

MV4800







The MV Series utilizes a totaly new non-contact, friction free, round linear shaft motor system to drive the X & Y machine axes through an all optical fiber servo system.

- New Machine Size Is Specifically Designed For Larger Part Production The MV-4800 provides a larger worktank, increased travels by 2 inches in X, 4 inches in Y over the FA30 size machine. This added size along with all the new cost saving designs, make this the best dollar/sq. ft. EDM investment on the market.
- Linear Shaft Motor Drive with 10-Year Positioning Guarantee and Glass Scale Feedback ensure friction free, highly accurate machine movement throughout the entire X Y Axes machining range.
- Highly Rigid Machine Structure incorporates a fixed table meehanite base casting with the X, Y, Z
 axes traveling column mounted, a stainless steel work tank, seal plate and hardened stainless steel
 machine table to provide high accuracy machining.
- V350-V Full Time AE II (Anti-Electrolysis) Power Supply suppresses electrolytic corrosion to prevent surface oxidation, edge softening and cobalt depletion in carbide.
- DMX-S (Digital Matrix Sensor) combined with the V350-V generator specifically shapesthe spark
 pulse to reduce electrode wear. This allows for a lower wire speed which reduces wire cost by as
 much as 60%.
- New Intelligent Auto-Threading System has been redesigned to anneal up to 27" of wire reducing
 the curl ratio to less than 10% improving tall part threading as well as submerged threading and
 re-threading through the gap after a wire break.
- Powerful Support Functions Improve Productivity The M700 Advance Series control uses
 Windows 7 Embedded operating system with many levels of automated machine functions to
 allow even an inexperienced operator to cut parts with confidence.



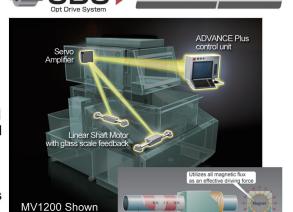
MV4800-S M800 Standard Productivity Improvements



Advanced wire annealing at over 27" in length reduces wire curl to less than 10% improving tall part threading and reinsert through the gap while submerged.



The new Advance control combined with the Optical Drive System provides 4 times the communication speed between the servo system and the X,Y- axes Linear Shaft Motor drives.



NEW: 32" Tall Workpiece Option uses a 12" removable insert.



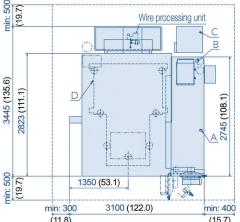


The V350-V power supply and DMX-S, Super Digital Control sensor, specifically shape each spark to improve surface finish, reduce vibration and minimize electrode wear. This reduction in wear allows up to a 60% reduction in wire consumption.

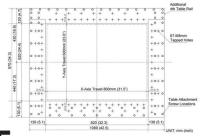
The MV4800-S provides a large 3-sided hardened work table with an additional 4th-rail across the back for easier large workpiece mounting. This is a non-isolated table so the best FM Fine Finish is an 8µ" Ra.



〈Lay	out drawing>	Units: mm (inch)
2815 (110.8)	800 st (31.5) st	
	140 (5.5) 40 (5.5) 40 (5.5) 40 (5.5) 450 (5.9) 450 (5.9) 470 (122.0)	
200	3100 (122	11.07



Machine Unit	Machine Specifications		MV4800-S M800
	Max Workpiece Dimensions (WxDxH)	in	49.2 x 40.2 x 20.0
	Max Workpiece Weight	lb.	6600
	Table Dimensions	in	42.5 x 30.7 (38.4 using back rail)
	Machining Range (XxYxZ)	in	31.5 x 23.6 x 20.1
	Wire Dia. by AT Device	in	.006 ~ .012
	Wire Tension	g	200 ~ 2550
	Automatic Wire Threader		Standard
	Min. Start Hole Dia.	in	0.02
	Taper Machining Unit		Standard
	Taper Unit Travel (U x V)	in	±4.0 x ±4.0
	Max. Taper Angle	deg	15 deg @ 14.0" Thickness
	Overall Machine Dimensions (WxDxH)	in	122.0 x 135.6 x 110.8
	Machine Weight	lb.	13,007
Fluid System	Tank Capacity	gal.	391
	Filtered Particle Size	μm	3
	Filter Elements		4 / Paper
	Ion Exchange Resin	cu./ft.	1
	Overall Dimensions	in	30.7 x 108.1 x 67.0
	Dry Weight	lb.	992





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