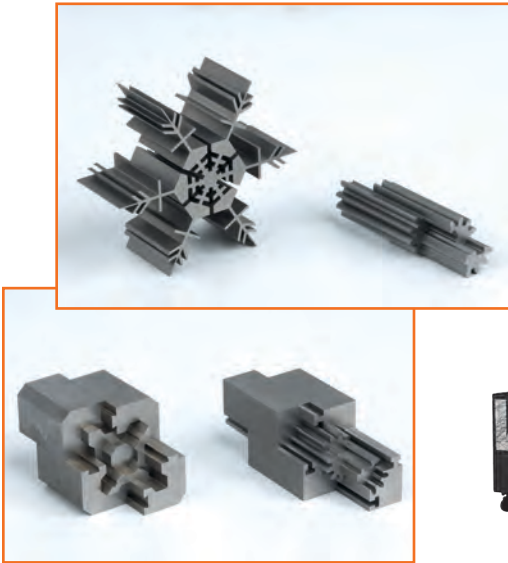




# CNC wire EDM machine

## W-EDM S CNC

Highly effective wire with water bath



### Standard configuration

- Windows based PC control
- Automatic wire orientation (vertical)
- Linear scales for X/Y/Z-axis
- Diamond wire guides Ø 0.25 mm (0.01")
- Copper wire Ø 0.25 mm (0.01"), 5 kg (11lbs)
- Work light
- High-performance pump (basic fos)
- Stainless steel water tank with paper filter unit and resin cartridges
- Tool kit
- Operation manual

### Optional configuration:

- Automatic wire threading (AWT)
- Automatic voltage regulation (AVR)
- Axis of rotation (B-axis)
- Dielectric cooling system
- CAD/CAM Software
- Diamond wire guides Ø 0.15, 0.2, 0.3 mm (0.006, 0.008, 0.012")
- Wire running system designed for 15 kg (33 lbs) coil

Specifications		W-EDM S CNC					
		325 13" x 9"	530 20" x 12"	540 20" x 16"	645 24" x 18"	1270 47" x 27"	
Max. workpiece dimensions	mm	700x450x180 (27.5x17.7x7.1")	850x500x200 (33.5x19.7x7.9")	1000x800x250 (39.4x31.5x9.8")	1100x800x250 (43.3x31.5x9.8")	1600x1000x310 (63x39.4x12")	
Max. table load capacity	kg	350 (770 lbs)	350 (770 lbs)	500 (1,100 lbs)	500 (1,100 lbs)	1500 (3,300 lbs)	
Axis travel:	X/Y	mm	350/250 (13.5/9.5")	500/300 (19.7/11.8")	500/400 (19.7/15.7")	600/450 (23.6/17.7")	1200/700 (47.2/27.5")
	U/V	mm	50/50 (2/2")	80/80 (3.1/3.1")	100/100 (3.9/3.9")	100/100 (3.9/3.9")	150/150 (5.8/5.8")
	Z	mm	200 (7.9")	250 (9.8")	300 (11.8")	300 (11.8")	350 (13.8")
Feed rate X/Y-axis	mm/min	800 (31.5"/min)					
Wire diameter	mm	0.15–0.30 (standard) (0.006–0.012")					
Wire tension	N	20					
Max. cutting angle	mm	±15°/60					
Max. wire speed	mm/sec	400 (15.7"/sec)					
Dimensions (L/W/H)	mm	2800x2800x2400 (110x110x94")	2800x2800x2500 (110x110x98")	3400x3600x2600 (134x142x102")	3400x3500x2500 (134x138x98")	5300x5000x2800 (209x197x110")	
Weight	kg	2000 (4,400 lbs)	2800 (6,160 lbs)	3800 (8,360 lbs)	3800 (8,360 lbs)	7000 (15,400 lbs)	
<b>FILTRATION SYSTEM</b>							
Tank capacity	l	630 (166 gal)	770 (203 gal)	1350 (356 gal)	1450 (383 gal)	4800 (1,267 gal)	
Filtration system		Paper Filter					
Ionization tank	l	10 (3 gal)					
Fluid quality control		Auto					
Fluid temperature control		Auto					
Item No.		<b>4530009</b>	<b>4530020</b>	<b>4530021</b>	<b>4530022</b>	<b>4530008</b>	

\*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.



## High-performance wire EDM machine for the production of high-precision molds and electrodes

- Very good surface quality with modern cutting technology
- Copy, turn, flip, scale, rotate
- Automatic dielectric monitoring
- Automatic adjustment of the dielectric filling level corresponding to the height of the work piece
- High-precision direct drive ball screws (class C1) and linear guideways in all axes
- Travel dependent automatic lubrication of the X and Y-axis guides
- Work table and dielectric tank made of stainless steel
- Fast underwater cutting of work pieces with a thickness of up to 450 mm (17.7")
- Substantial saving of working time through the use of automatic wire control system (AWT) [option]
- High-quality, automatic wire threading (copper wire  $\varnothing$  0.15 - 0.3 mm ( $\varnothing$  0.006–0.012")) with a water jet of 1 mm ( $\varnothing$  0.04) diameter
- Key components imported from Japan and Switzerland

### Control functions

- Windows based clear and user-friendly interface
- Powerful 64-bit CNC controller with 2D/3D graphics
- Six-axis machining of the most complex forms possible
- Simultaneously controlled X, Y, U, V and B-axis
- 15" touch screen LCD display and keypad
- Simulation mode and diagnostics by default
- Import DXF files
- Automatic control of the last position after program interruption
- Parallel programming possible during automatic operation
- Multiple connectors: USB, RS-232, Ethernet ensures fast data transfer
- Online status monitoring via the Internet
- Automatic corner control function for high geometric accuracies
- Automatic monitoring of the wire tension
- Automatic emergency shutdown
- Consumables warning
- Warning messages and help function
- Finest eroding cycles [option]



CNC-controller		
System	Pentium 2 IPC	
RAM	256 MB DOM	
Display	15" TFT LCD	
Data input	Keyboard, RS-232, USB, Ethernet	
Number of axes	5	
Min. input resolution	0.001 mm (0.00004")	
Max. input resolution	9999.999 mm (394")	
Interpolation	Linear/circular	
Positioning	Incremental/ absolute	
<b>ELECTRICAL SPECIFICATIONS</b>	Current	AC/MOSFET
	Surface roughness	Ra 0.3–0.4
	Max. cutting speed	250mm <sup>2</sup> / 0.3 mm (0.4sqin/0.012") straight line cutting
	Power consumption	18 kW, 3 Phases, 220V/380V, 10% 25A

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