

ROBOFORM 350

Step into a dynamic manufacturing**TECHNICAL SPECIFICATIONS**

Machine

X, Y, Z axes

Work area

Electrode and workpiece

Dielectric system

Modules

Power supply

Generator

Numerical control

DPControl functions



Equipment layout

Machine

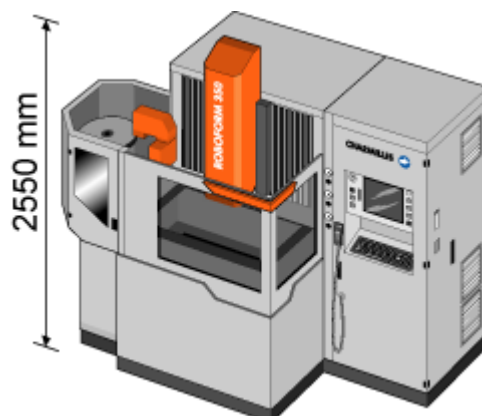
Architecture		Compact machine with fixed table
Dimensions (Width x depth x height)	mm	1900 x 1690 x 2550
Total weight (without dielectric)	kg	2800
Complies with "Machines, Safety and Health" directive		89/392/CEE
Complies with "Electromagnetic Compatibility" directive		89/336/CEE
X, Y, Z axes		
X, Y, Z travel	mm	350 x 250 x 300
Movement measurement system		linear glass scale
X, Y, Z measurement resolution	mm	0.0001
Work area		
Tank type		Drop tank
Tank dimensions (Width x depth x height)	mm	800 x 550 x 370
Min./max. dielectric level	mm	100/325 programmable
Table dimensions	mm	500 x 400
T-slot dimensions (number)	mm	12 (3)
Electrode and workpiece		
Max. electrode weight	kg	50
Max. workpiece weight	kg	500
Max. workpiece dimensions (Width x depth x height)	mm	780 x 530 x 300
Min./max. distance between table and chuck	mm	150/450

Dielectric system		
Filter type		4 built in paper cartridges
Reservoir capacity	l	410
Modules		
C axis (optional)	Max. electrode inertia	kg x cm ² 2000
	Measurement resolution	degree 0.001
Spindle chuck (optional)	System 3R Mecatool Erowa Hirschmann	Macro/Combi GPS70 ITS/ITS-Compact H8.11.7
Tool changer (optional)	Linear (standard tooling) Linear (Combi tooling) Rotary (standard tooling) Rotary (Combi tooling)	4 pos Ø75 x 425 mm 5 pos Ø60 x 425 mm 16 pos Ø75 x 250 mm 32 pos Ø36 x 250 mm
Multicavity flushing (optional)		6 outputs
Additional power module		-
Adapter kit for external robot		optional
K-HM		optional
e Connect		optional
Programming system on PC		standard
Autorestart		standard
HS-EDM		standard
Power supply		
Incoming 3 phase voltage	V	400
Main network frequency	Hz	50 or 60
Generator		
Type		ISOPULSE
Standard machining current	A	64
Minimum surface roughness	µm Ra	0.20
PILOT-EXPERT 2 and 3: Optimization and automatic monitoring of machining parameters		
		Standard
POWER CONTROL EXPERT: Machining current, self-adapting according to electrode geometry		
		Standard
MICRO-MACHINING: Monitors electrode wear in applications of small dimensions		
		Standard
SPAC®: Protection against short circuits (CT patent)		
		Standard
Numerical control		
Architecture		PC multiprocessors
Operating system		Windows
Processor		Pentium
Screen		LCD 12" TFT
Data input		Touch screen - Keyboard
Keyboard		PC-style alphanumeric Standard

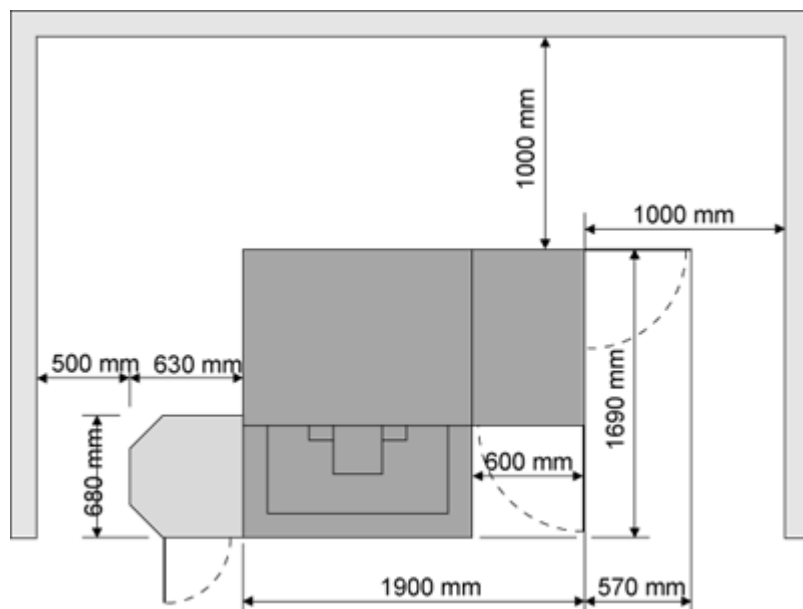
Remote control	Standard
Hard drive	10 GB
Floppy disk	1.44 MB
CD-ROM drive	Standard
PCMCIA Port, Ethernet RJ45, Parallel, RS 232C Series	Standard
DPControl functions	
D-JOB (Direct-Job) for machining simple jobs	
Interactive graphics assistant for simpler data input	
Automatic measurement cycles for workpieces and electrodes	
Importation of measurement results from preset station	
3D machining cycles with geometrical pattern	
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	
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	
Embedded documentation (e-doc) on the use of the machine	

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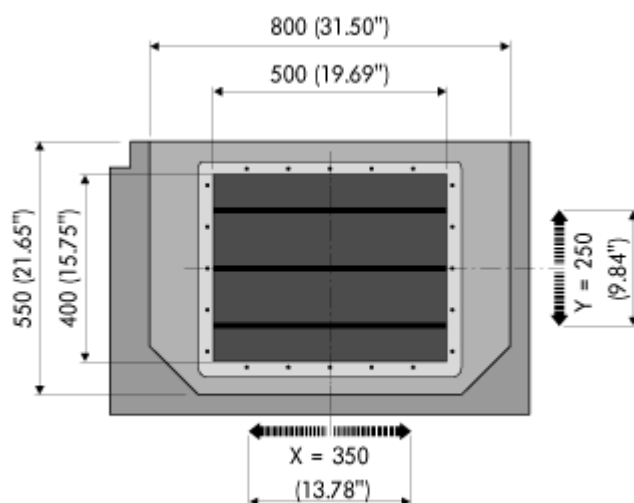
ROBOFORM 350



ROBOFORM 350 layout



ROBOFORM 350 work area



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last update:10.11.2005.