

Smart solutions for mould making



Electric Discharge Machine



Smart solutions for mould making

Electronica - the pioneer and leading manufacturer of EDMs and CNC Wirecut EDMs - today offers an admirable array of Electric Discharge Machines with advanced features.

Electronica EDMs are known for their highest reliability and have been trusted by several leading companies in India and abroad for more than 30 years.

smart znc

- Integral design with compact footprint
- Two-door, large work tank
- Large table traverse
- Work tank : 800 x 500 x 350 mm
- X x Y x Z : 300 x 200 x 250 mm
- S-50 ZNC Generator with built-in 'Ez-GURU'
- High-speed jump - 1 m/min.
- Hand-held, full-function remote control

Machine Tool

- Precision co-ordinate table with needle roller bearings on symmetric guideways
- Highly accurate workhead with the quill running on pre-loaded cross roller bearings
- Two-door work tank for ease of loading and unloading of the workpiece

Job samples



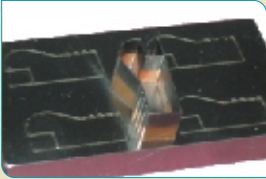
Cell phone die



Sharp corner machining



Shoe die



Extrusion die



S-50 ZNC

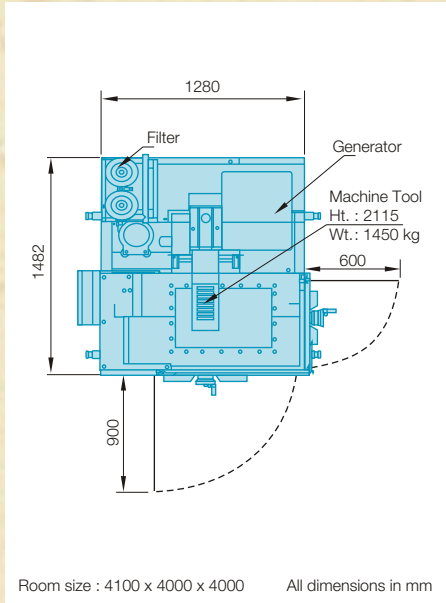
Programmable Pulse Generator

- 99 programs, 50 steps per program
- EDM technology at a glance on screen
- 3 axes digital positioning display
- Day and night function
- Full-function, hand-held remote control
- Reverse Servo machining
- Higher Material Removal Rate due to equi-energy pulse discharge
- Reduced electrode wear with high MRR
- High-speed jump function
- Built-in super finish function
- SAFE machining circuit inbuilt
- Dry spark function for smaller jobs

Advantages of new SAFE machining circuit

- Safe and stable, no-arc machining
- Ultra low electrode wear even on sharp corners and edges resulting in
 - Longer electrode life
 - Sharper machining details
- High-efficiency rib machining

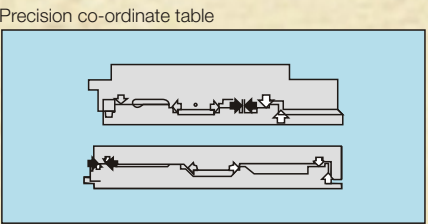
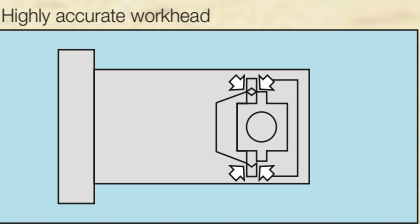
Floor Plan



Built-in 'Ez-GURU'

Simple, 4-step, smart znc programming

- 1 Selection of cavity pattern viz; single cavity, PCD & assorted.
- 2 Enter positioning and other basic information such as depth to go, electrode and workpiece material, machining area, etc.
- 3 Select START & END steps from the recipe generated by 'Ez-GURU' depending upon the required final surface finish.
- 4 Select 'PGen' key to automatically generate multi-step program from rough to finish machining.



Technical Specifications

Machine Tool	
Work tank internal dimensions (W x D x H)	800 x 500 x 350 mm
Work table dimensions	550 x 350 mm
Traverse (X,Y,Z)	300, 200, 250 mm
Maximum job weight	300 kg
Maximum electrode weight	100 kg
Maximum job height above the table	250 mm
Feed motor / Servo system for Z axis	DC Servo
Position measuring system (X,Y,Z)	Incremental linear scale
Dielectric system	Integral with the machine tool
Dielectric capacity	400 Litres
Filter element	10 µ paper cartridge 2 nos.

Pulse Generator	
Pulse generator type	S 50 ZNC
Maximum working current	MOSFET
Max. MRR (Cu-St)	50 A
Max. MRR (Gr-St) (GR-1)	350 mm³ / min.
Best surface finish (Cu-St)	500 mm³ / min.
Min. electrode wear (Cu-St & Gr-St)	0.29 µ Ra
Power supply	< 0.2 %
Connected load	3 phase, 415 V * AC , 50 Hz
	6 KVA

* Alternate power supply ratings available on request



In keeping with our constant endeavour to meet ever-changing market needs, we reserve the right to alter or change the specifications mentioned without prior notice.

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