

Belmont SY-3040CE CNC High Speed EDM Drill

Features

Compact Footprint with Built-In Filtration System

Maximize floor space by eliminating the need for a separate filtration unit

6 Coordinate Systems

Allows up to 6 jobs to be run consecutively in a single set up

3 Step Control of EDM Parameters

Program up to three EDM parameter settings per hole to improve hole quality on difficult entrance and exits

Automatic Electrode Changer (optional)

Allows for a large volume of unattended operation

Automatic Electrode Stabilizer

Moves automatically to provide extra support for long electrodes

1000 RPM Programmable Spindle

Rotation speed is adjustable and will reduce cycle time for some applications

Windows Based

With conversational G and M Code programming

Multi-Tasking Abilities

Create and edit one program while the machine is running another

Capable of Fully Submerged Operations

Eliminate the need for manual adjustment of flush lines

Automatic Depth Control

Generate blind holes reliably without operator intervention

Linear Glass Scales with 1 Micron Resolution

Provides true, closed loop, position feedback for precise part positioning accuracy

Auxiliary I/O

Ability to interface with ancillary devices such as rotary tables, indexers, and work piece handling systems

Integrated Rotary and Tilt/Rotary Tables (optional)

Programmable tilt and rotary systems for complex parts requiring multi axis positioning

Break Through Detection (optional)

Ensures a complete hole or helps to eliminate back wall strikes

Optical Inspection System (optional)

High resolution video camera can measure hole size, verify position, and locate datum points for part programs

EDM Power Booster (optional)

Increases the maximum average current which will reduce the cycle time when using larger diameter electrodes

EDM Milling (optional)

EDM mill shaped diffuser holes using standard cylindrical electrodes

6 Point Probing (optional)

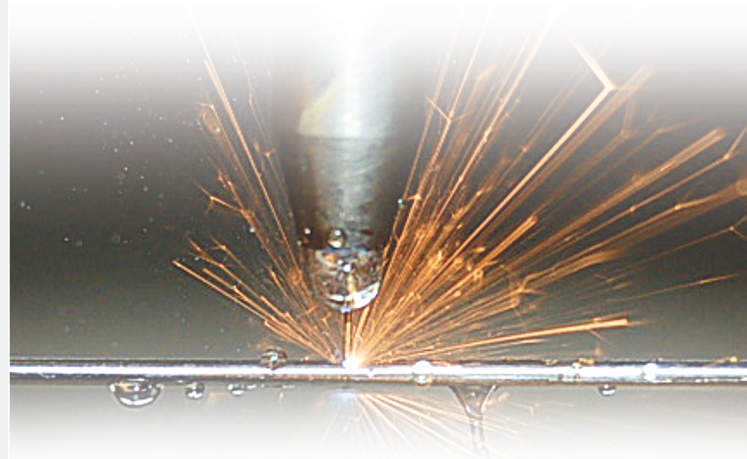
Probe the work piece to determine its 5 axis location and offset position in the part program

Coaxial Flush (optional)

A special guide and guide sleeve delivers auxiliary flush down the guide body

Programmable High Pressure Flush (optional)

Adjust the high pressure flush pressure through the electrode with a G-Code in the part program



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Belmont SY-3040CE CNC High Speed EDM Drill Specifications

		SY-3040CE	
TRAVEL	X AXIS	15.7"	(400 mm)
	Y AXIS	11.8"	(300 mm)
	W AXIS	16.9"	(430 mm)
	Z AXIS	15.7"	(400 mm)
OPEN HEIGHT *	MINIMUM	1.5"	(40 mm)
	MAXIMUM	18.5"	(470 mm)
OPEN HEIGHT TO TILT ROTARY TABLE * **	MINIMUM	0.0"	(0 mm)
	MAXIMUM	9.4"	(240 mm)
WORK TABLE	WIDTH	22.0"	(560 mm)
	DEPTH	17.3"	(440 mm)
WORK TANK	WIDTH	34.4"	(875 mm)
	DEPTH	29.5"	(750 mm)
	HEIGHT	5.9"	(150 mm)
WEIGHT CAPACITY	ON WORK TABLE	770 lb.	(350 kg.)
	ON TILT ROTARY TABLE **	77 lb.	(35 kg.)
GENERATOR	MAXIMUM AVERAGE CURRENT	30 A, 60 A **	
	ON AND OFF TIME	1 to 99 μs	
	CAPACITORS	0 to 1.81 μF	
AUTOMATIC ELECTRODE AND GUIDE CHANGER	AEC POSITIONS	20 **	
	AGC POSITIONS	12 **	
FLOOR SPACE AND WEIGHT	WIDTH	60"	(152 cm)
	DEPTH	79"	(200 cm)
	HEIGHT	96"	(244 cm)
	WEIGHT	3,500 lb.	(1,590 kg.)
ENVIRONMENTAL	ROOM TEMPERATURE	68 to 77°F (20 to 25°C)	
	RELATIVE HUMIDITY	40% to 55%	
UTILITIES	ELECTRICAL	220VAC ±10%, 3 PHASE, 60 Hz, 3.5 KVA	
	AIR	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)	

* Open Height is measured from 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.