



**RATNAPARKHI**  
ELECTRONICS IND. PVT. LTD.  
SINCE 1989

Contact us



**SMART CUT 2530**  
CNC Wirecut EDM



Best Innovative Product  
& Display Award - 2016



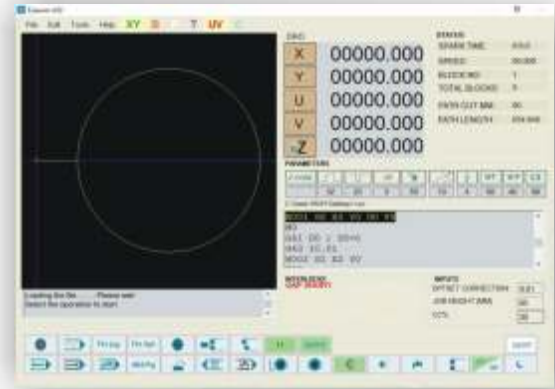
**We Support**



## Features:

- ▲ Full closed loop X, Y (1  $\mu$  linear scale & z with 5  $\mu$  linear scale) with error compensation
- ▲ Online offset correction
- ▲ Low running cost
- ▲ Max. cutting speed 100 mm<sup>2</sup>/ min on steel (HcHcr/ WPS)
- ▲ Best surface finish 0.8 to 1  $\mu$  Ra
- ▲ CS-EDM machining parameter override.
- ▲ CC-Corner control to avoid wire breakages.
- ▲ Maximum pendent rapid speed 600 mm/min
- ▲ Z down position lock to avoid collision.
- ▲ Autoalign function
- ▲ Direct coupled motors

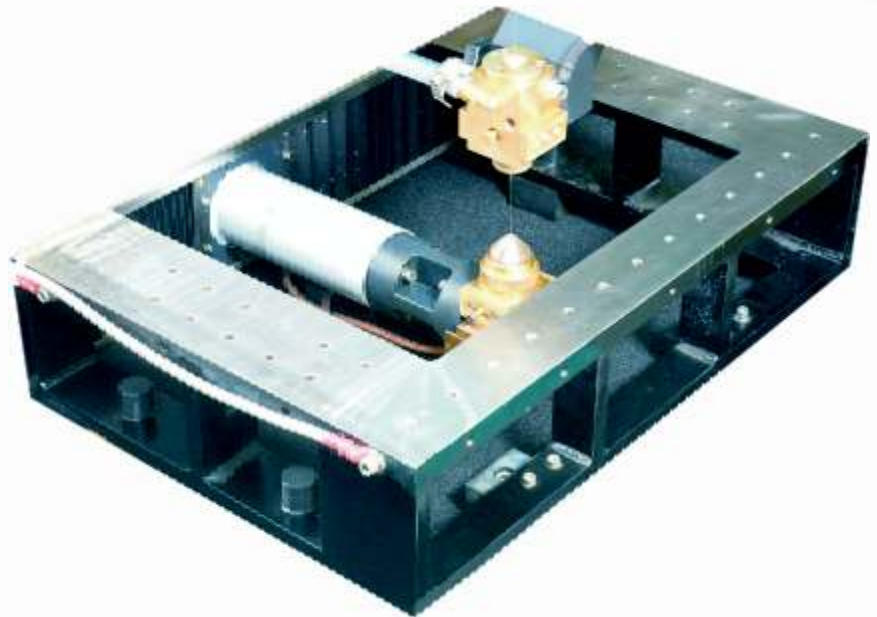
## SC - 01 Main Screen



## SC 01:CNC Pulse Generator

- ▲ Profile Zoom and Pan facility
- ▲ Option to display different profile layers
- ▲ MDI
- ▲ Corner control strategy
- ▲ Mid program - To start or end program at any given block
- ▲ Pre-Spark facility
- ▲ Pre-Jog facility
- ▲ Inbuilt 5 axis DRO (x,y,z axis)
- ▲ Rotate ( $\pm 90^\circ$ ) and Mirror image about given point
- ▲ Display of cutting rate in mm / min or mm<sup>2</sup> / min.
- ▲ Display of machining time
- ▲ Maintenance activity alerts for consumables
- ▲ 2D graphic simulation of wire path
- ▲ Display of operator help and error message
- ▲ Single block execution
- ▲ Resumption of cutting from power fail position
- ▲ Automatic center find, 3 point center find, edge find operation and pause at wire zbreak
- ▲ Auto gap short recovery
- ▲ Multi-pass and multi-cavity facility
- ▲ New profile can be generated while sparking

## C-BED



## Effective pulse control

- ▲ Every pulse is monitored & controlled accordingly to gap condition. This adaptive control results in:
  - « Reduced wire breakage
  - « Higher cutting speed

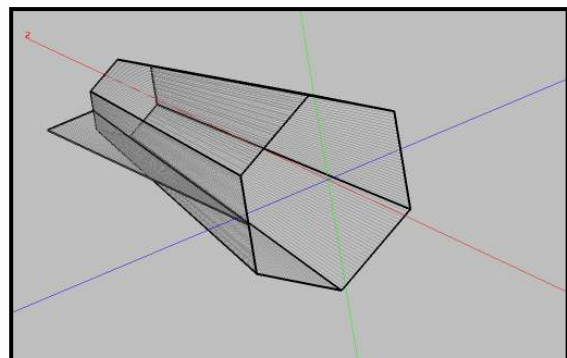
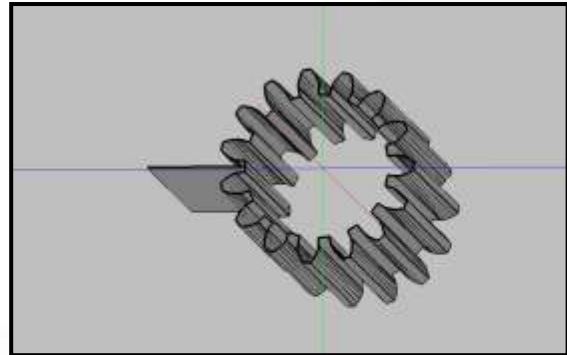
## Machine Tool

