

# EdmDrill™ SD4030 CNC

## Mid-Size CNC EDM Drilling Machine

The SD4030 CNC is a ruggedly built high-speed EDM drilling machine designed for tool rooms, job shops and production work. It accurately drills holes in most electrically conductive materials, on angles and through threads, with virtually no burrs. The SD4030 CNC is ideal for drilling start-holes, lock-wire holes, venting holes in molds, and production holes in materials where conventional drilling is difficult. The standard 50 Amp power supply provides ample power to quickly drill tough materials, and the included water filtration tank provides a continuous supply of filtered and conductivity-controlled water for consistent drilling results. CNC programming is performed at the machine controller or offline using simple G-Codes, and the controller's graphical interface accepts DXF files and displays hole locations while drilling. Part setup is simplified with operator settable work coordinates and automatic electrode referencing cycles. The controller comes standard with a hand pendant to assist in machine setup, and Ethernet and USB ports for data transfer. To ensure long-term positioning accuracy and repeatability, closed loop linear scale feedback is used for the X and Y table. The SD4030 CNC provides the highest level of value and performance in its class.



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## SPECIFICATIONS

### MACHINE

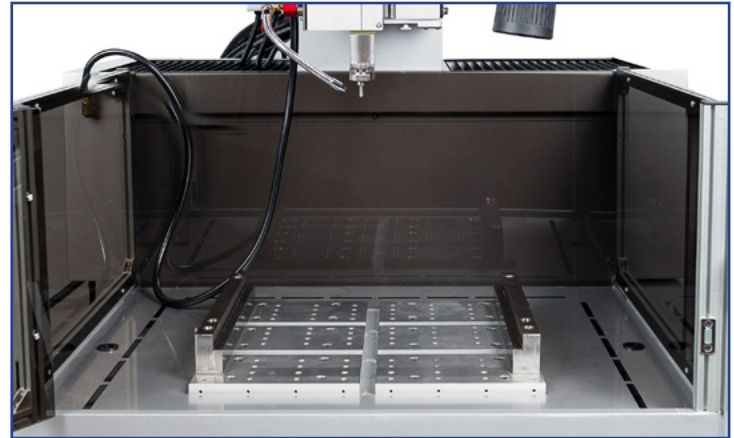
X-Axis Travel	15.7 in. (400mm)
Y-Axis Travel	11.8 in. (300mm)
Z-Axis Travel	14.7 in. (375 mm)
W-Axis Travel	13.7 in. (350 mm)
Theta Axis Travel	N/A
Positioning Feedback	Linear Scales (X, Y) Rotary Encoder (Z)
Electrode Diameter Range	0.012 - 0.118 in. (0.3 - 3.0mm)
Maximum Table Weight Capacity	1,100 lbs. (500 kg)
Machine Weight	2,970 lb (1,350 kg)
Machine Footprint	63 W x 65 L in. (1,600 x 1,650 mm)
Machine Footprint (with AEC-24)	N/A
Guide Shoe to Worktable (min.)	2 in. (50 mm)
Guide Shoe to Worktable (max)	15.7 in. (400 mm)
Worktable Material	Stainless Steel
Worktable Size	17.7 W x 15.3 L in. (450 x 390 mm)
Hold Down Inserts	96 x M8
Rotary Table	N/A
Water Filtration System	Standard

### CONTROL

Controller	Castek
Display Type	15 in. (381 mm) Touchscreen Color LCD
Displayed Axes	X, Y, Z
Controlled Axes	Z
Motors (X, Y, W)	N/A
Feedback (X, Y)	Closed Loop / Linear Scales
Feedback (W)	N/A
Feedback (Z)	Rotary Encoder
Program Storage	8GB
Drilling Modes	Manual and Automatic
Spindle Rotation	Bi-Directional
USB Port	Standard
Servo Feed Rate	Programmable

### POWER SUPPLY

Type	Variable Frequency DC
Switching	High Current FET
Output Amperage (peak)	50
Amperage Range (Ip)	3 to 50 Amps (3.33 Amp increments)
On-Time Setting (TON)	1 - 99 $\mu$ s (1 $\mu$ s increments)
Off-Time Setting (TOFF)	5 - 99 $\mu$ s (1 $\mu$ s increments)
Meters	Voltmeter and Ammeter
Capacitance Settings	31 Tap Settings



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