

EA12S CNC Sinker EDM

Advance

Introducing the new EA12S with Mitsubishi's M700 Series Advance CNC Control System and the new FP80S power supply with the ultra-low wear Power Master (GF2 control).



Ergonomic Design

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

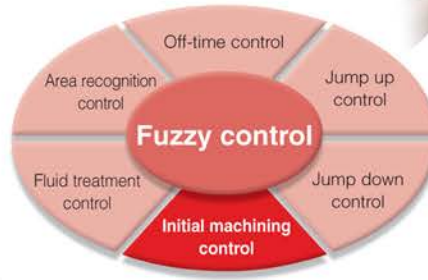
Standard Features:

- Mitsubishi M700 Series Control uses Windows Embedded OS
- 1GB User Program Storage on a 40GB Hard Drive
- Fuzzy Pro 3 Plus Emulates an Experienced Operator Optimizing the Burn Process From Rough Burn to Finish Orbit
- SS Jump 5 Optimizes Jump Up and Acceleration Control to Stabilize High-Speed NO-FLUSH Machining (592"/min. in Z and 197"/min. in X, Y)
- Power Master (GF2 Adaptive Control) Reduces Graphite Electrode Wear by as Much as 80%
- New Digital AC Smart Servo System Improves Resolution to 0.05 μ m (2 millionths) Speeding Response Time

THE MITSUBISHI EXPERIENCE

 MITSUBISHI EDM

Integration of Highly Evolved Technology and Advance Control



Power Master: GF2 Adaptive Control

GF2 Control optimizes spark control to greatly improve electrode wear while improving speed when using graphite electrodes.



Less wear of corner shape of the electrode.

Smooth electrode surface.

Electrode wear comparison for 0.6 x 0.6" and 1.6" depth



Wear using a graphite electrode is reduced up to 80%

Compared to conventional Mitsubishi Electric EDM (EA series)

Initial Machining Control

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

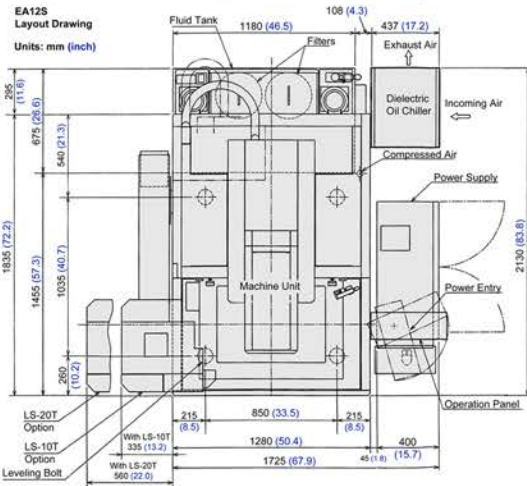
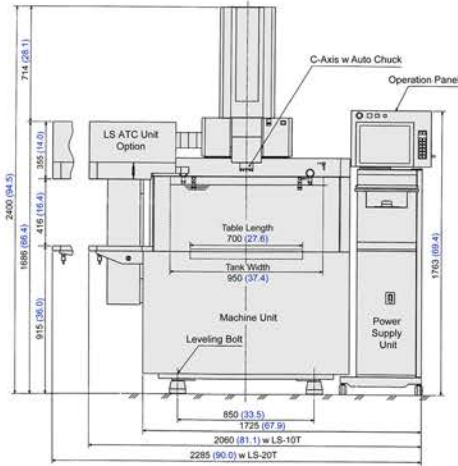


Machining time reduced up to 50% for the start of machining after rough milling

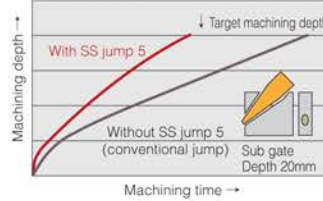
Machining Stabilizing Control: SS Jump 5

SS Jump 5 control is suitable for various shapes, such as the sub-gate shown, by optimizing the smoothing of the jump up operation with the high-speed and acceleration control.

New jump speeds are 590"/min. (15M/min.) in Z and 197"/min. (5M/min.) in the X, Y-axis.



Shape expert: example of GATE (Sub gate)



Machine Specifications

	Machine Type	EA12S
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)	35.4 x 27.5 x 17.7
	Dielectric fluid level range (inch)	3.1 ~ 15.7
	Table dimensions (W x D) (inch)	27.6 x 19.7
	Max. workpiece weight (lb.)	2200
	Max. electrode weight (lb.)	110
	Table to platen distance (inch)	7.9 ~ 19.7
	Machine unit dimensions (W x D x H) (inch)	67.9 x 83.9 x 94.5
Machine unit weight (lb.)	7716	
Power Supply	Type	FP80S
	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
Dielectric Fluid System	CPU / type	64-bit / PC
	Reservoir capacity (gal)	124
	Filtering method	Paper cartridge (2pc)
Machine Layout	Temperature control type	Chiller
	Installation dimensions (W x D) (inch)	89.9 x 83.8 w ATC
C-axis	Floor space requirement (sq. ft.)	52.3
	Max. electrode weight (lb.)	11
	Speed (RPM)	1 to 30
	Min. indexing angle	.001°
	Min. drive unit	.001°



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