EdmDrill™ **TH43**

Mid-Size CNC EDM Drilling Machine

The EdmDrill™ TH43 is versatile and capable EDM drilling machine designed to support tool room, job shop, and production environments. The TH43 features the Mitsubishi M80V CNC Controller, which provides straightforward operation for all your EDM drilling needs and enables interfacing with automation devices such as robots and part loaders. The optional AEC12 Automatic Electrode Changer offers a 12-position tool changer for long-running applications with minimal operator intervention.

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AEC12 AUTOMATIC ELECTRODE CHANGER

Number of Drill Chucks	12
Electrode Diameter Range	0.012 in. – 0.118 in. (0.3 mm - 3.0 mm)
Maximum Electrode Length	16 in. (400 mm)
Compressed Air Required	70 - 90 PSI / Dry / 2.5 CFM
Emergency Drill Chuck	0.012 in. – 0.118 in (0.3 mm – 3.0 mm) range

SPECIFICATIONS

MACHINE TH43

X-Axis Travel	18.0 in. (457 mm)
Y-Axis Travel	12.0 in. (304 mm)
Z-Axis Travel	16.0 in. (406 mm)
W-Axis Travel	10.5 in. (266 mm)
Electrode Diameter Range	0.004 in. – 0.256 in. (0.1 mm – 6.5 mm)
Table Weight Capacity	1000 lbs. (454 kg) maximum
Machine Weight	1500 lbs. (681 kg)
Machine Footprint	47 in. W x 64 in. L (1194 mm W x 1625 mm L)
Machine Footprint with AEC 12	59 in. W x 64 in. L (1498 mm W x 1625 mm L)

CONTROL

Controller	Mitsubishi M80V
Display Type	10.4 in. 640 x 480 LCD Touchscreen
Displayed Axes	Standard: X, Y, W, Z
Controlled Axes	Standard: X, Y, W, Z
Motors (X, Y, W)	AC Servo
Feedback (X, Y)	Rotary Encoder
Feedback (W)	Rotary Encoder
Feedback (Z)	Rotary Encoder
Program Storage	500KB (2MB extended memory)
Drilling Modes	Manual and Automatic
Spindle Rotation	Bi-Directional
USB Port	Standard
Servo Feed Rate	Programmable

MOTORS AND DRIVES

Motors (X, Y, W)	Mitsubishi AC Servo
Feedback (X, Y, W)	Rotary Encoder
Z Motor	DC with Rotary Encoder
Positioning	±0.0008 in.
Repeatability	±0.0004 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)	1-99 µs (1 µs increments)
Off-Time Setting (TOFF)	1-99 µs (1 µs increments)
Meters	Voltmeter and Ammeter
Capacitance Range	0 to 1.15 µF (0.05 µF increments)

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