Belmont SY-2535S / SY-3040S / SY-4060S / SY-4050ST CNC High Speed EDM Drill For Carbide Applications

Features

Oil Dielectric for Carbide Applications
Application specific feature will reduce cycle time by using oil as the dielectric

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
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

Ethernet Connectivity and USB Support
For programming and transferring of data

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

Model shown: SY-3040ST

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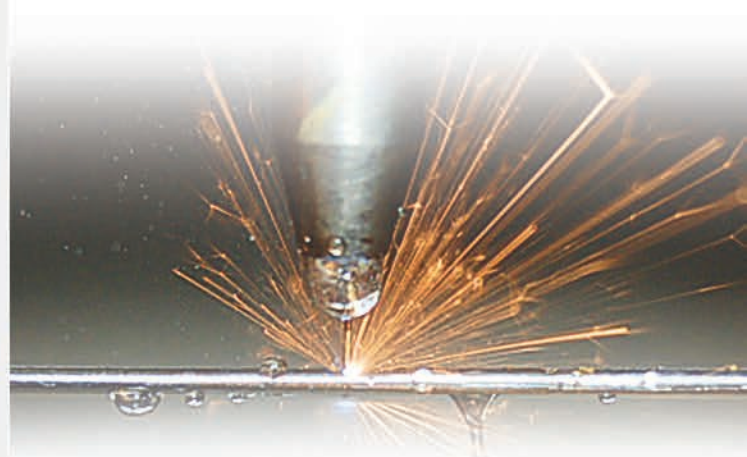
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Belmont SY-2535S / SY-3040S / SY-4060S / SY-4050ST CNC High Speed EDM Drill Specifications

		SY-2535S CNC		SY-3040S CNC		SY-4060S CNC		SY-4050ST CNC	
TRAVEL	X AXIS	13.3"	(340 mm)	15.7"	(400 mm)	23.6"	(600 mm)	19.6"	(500 mm)
	Y AXIS	9.4"	(240 mm)	11.8"	(300 mm)	15.7"	(400 mm)	15.7"	(400 mm)
	W AXIS	13.5"	(345 mm)	16.9"	(430 mm)	13.5"	(345 mm)	13.5"	(345 mm)
	Z AXIS	15.7"	(400 mm)	15.7"	(400 mm)	15.7" 23.6"	(400 mm) (600 mm)**	15.7" 23.6"	(400 mm) (600 mm)**
OPEN HEIGHT *	MINIMUM	0.5"	(15 mm)	1.5"	(40 mm)	0.5"	(15 mm)	0.5"	(15 mm)
	MAXIMUM	14.1"	(360 mm)	18.5"	(470 mm)	14.1"	(360 mm)	14.1"	(360 mm)
WORK TABLE	WIDTH	23.6"	(600 mm)	22.0"	(560 mm)	31.4"	(800 mm)	31.4	(800 mm)
	DEPTH	11.8"	(300 mm)	17.3"	(440 mm)	19.6"	(500 mm)	19.6"	(500 mm)
WORK TANK	WIDTH	27.9"	(710 mm)	34.4"	(875 mm)	43.8"	(1,115 mm)	43.8"	(1,115 mm)
	DEPTH	20.4"	(520 mm)	29.5"	(750 mm)	27.3"	(695 mm)	27.3"	(695 mm)
	HEIGHT***	5.9"	(150 mm)	12.2"	(310 mm)	8.8"	(225 mm)	8.8"	(225 mm)
	MAXIMUM OIL LEVEL***	3.9"	(100 mm)	9.0"	(230 mm)	6.8"	(175 mm)	6.8"	(175 mm)
WEIGHT CAPACITY OF WORK PIECE	ON WORK TABLE	880 lb.	(400 kg.)	770 lb.	(350 kg.)	1,750 lbs.	(795 kg.)	1,750 lbs.	(795 kg.)
FILTER SYSTEM	RESERVOIR CAPACITY	55 gal.	(208 liters)	88 gal.	(335 liters)	88 gal.	(335 liters)	88 gal.	(335 liters)
	ON AND OFF TIME	1 to 99 µs		1 to 99 µs		1 to 99 µs		1 to 99 µs	
	DIELECTRIC CHILLER	INCLUDED		INCLUDED		INCLUDED		INCLUDED	
AUTOMATIC ELECTRODER AND GUIDE CHANGER	AEC POSITIONS	12**		20**		-		20, 30**	
	AGC POSITIONS	4**		12**		-		12**	
GENERATOR		30 A, 60 A**		30 A, 60 A**		30 A, 60 A**		30 A, 60 A**	

Note 1: Adjusting the guide height to increase open height will reduce the usable electrode length

* Open Height is measured from tip of a standard guide

** Optional

*** Work tank height and maximum oil level is measured from the top of the work table.

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