

EdmDrill™ SD4030

Mid-Size Manual EDM Drilling Machine

The EdmDrill™ SD4030 is a manual EDM Drilling machine with features and capabilities not found anywhere else near its price point. 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. The large, enclosed stainless-steel worktable easily accepts countless tooling systems and fixtures, and the drill chuck and electrode guide system are designed to enable quick electrode and guide changes to reduce setup and down-time. To ensure long-term positioning accuracy and repeatability closed loop, linear scale feedback is used for the X and Y table. The ruggedly built SD4030 is designed for tool rooms, job shops and parts production. It accurately drills holes in most electrically conductive material, at high rates, on angles and through threads, and is ideal for start-holes, lock-wire holes, venting holes in molds, and production holes in materials where conventional drilling is difficult. The SD4030 provides the highest level of value and performance and is truly an affordable EDM drilling machine.



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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

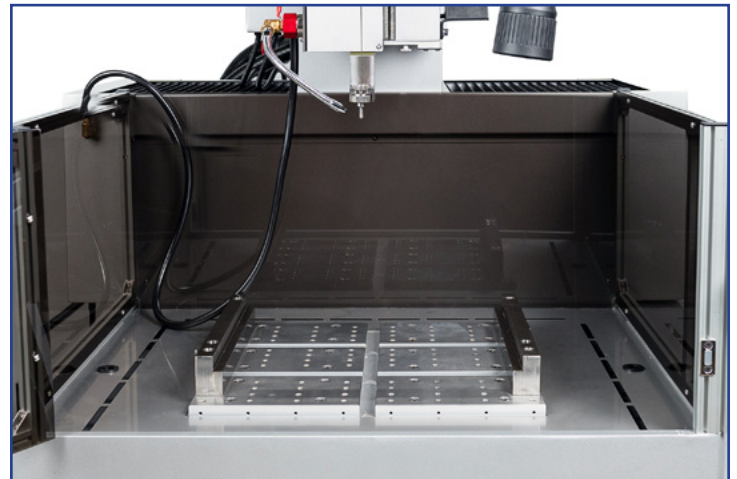
CONTROL

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 μ s (1 μ s increments)
Off-Time Setting (TOFF)	5 - 99 μ s (1 μ s increments)
Meters	Voltmeter and Ammeter
Capacitance Settings	31 Tap Settings

The SD4030 is loaded with features to make your operator's life easier. The interactive controller greatly simplifies drilling by taking the guesswork out of selecting power settings. Simply enter the part material, thickness, and electrode diameter and the controller will choose the appropriate power setting for you. The controller can also graphically display 2D DXF files to help visualize the part program. It is nearly impossible to drill holes in the wrong location when using this feature because the controller prevents drilling unless you are at the correct X and Y coordinates.



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