EdmDrill™ **FT300**

Fully Enclosed CNC EDM Drilling Machine

The EdmDrill™ FT300 is designed for high-production work in industries such as Aerospace, Automotive, Medical and Cutting Tools. It is fully operable and serviceable from the front and rear of the machine. EDM Milling feature greatly expands the FT300's capabilities by enabling the machining of 3 dimensional shapes such as gates and diffusers (ESPRIT® CAM recommended to simplify programming).

- 5 Axis EDM drilling machine with electrode changer
- Machines can be placed side-by-side to save floor space
- 25 lbs. weight capacity at tilt-rotary table
- Reliable drilling depth control
- EDM Milling capability
- Accepts robotic part loading/unloading
- Ergonomic design

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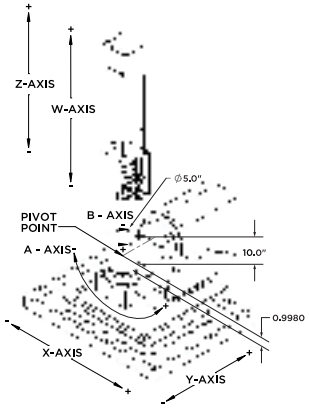
SINUMERIK ONE CNC, TOP22 Blackline Plus multitouch panel and SINAMICS drives with absolute motors.



NIKKEN 5AX-SW105

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

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

STANDARD FEATURES

X-Axis Travel:	12"
Y-Axis Travel:	6"
Z-Axis Travel:	16"
W-Axis Travel:	14"
Electrode Diameter Range:	0.1 - 6.5mm
Maximum Table Weight Capacity:	25 lbs.
Machine Weight:	1500 lbs.
Machine Footprint:	40"X60"

CONTROL

Controller	Siemens SINUMERIK ONE
Display Type	22 in. (558 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)

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