

EA40 CNC Sinker EDM

Advance

Introducing the new EA40 Advance with Mitsubishi's M700 Series Advance CNC Control System and FP120V power supply with ultra-low wear IDPM Power Master Control



Ergonomic Design

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

Standard Features:

- Mitsubishi M700 Series Control with E.S.P.E.R. Pro Programming
- 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)
- IDPM "Intelligent Digital Power Master" Control Reduces Graphite Electrode Wear by as Much as 40%
- FP100B Power Supply Booster Provides 240 Peak AMPs for the Really BIG Jobs.

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

Automatic Drop Door

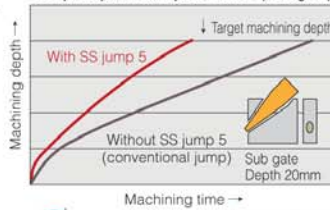
The working tank door opens and closes automatically when a button is pressed. In addition, work safety and operability are enhanced as the door's clamps are automatically latched.



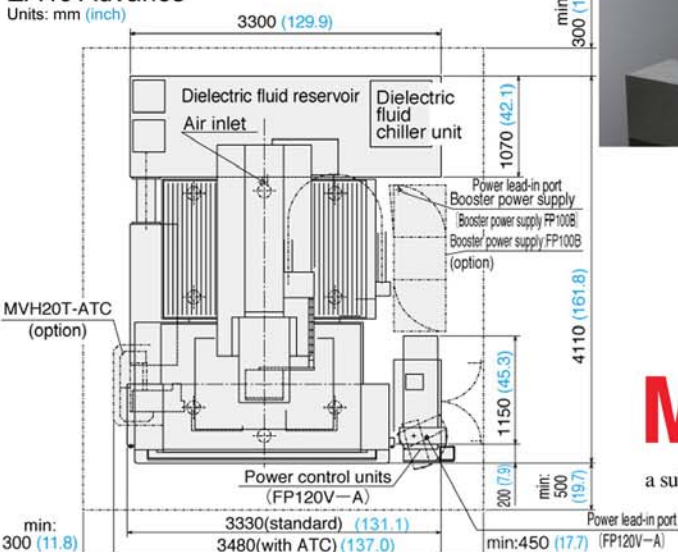
Machining Stabilizing Control: SS Jump 5

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)



EA40 Advance



Machine Specifications

	Machine Type	EA40 Advance
Machine Unit	X-axis stroke (inch)	39.4
	Y-axis stroke (inch)	23.6
	Z-axis stroke (inch)	17.7
	Work tank internal dim. (W x D x H) (inch)	78.7 x 47.2 x 27.6
	Dielectric fluid level range (inch)	12.2 ~ 25.6
	Table dimensions (W x D) (inch)	55.1 x 37.4
	Max. workpiece weight (lb.)	11,023
	Max. electrode weight (lb.)	661 (1,102 optional)
	Table to platen distance (inch)	17.7 ~ 35.4
	Machine unit dimensions (W x D x H) (inch)	120.1 x 143.0 x 123.6
Machine unit weigh (lb.)	26,455	
Power Supply	Type (Optional Booster)	FP120V (FP100B)
	Machining current. Peak (with Booster)	120 (240)
Control Unit	Program support function	E.S.P.E.R Pro Advance
	Machining function	Fuzzy Pro 3 Plus
	Graphic display	15" TFT color LCD
Dielectric Fluid System	CPU / type	64-bit / PC
	Reservoir capacity (gal)	700
	Filtering method	Paper cartridge (2pc)
Machine Layout	Temperature control type	Chiller
	Installation dimensions (W x D) (inch)	166.5 x 193.3 w ATC
	Floor space requirement (sq. ft.)	233.5
C-axis	Max. electrode weight (lb.)	11 (w ATC)
	Speed	RPM 1 to 30
	Min. indexing angle	.001°
	Min. drive unit	.001°



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