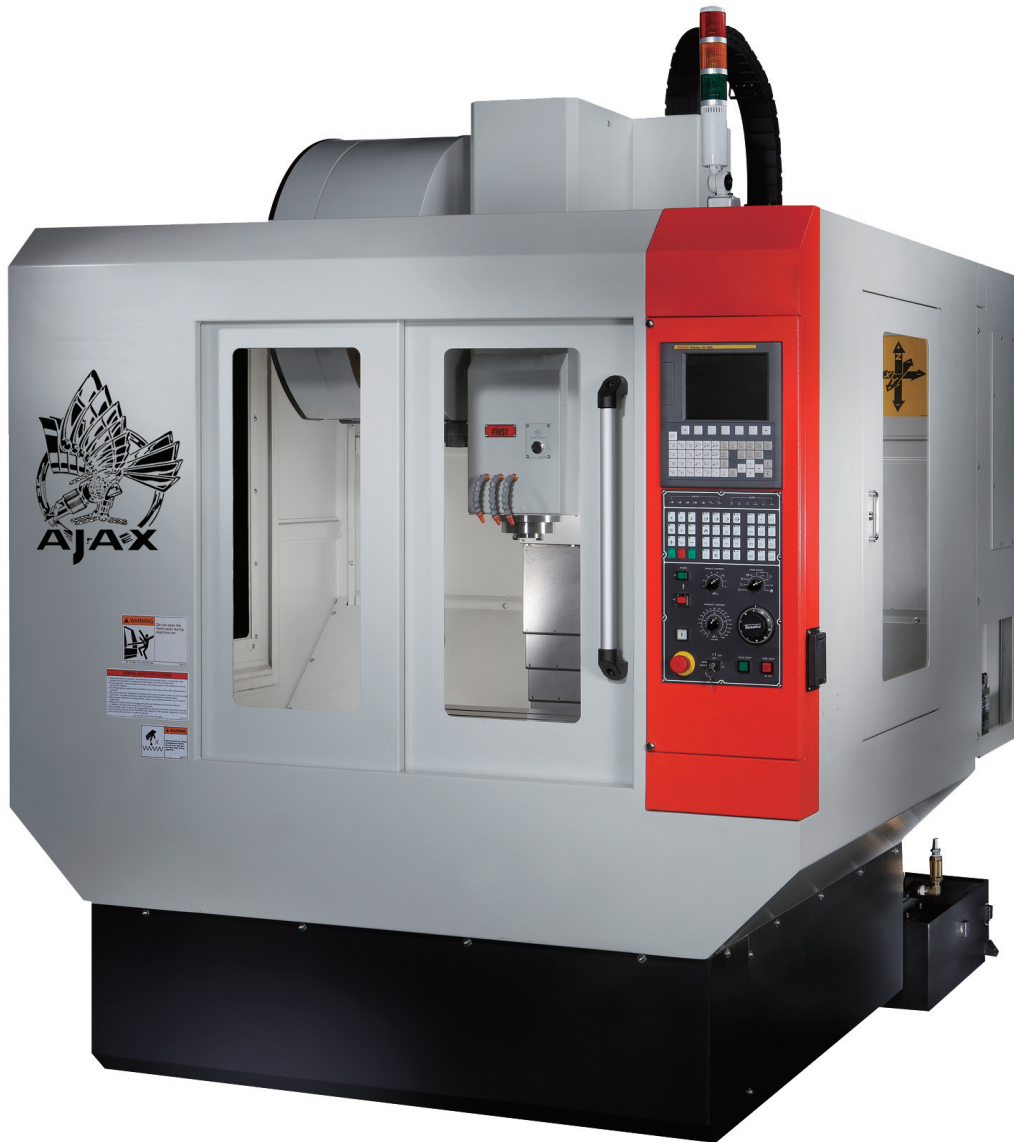




HIGH SPEED MACHINING CENTRES

AJV 700 LIGHTNING



Machine Tool Exporters to the World since 1940

HIGH SPEED MACHINING CENTRES

AJV 700

The New AJV 700 is an excellent mid-range machine giving a good capacity in a small footprint. The heavy duty construction combined with linear roller guide ways gives good high power machining with high speed milling and tool changing. With 48 Meters a minute rapids this machine moves around at very high speed looking impressive and doing any job quickly. The AJV 700 will compete with the best on the market today, available with Heidenhain, Fanuc or Siemens controls the AJV 700 offers an excellent choice in today's competitive market. The main construction features include, direct drive to the spindle and axis, 24 ATC with 2 Second change time and tool management system, heavy weight construction with a weight of 3,700 Kgs and a 2 year warranty.



