

EdmDrill™ RT6050

High-Capacity CNC EDM Drilling Machine

The EdmDrill™ RT6050 is designed for drilling extremely large and heavy parts common in the automotive, aerospace, power generation and tool & die industries. The RT6050's worktable is open and easily accessible to facilitate setup and part loading/unloading with an overhead crane or from the front with a loader.

The RT6050 is available in three and five axis configuration. A tilting drilling head (Theta) is available for special angled hole drilling. The versatile remote control hand pendant includes a

special "Teach Mode" developed for turbine engine repair work where holes are aligned by sight. Manually position all axes from the remote controller and then start drilling with a simple push of a button.

The powerful Siemens SINUMERIK ONE controller comes with comprehensive drilling tools and technologies to greatly simplify setup and programming. Consider the RT6050 if you are looking for one machine that can truly "do it all".



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SPECIFICATIONS

MACHINE

X-Axis Travel	60.0 in. (1524mm)
Y-Axis Travel	50.0 in. (1270mm)
Z-Axis Travel	16.0 in. (406mm)
W-Axis Travel	30.0 in. (762mm)
Theta Axis Travel	±75°
Motion Control	Linear Ways and Ball Screws
Electrode Diameter Range	0.004 in. - 0.256 in. (0.1mm - 6.5mm) w/AEC: 0.012 in. - 0.118 in. (0.3mm - 3.0mm)
Worktable Material	Stainless Steel
Worktable Size	60 in. x 50 in. (1524mm x 1270mm)
Work Envelope	36 in. D x 25 in. H (914mm D x 635mm H)
Maximum Part Height	36 in. with 2 in. long guide (914mm with 50mm long guide)
Rotary Table	Nikken CNC321
Table Weight Capacity	2000 lbs. (909kg) maximum
Machine Weight	12000 lbs. (5455kg)
Machine Footprint	114 in. W x 110 in. L (2895mm W x 2794mm L)

CONTROL

Controller	Siemens SINUMERIK ONE
Display Type	19 in. (482 mm) High-resolution LCD
Displayed Axes	X, Y, W, Z, A, B
Controlled Axes	X, Y, W, Z, A, B
Motors (X, Y, W)	AC Servo
Feedback (X, Y)	Rotary Encoder
Feedback (W)	Rotary Encoder
Feedback (Z)	Rotary Encoder
Program Storage	10MB (Expandable to 4GB)
Drilling Modes	Manual and Automatic
Spindle Rotation	Bi-Directional
USB Port	Standard
Servo Feed Rate	Programmable

AEC24 AUTOMATIC ELECTRODE CHANGER

Number of Drill Chucks	24
Electrode Diameter Range	0.012 in. - 0.118 in. (0.3mm - 3.0mm)
Collets/Sizes	12 each 0.020 in. (0.5mm) 12 each 0.040 in. (1.0mm)
Maximum Electrode Length	16 in. (400mm)
Compressed Air Required	70 - 90 PSI / Dry / 2.5 CFM
Emergency Drill Chuck	0.010 in. - 0.118 in (0.25mm - 3.0mm) range

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