

Bridge Type Vertical Machining Centres

AJV2000



Ajax Machine Tools

Machine Tool Exporters to the World

▶ ▶ ▶ ▶ ▶ Bridge Type Vertical Machining Centres - AJV2000

The new AJV2000 replaces the AJMVCV with a new high linear rail construction to still cut hard materials without vibration, but give better positional accuracy and better respectability for high precision work

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.



AJV2000



The AJV2000 has a bridge type construction with the table travelling underneath and the Y axis across it giving stable high accuracy machining. Weighing in at 19 tonnes it is built to do a job not to a price.



MODEL**AJV2000****Travel**

X-Axis	2,050 mm(80.7 ")
Y-Axis	1150 mm(45.3 ")
Z-Axis	760 mm(29.9 ")
Spindle nose to table	200 ~ 900 mm(7.87 ~ 35.43 ")

Table

Table size	2,200 X 1,000 mm (86.6 X39.4 ")
Floor to table	810 mm (31.9 ")
Max. table loading capacity	3,000 kgs (6600 Lbs)
T-slot (no x Width x Pitch)	6 X 22 mm X 160 mm (6X0.9 X6.3 ")
Spindle center to column	1200 mm (47.2 ")

Feed system

Rapid traverse speed	X / Y: 20 M/min(787.4"/min) , Z: 15 M/min(590.6"/min)
Feed motor (FANUC)	X / Z: 30 Nm (4.5KW) , Y: 22 Nm (3.8KW)
Ball screw diameter & pitch	X: 63 mm(2.5 ") Y:40 mm(1.6 ") Z:50 mm /10mm(2.0/0.4")
Cutting feedrate	1-10,000 mm/min(0.04-393.7"/min)
Type of transmission	X/Y: Direct mounting , Z: Belt

Spindle

Type of tool shank	BT 40 / CAT 40 / DIN 69871A	BT 50 / CAT 50 / DIN 69871A
Max. spindle speed	10,000 / 12,000 or 15,000 or 20,000 rpm (Op)	4,000 rpm 10,000rpm (Op)
Spindle motor	15 / 18.5 kW	22 / 26 kW 15/18.5kW (Op)
Type of transmission	Direct Drive	Gear Box Direct Drive

ATC

Tool storage capacity	30 Tools / 40 Tools (Op)	30 Tools / 40 Tools (Op)
ATC type		Arm type
Max. tool diameter	76 mm (3")	127 mm (4.9")
Without adjacent tool	150 mm (5.9 ")	229 mm (9 ")
Max. tool length	350 mm (13.8")	400 mm (15.7")
Max. tool weight	7 kgs (15 Lbs)	15 kgs (33 Lbs)
Tool changing time (Tool to Tool)	2.5 sec	3.5 sec
Tool changing time (Chip to Chip)	5.5 sec	5.5 sec
Method of tool selection	Random selection / bi-directional magazine rotation	
Tool display	Yes	
Special tool management	Yes	

Coolant system

Coolant tank size	970 L
Coolant capacity	105 L / min
Chip Flush capacity	screw type & flat type

Machine size

Machine height	3,800 mm(149.6 ")
Floor space	7,000 mm(275.6 ") (W) X 4,000 mm (157.5 ") (D)
Weight	19,000 kgs(41800 Lbs)

Power source

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

Controller

FANUC / HEIDENHAIN / SIEMENS

STANDARD ACCESSORIES

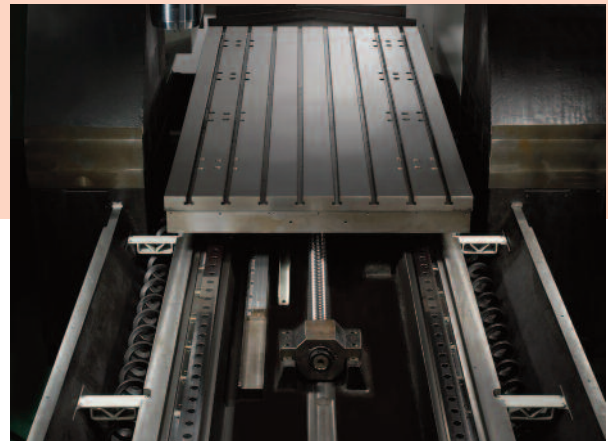
BT40 30 tools Arm type ATC
BT50 30 tools Arm type ATC
Fully enclosed splash guard
Spindle chiller
Coolant system
Coolant tank & chip collector
Automatic lubrication system
Telescopic covers
Spiral and flat type chip conveyor
High precision linear scale
Portable electronic handwheel (FANUC)
Working light
Alarm light
Tool box
Operator's manual and parts list
Leveling bolts, pads and nuts
CE

OPTIONAL ACCESSORIES

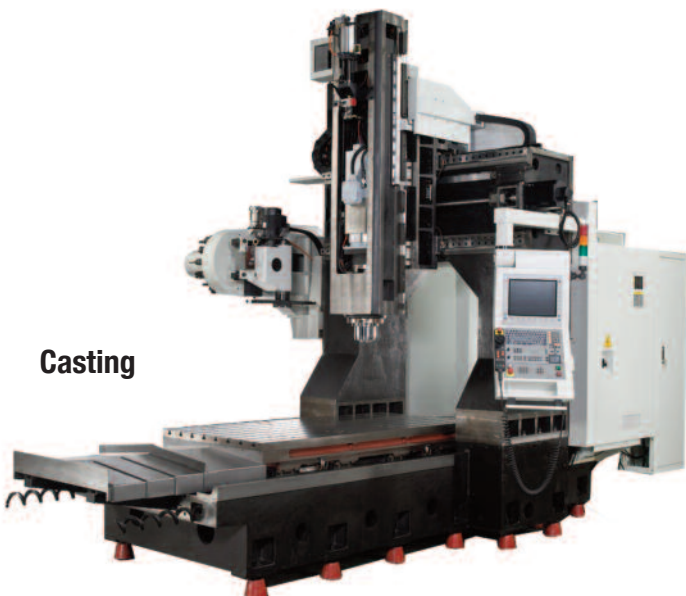
Arm type ATC 40 tools
#40 High-speed Spindle 12,000 / 15,000 / 20,000 rpm
#50 Spindle 10,000rpm (Direct Drive)
Coolant through spindle system
Air blow system for dry cutting
4th or 4+5th axis rotary table
Work piece measurement system
Tool length measurement system
Heat exchanger on electrical cabinet
Vacuum dust collector
Power transformer



CNC control and door entry



High power linear rails with guards removed to show construction



Casting



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