

Technical data



CUT P 350



CUT P 550



CUT P 800



CUT P 1250

		CUT P 350	CUT P 550	CUT P 800	CUT P 1250
Machine					
Type of machining		Submerged wire-cutting	Submerged wire-cutting	Submerged wire-cutting	Submerged wire-cutting
Dimensions of complete equipment (*)	mm (in)	2050 x 2234 x 2154 (80.71 x 87.95 x 84.80)	2600 x 2640 x 2340 (102.36 x 103.94 x 92.13)	2670 x 2870 x 2645 (105.12 x 112.99 x 104.13)	4851 x 4185 x 3725 (190.98 x 164.76 x 146.65)
Total weight of equipment (without dielectric)	kg (lbs)	2450 (5401)	3300 (7275)	6300 (13860)	17000 (37479)
Machining area					
Vertical sliding door		Automatic	Automatic	Automatic	Automatic
Max. workpiece dimensions (*)	mm (in)	1000 x 550 x 220 (39.37 x 21.65 x 8.66)	1200 x 700 x 400 (47.24 x 27.56 x 15.75)	1300 x 950 x 510 (51.18 x 37.40 x 20.07)	2300 x 1300 x 750 (90.55 x 51.18 x 20.07)
Top load					
Max. workpiece dimensions (*)	mm (in)	800 x 550 x 220 (31.50 x 21.65 x 8.66)	1000 x 700 x 400 (39.37 x 27.56 x 15.75)		
Front load					
Max. workpiece weight	kg (lbs)	750 (1653)	1500 (3307)	3000 (6614)	6000 (13228)
Dimensions of table (**)	mm (in)	680 x 450 (26.77 x 17.72)	900 x 600 (35.43 x 23.62)	1240 x 800 (48.8 x 31.5)	1956 x 1324 (77 x 52.13)
Floor-to-table distance	mm (in)	1000 (39.37)	1000 (39.37)	1000 (39.37)	1300 (51.18)
Total volume of dielectric	l (gal)	700 (185)	1300 (344)	1700 (450)	5000 (1321)
X, Y, Z and U, V axes					
X, Y, Z travel (*)	mm (in)	350 x 220 x 220 (13.77 x 8.66 x 8.66)	550 x 350 x 400 (21.65 x 13.77 x 15.75)	800 x 550 x 510 (31.5 x 21.65 x 20.07)	1250 x 850 x 700 (49.21 x 33.46 x 20.08)
U, V travel (**)	mm (in)	350 x 220 (13.77 x 8.66)	550 x 350 (21.65 x 13.77)	800 x 550 (31.5 x 21.65)	1250 x 850 (49.21 x 33.46)
Max. Speed (X, Y and U, V axes)	m/min	3 (9.8 ft/min)	3 (9.8 ft/min)	3 (9.8 ft/min)	3 (9.8 ft/min)
Integrated Collision Protection (ICP)		Standard on 5 axes	Standard on 5 axes	Standard on 5 axes	Standard on 5 axes
Taper machining					
Max. taper	°/mm	± 45/220 (± 30/220 standard)	± 45/400 (± 30/400 standard)	± 45/510 (± 30/510 standard)	± 30°/800
	°/in	± 45/8.66 (± 30/8.66 standard)	± 45/15.75 (± 30/15.75 standard)	± 45/20.07 (± 30/20.07 standard)	± 30°/31.5
Electricity supply (machine)					
Three-phase input voltage	V	380/400	380/400	380/400	380/400
Maximum consumption	kVA	11	11	11	11

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Dielectric

Paper filters		CUT P 350 / CUT P 550 / CUT P 800: 2 cartridges (option 4 cartridges) CUT P 1250: 6 cartridges
Temperature control of clean water tank	°C	± 0.1 (± 2 °F)
Total volume of deionization resin (option)	l	20 (5.3 gal)
Max. injection pressure	bar	20

IPG Generator

Protection against electrolytic effects		From roughing through to finishing
Max. cutting speed	mm ² /min	400 (37.7 in ² /hour)
Min. finishing	µm Ra	0.1 (4 µ-inch RMS)

Numerical control

Position measurement system / measurement resolution		Linear glass scales / 0.050 µm (0.000002 in.)
Architecture		PC multiprocessors
Operating system		Windows
Screen		LCD 19" TFT touch screen
Keyboard, mouse		Touch screen, yes
Remote control		Standard
Part program capacity		4 MB
Ethernet, USB ports		Standard

