

## Belmont SY-4060 / SY-4060R / SY-4060R-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

#### **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)**

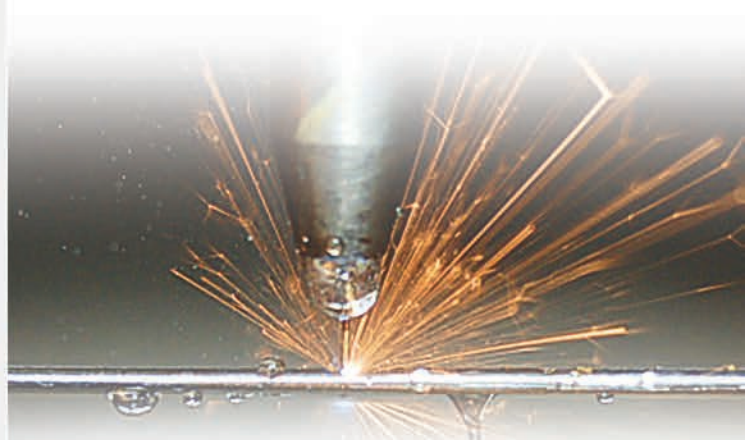
A special guide and guide sleeve delivers auxiliary flush down the guide body

#### **Programmable High Pressure Flush (optional)**

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



Model Shown: SY-4060R



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ISO 9001 : 2015 Registered



## Belmont SY-4060 / SY-4060R / SY-4060R-5X CNC High Speed EDM Drill Specifications

		SY-4060 CNC	SY-4060R CNC	SY-4060R-5X CNC
TRAVEL	X AXIS	23.6" (600 mm)	23.6" (600 mm)	23.6" (600 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)	15.7" (400 mm)	15.7" (400 mm)
		23.6" (600 mm) **	23.6" (600 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	-	-	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 $\mu$ s	1 to 99 $\mu$ s	1 to 99 $\mu$ s
	CAPACITORS	0 to 1.81 $\mu$ F	0 to 1.81 $\mu$ F	0 to 1.81 $\mu$ F
AUTOMATIC ELECTRODE AND GUIDE CHANGER	AEC POSITIONS	20 **, 30 **	20 **, 30 **	20 **, 30 **
	AGC POSITIONS	12 **	12 **	12 **
FLOOR SPACE AND WEIGHT	WIDTH	93" (236 cm)	93" (236 cm)	93" (236 cm)
	DEPTH	71" (180 cm)	71" (180 cm)	71" (180 cm)
	HEIGHT	92" (235 cm)	104" (264 cm)	104" (264 cm)
	WEIGHT	3,190 lb. (1,450 kg.)	4,035 lb. (1,830 kg.)	4,435 lb. (2,010 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
		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)
	AIR			

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

\*\* Optional.

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