

ST300

Current EDM
INCORPORATED

EdmDrill™ Model ST300

With hundreds of EDM drilling machines in service worldwide, Current EDM continues to set the industry standard. The ST300 drills deep, angled holes in hardened alloys using electrodes from .004" to .256" in diameter. Drill to depths up to 300 times electrode diameter with water dielectric fluid, while virtually eliminating burrs.

A Precision Machine Tool

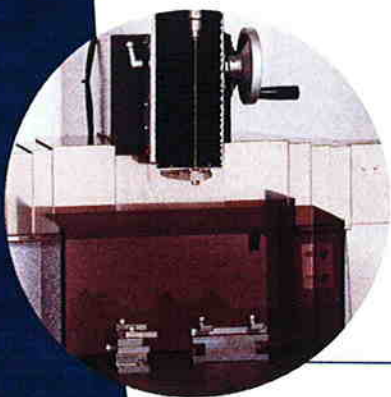
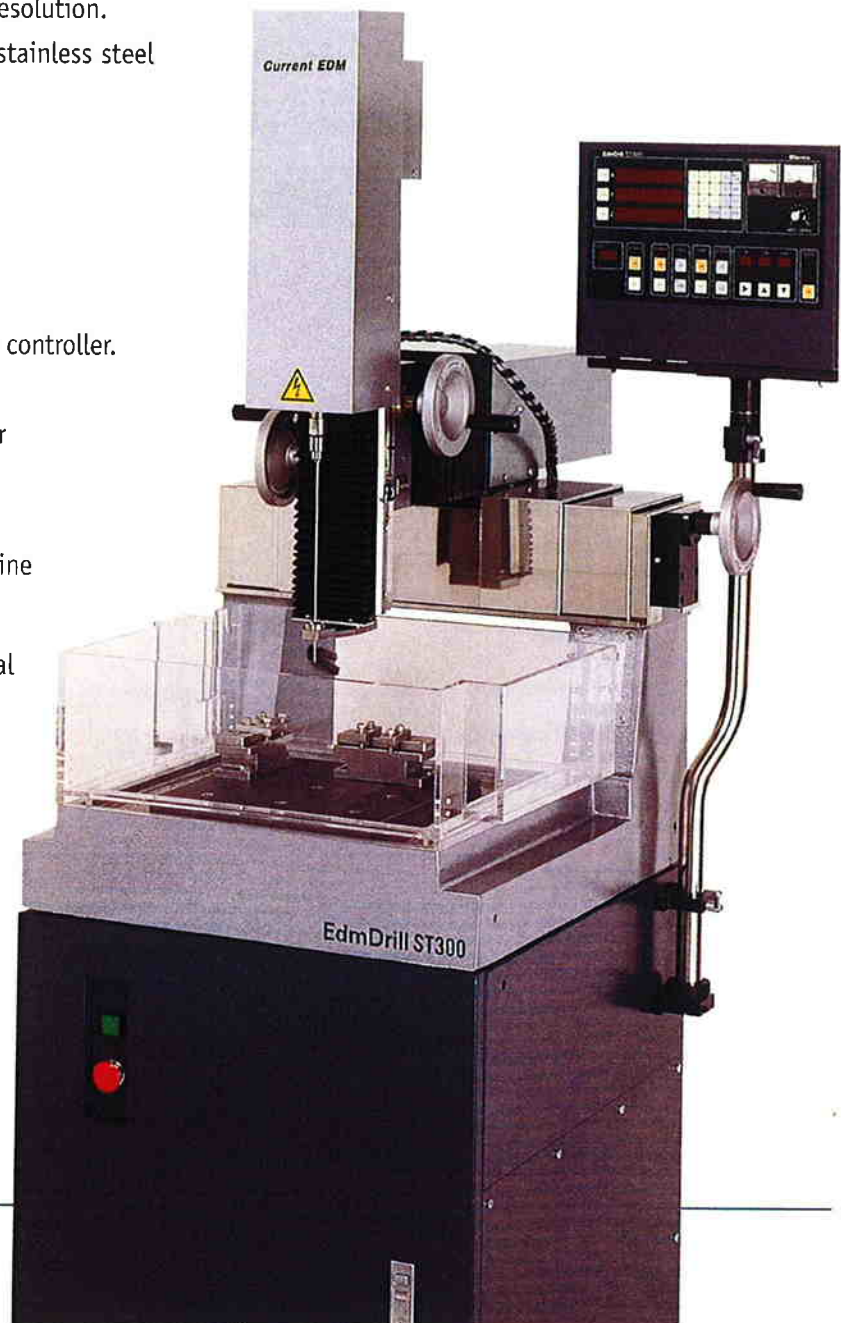
A rigid, single-cast bridge design supports the X/Y ways. The precision Z-axis linear guide ways are mounted to a stainless steel head assembly and all components, bearings, rotary seal and centerless-ground spindle are of the highest quality.

- Closed-loop glass scales provide .0002" resolution.
- Inspection grade granite worktable with stainless steel threaded inserts.
- Adjustable, stainless steel guide holder.
- 57 peak amp power supply.
- Utilize economical water dielectric and electrode diameters from .004" to .256".
- Powerful, full-function control.
- "Auto-Mode" interface with PLC or indexer controller.
- Programmable auto electrode retract.
- Memory to reach programmed depth after machining interruption.

