

EdmDrill™ SD6040

Mid-Size Manual EDM Drilling Machine

It used to be that “Affordable” really meant “Low Quality or Low Performance.” You accepted rough holes, inconsistency, backlash and nagging service issues. They were all included in the “cheap machine” package.

Times have changed. If you’re searching for an “affordable” EDM driller that doesn’t act like one, look to the new SD6040 from Current EDM. With features, capabilities and technical support not found anywhere at its price point, the SD6040 offers the highest level of value and performance. You don’t have to settle for less.

The SD6040 is a precision EDM drilling machine designed for tool rooms and production. It accurately drills holes in nearly any electrically conductive material, at high rates, on angles and through threads. The SD6040 is ideal for drilling start-holes, lock-wire holes, venting holes in molds, and production holes in materials where conventional drilling is difficult.



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SPECIFICATIONS

MACHINE

X-Axis Travel	23.6 in. (600 mm)
Y-Axis Travel	15.7 in. (400 mm)
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 SD6040 is ruggedly built and packed with technologies to make your operator's life easier. The interactive controller greatly simplifies drilling by taking the guess-work out of power setting selection. Simply enter the material, thickness and electrode diameter — the controller chooses the appropriate power setting for you. The controller can graphically display 2D DXF files to help visualize the part program. It is nearly impossible to misposition holes because the controller indicates when you are in position.



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