

Heavy Duty Machining Centres

AJMCV 850 / 1100



Ajax Machine Tools

Machine Tool Exporters to the World

▶ ▶ ▶ ▶ ▶ Vertical Machining Centres AJMCV 850/1100

This range of machines are heavy weights in their field, weighing in at over 7 tonnes and having solid box ways in all axes with two 250mm wide solid slides on the Y axis, 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.



AJMCV 1100



MODEL**AJMCV 850****AJMCV 1100****Travel**

X-Axis	850 mm (33.5")	1,100 mm (43.3")
Y-Axis	600 mm (23.6")	
Z-Axis	560 mm (22.0")	
Spindle Nose to Table	100 ~ 660 mm (3.9 ~ 25.9")	

Table

Table Size	1,050 X 600 mm (41.3 X 23.6 ")	1300 X 600 mm (51.1X23.6")
Floor to Table	855 mm(33.6")	
Max. Table Loading Capacity	1,000 kgs(2,200Lbs)	
T-Slots (number x width x pitch)	6 X 18 mm X 100 mm (6 X 0.7" X 3.9")	
Spindle Center to Column	652 mm (25.6")	

Feed system

Rapid Traverse Speed	X/Y: 20 M/min(787.4"/min) , Z:15 M/min(590.6/min)
Feed Motor (FANUC)	X: 1.8kW (12 Nm) , Y: 3.0kW (22 Nm) , Z:4.2kW (30 Nm)
Ball Screw Diameter & Pitch	X : 40mm, Y/Z :45mm / 10mm(0.39")
Cutting Feed Rate	1~10,000 mm/min(0.04 ~ 393.7"/min)
Type of Transmission	Direct Drive

Spindle

Type of Tool Shank	ISO40	ISO50	ISO40	ISO50
	(BT / CAT / DIN 69871A)	(BT / CAT / DIN 69871A)	(BT / CAT / DIN 69871A)	(BT / CAT / DIN 69871A)
Max. Spindle Speed (rpm)	8,000 / 10,000 (opt)	6,000 / 8,000 (opt)	8,000 / 10,000 (opt)	6,000 / 8,000 (opt)
Spindle Motor (kW)	7.5-11 / 11-15 (opt)	15-18.5 / 22-26 (opt)	7.5-11 / 11-15 (opt)	15-18.5 / 22-26 (opt)
Type of Transmission	Belt			

Automatic Tool Changer

Tool Storage Capacity	20T / 24 or 32 or 40T (opt)	24T / 30T (opt)	20T / 24 or 32 or 40T (opt)	24T / 30T (opt)
ATC Type	Armless/ Arm type (opt)	Arm type	Armless/ Arm type (opt)	Arm type
Max. Tool Diameter	100 / 95 / 76 / 76 mm (3.9 / 3.7 / 3 / 3")	110 / 127 mm (4.3 / 5")	100 / 95 / 76 / 76 mm (3.9 / 3.7 / 3 / 3")	110 / 127 mm (4.3 / 5")
Without Adjacent Tool	180 / 185 / 127 / 127 mm (7.1 / 7.3 / 5 / 5")	200 / 228 mm (7.9 / 9")	180 / 185 / 127 / 127 mm (7.1 / 7.3 / 5 / 5")	200 / 228 mm (7.9 / 9")
Max. Tool Length	300mm(11.8")	350 mm(13.8")	300mm(11.8")	350 mm(13.8")
Max. Tool Weight	7 kg(15 Lbs)	15 kgs(33Lbs)	7 kg(15 Lbs)	15 kgs(33Lbs)
Tool Change Time (Tool to Tool)	1.7 / 1.5 / 1.5 / 1.5 sec	2.5 sec	1.7 / 1.5 / 1.5 / 1.5 sec	2.5 sec
Tool Change Time (Chip to Chip)	11 / 5.5 sec	7 sec	11 / 5.5 sec	7 sec
Method of Tool Selection	20T by address code / Random selection bi-directional magazine rotation			
Tool Display	Yes			
Special Tool Management	Yes			

Coolant System

Coolant Tank Size	486 L
Coolant Capacity	105 L / min
Chip Flush Capacity	105 L / min

