SG28

CNC SINKER EDM

SPEED

Introducing the Next-Generation SG28 Sinker EDM with Mitsubishi Electrics's Al 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



STANDARD FEATURES

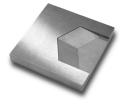
- Mitsubishi M800 Series Control including an all-new LCD Hand Pendant Control.
- New IDPM3 (Intelligent Digital Power Master) offers unparalleled jump speed, reduced electrode wear (up to 40%), and ease of operation for any experience level.
- SS Jump 5 optimizes jump up and acceleration control to stabilize High-Speed NO-FLUSH machining (590"/min. 1.0G in Z and 197"/min in the X and Y-axis).
- Thermal Displacement Compensation System utilizes temperature sensors that constantly monitor any changes in the work tank and environment.
- High speed positioning and plotting, now at 4M/min. (157"/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

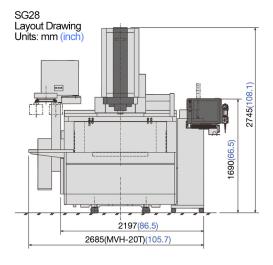


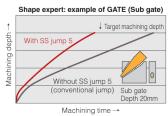
IDPM3 automatically adjusts the spark to reduce the electrode wear while optimizing machining speeds with graphite electrodes.

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

Machining Stabilizing Control: SS Jump 5

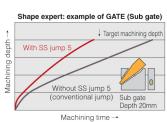
SS Jump 5 control is suitable for various shapes, such as the sub-gate shown, by optimizing the smoothing of the jump up operation. Fast jump speed of 590"/min. (1.0G) shortens non-burn time with the high-speed / acceleration control. Machining speed is 40% faster with "IDPM" Intelligent Digital Power Master control.



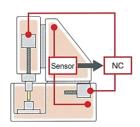


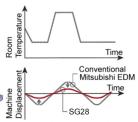


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Thermal Displacement Compensation Control





Thermal Displacement is Reduced

High Accuracy:

The 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

	Machine Type	SG28
Machine Unit	X-axis stroke (inch)	25.6
	Y-axis stroke (inch)	17.7
	Z-axis stroke (inch)	15.7
	Work tank internal dim. (W x D x H) (inch)	43.3 x 31.9 x 17.7
	Dielectric fluid level range (inch)	3.0 ~ 15.7
	Table dimensions (W x D) (inch)	33.5 x 23.6 w 5 T slots
	Max. workpiece weight (lb.)	4400
	Table to platen distance (inch) Table to ERWOA ITS 50 Chuck (inch) Table to 3R MACRO Chuck (inch)	11.0 - 26.8 6.9 - 22.6 6.2 - 22.0
	Machine unit dimensions (W x D x H) (inch)	103.1 x 102.4 x 108.1
	Machine weight including power supply (lb.)	12,320
Power Supply	Type (option)	GV80 / GV120
	Machining current: Peak	80 (120)
Axis Speeds	Rapid Travel Speed (in/min)	157.5
	Max. Jump Speed / Acceleration (in/min/G)	590 / 1.0
Control Unit	Program support function	E.S.P.E.RII
	Machining function	IDPM 3 / Orbit Pro
	Graphic display	19" TFT color LCD
	CPU / type	M800 Series / Industrial PC
Dielectric Fluid System	Reservoir capacity (gal)	157
	Filtering method	Paper cartridge (3 pc)
	Temperature control type	Chiller FTS (Standard)
Machine Layout	Installation dimensions (W x D) (inch)	135.2 x 139.8 w ATC
	Floor space requirement (sq. ft.)	131
C-axis	Max. electrode weight "w MVH-20 ATC" (lb.)	110 / 22
	Speed RPM	1 to 30
	Min. indexing angle	.001°
	Min. drive unit	.001°



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MITSUBISHI EDM