Current EDM Customer Service

From pre-sale applications testing to machine installation and operator training in your facility, Current EDM stands behind each customer with our experienced, professional EDM staff.

The ST300 is covered by a one year parts and labor limited warranty.



Optional ST300 Equipment

- Aquarius™ Package. Includes submersible worktank and DI/Filtration System.
- Dielectric fluid chiller.
- SRJ Precision Servo Control. **Now Standard!*
- Oil dielectric package for carbide machining.
- Z-axis riser for tall fixtures and parts.
- "Power Booster" for large electrodes.

INCREASE PRODUCTIVITY and efficiency by controlling DI conductivity with a self-contained DI/Filtration unit sized for your application.



ST300 Specifications

RANGE	
XY-Axis Travel	12' 8" (300 mm/200 mm)
Z-Axis Travel	16" (400mm)
Guide-Axis Travel	10" (250 mm)
Table to Spindle Distance, min.	0.4" (10 mm)
Table to Spindle Distance, max.	10.5" (265 mm)
Workpiece Weight, max.	682 lbs. (310 kg)

TABLE	
Worktable Tank Size (WxD)	18"x16" (450 mm x 400 mm)
Worktable Material	Granite / 9 Threaded Inserts
Worktable Size	12" x 12" (300 mm x 300 mm)
Table Resolution	0.0002" (0.005 mm)
Feedback for XY Axes	Closed Loop Glass Scales
Feedback for Z Axis	Encoder Direct to Shaft

MACHINE TOOL DIMENSIONS & WEIGHT

Floor Footprint (WxDxH)	24" x 28" x 78" (610 mm x 711 mm x 1950 mm)
Machine Weight	700 lbs. (318 kg)

POWER SUPPLY

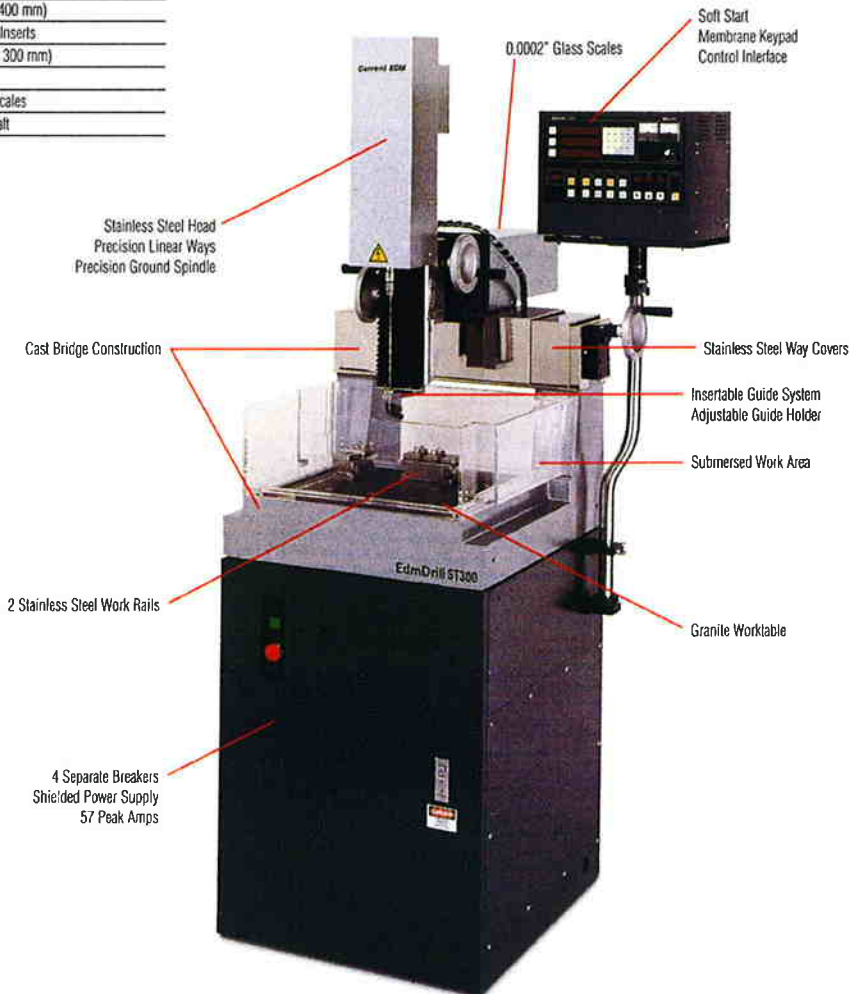
Input Power	200/220 VAC 3-phase, 50/60 Hz, 4KVA
Machining Amps Mean/Peak	30/57 Amps

Subject to change without notice.



CONTROL FEATURES

- Automatic initialize zero set – compensates for electrode wear
- Digital read out of XYZ axes
- Programmable machining depth
- Automatic electrode retract
- Programmable electrode retract height
- Inch or metric display
- Positioning contact sensor – audio and visual
- Sealed membrane keypad
- Machining depth memory override
- Interface to other PLC controls or index control with cycle counter
- Machining timer
- Spindle stop & CCW rotation
- Soft start



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