

# EdmDrill™ RT1800

## Special Purpose CNC EDM Drilling Machine

The EdmDrill™ RT1800 is a specially designed machine for drilling extremely small holes in long and narrow parts. With X axis travel of 70 inches and Y axis travel of 12 inches, the RT1800 can easily handle long perforation dies, tubes, cylinders, or even a series of part fixtures mounted side-by-side. The moving C-Frame design enables precise table positioning and the stationary worktable ensures part stability with no axes overhang issues. The optional AEC24 Automatic Electrode Changer is mounted to the drilling head, minimizing tool change time.



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## SPECIFICATIONS

### MACHINE

X-Axis Travel	70 in. (1778mm)
Y-Axis Travel	12 in. (304mm)
Z-Axis Travel	16 in. (406mm)
W-Axis Travel	10.5 in. (266mm)
Electrode Diameter Range 25 Amp	0.004 - 0.030 in. (0.1 - .75mm)
Electrode Diameter Range 57 Amp	0.004 - 0.256 in. (0.1 - 6.5mm)
Table Weight Capacity	2,500 lbs. (1133 kg)
Machine Weight	5,000 lbs. (2267 kg)
Machine Footprint	113 x 100 in. (2870 x 2540mm)

### 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

### MOTORS AND DRIVERS

Motors (X, Y, W)	Siemens AC Servo
Feedback (X, Y, W)	Encoder
Z Motor	DC with Siemens Encoder
Positioning	±0.0005 in.
Repeatability	0.0002 in.

### POWER SUPPLY

Type	Variable Frequency DC
Switching	High Current FET
Output Amperage	30/57 (mean/peak)
Amperage Range (Ip)	1 to 57 Amps (3 Amp increments)
On-Time Setting (TON)	1-100mSec (1mSec increments)
Off-Time Setting (TOFF)	1-100mSec (1mSec increments)
Meters	Voltmeter and Ammeter
Capacitance Range	0 to 1.15mFarad (0.05 increments)



### 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



Automatic Guide Changer comes in 4 (shown) or 6 station configuration.

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Precision EDM Drilling Machines

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