AJV 700 5X (5 Axis)

MODEL	AJV 700 HEIDENHAIN TNC	AJV 700 FANUC Oi MD
Travel		
X-Axis	700mm (27.5")	
Y-Axis	400mm (15.7")	
Z-Axis	650mm (25.5")	
C-Axis	360 Deg	
5 Azis Table B or A Axis	200mm table -20 +110 Deg	150mm Table -110 +110 Deg
Spindle Nose to Table	150 ~ 800mm (5.9 ~ 31.4")	
Table		
Table Size	800mm x 400mm (31.5 ~15.7")	
Floor to Table	858mm (33.77")	
Max. Main Table Loading Capacity	250kg (551lbs)	
T-Slot (number x width x pitch)	3x18mmx100mm (3x0.7"x3.93")	
Spindle Center to Column	500mm (19.68")	
Feed System		
Rapid Traverse Speed	X / Y / Z : 48 / 48 / 48 M/min	X / Y / Z : 48 / 48 / 35 M/min
Feed Motor	X / Y : 1.85 Kw, Z : 2.7 Kw	X / Y : 1.8 Kw, Z : 3.0 Kw
Ball Screw Diameter & Pitch	X : 32mm / 16mm (1.26/0.63") Y : 32mm / 16mm (1.26/0.63") Z : 32mm / 16mm (1.26/0.63")	
Cutting Feed Rate	1~10,000mm/min	
Type of Transmission	X / Y / Z : Direct Drive C / B / A : Belt	
Spindle		
Type of Tool Shank	BT 40 / CAT 40 / DIN 69871A	
Max. Spindle Speed	10,000rpm / 12,000 or 15,000 rpm (Option)	
Spindle Motor	17/10 Kw	7.5/5.5Kw
Type of Transmission	Direct Drive	
Automatic Tool Changer		
Tool Storage Capacity	24	
ATC Type	High speed arm type	
Max. Tool Diameter	80mm (3.14")	
Without Adjacent Tool	150mm (5.9")	
Max. Tool Length	250 (9.84")	
Max. Tool Weight	7kg (14.14lbs)	
Tool Change Time (Tool to Tool)	1.6 sec	2.0 sec
Tool Change Time (Chip to Chip)	3.6 sec	4.1 sec
Method of Tool Selection	Random selection - bi-directional magazine rotation	
Tool Display	Yes	
Special Tool Management	Yes	
Coolant System		
Coolant Tank Size	200 L	
Coolant Flow Capacity	150 L/min	
Chip Flush Capacity	150 L/min	
Machine Size		
Machine Height	2,770mm	
Floor Space	1900 x 2284mm (74.8" x 89.92")	
Weight	3,950kg (8,133lbs)	
Power Source		
Electrical Power Supply	20 KVA / 3PH, 415V 50/60HZ	
Compressed Air Supply	6.0 kgf/cm ² (85psi)(0.6MPa)	
Controller	HEIDENHAIN TNC 620 or 640	FANUC Oi TD

TECHNICAL SPECIFICATIONS

STANDARD ACCESSORIES

- Alarm light
- Working light
- High speed arm type ATC 24 Tools
- Automatic lubrication system
- Spindle chiller
- Spiral type chip conveyor
- Spindle air blow (blows chips away)
- Oil skimmer
- RS 232, RJ45 & USB

OPTIONAL ACCESSORIES

- 4th axis rotary table
- 5 axis table
- Auto door
- Mist collection system
- Flat type chip conveyor
- Tooling probes
- Work measurement probes
- 650mm Z axis
- Portable handwheel
- High precision glass scales



Heidenhain control system

Automatic Toolchanger



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