



RATNAPARKHI
ELECTRONICS IND. PVT. LTD.
SINCE 1989

Contact us



SMART CUT PRO 1
CNC Wirecut EDM

**Direct
Coupled AC
Servomotors**

**POWER
SAVER
5 kVA**



We Support



MAKE IN INDIA

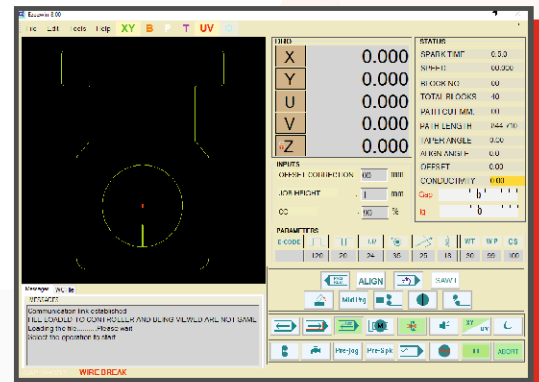
SMART CUT PRO 1

CNC Wirecut EDM

Features :

- ✦ Full closed loop X, Y, U, V, Z axis
- ✦ Pitch error compensation for X, Y, U, V axis
- ✦ Direct Coupled AC servo motors.
- ✦ Max. cutting speed 140 mm²/min on steel (OHNS).
- ✦ Online offset correction.
- ✦ Low running cost.
- ✦ Best surface finish 0.8 to 1 μ Ra.
- ✦ CC-Corner control to avoid wire breakages.
- ✦ Maximum pendent rapid speed 1200 mm/min.
- ✦ Z down position lock to avoid collision.
- ✦ Auto Align function for workpiece
- ✦ Semi auto wire threading (SAWT)
- ✦ 2 Co-ordinate Systems.
- ✦ Auto Guide span & Work Table Calculation.
- ✦ Sleep mode facility
- ✦ Machine Reference

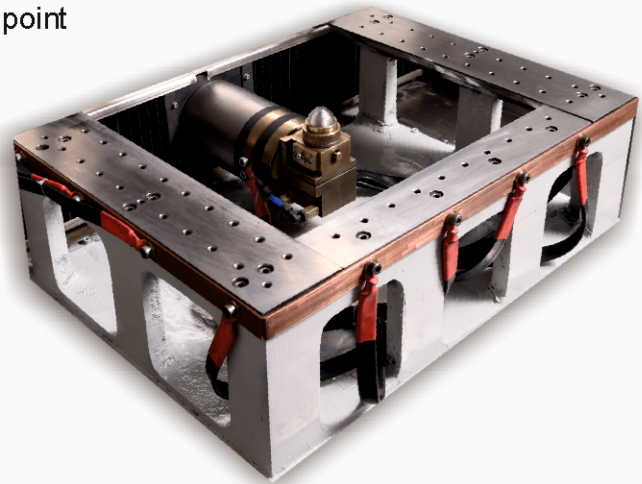
Main Screen



CNC Pulse Generator

- ✦ Profile Zoom and Pan facility
- ✦ Option to display different profile layers (X, Y, U, V, Original profile)
- ✦ MDI
- ✦ Mid program - To start or end program at any given block
- ✦ Pre-Spark facility
- ✦ Pre-Jog facility
- ✦ Inbuilt 5 axis DRO (X, Y, U, V, Z axis)
- ✦ Rotate (0 to 360°) and Mirror image about given point
- ✦ Display of cutting rate in mm/min or mm²/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,
 - X-Y axis with 45°/90°
- ✦ Auto Edge find operation
- ✦ Auto gap short recovery
- ✦ Semi auto Wire vertical operation.
- ✦ Multi-pass and multi-cavity facility
- ✦ New profile can be generated while sparking

C - BED



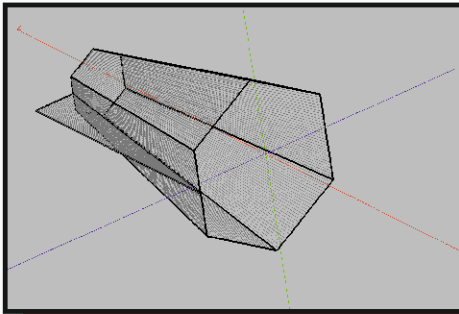
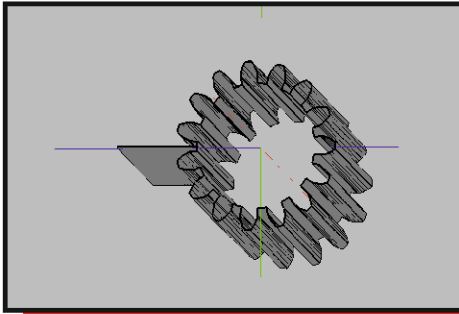
Machine Tool

- ✦ X, Y, U, V axis with LM guideways and ballscrews.
- ✦ U, V assembly on column.
- ✦ Front loading system for ease of operation
- ✦ Motorized Z axis with LM guideways
- ✦ Magnetic clutch for adjustable wire tension
- ✦ Easy wire loading

Dielectric Unit

- ✦ Automatic dielectric conductivity monitoring.
- ✦ High pressure pump for upper and lower flushing fine VFD controlled (0.5 bar to 12 bar)
- ✦ 2 Stage coolant filter
- ✦ DM water used as dielectric
- ✦ Automatic deionizing, filtration & flushing through separate pumps.
- ✦ Resin Bowl for Conductivity Control
- ✦ MBF Facility

