



BELMONT

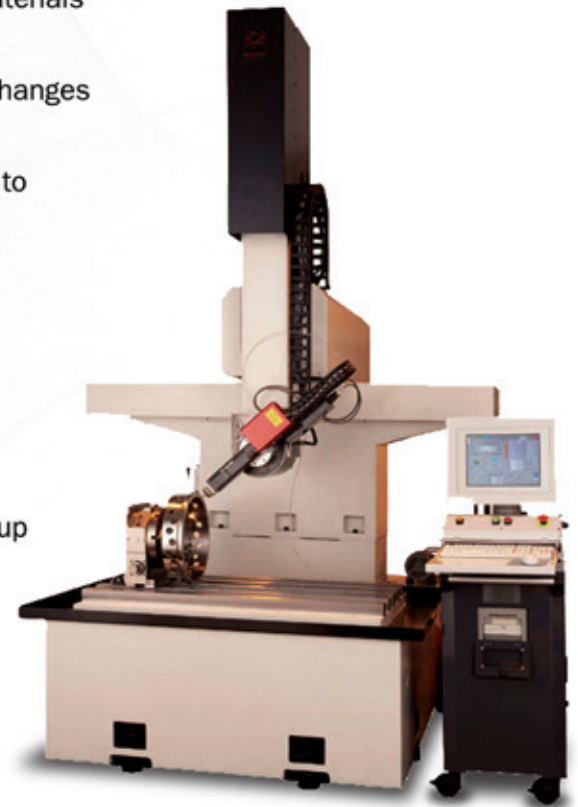
EQUIPMENT & TECHNOLOGIES
Divisions of Cleary Developments, Inc.

"Everything for EDM"

Belmont's BT Tilt Head Series High Speed CNC EDM Drill

Features

- **Integrated Tilting Drill Head**
Programmable with $\pm 110^\circ$ of travel that allows complete part machining in a single setup
- **On Board Technology**
Proven machine parameters are built in for different work piece materials
- **Password Protected Settings**
The program can be password protected to prevent unauthorized changes
- **Automatic Electrode Management**
At the start of a hole the electrode is checked for sufficient length to complete the hole
- **Automatic Electrode Stabilizer**
Moves automatically to provide extra support for long electrodes
- **Linear Glass Scales with 0.5 Micron Resolution**
Provides true, closed loop, position feedback for precise part positioning accuracy
- **Hand Pendant for Remote Operation**
Machine functions are more accessible to the operator during set up
- **Rotary Table (optional)**
Fully integrated for complex parts requiring multi axis positioning
- **Break Through Detection (optional)**
Ensures a complete hole or helps to eliminate back wall strikes
- **Shaped Hole Technology (optional)**
Fabrication system for electrode development
- **Automatic Electrode Changer (optional)**
The 24-position carousel allows for unattended operation
- **Automatic Guide Changer (optional)**
The 8-position carousel can change guides up to 6" in length
- **Optical Inspection System (optional)**
High resolution video camera can measure hole size, verify position, and locate datum points for part programs



Note: The BT Series is also available in non-tilt head models.

Call 800-356-4811 or visit us on the web at www.belmont4edm.com



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Belmont's BT Tilt Head Series High Speed CNC EDM Drill Specifications

		BT-115-T CNC	BT-125-T CNC	BT-176-T CNC	BT-306-T CNC
TRAVEL	X AXIS	43.3" (1,100 mm)	47.2" (1,200 mm)	67.0" (1,700 mm)	118.1" (3,000 mm)
	Y AXIS	19.6" (500 mm)	19.6" (500 mm)	24.0" (610 mm)	24.0" (610 mm)
	W AXIS	27.6" (700 mm)	27.6" (700 mm)	30.3" (770 mm)	30.3" (770 mm)
	Z AXIS	15.7" (400 mm)	15.7" (400 mm)	15.7" (400 mm)	15.7" (400 mm)
	B AXIS (TILT HEAD)	+/- 110° from vertical	+/- 110° from vertical	+/- 110° from vertical	+/- 110° from vertical
	A AXIS (ROTARY TABLE **)	+/- 360°	+/- 360°	+/- 360°	+/- 360°
OPEN HEIGHT *	MINIMUM	0.0" (0 mm)	0.0" (0 mm)	0.0" (0 mm)	0.0" (0 mm)
	MAXIMUM	26.5" (675 mm)	26.5" (675 mm)	29.5" (750 mm)	29.5" (750 mm)
WORK TABLE	WIDTH	31.4" (800 mm)	63.0" (1,600 mm)	63.0" (1,600 mm)	122.0" (3,100 mm)
	DEPTH	25.5" (650 mm)	39.3" (1,000 mm)	39.3" (1,000 mm)	39.3" (1,000 mm)
WORK PAN	WIDTH	59.0" (1,500 mm)	70.8" (1,800 mm)	70.8" (1,800 mm)	130.0" (3,300 mm)
	DEPTH	53.1" (1,350 mm)	53.1" (1,350 mm)	53.1" (1,350 mm)	53.1" (1,350 mm)
WEIGHT CAPACITY	ON WORK TABLE	5,000 lb. (2,267 kg.)	10,000 lb. (4,535 kg.)	10,000 lb. (4,535 kg.)	10,000 lb. (4,535 kg.)
GENERATOR	MAXIMUM AVERAGE CURRENT	40 A	40 A	40 A	40 A
	ON AND OFF TIME	1 to 999 µs	1 to 999 µs	1 to 999 µs	1 to 999 µs
	CAPACITORS	0 to 1.7 µF	0 to 1.7 µF	0 to 1.7 µF	0 to 1.7 µF
AUTOMATIC ELECTRODE AND GUIDE CHANGER	AEC POSITIONS	-	24 **	24 **	24 **
	AGC POSITIONS	-	8 **	8 **	8 **
FLOOR SPACE	WIDTH	131" (332 cm)	141" (358 cm)	151" (384 cm)	201" (510 cm)
	DEPTH	115" (292 cm)	115" (292 cm)	115" (292 cm)	132" (335 cm)
	HEIGHT	131" (332 cm)	133" (338 cm)	134" (340 cm)	134" (340 cm)
ENVIRONMENTAL	ROOM TEMPERATURE	68 to 77°F (20 to 25°C)	68 to 77°F (20 to 25°C)	68 to 77°F (20 to 25°C)	68 to 77°F (20 to 25°C)
	RELATIVE HUMIDITY	40% to 55%	40% to 55%	40% to 55%	40% to 55%
UTILITIES	ELECTRICAL	220VAC ±10%, 60 Hz, 4.5 KVA	220VAC ±10%, 60 Hz, 4.5 KVA	220VAC ±10%, 60 Hz, 4.5 KVA	220VAC ±10%, 60 Hz, 4.5 KVA
	AIR	70 PSI @ 1 CFM (5 BAR @ 1.7 CMH)	70 PSI @ 1 CFM (5 BAR @ 1.7 CMH)	70 PSI @ 1 CFM (5 BAR @ 1.7 CMH)	70 PSI @ 1 CFM (5 BAR @ 1.7 CMH)

* Open Height is measured from the tip of a standard guide. ** Optional.

Illustrations and specifications herein are not binding in detail. Belmont Equipment & Technologies reserves the right to modify and make improvements to these specifications without notice.

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