

SG8

C N C S I N K E R E D M

SPEED

Introducing the Next-Generation **SG8 Sinker EDM** with **Mitsubishi Electric's AI Technology (Maisart)** and **M800 Series Control System** to pursue both ultra-low wear and high productivity.

ERGONOMIC DESIGN

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



Mitsubishi
Artificial Intelligence
State-of-the-art



• 3 Sided Drop Tank Model

STANDARD FEATURES

- Mitsubishi M800 Series Control including an all-new LCD Hand Pendant Control.
- New IDPM3 (Intelligent Digital Power Master) offers unparalleled jump speed, reduced electrode wear (up to 40%), and ease of operation for any experience level.
- SS Jump 5 optimizes jump up and acceleration control to stabilize High-Speed NO-FLUSH machining (787"/min. 1.6G in Z and 197"/min in the X and Y-axis).
- High speed positioning and plotting, now at 7M/min. (275"/min.), increases machine efficiency during set-up and dry-run check.
- ESPER II Navigator now simplifies programming inputs to a short question and answer session prompting the operator through the process.
- 1GB User Program Storage

Integration of Highly Evolved Technology and Advance Control



IDPM3 – Intelligent Digital Power Master



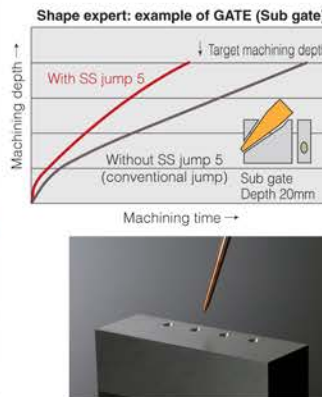
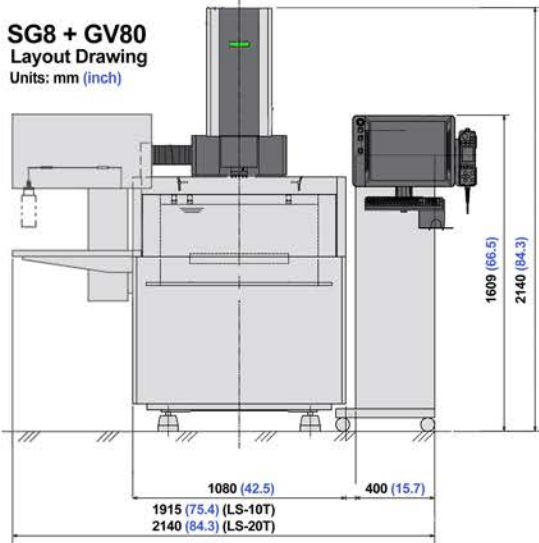
IDPM3 automatically adjusts the spark to reduce the electrode wear while optimizing machining speeds with graphite electrodes.

Dramatically improved corner wear allows for a reduction in electrodes reducing manufacturing costs.

Machining Stabilizing Control: SS Jump 5

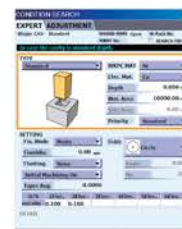
SS Jump 5 control is suitable for various shapes, such as the sub-gate shown, by optimizing the smoothing of the jump up operation. Fast jump speed of 787"/min. (1.6G) shortens non-burn time with the high-speed / acceleration control. Machining speed is 40% faster with "IDPM" Intelligent Digital Power Master control.

SG8 + GV80 Layout Drawing Units: mm (inch)



Initial Machining Control

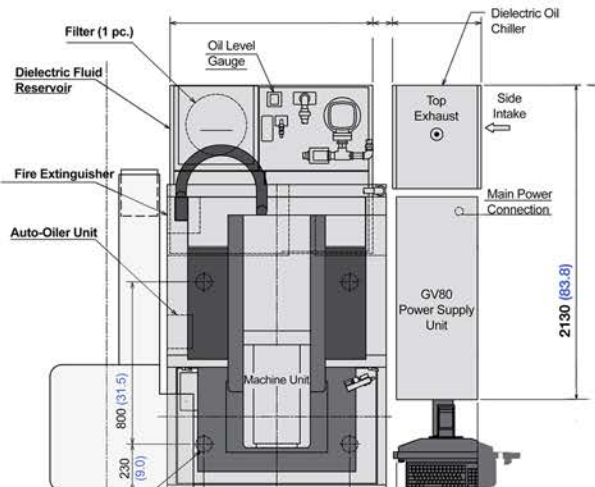
Faster machining is realized with improved initial machining control for the start of machining after rough milling.



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

Machine Specifications

	Machine Type	SG8
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)	2.4 - 9.8
	Table dimensions (W x D) (inch)	19.7 x 13.8 w 3 T-Slots
	Max. workpiece weight (lb.)	1210
	Table to platen (Min-Max) (inch)	5.9 - 15.7
	Table to EROVA ITS 50 Chuck (Min-Max) (inch)	5.9 - 15.7
	Table to 3R MACRO Chuck (Min-Max) (inch)	5.2 - 15.1
Machine unit dimensions (W x D x H) (inch)		60.2 x 78.7 x 84.3
	Work tank access	3 Sided Drop Tank
Power Supply	Machine weight, including power supply (lb.)	4409
	Type	GV80P
Control Unit	Machining current: Peak	80
	Program support function	E.S.P.E.R.II
	Machining function	IDPM3/Orbit Pro
	Graphic display	19" TFT color LCD
Axis Speeds	CPU / type	M800 Series / Industrial PC
	Rapid Travel Speed (in/min.)	275
Dielectric Fluid System	Max. Jump Speed/Acceleration (in/min/G)	787/1.6
	Reservoir capacity (gal)	71.3
	Filtering method	Paper cartridge (1pc)
C-axis	Temperature control type	Chiller FTS (Std)
	Max. electrode weight (Manual / Auto Change) (lb.)	55 / 22
	Speed (RPM)	1 to 30
	Min. indexing angle	.001°
	Min. drive unit	.001°



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