

Belmont SY-4050T / SY-4050TGR / SY-4050TGR-5X CNC High Speed EDM Drill

Features

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)

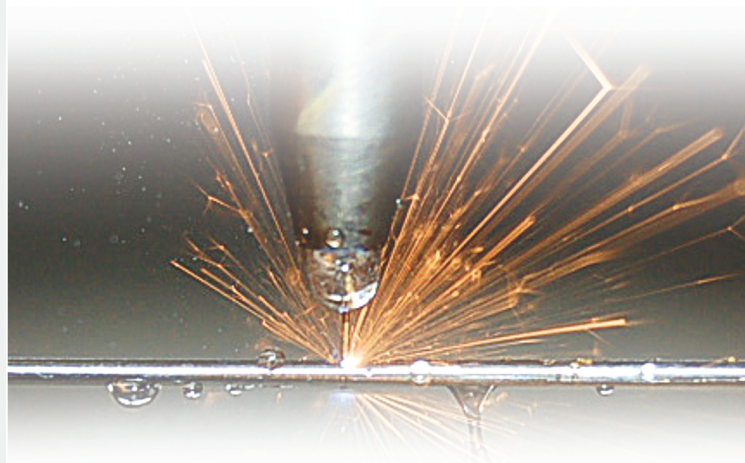
High resolution video camera can measure hole size, verify position, and locate datum points for part programs

EDM Power Booster (optional)

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



Model Shown: SY-4050T with Automatic Electrode Changer Option



Serving All of North America
ISO 9001 : 2015 Registered



Belmont SY-4050T / SY-4050TGR / SY-4050TGR-5X CNC High Speed EDM Drill Specifications

		SY-4050T CNC	SY-4050TGR CNC	SY-4050TGR-5X CNC
TRAVEL	X AXIS	19.6" (500 mm)	19.6" (500 mm)	19.6" (500 mm)
	Y AXIS	15.7" (400 mm)	15.7" (400 mm)	15.7" (400 mm)
	W AXIS	13.5" (345 mm)	19.6" (500 mm)	19.6" (500 mm)
	Z AXIS	15.7" (400 mm) 23.6" (600 mm) **	15.7" (400 mm) 23.6" (600 mm) **	15.7" (400 mm) 23.6" (600 mm) **
OPEN HEIGHT *	MINIMUM	0.5" (15 mm)	6.3" (160 mm)	6.3" (160 mm)
	MAXIMUM	14.1" (360 mm)	26.0" (660 mm)	26.0" (660 mm)
OPEN HEIGHT TO TILT ROTARY TABLE * **	MINIMUM	-	-	0.0" (0 mm)
	MAXIMUM	-	-	18.7" (475 mm)
WORK TABLE	WIDTH	31.4" (800 mm)	31.4" (800 mm)	31.4" (800 mm)
	DEPTH	19.6" (500 mm)	19.6" (500 mm)	19.6" (500 mm)
WORK TANK	WIDTH	43.8" (1,115 mm)	43.8" (1,115 mm)	43.8" (1,115 mm)
	DEPTH	27.3" (695 mm)	27.3" (695 mm)	27.3" (695 mm)
	HEIGHT	5.9" (150 mm)	5.9" (150 mm)	5.9" (150 mm)
WEIGHT CAPACITY	ON WORK TABLE	1,750 lb. (795 kg.)	1,750 lb. (795 kg.)	1,750 lb. (795 kg.)
	ON TILT ROTARY TABLE	-	-	60 lb. (27 kg.)
GENERATOR	MAXIMUM AVERAGE CURRENT	30 A, 60 A **	30 A, 60 A **	30 A, 60 A **
	ON AND OFF TIME	1 to 99 μ s	1 to 99 μ s	1 to 99 μ s
	CAPACITORS	0 to 1.81 μ F	0 to 1.81 μ F	0 to 1.81 μ F
AUTOMATIC ELECTRODE AND GUIDE CHANGER	AEC POSITIONS	20, 30 **	20, 30 **	20, 30 **
	AGC POSITIONS	12 **	12	12
FLOOR SPACE AND WEIGHT	WIDTH	101" (257 cm)	101" (257 cm)	101" (257 cm)
	DEPTH	71" (180 cm)	71" (180 cm)	71" (180 cm)
	HEIGHT	92" (235 cm)	104" (264 cm)	104" (264 cm)
	WEIGHT	3,630 lb. (1,650 kg.)	4,520 lb. (2,050 kg.)	4,920 lb. (2,230 kg.)
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 \pm 10%, 3 PHASE, 60 Hz, 3.5 KVA	220VAC \pm 10%, 3 PHASE, 60 Hz, 3.5 KVA	220VAC \pm 10%, 3 PHASE, 60 Hz, 3.5 KVA
	AIR	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)

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

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