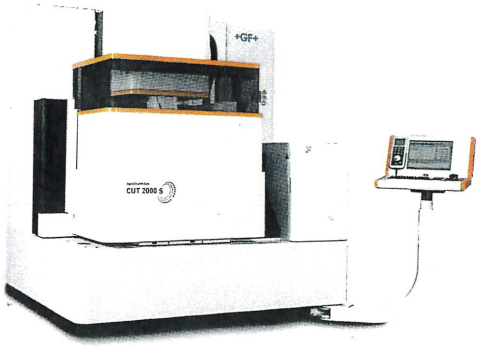
Technical specifications



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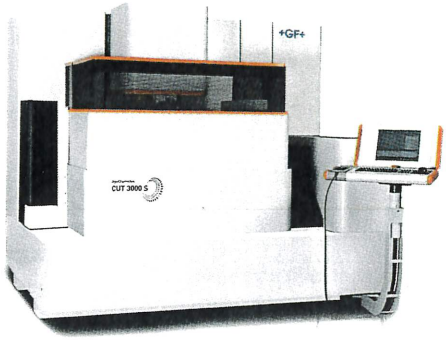

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		CUT 2000 S	CUT 3000 S
Wire guide			
Wire guides, standard equipment	Ø mm (in)	0.10 – 0.30 (0.004 – 0.012)	0.10 – 0.30 (0.004 – 0.012)
Wire guides (option)	Ø mm (in)	0.05 – 0.07 (0.002 – 0.003)	0.05 – 0.07 (0.002 – 0.003)
Automatic wire changer (AWC)		Option	Option
Threading Expert		Option	Option
Travels			
X, Y, Z axes	mm (in)	350 x 250 x 256 (13.77 x 9.84 x 10)	500 x 350 x 256 (19.7 x 13.77 x 10)
U, V axes	mm (in)	±70 (±2.7)	±70 (±2.7)
Max. taper angle	°/mm (°/in)	30 / 100 (30 / 3.93)	30 / 100 (30 / 3.93)
Max. speed X, Y	m/min.	3	3
Dual measuring system for X, Y		Option	Option
Workpiece			
Max. workpiece dimensions (*)	mm (in)	750 x 550 x 250 (29.5 x 21.6 x 9.8)	1050 x 650 x 250 (41.3 x 25.6 x 9.8)
Max. workpiece weight with bath/without bath	kg (lbs)	200 / 450 (440 / 992.08)	400 / 800 (880 / 1763.70)
Max. cutting rate with CCS Ø 0.30 mm wire	mm^2/min. (in^2/h)	300 (28)	300 (28)
Surface finish	µm Ra (µin)	0.08 (3)	0.08 (3)
Threading system			
Threadable height	mm (in)	250 (9.84)	250 (9.84)
Threading nozzle	Ø mm / Ø in	2 (0.6 option)/0.078 (0.023 option)	2 (0.6 option)/0.078 (0.023 option)
Combination wire guide system	"V" guide Toroid guide	Cylindrical – 2° 2° – 30°	Cylindrical – 2° 2° – 30°
Increased accuracy in tapered cut (CONIC PLUS)		Option	Option
Wire drive, wire spool	kg (lbs)	25 (55.11)	25 (55.11)
Wire disposal		Chopper	Chopper
Work area			
Accessibility		front / left / right	front / left / right
Universal clamping frame	mm (in)	700 x 450 (27.56 x 17.72)	850 x 450 (33.46 x 17.72)
Drop tank		Automatic	Automatic
Machining in bath, level regulation automatic	mm (in)	0 – 250 (0 – 9.84)	0 – 250 (0 – 9.84)
High power generator	~ A	IPG-V	IPG-V
Wide range of tested tech. for common users workpiece materials, technology modules		Standard	Standard
DCC (Dynamic Corner Control): Dynamic path optimisation and process adaptation in the radii		Standard	Standard
WBC (Wire Bending Control): Real time detection and correction of the wire bending		Standard	Standard
Real time detection of the workpiece cross section and automatic power optimisation (VARIOCUT)		Standard	Standard
Correction of the cylindrical residual error, AWO (Advanced Wire Offset)		Standard	Standard

* Width x depth x height

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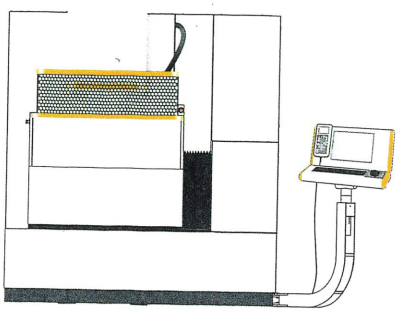
Dielectric conditioning unit			
Dielectric conditioning unit integrated	l (us gal)	700 (180)	1000 (264)
Filter, 4 canisters with 8 cartridge filters		Standard	Standard
Filtrate quality	µm (µin)	5 (197)	5 (197)
Deionizing			
Resin (option)	l (us gal)	20 (5)	20 (5)
Cooling			
Generator and control unit with air / water, and dielectric with two water / water heat exchangers		Standard	Standard
System			
System dimensions (*)	mm (in)	2095 x 1950 x 2232 (83 x 77 x 88)	2685 x 2115 x 2232 (106 x 83 x 88)
Floor-to-clamping plane distance	mm (in)	1100 (43)	1100 (43)
Net weight	kg (lbs)	3600 (7940)	4500 (9920)
Weight ready-to-run	kg (lbs)	4500 (9920)	6000 (13200)

