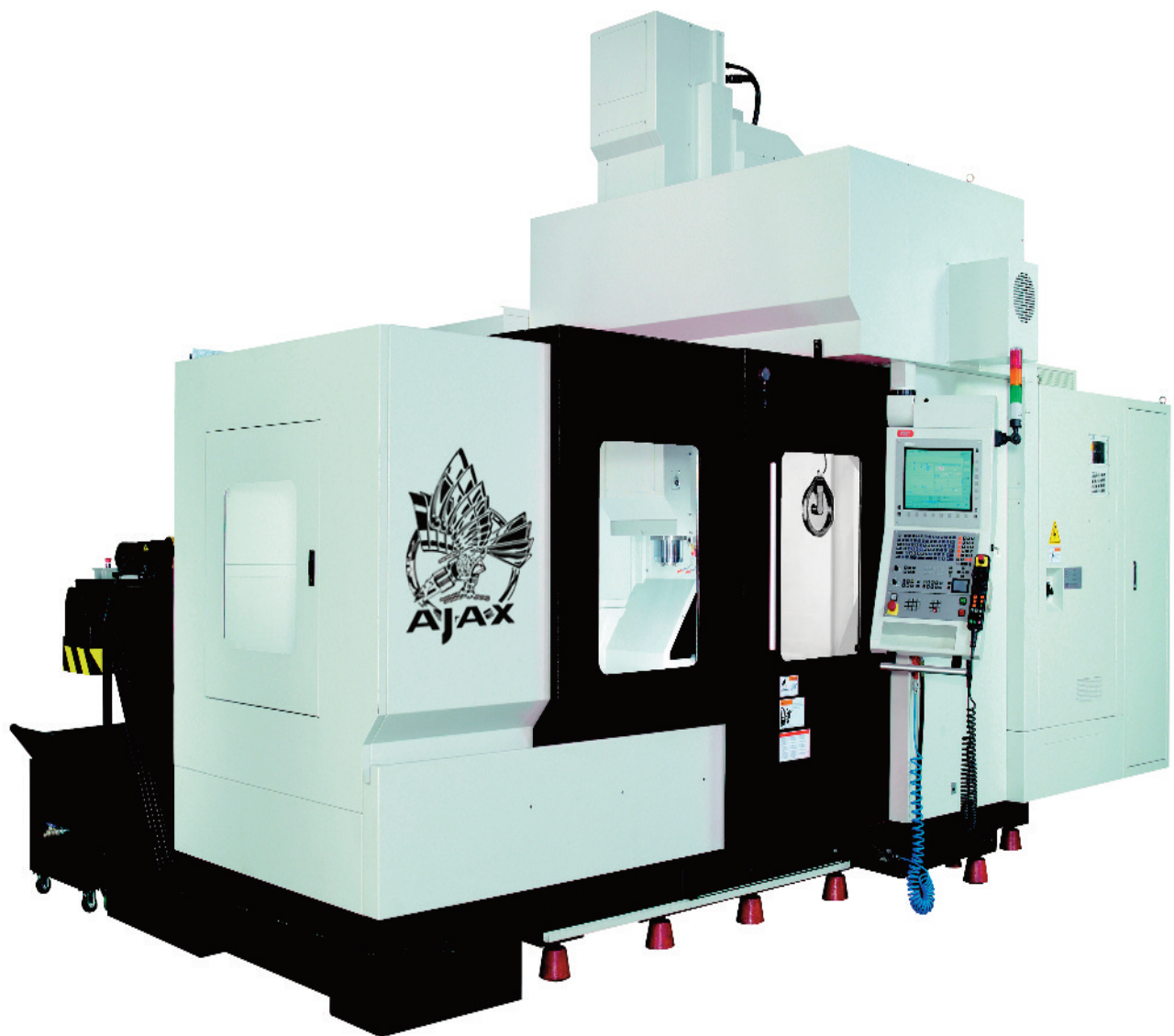




BRIDGE TYPE MACHINING CENTRES

AJV 2000



Machine Tool Exporters to the World since 1940

BRIDGE TYPE MACHINING CENTRES

AJV 2000

The latest AJV 2000 replaces the AJMCV having new linear rail construction able to cut hard materials without vibration and produce better positional accuracy and improved repeatability for high precision work.

Machining processes can be achieved at high speed with high quality and repeatability. All the range is built on cast columns and bases to eliminate vibration and enable a finer surface finish. Rigid tapping is standard, as is pneumatic counter-balance. On the random toolchanger, an air blast is used to clean the spindle prior to the next tool holder entering, air blast is also used to clean the workpiece while machining. Thus bringing together the perfect balance of quality reliability & price.

The AJV 2000 has a bridge-type construction with the table travelling and the Y-axis across giving stable high accuracy machining. Weighing in at 19 tonnes it is built to do a job not to a price.



AJV 2000

| | | | |
|---------------------------------|---|------------------------------|-------------------------------|
| MODEL | | AJV 2000 | |
| 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 (rpm) | 10,000 / 12,000 or 15,000 or 20,000 (opt) | | 4,000 10,000 (opt) |
| Spindle Motor | 15-18.5 kW | | 22-26 kW 15-18.5kW (opt) |
| Type of Transmission | Direct Drive | | Gear Box Direct Drive |
| Automatic Tool Changer | | | |
| Tool Storage Capacity | 30 / 40 (opt) | | 30 / 40 (opt) |
| 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 Change Time (Tool to Tool) | 2.5 sec | | 3.5 sec |
| Tool Change 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/cm² (85psi) (0.6MPa) | | |
| Controller | | FANUC / HEIDENHAIN / SIEMENS | |

TECHNICAL SPECIFICATIONS

STANDARD ACCESSORIES

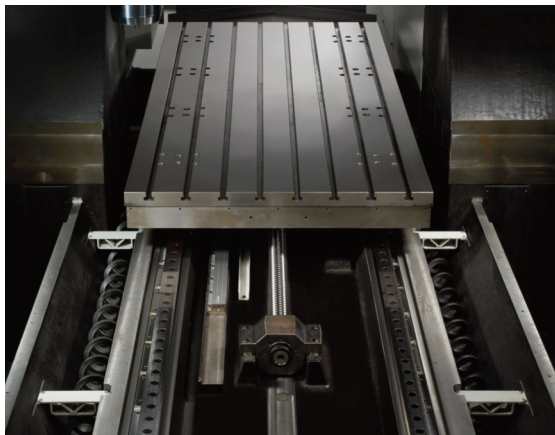
BT40 30 tools Arm type ATC
BT50 30 tools Arm type ATC
Fully enclosed splash guard
Spindle chiller
Coolant system
Coolant tank & chip collector
Automatic lubrication system
Telescopic slideway covers
Spiral and flat type chip conveyor
High precision linear scales
Portable electronic handwheel (FANUC)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



Casting

OPTIONAL ACCESSORIES

Arm type ATC 40 tools
#40 High-speed Spindle 12,000 / 15,000 / 20,000 rpm
#50 Spindle 10,000 rpm (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



High power linear rails with guards removed to show construction

CNC control and door entry



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