

Technical Data

FO 350 SP, FO 550 SP

		FO 350 SP	FO 550 SP
Machine			
Architecture		Compact machine with fixed table	
Dimensions (*)	mm	1900 x 1690 x 2522	3040 x 2830 x 2960
	in	74.80 x 66.54 x 99.29	119.68 x 111.41 x 116.53
Total weight (without dielectric)	kg (lbs)	2800 (6200)	4500 (9920)
Complies with "Machines, Safety and Health" directive		89/392/CEE	89/392/CEE
Complies with "Electromagnetic Compatibility" directive		89/336/CEE	89/336/CEE
X, Y, Z axes			
X, Y, Z travel	mm (in)	350 x 250 x 300 (13.78 x 9.84 x 11.81)	600 x 400 x 450 (23.62 x 15.74 x 17.72)
Movement measurement system		Linear glass scales	Linear glass scales
X, Y, Z measurement resolution	nm (in)	50 (0.000002)	50 (0.000002)
Work area			
Tank type		Drop tank	Drop tank
Tank dimensions (*)	mm (in)	800 x 550 x 370 (31.50 x 21.65 x 14.57)	1220 x 870 x 470 (48.03 x 34.25 x 18.50)
Min./max. dielectric level	mm (in)	100/325 (3.94/12.80) programmable	145/440 (5.7/17.32) programmable
Table dimensions (**)	mm (in)	500 x 400 (19.69 x 15.75)	750 x 600 (29.53 x 23.62)
T-slot dimensions [number]	mm (in)	12 (0.47) [3]	12 (0.47) [5]
Electrode and workpiece			
Max. electrode weight	kg (lbs)	50 (110)	100 (220)
Max. workpiece weight	kg (lbs)	500 (1100)	1600 (3530)
Max. workpiece dimensions (*)	mm (in)	780 x 530 x 300 (30.71 x 20.87 x 11.81)	1200 x 850 x 400 (47.24 x 33.46 x 15.75)
Min./max. distance between table and chuck	mm (in)	150/450 (5.91/17.72)	150/600 (5.91/23.62)
Dielectric system			
Filter type (built-in paper cartridges)		4	8
Reservoir volume	l (gal)	410 (108)	820 (216)
Generator			
Type		ISOPULSE	ISOPULSE
Standard machining current	A	64 (128 ***)	64 (128 ***)
Power supply			
Three-phase input voltage	V	400	400
Main network frequency	Hz	50 or 60	50 or 60
Expert Systems (FO 350 SP / FO 550 SP)			
PILOT-EXPERT 4: optimisation and automatic monitoring of machining parameters			Standard
POWER CONTROL EXPERT: machining current, self-adapting according to electrode geometry			Standard
SPAC: protection against short circuits (CT patent)			Standard
TRANS-EXPERT: automatic optimisation of planetary translations depending on the geometry of the electrode			Standard

* Width x depth x height ** Width x depth *** Option

Modules

		Standard	Accura-C
C axis (***)	Max. electrode inertia	2000 kgcm ² (683 lbsin ²)	5000 kgcm ² (1708 lbsin ²)
	Measurement resolution	0.001°	0.0001°
	Electrode weight	25 kg (55 lbs)	50 kg (110 lbs)
Spindle chuck (***)	System 3R	Macro/Combi	
	Erowa	ITS/ITS-Compact	
	Hirschmann	H8.11.7	
Tool changer (***)	Linear (standard tooling)	4 (FO 350 SP)/6 (FO 550 SP) positions	
	Linear (Combi tooling)	5 (FO 350 SP)/6 (FO 550 SP) positions	
	Rotary (standard tooling)	16-80 positions	
	Rotary (Combi tooling)	30-160 positions	
Thermo stabilisation table + cabin		Option (FO 350 SP), option (FO 550 SP)	
Autoscan (only with 3R chip)		Option	
Multicavity flushing (***)		6 outputs	
Additional power module (***)		64 A	
Adapter kit for external robot		Option	
e-ConnecT		Option	
e-Control, e-Supervision		Option	
Programming system on PC		Standard	
Autorestart		Standard	
High Speed EDM (FO 550 SP)		Standard: up to 6 m/min (19.7 ft/min) – up to 1 m/s ² (3.3 ft/s ²)	
High Speed EDM 2 (FO 350 SP)		Standard: up to 15 m/min (49.2 ft/min) – up to 5 m/s ² (16.4 ft/s ²)	
Speed Finishing		Standard	
iQ module: wear free ED machining with graphite electrode		Option	