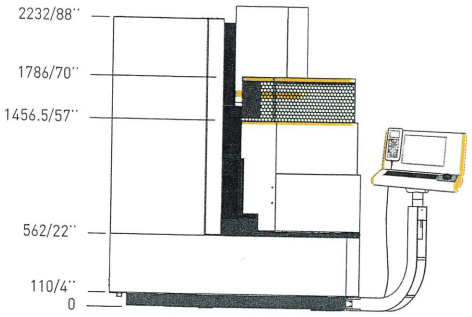
Control unit integrated, modules and functions	
Operator interface system	15"– LCD-display, keyboard and mouse
Control unit integrated	VISION 5 (object oriented man-machine interface)
Operating system	Multitasking Windows XP
Operating mode	Multiprocessor
Supplementary servocontrolled axis	A axis
Smallest programmable step	0.0001 mm (0.000004 in)
Easy preparation of machining programs	EASYWORK
Pickup cycles for automatic determination of workpiece position	2D SETUP
Pickup cycles for automatic determination of workpiece plane and position	3D SETUP (option)
Automatic technology selection based on machining objectives	TECCUT
Automatic optical measuring system	IVU Advance
Import of job-specific data from CAD / CAM systems	CAMLINK
Predefined machining strategies	AUTO SEQUENCE
Predefined and user defined machining strategies	USER SEQUENCE
Simple 2D on-board geometry programming and import of DXF and IGES files	GEOCONVERTER
Quickly insert rush orders without effort	PIECE INSERT
DNC port with Xon / Xoff and LSV2 protocols	DNC
Help functions, explanations with text and graphics	HELP and online manual
Machining simulation 2D and 3D view	GRAFICHECK
Maximum safety through continuous data input	FORMALCHECK and data input Protocol
Easy preparation of job templates	WORKMODEL
Automatic machining sequence definition for multiple workpieces	LOTTO
Rethreading on wire break/on "no- thread" detection restart after power failure	Rescue strategies
Languages	English, CN, CZ, DE, DK, ES, FR, HU, IT, JP, NL, PL, RU, US, SE
Storage capacity	> 20 GB HD, 512 MB Ram
Interfaces	2x RS232C, 1x parallel, 1x LAN (Local Area Network), 1x USB
Data storage media	CD/DVD-Rom for updates and online manual, floppy-disk, USB

Interface for automation	
Basic equipment for handling devices	AUTOMATION KIT
Communication interface for cell computer connection	HOSTCONTROL

Connections		
Line power	kW	10.5
Line voltage	V	3 x 400
Compressed air		6 bar, 5 m^3/h (85 psi, 6.54 yd^3/h)
Cooling capacity required	kW	1.5 – 7.5

* Width x depth x height





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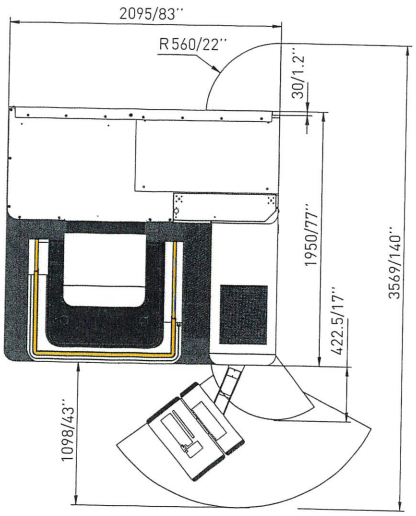

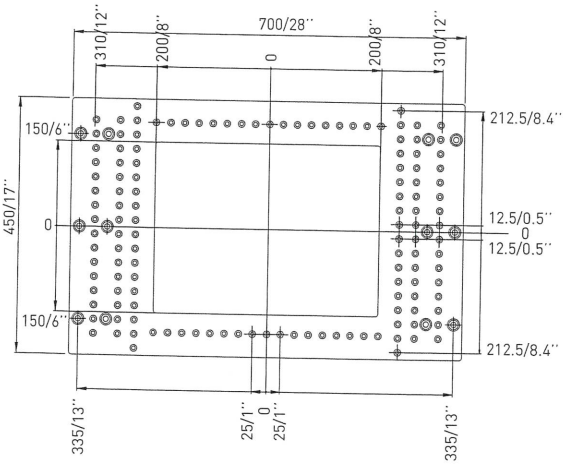

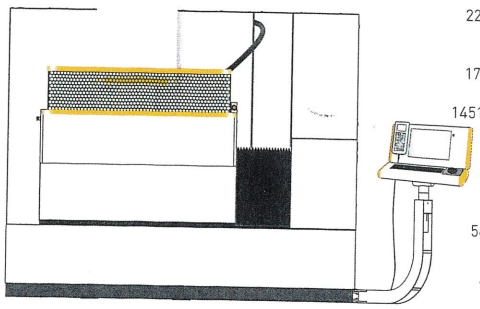

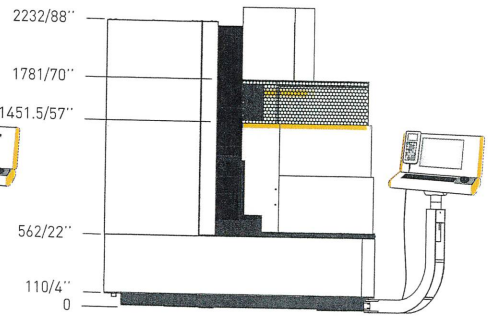

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