

EA12PS CNC Sinkers EDM

— *Advance* —

Introducing the new EA12PS with Mitsubishi's M700 Series Advance CNC Control System and the new FP80PS power supply with two new Ultra-Fine Matte & Glossy Mirror finishing circuits.



Ergonomic Design

- Easy-to-view screen (15-inch)
- Intuitive operations using touch-panel control
- User friendly keyboard and mouse

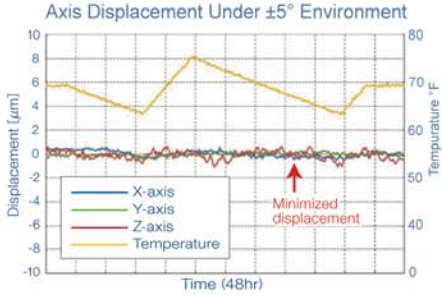
Standard Features:

- Thermal Buster Improves Accuracy with it's new Thermal Displacement Compensation System and Z-Axis Cooling Mechanism.
- SS Jump 5 Optimizes Jump Up and Acceleration Control to Stabilize High-Speed NO-FLUSH Machining (984"/min. @1.6G acceleration in Z and 197"/min. in X, Y)
- NP2 Circuit Provides an Ultra-Fine Matte Finish (0.05 μ m Ra).
- Glossy Mirror Finish Circuit (LLTX) Improves Mold Releasability without the need for polishing.
- Exotic Material Machining (PCD, cBN, & Carbide) with Low Electrode Wear is now possible with the (HPS Circuit)
- Power Master (GF2 Adaptive Control) Reduces Graphite Electrode Wear by as Much as 40%

Integration of Highly Evolved Technology and Advance Control



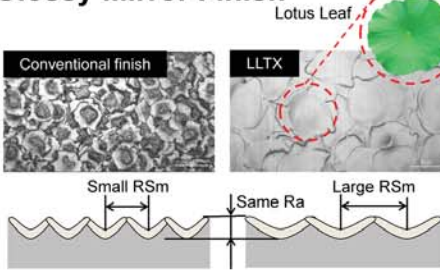
Thermal Buster



Machining accuracy is improved through a Thermal Displacement Compensation system and Z-Axis cooling mechanism.



Glossy Mirror Finish



The new Glossy Mirror LLTX Lotus Leaf TeXtUre circuit achieves a large RSm to improve mold releasability even with the same surface roughness. This provides non-polishing machining of plastic molds and forging dies.

Initial Machining Control

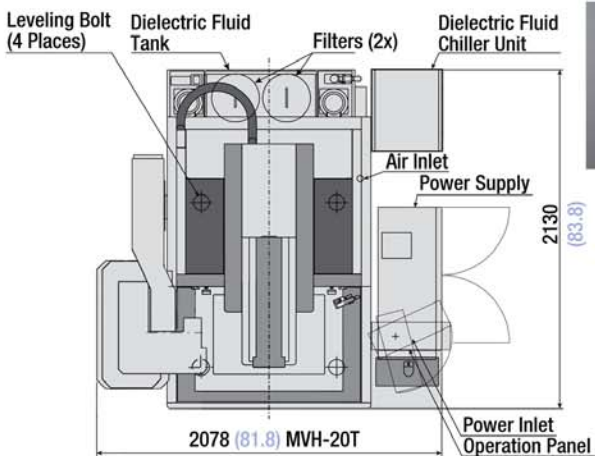
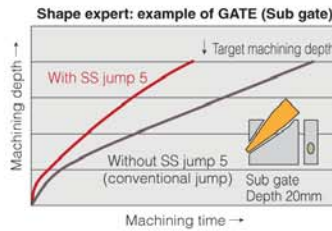
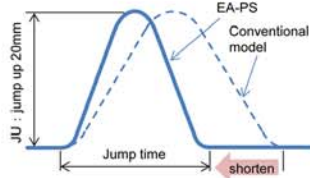
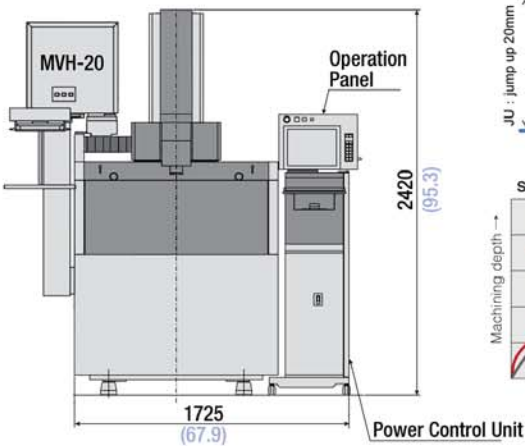
Faster machining is realized with improved initial machining control for the start of machining after rough milling.



Machining time reduced up to 50% for the start of machining after rough milling

Machining Stabilizing Control: SS Jump 5

SS Jump 5 control is suitable for various shapes, such as the sub-gate shown, by optimizing the smoothing of the jump up operation. Fast jump speed of 984"/min. (1.6G) shortens non-burn time with the high-speed / acceleration control. Machining speed is 40% faster with "IDPM" Intelligent Digital Power Master control.



Units: mm (inch)

Machine Specifications

Machine Type		EA12PS
Machine Unit	X-axis stroke	(inch) 15.7
	Y-axis stroke	(inch) 11.8
	Z-axis stroke	(inch) 11.8
	Work tank internal dim. (W x D x H)	(inch) 37.4 x 27.5 x 17.7
	Dielectric fluid level range	(inch) 3.9 ~ 15.7
	Table dimensions (W x D)	(inch) 27.6 x 19.7
	Max. workpiece weight	(lb.) 2200
	Max. electrode weight "Manual Change"	(lb.) 176
	Table to platen distance	(inch) 7.9 ~ 19.7
	Machine unit dimensions (W x D x H)	(inch) 67.9 x 83.9 x 95.3
Machine unit weigh	(lb.) 7716	
Power Supply	Type	FP80PS
	Machining current: Peak	80
Control Unit	Program support function	E S.P.E.R Advance
	Machining function	Fuzzy Pro 3 Plus
	Graphic display	15" TFT color LCD
Axis Speeds	Rapid Travel Speed	(in/min.) 275
	Max. Jump Speed/Acceleration	(in/min/G) 984/1.6
Dielectric Fluid System	Reservoir capacity	(gal) 124
	Filtering method	Paper cartridge (2pc)
	Temperature control type	Chiller
Machine Layout	Installation dimensions (W x D)	(inch) 98.8 x 99.6 w ATC
	Floor space requirement	(sq. ft.) 68.3
C-axis	Max. electrode weight "w 20 pos ATC"	(lb.) 22 (11 w LS-10 ATC)
	Speed	RPM 1 to 30
	Min. indexing angle	.001°
	Min. drive unit	.001°



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