



# COMPACT VERTICAL MACHINING CENTRE

**AJMCV 300**



Machine Tool Exporters to the World since 1940

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The model AJMCV 300 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.

**AJMCV 300 (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		AJMCV 300
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 (rpm)	8,000 / 10,000 (opt)	
Spindle Motor (kW)	5.5 / 7.5 or 7.5 / 11 (opt)	
Type of Transmission	Belt	
Automatic Tool Changer		
Tool Storage Capacity	16	24 (opt)
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 Change Time (Tool to Tool)	7.5 sec	3.2 sec
Tool Change 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/cm² (85psi) (0.6MPa)	
Controller		
FANUC / HEIDENHAIN / SIEMENS		

# TECHNICAL SPECIFICATIONS



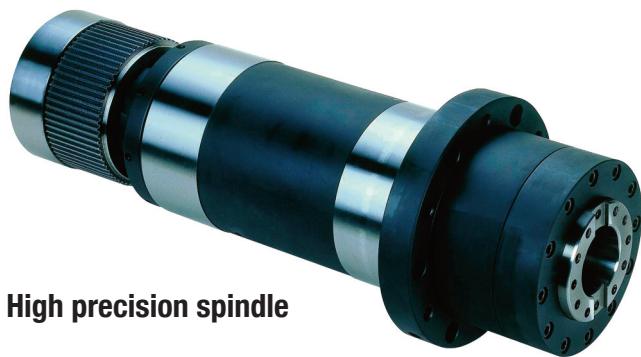
### STANDARD ACCESSORIES

Armless type ATC (10 tools)  
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

### OPTIONAL ACCESSORIES

Armless type ATC (16 tools) 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 conveyor  
4th or 4+5th axis rotary table  
Work piece measurement system  
Tool length measurement system  
Heat exchanger on electrical cabinet

**Solid box way  
construction**



**High precision spindle**



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