

Technical Data

CUT 2000 S, CUT 3000 S

		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		Standard	Standard
Workpiece			
Max. workpiece dimensions (width x depth x height)	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)	0.05 (2)	0.05 (2)
Threading system			
Threadable height	mm (in)	250 (9.84)	250 (9.84)
Threading nozzle	Ø mm	2 (0.6 option)	2 (0.6 option)
	Ø in	0.078 (0.023 option)	0.078 (0.023 option)
Combination wire guide system	"V" guide	Cylindrical – 2°	Cylindrical – 2°
	Toroid guide	2° – 30°	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):		Standard	Standard
Dynamic path optimisation and process adaptation in the radii			
WBC (Wire Bending Control):		Standard	Standard
Real time detection and correction of the wire bending			
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

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)
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Cooling

Generator and control unit with air/water, and dielectric with two water/water heat exchangers		Standard	Standard
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System

System dimensions (width x depth x height)	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

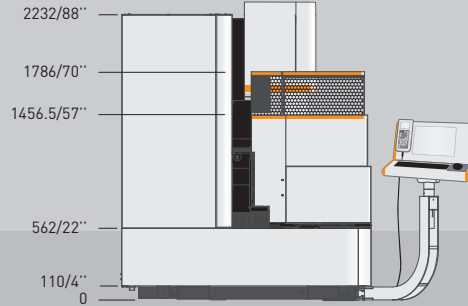
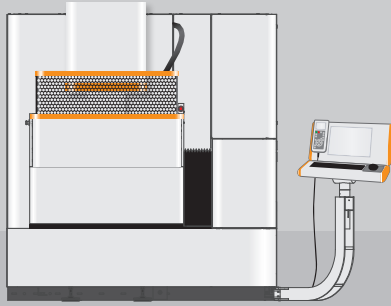
Operator interface system	15" – LCD-display, keyboard and mouse		
Control unit integrated	VISION 5 (object oriented man-machine interface)		
Operating system	Multitasking Windows XP		
Operating mode	Multiprocessor		
Supplementary servocontrolled axis	A axis		
Smallest programmable step	0.0001 mm (0.000004 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	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

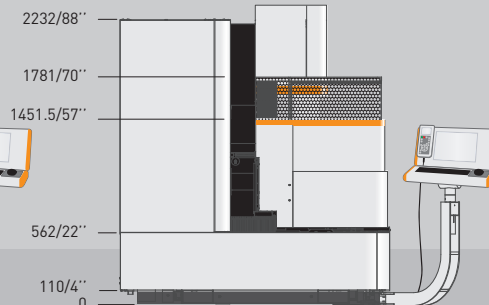
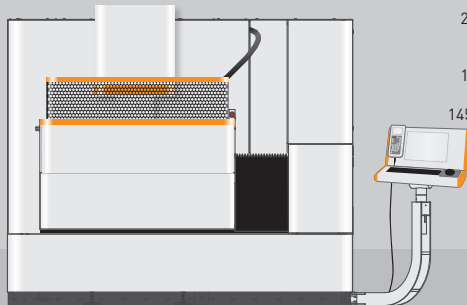
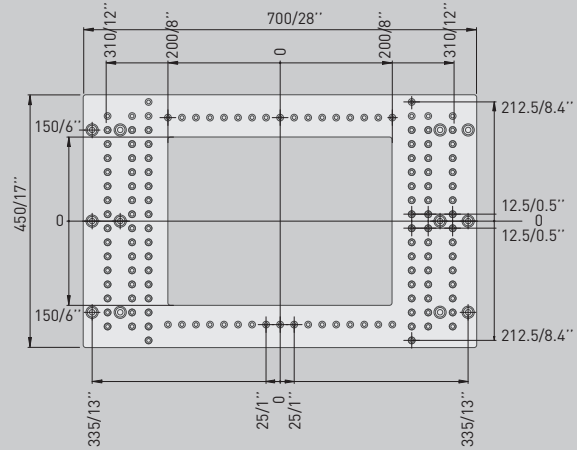
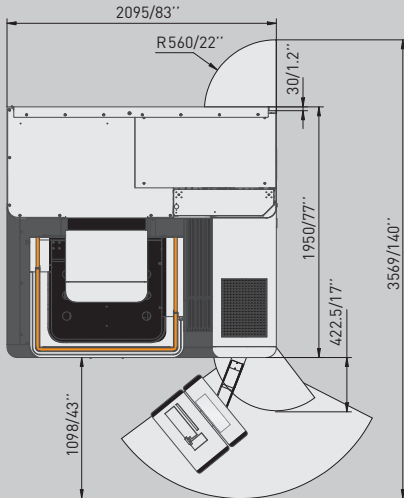
Basic equipment for handling devices	AUTOMATION
Communication interface for handling devices	ROBOTCOMMAND
Communication interface for cell computer connection	HOSTCONTROL

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



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