

ROBOFORM 550

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

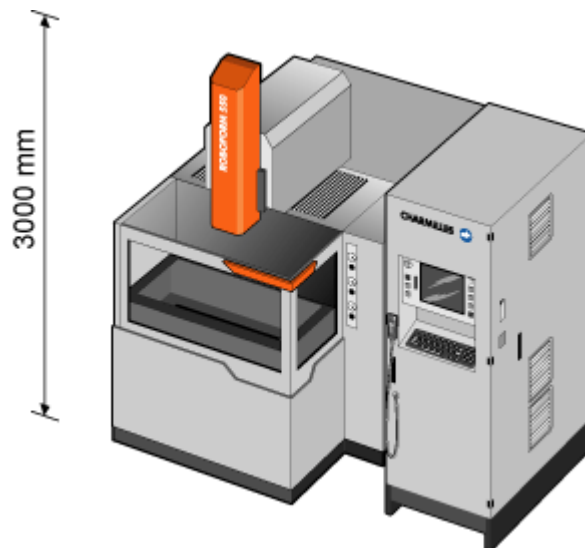
Machine

Architecture		Compact machine with fixed table
Dimensions without Rotary changer (Width x depth x height)	mm	2750 x 2720 x 3000
Dimensions with Rotary changer (Width x depth x height)	mm	3600 x 2720 x 3000
Total weight (without dielectric)	kg	4400
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	600 x 400 x 450
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	1220 x 870 x 470
Min./max. dielectric level	mm	145/440 programmable
Table dimensions	mm	750 x 600
T-slot dimensions (number)	mm	12 (5)

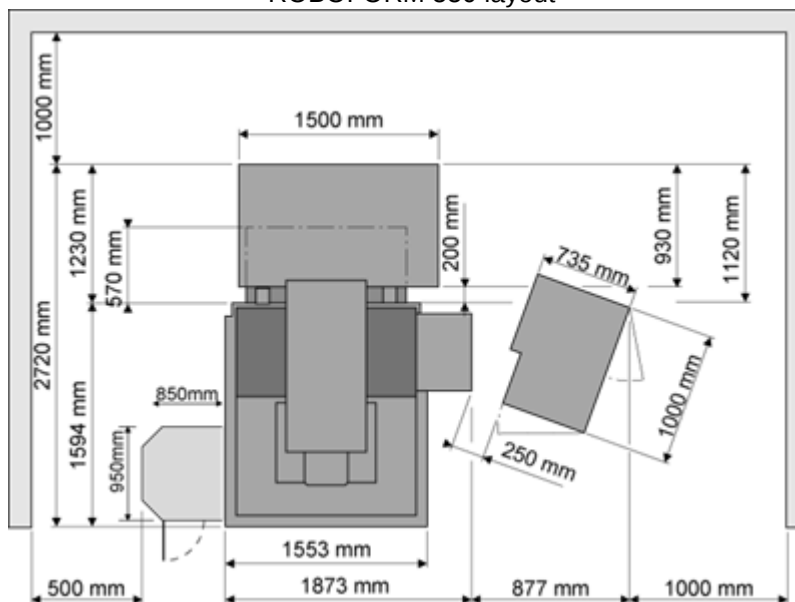
Electrode and workpiece			
Max. electrode weight		kg	100
Max. workpiece weight		kg	1600
Max. workpiece dimensions (Width x depth x height)		mm	1200 x 850 x 400
Min./max. distance between table and chuck		mm	150/600
Dielectric system			
Filter type			8 built in paper cartridges
Reservoir capacity		l	820
Modules			
C axis (optional)	Max. electrode inertia	kg x cm ²	2000
	Measurement resolution	degree	0.001
Spindle chuck (optional)	System 3R		Macro/Combi
	Mecatool		GPS70
	Erowa		ITS/ITS-Compact
	Hirschmann		H8.11.7
Tool changer (optional)	Linear (standard tooling)		6 pos Ø70 x 425 mm
	Linear (Combi tooling)		6 pos Ø60 x 425 mm
	Rotary (standard tooling)		16 pos Ø75 x 250 mm
	Rotary (Combi tooling)		32 pos Ø36 x 250 mm
Multicavity flushing (optional)		A	6 outputs
Additional power module		optional	
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			Standard

patent)	
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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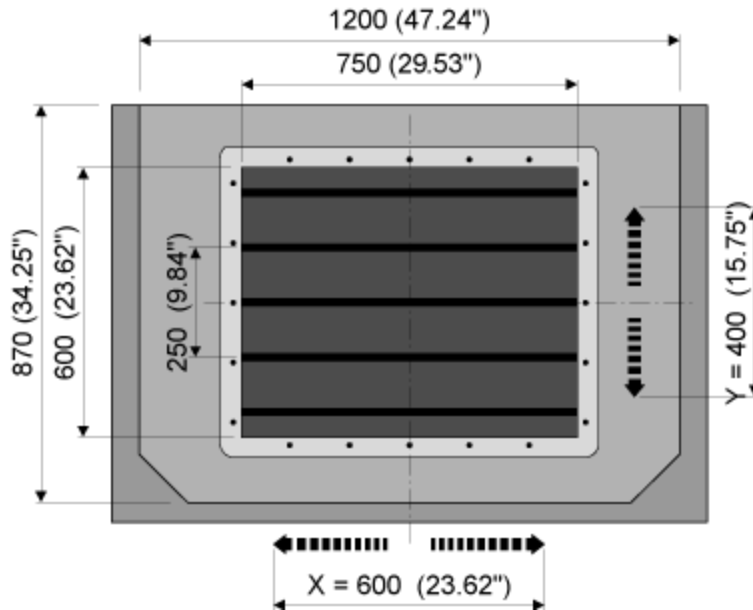
ROBOFORM 550



ROBOFORM 550 layout



ROBOFORM 550 work area



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