- ▲ X, Y axis with LM guideways
- ▲ Motorized Z axis with LM guideways
- ▲ Upper and lower flushing with high pressure pump motor
- ▲ Fine VFD controlled pressure flushing
- ▲ 2 Stage coolant filter
- ▲ Soft water used as dielectric
- ▲ Magnetic clutch for adjustable wire tension
- ▲ Easy wire loading

## RRCAM :User friendly windows based Part Programming Software

- ▲ DXF file interface
- ▲ Auto parameter selection
- ▲ Option for tangential entry & exit
- ▲ Option for start & end block generation
- ▲ Multicavity and multi-pass option with holding facility
- ▲ Powerful path generation and functions-move, rotate, copy, mirror, scale,reverse mirror
- ▲ Path modify options: Taper change,Taper skip, Progressive Taper ,Offset change and Constant radius blocks is possible
- ▲ Regeneration of drawing from G-code file
- ▲ Quick path generation option
- ▲ 2D graphic simulation and 3D graphic display with rotate and zoom options
- ▲ Std. profiles Polygon (3 to 12 sides)
- ▲ Gear profiles generation.
- ▲ Complex profiles generation.

## 3D Graphic Display



## Hand held pedent unit



## RRCAM Screen



### Multi matching

Material: WPS  
Height: 25mm  
Wire: 0.25 mm Dia  
Machining time: 30 min.(single gea  
No. of cuts: 3(1 Rough+2 Trim



### Octagon

Material: WPS  
Height: 51mm  
Wire: 0.25 mm Dia  
Machining time: 45 min.  
No. of cuts : 1



### Punch

Material: WPS  
Height: 50mm  
Wire: 0.25 mm Dia  
Machining time: 5 hrs.  
No. of cuts: 3(1 Rough+2 Trim)



### Jig saw punch

Material: WPS  
Height : 25mm  
Wire: 0.25 mm Dia  
Machining time: 45 min.( 1 piece)  
No. of cuts: 3(1 Rough+2 Trim)



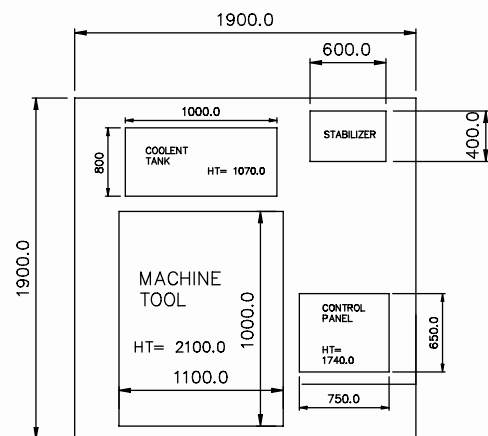


| Technical Specifications      | UNIT   | SMARTCUT 2530      | SMARTCUT 3240      |
|-------------------------------|--------|--------------------|--------------------|
| Work table size               | mm     | 500 x 400          | 600 x 400          |
| X & Y axis travel             | mm     | 250 x 300          | 300 x 400          |
| Auxiliary travel (UV)         | mm     | 50 x 50            | 50 x 50            |
| Max Z height                  | mm     | 200                | 250                |
| Max workpiece height          | mm     | 200                | 200                |
| Max work piece size           | mm     | 500 x 400 x 200    | 600 x 400 x 200    |
| Max work piece weight         | Kg     | 300                | 350                |
| Machine tool size (L x W x H) | mm     | 2100 x 2100 x 2050 | 2100 x 2300 x 2275 |
| Max. taper cutting angle      | degree | 10                 | 10                 |
| Wire diameter                 | mm     | 0.250              | 0.250              |
| Max wire spool capacity       | Kg     | 3.5 to 6           | 3.5 to 6           |

| (C) Dielectric Unit | SMARTCUT 2530           | SMARTCUT 3240           |
|---------------------|-------------------------|-------------------------|
| Dielectric          | Soft water / DM water   | Soft water / DM water   |
| Tank capacity       | 200 lit                 | 350 lit                 |
| Filters             | 2 Nos. 10µ paper filter | 2 Nos. 10µ paper filter |

| [B] Generator                | SC 01            |
|------------------------------|------------------|
| Minimum input command        | 0.001 mm         |
| Minimum increment            | 0.001 mm         |
| Interpolation function       | Linear, Circular |
| Simultaneous controlled axis | X, Y, U, V       |
| Resolution for X, Y, U, V    | 0.001 mm         |
| Data input                   | USB              |
| Input power supply           | 3 Phase 415 v ac |
| Connected load               | 3 kVa            |

Dielectric Unit



↑ M/C FRONT

**SMART CUT - 2530**

Important Note : In keeping with our constant endeavour to meet market needs, we reserve the right to alter or change the specifications mentioned, without prior notice

[www.ratnaparkhiedm.com](http://www.ratnaparkhiedm.com)

Manufactured by :



**RATNAPARKHI**  
ELECTRONICS IND. PVT. LTD.  
SINCE 1989

E-52, MIDC, Satpur,  
Nashik, Maharashtra  
India - 422007

Contact :  
Tel. : +91- 253-2351125  
Fax : +91- 253-2351025

E- Mail :  
sales@ratnaparkhiedm.com  
vgp@ratnaparkhiedm.com

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