

EA28V CNC Sinker EDM

Advance

Introducing the new EA28V with Mitsubishi's M700 Series Advance CNC Control System and the new FP120V 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

Key Features of the EA28V



XYZ Glass Linear Scale

0.1µm resolution, closed loop system with rotary encoders

New LS ATC System

Mitsubishi built 10 or 20 position Rotary Automatic Tool Changer

New Rigid C-Axis Option

High Inertia type for large electrodes. Flushing through the C-axis.

Multiple-Step Rise & Fall Work Tank

Much faster fill and drain.

Rigid Bed Construction

Wider than previous models. Greater stability

Thermal Displacement Compensation Technology

Thermal Isolation Cabinet
Prevents rapid changes due to varying air temperatures

New Generator FP120V (FA80V option)

Compact Design (Small Footprint)

Improved Filtration

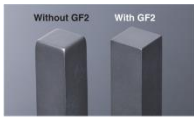
3 large capacity filters

Reduced Daylight for Ram

Variable Dielectric Circulation. Rapid circulation

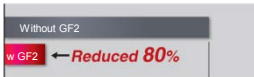
Power Master: GF2 Adaptive Control

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.

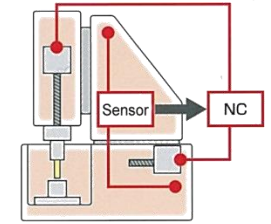
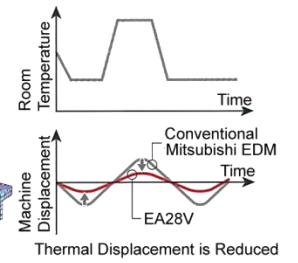
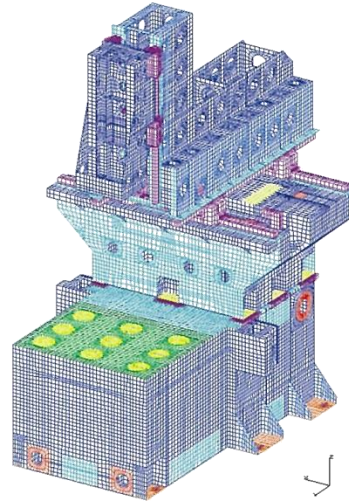
Electrode wear comparison for 0.6 x 0.6" and 1.6" depth



Wear using a graphite electrode is reduced up to 80%

Compared to conventional Mitsubishi Electric EDM (EA series)

Thermal Displacement Compensation Control



High Accuracy:

The heat shielding cabin structure and thermal displacement compensation control suppress thermal displacement of the EDM machine caused by changes in the ambient temperature. In addition, a stable accuracy can be attained even during long continuous operation by automatically compensating the displacement amount.

	Machine Specifications	EA28V Advance
Machine Systems	Worktank Type	36 Step Drop Tank
	Worktank Internal Dimensions (WxDxH) in	43.3 x 31.9 x 17.7
	Max. Dielectric Fluid Level in	15.7
	Max. Workpiece Weight lb	4409
	Table Size (W x D) in	33.4 x 23.6
	X-Axis Travel in	25.6
	Y-Axis Travel in	17.7
	Z-Axis Travel in	17.7
	Table to Platen Distance (w C-Axis) in	12.8 ~ 30.5 (7.9 ~ 25.6)
	Max. Electrode Weight lb	440
	Machine Height (including pads) in	103.0
	Machine Dimensions (W x D) in	86.4 x 98.9
	Total Machine System Weight lb	11,904
	Fluid Tank Capacity gal	157
Fluid Filtering Method	3 fine mesh paper filters	
Fluid Temperature Control Unit	Chiller	

Maintenance:

Triple filter system can be replaced during machining reducing machine stoppage and improves the operation rate.



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