

EA8S CNC Sinker EDM

— *Advance* —

Introducing the new EA8S with Mitsubishi's M700 Series Advance CNC Control System and the new FP80S power supply with the ultra-low wear Power Master (GF2 control).



3-Sided Drop Tank
with LS-20 ATC
Option

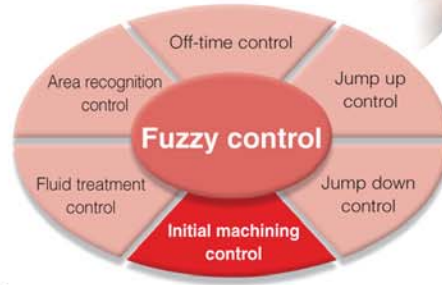
Ergonomic Design

- 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

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.

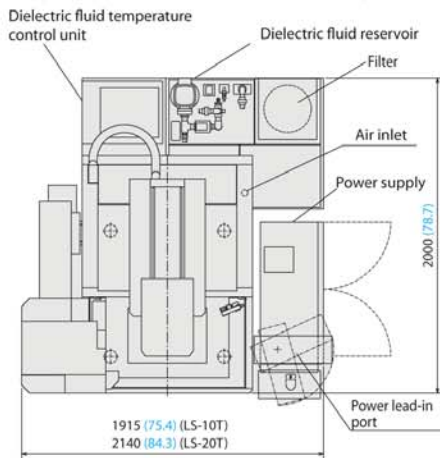
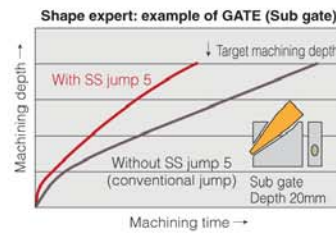
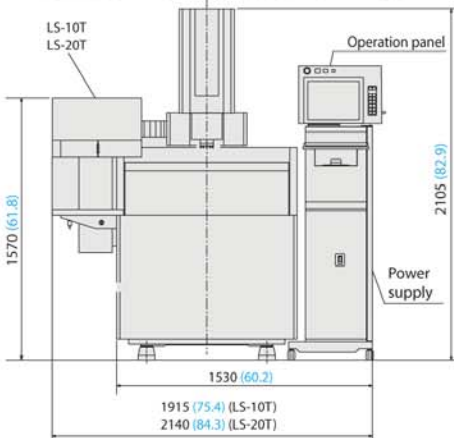


Machining time reduced up to 50% for the start of machining after rough milling

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.

3-Sided Drop Tank with LS ATC Layout Drawings



Machine Specifications

	Machine Type	EA8S
Machine Unit	X-axis stroke (inch)	11.8
	Y-axis stroke (inch)	9.8
	Z-axis stroke (inch)	9.8
	Work tank internal dim. (W x D x H) (inch)	31.5 x 20.5 x 11.8
	Dielectric fluid level range (inch)	3.4 ~ 9.8
	Table dimensions (W x D) (inch)	19.7 x 13.8
	Max. workpiece weight (lb.)	1214
	Max. electrode weight "Manual Change" (lb.)	55
	Table to platen distance (inch)	5.9 ~ 15.7
	Machine unit dimensions (W x D x H) (inch)	60.2 x 78.7 x 82.9
Machine unit weigh (lb.)	4400	
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)	69
Machine Layout	Filtering method	Paper cartridge (1pc)
	Temperature control type	Chiller
C-axis	Installation dimensions (W x D) (inch)	64.3 x 78.7 w ATC
	Floor space requirement (sq. ft.)	35.2
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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