

ENOVA SERIES

CNC WIRECUT EDM
SUBMERGE TYPE

**High-Precision,
High-Speed
High Reliability
CNC Wirecut EDM**



eNova 1S

- Table traverse : 400 x 300
- Table size : 680 x 500
- Max. work piece height : 300

eNova 2S

- Table traverse : 600 x 400 mm
- Table size : 900 x 580 mm
- Max. work piece height : 350 mm

Advantages

- Slot Corner and external center finding features.
- Directly coupled AC Servo motors (X, Y, U, V)
- Wire spool capacity 8 kg
- Centralized lubrication (Manual)
- Stainless steel, non-corrosive worktable
- Auto-align
- Best surface finish : **0.4 μ Ra**
- Max. Cutting Speed : **220 mm²/min**

Features

- High-precision 5 axes CNC
- e Nova CNC - Windows embedded CNC controller with TRIO motion control technology
- Capability of machining Poly-Crystalline Diamond
- Add on MBF (Option)
- Equienergy e Pulse Anti electrolysis ae Pulse
- ae^2 Pulse = ePulse + ae Pulse
- Ethernet for networking and remote monitoring
- Auto power recovery
- Auto Wire Threading (optional) (Only for 0.25mm Dia wire)



Technical Specifications

Machine Tool	eNova 1S	eNova 2S
Main axes traverse (X, Y)	400 x 300 mm	600 x 400 mm
Aux. Axes traverse (U, V, Z)	100 x 100 x 300 mm	120 x 120 x 350 mm
Work table size	680 x 500 mm	900 x 580 mm
Max. taper angle	± 35 ⁰ /50 mm	± 35 ⁰ /50 mm
Max. work piece height	300 mm	350 mm
Max. work piece weight	500 kg	1000 kg
Resolution	0.0005 mm	
Max. wire spool capacity	8 kg	
Wire electrode diameter	0.25 mm (standard) 0.1, 0.15, 0.2, 0.3 (optional)	
Wire spool size	DIN 125, DIN 160, P-3-R, P-5-R	
Pulse Generator		
Max. machining current	25 A	
CNC controller	TRIO	
Controlled axes	X,Y,u,v,Z simultaneous/independent	
Least input increment	0.001 mm	
Least command input (X,Y, u, v,Z)	0.0005 mm	
Input power supply	3 phase AC 415V (±1%) 50 Hz (Alternate voltage/frequency ratings available on request)	
Connected load	13 kVA	
Average power consumption	11 kVA	
Data input/output	Wireless keyboard & Optical mouse, USB port, Ethernet port (LAN)	
Dielectric Unit		
Dielectric fluid	De-ionized water	
Dielectric tank capacity	850 Liters	1300 Liters
De-ion capacity	16 Liters	
Paper filter	Inside out type, 10 μ	
Dielectric cooling capacity	2100 kCal.	

