

Seibu

SEIBU EDM EW-C3

Compact Wire Electrical Discharge Machine

Automatic wire feeding device
(option) is available, provides
unmanned operation!



The photograph provided with an optional
automatic wire feeding device.

SEIBU ELECTRIC & MACHINERY CO., LTD.

Compact Wire Electrical Discharge Machine EW-C3

- Designed for economy and compactness, the EW-C3 slashes equipment investment where multiple units are needed for parts machining, or for testing before introducing new manufacturing systems.
- 16-bit NC system, slimmed down to the essential functions for maximum economy.
- Backlit liquid crystal display control panel is compact and easy to read.

- Z-axis drive is manual, but others have performance equal to general-purpose machines.
- Small-footprint design saves up to 15% over conventional machines. (in-house comparison).
- Automatic wire feeding device (factory option) provides unmanned operation.

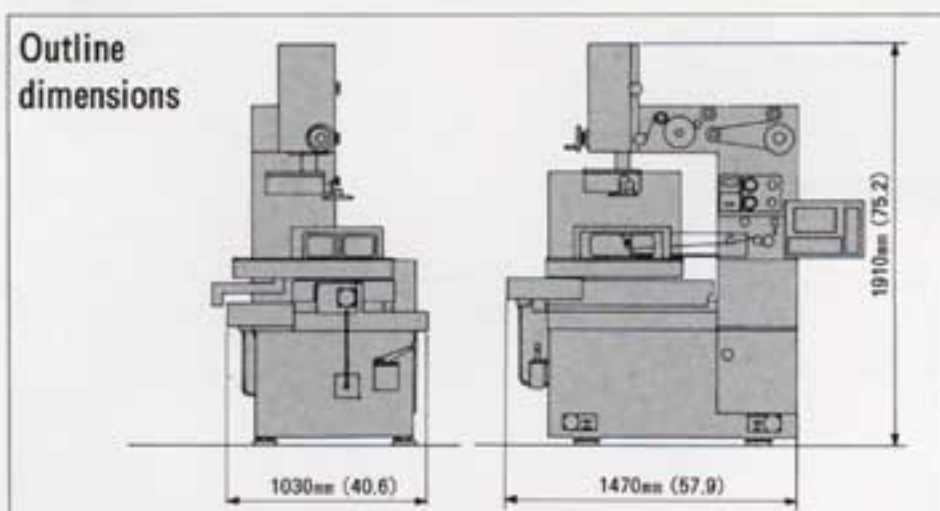
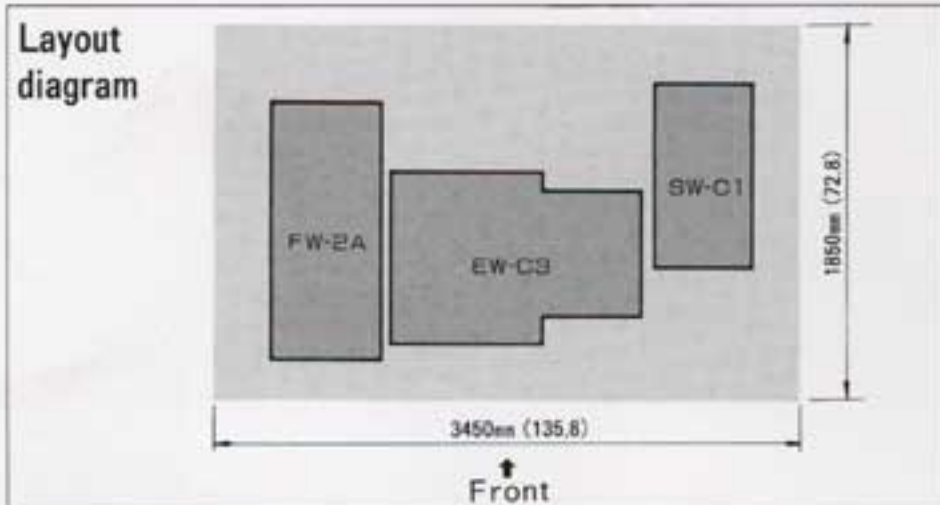
SPECIFICATIONS

