

# EdmDrill™ CT400

## Precision CNC EDM Drilling Machine

The EdmDrill™ CT400 is a highly versatile and capable EDM drilling machine for tool room, job shop and production applications. The CT400 is controlled by the fully integrated FANUC 0i-MF Plus CNC Controller which enables interfacing with robots, part loaders and other automation devices.

Additional machine options, like the AEC24 Automatic Electrode Changer, are available to meet your most critical production requirements. Time tested in around-the-clock operation, the AEC24 automatically changes up to 24 electrodes.

The CT400 is available in 3, 4 or 5 axis configuration. Please note that an additional 4th axis or tilt-rotary table can be added to the CT400 on your shop floor should the need arise.



CT400 5 Axis with AEC24 and FANUC 0i-MF Plus CNC Controller



CT400 3 Axis with FANUC 0i-MF Plus CNC Controller

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## AEC24 AUTOMATIC ELECTRODE CHANGER

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

## SPECIFICATIONS

### MACHINE CT400

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	59 in. W x 64 in. L (1498 mm W x 1625 mm L)

### CONTROL

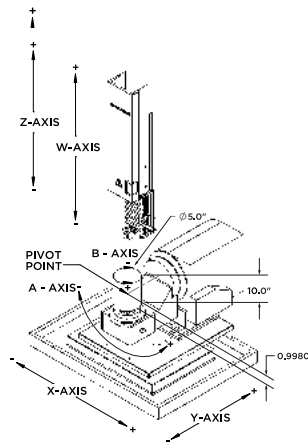
Controller	FANUC 0i-MF Plus
Displayed Axes	X, Y, Z, W
Controlled Axes	X, Y, Z, W
Displayed Coordinates	Inch/Metric
Display Type	12.4 VGA LCD
Program Storage	
Table Feed Rate	Variable, up to 200 in./min (5000 mm/min)
Minimum Command Unit:	0.0001 in.
Drilling Modes	Manual and Automatic
Manual Table Feed	Variable
Spindle Rotation	Bi-Directional
USB Port	Standard
Servo Feed Rate	Programmable

### MOTORS AND DRIVERS

Motors (X, Y, W)	FANUC AC Servo
Feedback (X, Y, W)	Encoder
Z Motor	DC with 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)	1-100µSec (1µSec increments)
Off-Time Setting (TOFF)	1-100µSec (1µSec increments)
Meters	Voltmeter and Ammeter
Capacitance Range	0 to 115µFarad (0.05 increments)



## NIKKEN SW-105

A-Axis Travel	±90°
B-Axis Travel	±180°
Fixture and Part Weight	25 lb. (11.3 kg)

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### INTERNATIONAL HEADQUARTERS

2577 Leghorn Street  
Mountain View, CA 94043  
(650) 966-9676 phone  
(650) 966-1881 fax

### SALES OFFICE & SHOWROOM

9201 Penn Avenue South, Suite 40  
Bloomington, MN 55431  
(763) 476-2290 phone  
(763) 476-2190 fax

### DISTRIBUTED BY:

WWW.CURRENTEDM.COM • email: [INFO@CURRENTEDM.COM](mailto:INFO@CURRENTEDM.COM)