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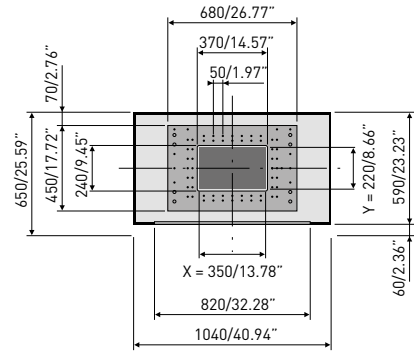
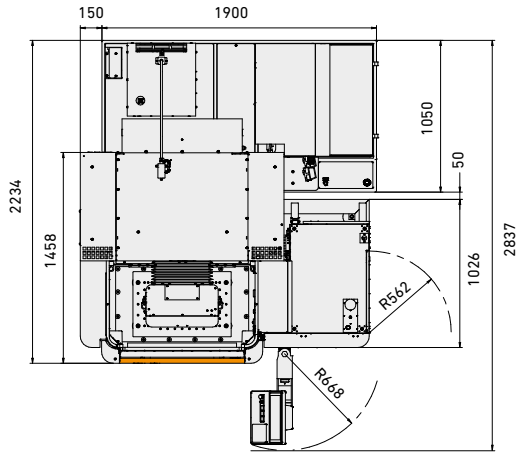
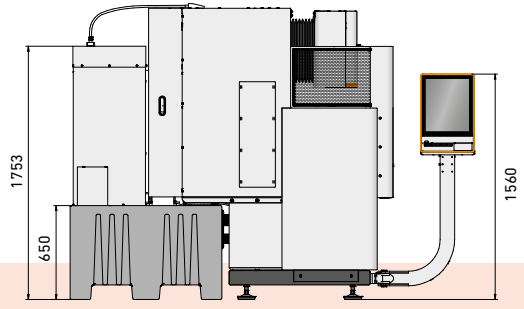
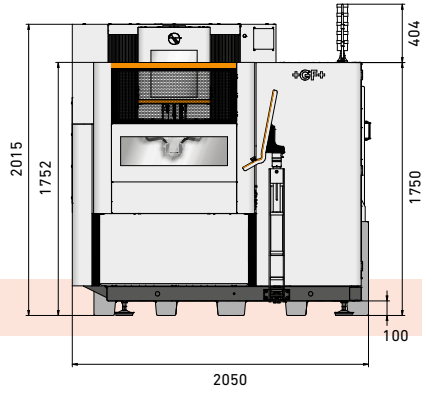
Wire circuit

Wire diameters available	mm	0.33 to 0.070 (standard: 0.33 to 0.15)	0.30 to 0.20	0.33 to 0.25
Type of wire guides		Closed diamond type without clearance	Closed diamond type without clearance	
Permissible weights and types of spool (ISO standards)	kg	1.6 (K100) to 8 (K160)	25 (K250)	1.6 - 25 kg
Permissible weights and types of spool (JIS standards)	kg	3 (P3) to 5 (P5)	3 (P3) to 5 (P5)	
Programmable wire tension	daN	0.3 to 3	0.3 to 3	0.3 to 3
Automatic threading for wire	mm	0.33 to 0.070 (0.33 to 0.15 standard)	0.30 to 0.20	0.33 to 0.25
Automatic rethreading for wire	mm	0.33 to 0.070 (0.33 to 0.15 standard)	0.30 to 0.20	0.33 to 0.25

Options

Thermostabilization		Water in machine basis / Air in cabine (UV axis)	Water in machine basis / Air in cabine (UV axis)	—
Large spools	kg (lbs)	16 (35.2) K200, 25 (55) K250	Standard	Standard
TAPER-EXPERT		Advance	Advance	Advance
e-Connectivity		Option	Option	Option
Extended taper cutting		From 30° to 45°	From 30° to 45°	—
Used wire processing		Wire chopper	Standard	Standard
Rotating axes		Index or servo-control	—	—
Automatic Part Leveling		3D SETUP	—	—
Optical measuring system		OMS	—	—
3D probing		Renishaw probe	Renishaw probe	—
Alarm lamp		Four color stack light	Four color stack light	Four color stack light
Advanced accuracy		< ± 2 µm positioning	< ± 2 µm positioning	—
Automatic slug management		Option	Option	—
E-tracking		Option	Option	Option
Centralized automatic greasing		Manual (std) Automatic (option)	Manual (std) Automatic (option)	—
High speed kit		Option	Option	—

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