Machine Size

Machine Height	2,600 mm(102.3")	2,900 mm(114.7")	2,600 mm(102.3")	2,900 mm(114.7")
Floor Space	2,540 X 2,190 mm(100X86.2")		2,920 X2,190 mm(115X86.2")	
Weight	7,200 kgs(15840Lbs)	7,500 kgs(16500Lbs)	7,400 kgs(16280Lbs)	7,700 kgs(16940Lbs)
Power Source				
Electrical Power Supply	25 KVA / 3PH,220V 50/60HZ			
Compressed Air Supply	6.0 kgf/cm ² (85PSI) (0.6MPa)			

Controller

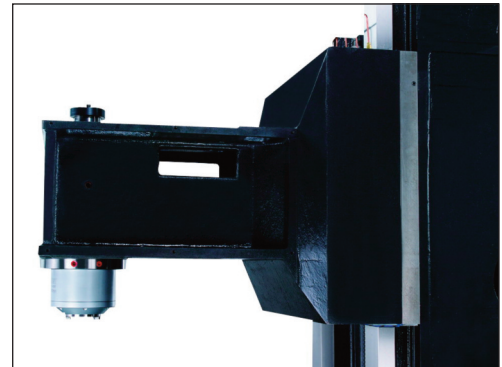
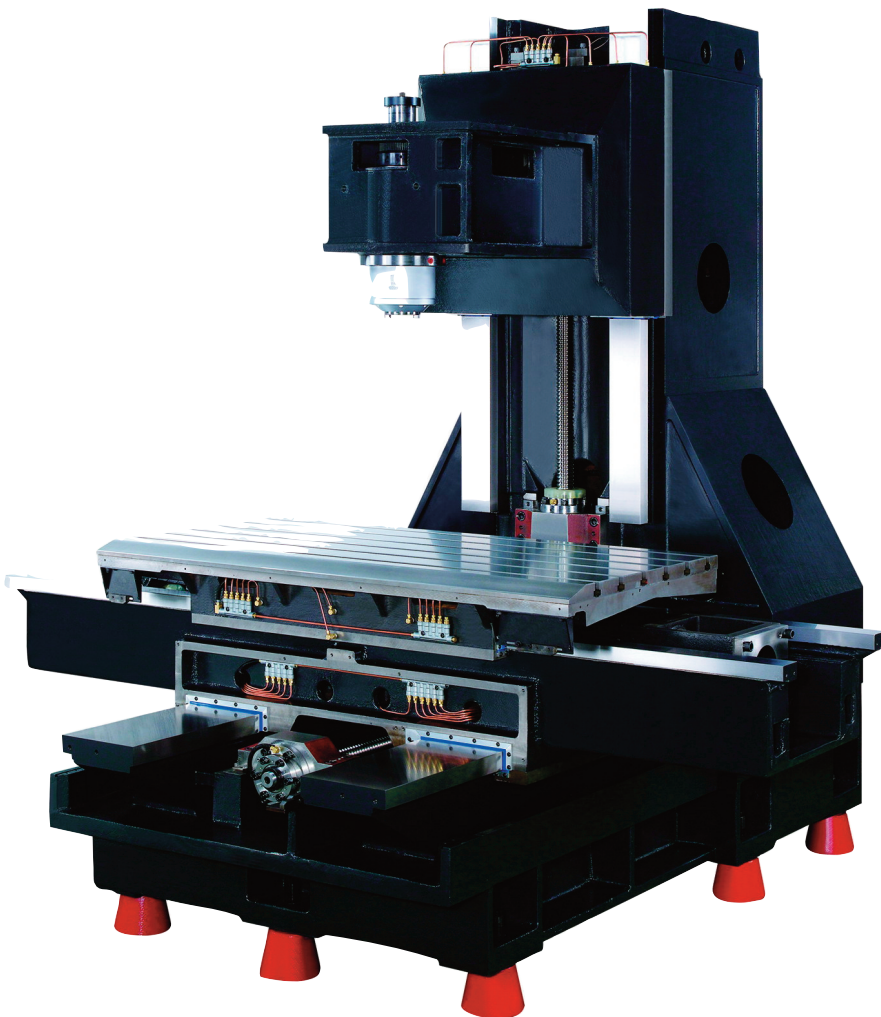
FANUC / HEIDENHAIN / SIEMENS

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 slideway 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
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 scales
Work piece measurement system
Tool length measurement system
Heat exchanger on electrical cabinet



Solid box way construction

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