

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)

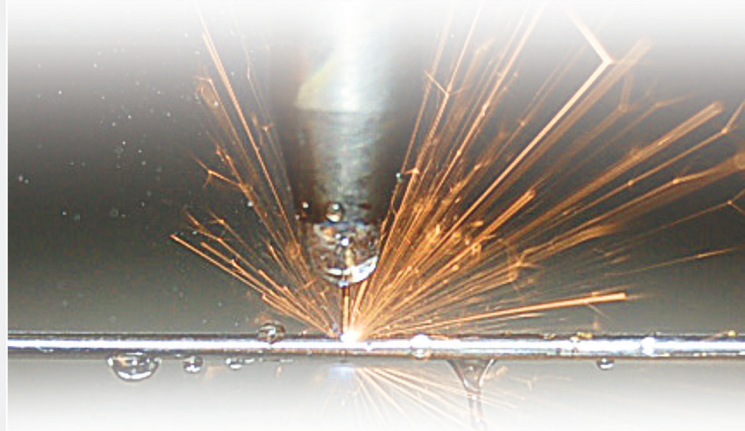
The 8-position carousel can change guides up to 6" in length

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.



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

| | | BT-125-T CNC | BT-176-T CNC | BT-306-T CNC |
|---------------------------------------|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| TRAVEL | X AXIS | 47.2" (1,200 mm) | 78.7" (2,000 mm) | 118.1" (3,000 mm) |
| | Y AXIS | 19.6" (500 mm) | 24.0" (610 mm) | 24.0" (610 mm) |
| | W AXIS | 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) |
| | B AXIS (TILT HEAD) | +/- 110° from vertical | +/- 110° from vertical | +/- 110° from vertical |
| OPEN HEIGHT * | MINIMUM | 0.0" (0 mm) | 0.0" (0 mm) | 0.0" (0 mm) |
| | MAXIMUM | 26.5" (675 mm) | 29.5" (750 mm) | 29.5" (750 mm) |
| WORK TABLE | WIDTH | 63.0" (1,600 mm) | 78.7" (2,000 mm) | 122.0" (3,100 mm) |
| | DEPTH | 39.3" (1,000 mm) | 39.3" (1,000 mm) | 39.3" (1,000 mm) |
| WORK PAN | WIDTH | 70.8" (1,800 mm) | 90.0" (2,285 mm) | 130.0" (3,300 mm) |
| | DEPTH | 53.1" (1,350 mm) | 53.1" (1,350 mm) | 53.1" (1,350 mm) |
| WEIGHT CAPACITY OF WORK PIECE | ON WORK TABLE | 10,000 lb. (4,535 kg.) | 15,000 lb. (6,800 kg.) | 20,000 lb. (9,070 kg.) |
| GENERATOR | MAXIMUM AVERAGE CURRENT | 40 A | 40 A | 40 A |
| AUTOMATIC ELECTRODE AND GUIDE CHANGER | AEC POSITIONS | 24 ** | 24 ** | 24 ** |
| | AGC POSITIONS | 8 ** | 8 ** | 8 ** |
| 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) |
| | RELATIVE HUMIDITY | 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 |
| | 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) |

* 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.