 / 7.5 kW or 7.5 / 11 kW (Op)
Type of transmission	Belt

ATC

Tool storage capacity	10 tools	16 tools (Op)	24 tools (Op)
ATC type	Arm less type	Arm Type (High Speed)	
Max. tool diameter	110 mm (4.3")	76 mm (3")	
Without adjacent tool	200 mm (7.9")	120 mm (4.7")	
Max. tool length	230 mm (9.1")	230 mm (9.1")	
Max. tool weight	8 kg (17Lbs)	7 Kg (15Lbs)	
Tool changing time (Tool to Tool)	7.5 sec	3.2 sec	
Tool changing time (Chip to Chip)	9.1 sec	5.5 sec	
Method of tool selection	By address code	random selection	
	bi-directional magazine rotation		
Tool display	Yes		
Special tool management	None	Yes	

Coolant system

Coolant tank size	160 L
Coolant capacity	105 L / min
Chip Flush capacity	Standard

Machine size

Machine height	2,400 mm
Floor space	1,850 mm (72.8")(W) X 1,825 mm (71.9")(D)
weight	2,500 kgs (5500Lbs)

Power source

Electrical power supply	15 KVA/3PH , 220V 50/60HZ
Compressed air supply	6.0 kgf/cm ² (85psi) (0.6MPa)

Controller

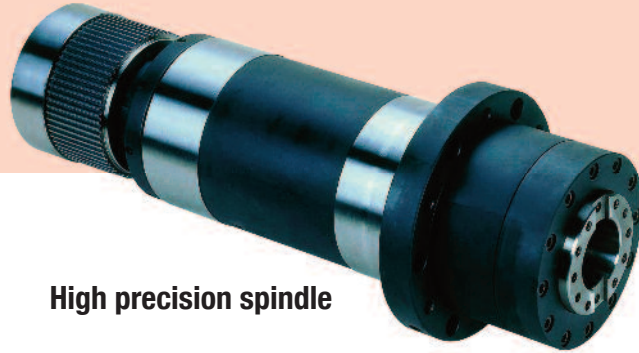
FANUC / HEIDENHAIN / SIEMENS

STANDARD ACCESSORIES

Armless type ATC (10Tools)
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

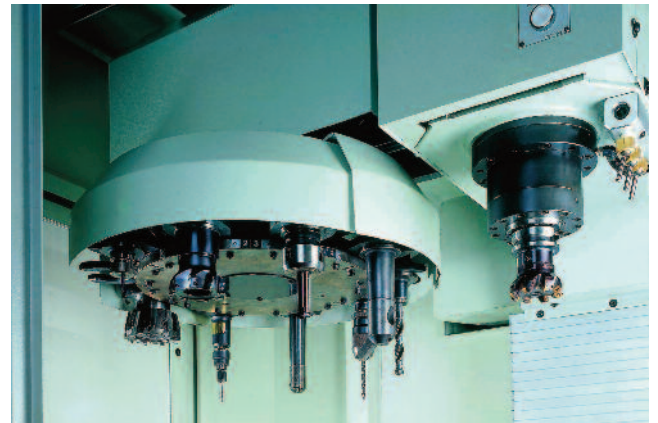
Armless type ATC (16Tools) or Arm type ATC (24 tools)
High-speed Spindle 10,000 rpm
Bigger spindle motor (7.5/11 kW)
Spindle chiller
Spiral or flat type chip conveyer
4th or 4+5th axis rotary table
Work piece measurement system
Tool length measurement system
Heat exchanger on electrical cabinet
Power transformer



High precision spindle



Solid box way construction



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