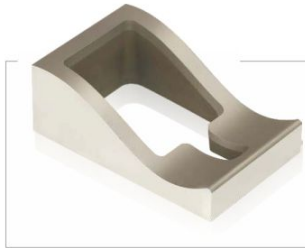


Ultima Series

High-Precision, High-Speed CNC Wirecut EDM

Technical Specifications

Machine Tool	ULTIMA 0F	ULTIMA 1F	ULTIMA 2F	ULTIMA 3F
Main axes traverse (X, Y)	320 x 220 mm	500 x 300 mm	600 x 400 mm	800 x 600 mm
Aux. axes traverse (u, v)	80 x 80 mm	100 x 100 mm	120 x 120 mm	120 x 120 mm
Work table size	655 x 350 mm	810 x 550 mm	910 x 580 mm	1145 x 800 mm (c) Type
Max. taper angle	30°/50 mm	35°/50 mm	35°/50 mm	35°/50 mm
Max. workpiece height	200 mm	260 mm	350 mm	450 mm
Max. workpiece weight	300 kg	500 kg	1000 kg	4000 kg
Resolution	0.0005 MM			
Max. wire spool capacity	8 kg (16-45 kg optional with de-coiler)			
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	TURBO			
Controlled axes	X,Y,u,v,Z simultaneous/independent			
Least input increment	0.001 mm			
Least command input (X,Y, u, v)	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-ionised water			
Dielectric tank capacity	480 Liters	500 Liters	500 Liters	500 Liters
De-ion capacity	16 Liters			
Paper filter	Inside out type, 10 µ			
Dielectric cooling capacity	2100 kCal.			



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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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High-Precision, High-Speed CNC Wirecut EDM

Ultima Series Flush Type



Ultima 0F

- Table traverse : 320 x 220 mm
- Table size : 655 x 350 mm
- Max. workpiece height : 200 mm

Ultima 1F

- Table traverse : 500 x 300 mm
- Table size : 810 x 550 mm
- Max. workpiece height : 260 mm

Ultima 2F

- Table traverse : 600 x 400 mm
- Table size : 910 x 580 mm
- Max. workpiece height : 350 mm

Ultima 3F (Manufactured on Demand)

- Table traverse : 800 x 600 mm
- Table size : 1145 x 800 mm (C Type)
- Max. workpiece height : 450 mm

Advantages

- Most compact footprint
- Directly coupled AC Servo motors
- Wire spool capacity 8 kg
- Specially designed large surface area paper filter
- Wide cross-section of wire guide arm
- Centralised lubrication
- Stainless steel, non-corrosive hardened worktable
- Resin bowl - Large capacity of 16 Liters
- Auto-align
- Best surface finish : 0.39 µm Ra
- Max. Cutting Speed : 210 mm²/Min

Features

- High-precision 5 axes CNC
- eWin CNC - Windows embedded CNC controller with TURBO motion control technology
- Capability of machining Poly-Crystalline Diamond
- Pulse Generator - Conforms to IEC 60204 standards
- FEA Verified Rugged Machine Tool
- ac² Pulse = ePulse + ae Pulse
- 16-step programmable flushing
- Windows-based ELCAM
- Ethernet for networking and remote monitoring
- Program transfer through USB and ethernet
- Auto power recovery
- Auto Wire Threading (optional)



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*The photos are only indicative. For details always refer specifications.