SV12P CNC Sinker EDM

M800 Control

Introducing the Next-Generation SV12P Sinker EDM with Mitsubishi Electrics's AI Technology (Maisart) and M800 Series Control System to Pursue Both High Accuracy and High Productivity

Maisart

M: Mitsubishi
ai: Artificial Intelligence
State-of-the-art

Ergonomic Design

- Easy-to-view screen (19-inch)
- Intuitive operations using touch-panel control
- User friendly keyboard and mouse

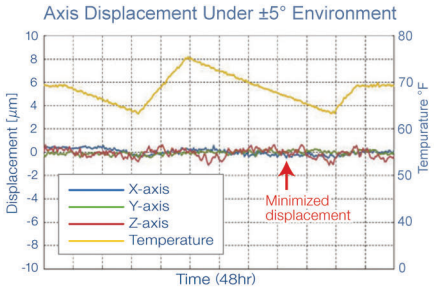
Standard Features:

- 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 (0.05µm 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%

MITSUBISHI EDM

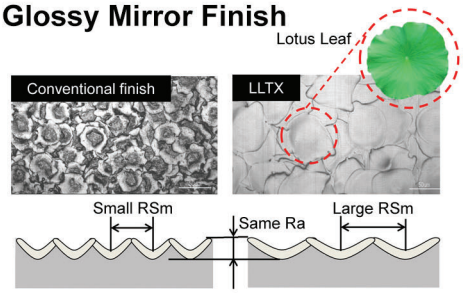
Integration of Highly Evolved Technology and Advance Control

Thermal Buster



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

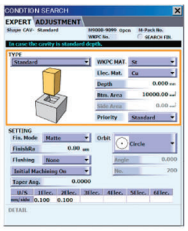
Glossy Mirror Finish



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

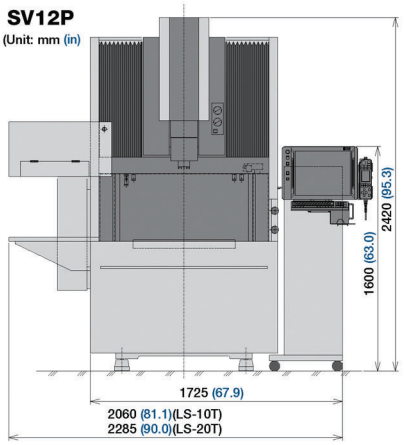
Faster machining is realized with improved initial machining control for the start of machining after rough milling.

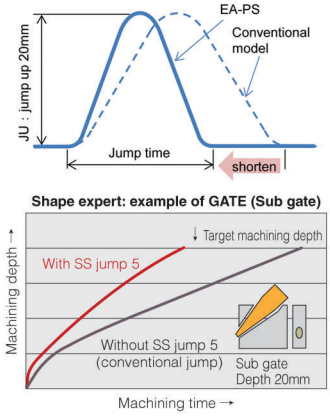


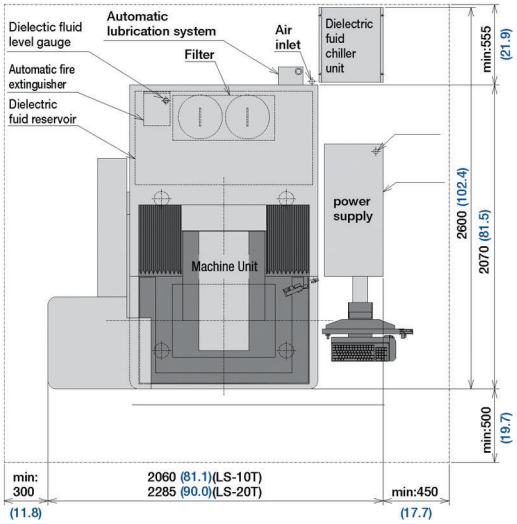
Machining time reduced up to 50% for the start of machining after rough milling

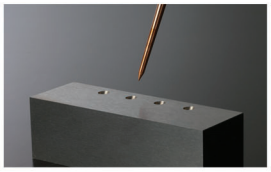
Machining Stabilizing Control: SS Jump 5

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.









Machine Specifications

	Machine Type		SV12P
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 27.6 x 17.7
	Dielectric fluid level range	(inch)	2.6 ~ 15.7
	Table dimensions (W x D)	(inch)	27.6 x 19.7 w 5 T-Slots
	Max. workpiece weight	(lb.)	2205
	Max. electrode weight *"Manual Change"*	(lb.)	176
	Table to platen distance Table to EROWA ITS 50 Chuck Table to 3R MACRO Chuck	(inch) (inch) (inch)	7.9 – 19.7 7.9 – 19.7 7.2 – 19.0
	Machine unit dimensions (W x D x H)	(inch)	67.9 x 81.5 x 95.3
	Machine unit weigh	(lb.)	7716
Power Supply	Type		GV80P
	Machining current: Peak		80
Control Unit	Program support function		E.S.P.E.R Advance
	Machining function		Maisart with IDPM3
	Graphic display		19" TFT color LCD
	CPU / type		64-bit / PC
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)	110.6 x 102.4 w ATC
	Floor space requirement	(sq. ft.)	78.6
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°

MITSUBISHI EDM

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