EdmDrill™ **CT500**

Mid-Size CNC EDM Drilling Machine

The EdmDrill™ CT500 is a high-precision, large capacity machine with 22 x 14 inch XY travel. The spacious work area can accommodate the Nikken 5AX-SW105 or 5AX-130 rotary table turning the CT500 into one of the most advanced CNC EDM drillers. The worktable material is granite to optimize electrical isolation and the unique work tank can be configured for submersed or non-submersed drilling. Any option can be added to the CT500, including the Automatic Electrode Changer (AEC24), Automatic Guide Changer (AGC) and safety light curtains. Built for accuracy, longevity and consistency, it's easy to understand why hundreds of CT500 machines are being used in the most demanding production facilities worldwide.

EdmDrill™ **CT500** Mid-Size CNC EDM Drilling Machine

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	0.012 in. – 0.118 in (0.3mm – 3.0mm) range

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

NIKKEN 5AX-SW105

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

NIKKEN 5AX-130

A-Axis Travel	+90°/–5°
B-Axis Travel	±180°
Fixture and Part Weight	55 lb. (24.9kg)

SPECIFICATIONS

MACHINE CT500

X-Axis Travel	22.0 in. (559mm)
Y-Axis Travel	14.0 in. (356mm)
Z-Axis Travel	16.0 in. (406mm)
W-Axis Travel	10.5 in. (266mm)
Electrode Diameter Range	0.004 in. – 0.256 in. (0.1mm – 6.5mm)
Table Weight Capacity	682 lbs. (310kg) maximum
Machine Weight	2000 lbs. (909kg)
Machine Footprint	60 in. W x 71 in. L (1524mm W x 1803mm L)
Machine Footprint with AEC	68 in. W x 71 in. L (1727mm W x 1803mm 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

MOTORS AND DRIVERS

Motors (X, Y, W)	Siemens AC Servo
Feedback (X, Y, W)	Rotary Encoder
Z Motor	DC with Siemens Rotary 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)	1-99 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)

© 2026 CURRENT EDM, INC. ALL RIGHTS RESERVED. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. 1006.0826

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**