Machine EW-C3

() inch

Max. dimension of workpiece (W×D×H)	450×400×150mm	(17.7×15.7×5.9)
Max. weight of workpiece	200kg	(440Lbs.)
Table travel	Right & left	X axis 300mm (11.8)
	Back & forth	Y axis 250mm (9.8)
Z axis travel	160mm	(6.3)
Manual table feed rate	Quick; 600mm/min (23.6), Middle; 90mm/min (3.5), Slow; 9mm/min (0.35) Step feed 0.001~ (0.00004~)	
Z axis slider driving system	Manual	
Taper cutting device (Upper wire guide travel distance)	Uaxis ±25mm (±0.98), Vaxis ±25mm (±0.98)	
Taper angle	±10° (Height 100mm) (3.9)	
Applicable wire electrode diameter	0.15~0.3mm (Std. 0.2mm) (0.006~0.012 (0.008))	
Wire feed rate	0~280mm/sec (0~11.0)	
Wire tension controlling range	200~1,800 g (0.44~3.96 Lbs.)	
Outline dimension (W×D×H)	1,470×1,030×1,910mm (57.9×40.6×75.2)	
Weight	1,700kg (3,740 Lbs.)	

* Filter element/ 3 μm paper filter (external & internal pressure type)



CONTROL DEVICE SW-C1

() inch

Power Supply	Pulse generation	Transistor pulse circuit
	Working voltage	90 steps
Numerical Control	Working current	15 steps
	Max. cutting rate	150~160mm/min
Control function	Surface roughness	3~5 μm Rmax
	Control system	CNC system with micro computer
Display function	Ambient temperature	0~40°C
	Control axis	X-Y-U-V, 4axes (4axes simultaneously)
Control function	Input method	Tape reader, MDI, RS232C
	Code	ISO (R840)/EIA (RS244-A), selective
Display function	Position command system	Incremental value/Absolute value, joint use
	Max. programmable dimension	(X-Y) + 9999.999mm (I-J) + 99999.999mm
Control function	Least input increment	0.001mm (0.04mil)
	Least command increment	0.00025mm/pulse (0.01mil)
Display function	Interpolation	Linear, Circular
	Intersection calculation	Sharp edge, Rounded corner
Control function	Wire offset	±9.999mm
	Manual table feed rate	Quick; 600mm (23.6), Middle; 90mm (3.5), Slow; 9mm (0.35), Step feed
Control function	Cutting feed control	Servo feed/Constant feed, selective
	Reverse function	Reverse along cutting locus at shortcircuit
Control function	Countermeasure for power failure	Reverse distance 0.5/1.0/2.0/3.0mm selective
	Display function	Self start after power recovery
Control function	Display unit	10inch monochrome LCD
	Control function	Selection by operation mode.
Control function	Control function	• Display of present position X-Y, U-V, 4axes simultaneously, 0.001mm unit (0.00004)
	Control function	• Display of setting values for condition (Wire offset, Cutting, Operating condition)
Control function	Control function	• NC data display, Alarm code display, System parameter display
	Control function	• NC data editing display
Control function	Control function	• Registered cutting condition display
	Control function	• Memory operation (Total tapes length 300)
Control function	Control function	• Pitch error, Backlash compensation, Mirror image X-Y axes (Individual/Simultaneous), Axes exchange
	Control function	• Optional stop, Single block, Machine lock
Control function	Control function	• Positioning (Edge, Center), Axis compensation, Circle compensation
	Control function	• Return to origin
Control function	Control function	• Dwell function
	Control function	• Wire breaking treatment (Return to breaking point, Return to starting point), External input/output interface (RS232C)
Control function	Control function	• Multi operation (During cutting, tape editing possible by display change, search of cutting condition.)

• All specifications are subject to change without notice.

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