

Technical data

CUT 1000, CUT 1000 OilTech

CUT 1000 CUT 1000 OilTech		
Machine		
Type of machining		Submerged wire-cutting
Dimensions of the machine (*)	mm (in)	1400 x 1900 x 1970 (55 x 74.8 x 77.5)
Total weight of equipment (without dielectric)	kg (lbs)	2700 (5950)
X, Y, Z and U, V axes		
X, Y, Z travel	mm (in)	220 x 160 x 100 (8.66 x 6.3 x 3.93)
U, V travel	mm (in)	±40 (1.57)
Max. taper	°/mm (°/in)	3/80 (3/3.14)
Position measuring system		Linear glass scales
Measurement resolution	µm (in)	0.1 (0.000039)
Rapid movement	mm/min (in/min)	1–3000 (0.04–118)
Machining area		
Drop tank		Automatic
Max. workpiece dimensions (*)	mm (in)	300 x 200 x 80 (11.81 x 7.87 x 3.14)
Max. workpiece weight	kg (lbs)	35 (77)
Adjustment of dielectric level		Automatic
Clamping system		Closed clamping frame
Dimensions of table (**)	mm (in)	550 x 430 (21.65 x 16.93)
Wire circuit		
Wire spools		2 on the front panel
Accepted spool weight on front panel	kg (lbs)	1.6–8 (3.52–17.63)
Wire guides		1 set for all wire diameters 0.20–0.07 mm (0.0078–0.0027 in)
Wire diameters (standard)	mm (in)	0.20–0.07 (0.0078–0.0027)
Automatic threading for wire	mm (in)	0.20–0.07 (0.0078–0.0027)
Min. diameter of threading hole	mm (in)	Wire diameter + 50 µm (0.002 in)
Programmable wire unspooling speed	mm/s (in/s)	60–300 (2.36–11.81)
Programmable wire traction force	N	0.1–25
Dielectric		
Dielectric		Deionized water (CUT 1000 OilTech: oil)
Total volume of dielectric	l (US gallons)	420 (110)
Filtration cartridges		4
Dielectric temperature in clean dielectric tank	°C	20 ±0.1
Total volume of deionization resin	l (US gallons)	10 (2.62)

* Width x depth x height ** Width x depth

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Generator

Type	IPG-V (CUT 1000 OilTech: IPG-VO)	
Min. finishing (steel)	$\mu\text{m Ra}$ (μin)	0.05 (2), CUT 1000 OilTech: 0.05 (2)
Min. finishing (carbide)	$\mu\text{m Ra}$ (μin)	0.05 (2), CUT 1000 OilTech: 0.03 (1.2)
Three-phase input voltage	V	380/400
Consumption	kVA	7.3
Temperature for max. accuracy	$^{\circ}\text{C}$	20 ± 1
Operating temperature of the equipment	$^{\circ}\text{C}$	$\leq 0.5/\text{Hour} - 1/\text{Day}$

Numerical control

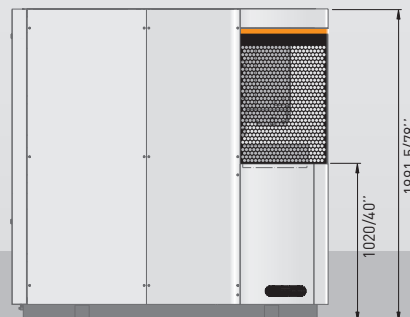
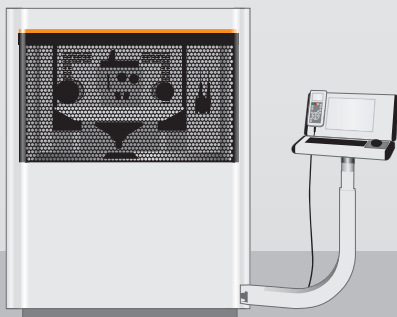
Architecture	PC multiprocessors	CD-Rom	Standard
HMI	VISION	Hard disk capacity	Min. 80 GB
Screen	LCD 15" TFT/Touch screen	RAM	1024 MB
Keyboard	PC style	Operating system	Windows XP

Options

F20 Fine wire module (incl. automatic threading)	Wire diameter 0.20 – 0.02 mm (0.0078 – 0.00078 in)
3D SETUP	Measuring probe and pickup cycles

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Fire detection system	Standard
Fire extinguishing system	Option



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