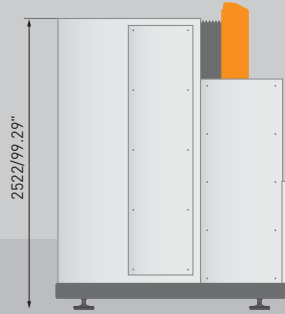
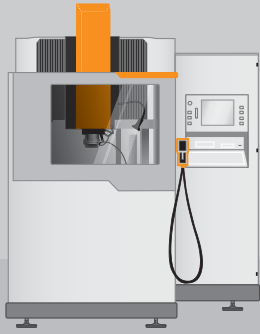
Numerical control

Architecture	PC multiprocessors
Operating system	Windows
Processor	Pentium® 1.6 GHz
RAM memory	512 MB
Screen	LCD 12" TFT
Data input	Touch screen – keyboard
Keyboard	PC-style alphanumeric standard
Remote control	Standard
Hard drive	40 GB
CD-ROM drive	Standard
PCMCIA Port, Ethernet RJ45, USB (x2)	Standard

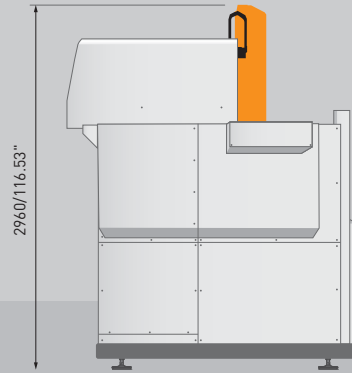
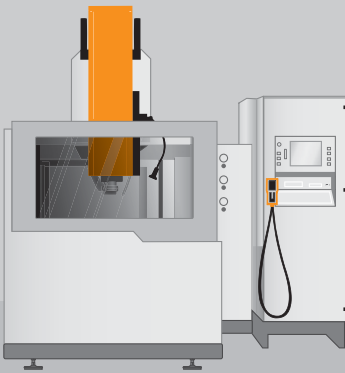
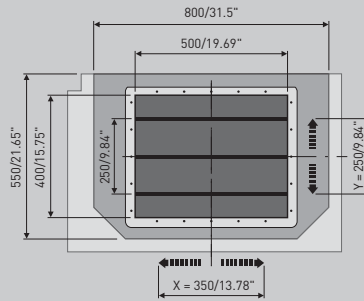
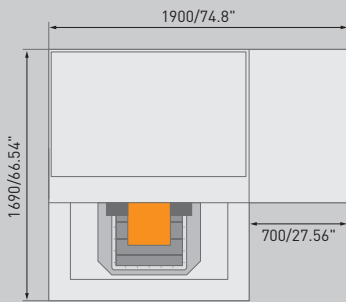
DPControl functions

Automatic measurement cycles for workpieces and electrodes
Importation of measurement results from preset station
3D machining cycles with geometrical pattern
Multicycle
Machining strategy for all combinations of materials
Dedicated technologies for each type of application
Aid to define undersize and number of electrodes
Machining sequencing assistant according to manufacturing priorities
Graphic machining simulation and graphic follow-up
Machining report for each job execution
Job List – Management of pending jobs by order of priority
Part Express – Instant insertion of urgent jobs
Contextual aid with graphics explanations
Online documentation (e-Doc) on the use of the machine
Self-Cell Management (SCM): automated cell management

*** Option



FO 350 SP



FO 550 SP

