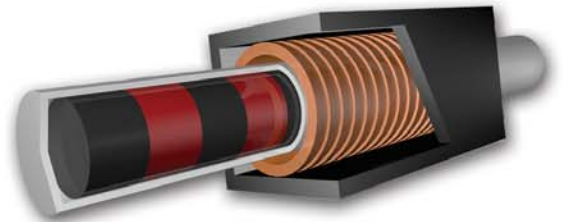


MV1200-R

**New Larger Travels
15.7 x 11.8 x 8.7**

ADVANCE PLUS



All New Cylindrical Drive Technology

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

Features:

- **New Machine Size Is Specifically Designed For Larger Part Production** The MV-1200-R provides a larger worktank, increased travels by 3 inches in X, 2 inches in Y over the FA10S Advance it replaces. This added size along with all the new cost saving designs, make this the best dollar/sq. ft. EDM investment on the market.
- **New Linear Shaft Motor Drive and Glass Scale Feedback** insure friction free, highly accurate column movement throughout the entire X Y U V Axes machining range.
- **Highly Rigid Machine Structure** incorporates a "T" shape meanite base casting with the X & Y axes independently 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 shapes the 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 14" 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 Plus series control uses Windows XP operating system with many levels of automated machine functions to allow even an inexperienced operator to cut parts with confidence.

MV-R Series Revolutionary Productivity Improvements

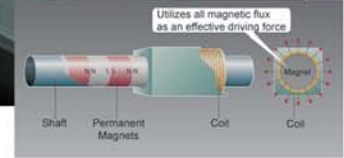
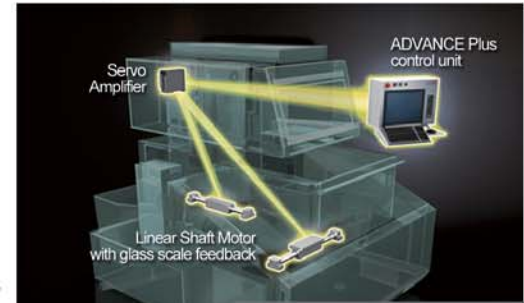


Intelligent AT

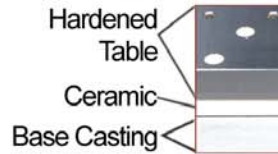
Advanced wire annealing at over 14" in length reduces wire curl to less than 10% improving tall part threading and reinsert through the gap while submerged.



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

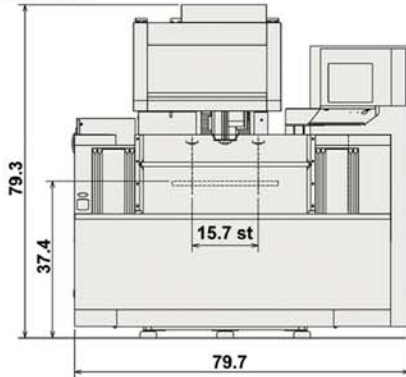


The V350-V power supply and DMX-S, Super Digital Control sensor, specifically shape each spark to improve surface finish, reduce vibration and minimize electrode wear. This reduction in wear allows up to a 60% reduction in wire consumption.

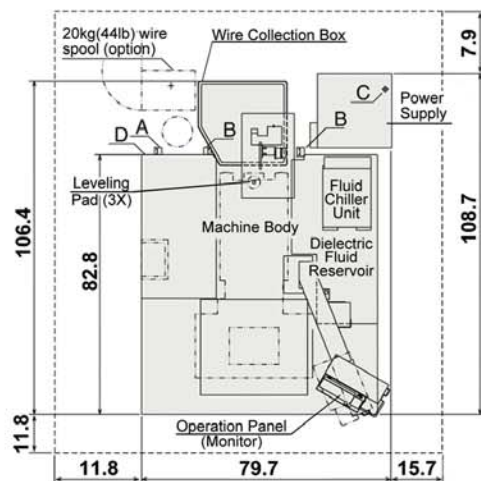


The Precision Finish Circuit uses a ceramic insulator between the table base casting and the new hardened SS work table reducing impedance which improves FM surface finish.

MV-1200R / MD+PROIII Front View

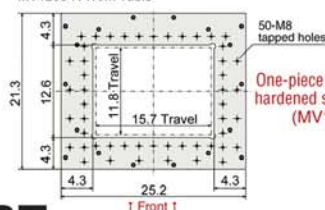


MV-1200R / MD+PROIII Layout Drawing



Machine Specifications		MV1200-R
Machine Unit	Max Workpiece Dimensions (WxDxH)	in 31.9 x 27.6 x 8.5
	Max Workpiece Weight	lb. 1102
	Table Dimensions	in 25.2 x 21.3
	Machining Range (XxYxZ)	in 15.7 x 11.8 x 8.7
	Wire Dia. by AT Device	in .004 ~ .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 ±2.4 x ±2.4
	Max. Taper Angle	deg 15 deg @ 8.0" Thickness
Fluid System	Overall Machine Dimensions (WxDxH)	in 79.7 x 106.4 x 79.3
	Machine Weight	lb. 5952
	Tank Capacity	gal. 145
	Filtered Particle Size	µm 3
	Filter Elements	2 / Paper
	Ion Exchange Resin	cu/ft 1
	Overall Dimensions	in Incorporated in foot print
Dry Weight	lb. Included in mach.weight	

MV1200-R Work Table



One-piece 4-sided table hardened stainless steel (MV1200R)



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