

ACRA VERTICAL MACHINING CENTER AVMC SERIES



(4) "Y" axis box ways AVMC1000 only

DESCRIPTION:

- FANUC Oi MC, Color LCD
- Ergonomic, user-friendly control.
- Major cast parts are box-type in structure for outstanding rigidity and stability.
- Uniform lubrication points on the slide ways. A volumetric oil distributor is employed for uniform lubrication on all slide ways.
- The standard heat exchanger features excellent heat dissipation that reduces the possibility of trouble and extends the service life of the electronics.
- The counter-balance weight for the head is guided to minimize vibration while upgrading machining performance.
- The extra-wide and extremely stable base has box ways providing solid support for the entire machine.
- High precision Ball screws on three axes are pre-loaded ensuring high repeatability accuracy. High precision Ball screws are modularly assembled. Ball screws parallelism and square-ness accuracy are calibrated to within ± 0.00039 inch in full length.



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■ **Dynamic Vibration Inspection**



■ **Laser Inspection for Linear Positioning Accuracy**



■ **Ball Bar Circle Testing**



■ **High Precision, High Rigidity Spindle**



■ **16 / 20-Tool Armless-Type With Simple Construction and Movement, Trouble-Free.**

ACRA VERTICAL MACHINING CENTER AVMC SERIES

SPECIFICATIONS		AVMC-660	AVMC-820	AVMC-1000
TABLE	Work Area	31.50" x 16.54"	37.4" x 17.72"	47.24" x 21.65"
	T-Slot	CD100 x 18mm x 4T	CD100 x 18mm x 4T	CD100 x 0.71" x 5T
	Max. Loading	1,100 lbs	1,322 lbs	2,205 lbs
TRAVEL	Three Axes Travel	26" x 18.9" x 17.7"	32.28" x 20.47" x 20.08"	40" x 24" x 24"
	Spindle Nose to Worktable Surface	5.90" ~ 23.62"	5.51" ~ 25.59"	4.72" ~ 28.74"
	Spindle Center to Column Slideways	18.90"	20.47"	24.41"
SPINDLE	Spindle Taper	CAT40	CAT40	CT40
	Spindle Type	Cartridge	Cartridge	Cartridge
	Spindle Speed	8,000 RPM	8,000 RPM	8,000 RPM
FEED RATE	3 Axes Slide Ways	Box ways	Box ways	Box ways (4) on Y axis
	3 Axes Cutting Feedrate	394" / min	315" / min	236" / min
	3 Axes Rapid Feedrate	984" / min	787" / min	787" / min
ATC	Tool Selection	Bi-direction shortest path	Bi-direction shortest path	Bi-direction shortest path
	Max.. Tool Diameter x Length	Ø3.94" x 11.81"	Ø3.94" x 11.81"	Ø3.94" x 11.81"
	Max. Tool Weight	15.42 lb	15.42 lb	13.23 lb
	Tool Shank	CAT40	CAT40	CAT40
	ATC Capacity	20 Tools Armless Type ATC	20 Tools Armless Type ATC	20 Tools Armless Type ATC
MOTOR	Spindle Motor (Cont/30min)	7.5 HP / 10 HP	10 HP / 15 HP	15 HP / 20 HP
	X,Y,Z Servo Motor	2 HP	2 HP	2 HP
	X,Y,Z Ballscrew	Ø36 x Pitch 10	Ø36 x Pitch 10	Ø36 x Pitch 10
	Coolant Pump	660 W	660 W	660 W
MISCELLANEOUS	External Dimensions (LxWxH)	82.68" x 82.85" x 101.57"	94.88" x 82.87" x 101.57"	111.81" x 82.68" x 106.3"
	Net Weight	7,700 lbs	9,915 lbs	13,346 lbs
	Shipping Weight	8,300 lbs	10,400 lbs	14,300 lbs
	Splash Guard	Full Splash Guard	Full Splash Guard	Full Splash Guard
	Tank Capacity	36.84 Gal	36.84 Gal	39.64 Gal

NOTE: The manufacturer reserves the right to modify the design, specifications, & mechanisms to improve the performances of the machines without notice. All specifications above are for your reference only.