3D Graphic Display



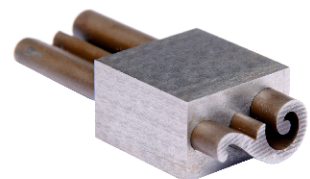
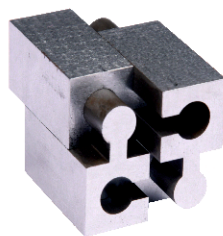
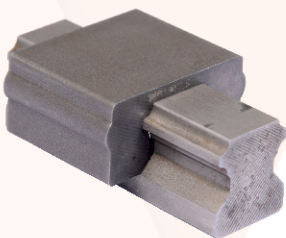
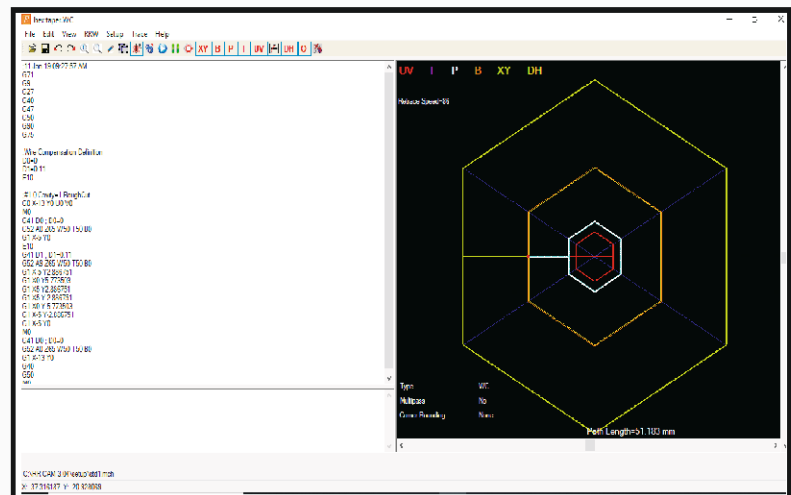
RRCAM :User friendly windows based Part Programming Software

- ⤴ 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

RRCAM Screen



Hand held
pendent unit



Technical Specification	Unit	2530 SMARTCUT PRO 1	3240 SMARTCUT PRO 1
Work table size	mm	400 x 500	600 x 450
X & Y axis travel	mm	250 x 300	400 x 300
Auxiliary travel (UV)	mm	22 x 22	80 x 80
Max Z height	mm	200	250
Max work piece height	mm	200	250
Max work piece size	mm	500 x 400 x 200	600 x 400 x 200
Max work piece weight	Kg	250 Kg.	300 Kg.
Max. taper cutting angle	Degree	$\pm 5^{\circ}$	$\pm 15^{\circ}$
Wire diameter	mm	0.25 Std.	0.25 Std.
Max wire spool capacity	Kg	6 Kg.	6 Kg.
Machine tool size (L x W x H)	mm	2100 X 2100 X 2050	3050 X 2500 X 2000

PF Unit

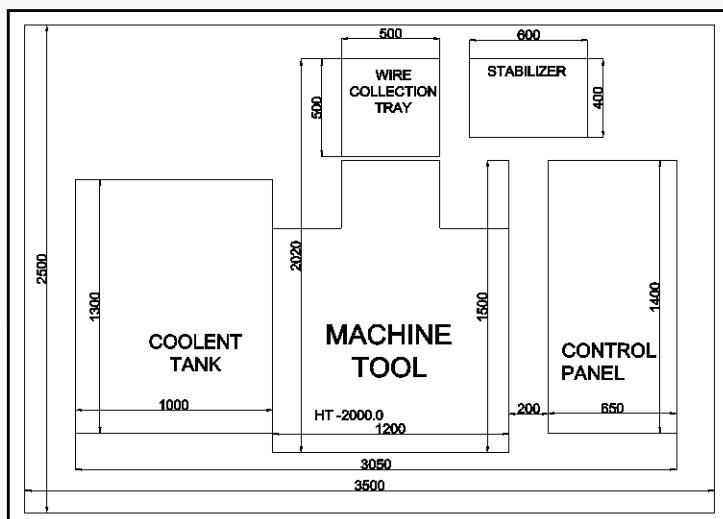
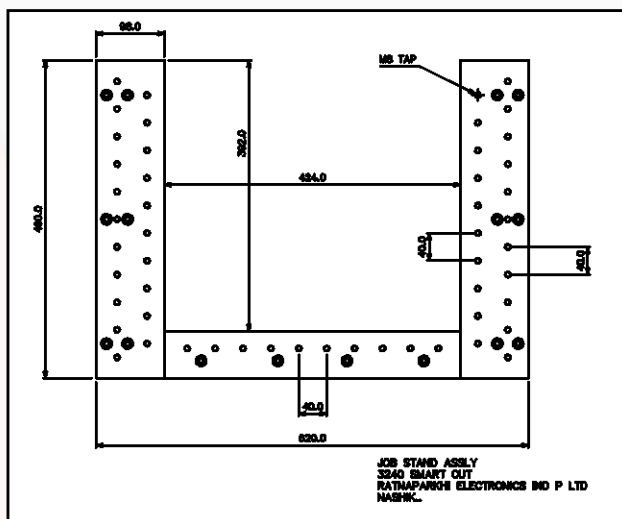


Dielectric Unit	SMARTCUT PRO 1
Dielectric	DM water
Tank capacity	300 Lit.
Filters	2 Nos. filter.
Resin Bowl	24 Lit.

Generator	SMARTCUT PRO 1
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	5 kVA Max.



2530 SMARTCUT PRO 1



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



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