

Belmont SY-1210 / SY-1210T 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)

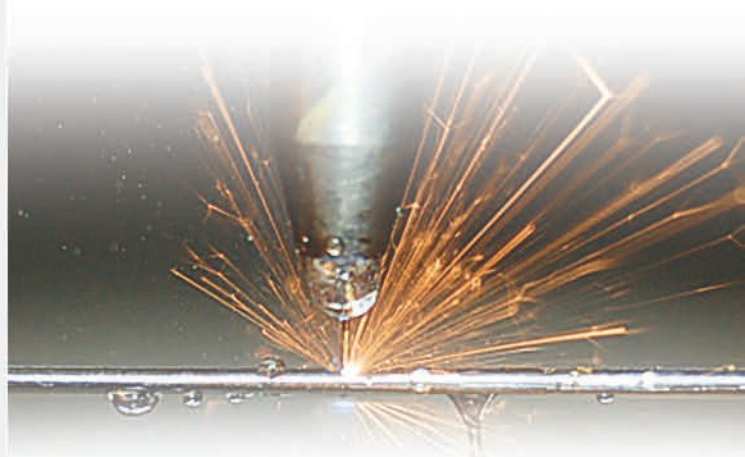
Probe the work piece to determine its 5 axis location and offset position in the part program

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



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Belmont SY-1210 / SY-1210T CNC High Speed EDM Drill Specifications

		SY-1210 CNC	SY-1210T CNC
TRAVEL	X AXIS	39.3" (1,000 mm)	39.3" (1,000 mm)
	Y AXIS	47.2" (1,200 mm)	47.2" (1,200 mm)
	W AXIS	39.3" (1,000 mm)	39.3" (1,000 mm)
	Z AXIS	15.7" (400 mm)	15.7" (400 mm)
		23.6" (600 mm) **	23.6" (600 mm) **
OPEN HEIGHT *	MINIMUM	3.1" (80 mm)	3.1" (80 mm)
	MAXIMUM	39.3" (1,000 mm)	39.3" (1,000 mm)
WORK TABLE	WIDTH	43.3" (1,100 mm)	43.3" (1,100 mm)
	DEPTH	51.1" (1,300 mm)	51.1" (1,300 mm)
WORK PAN	WIDTH	59.0" (1,500 mm)	59.0" (1,500 mm)
	DEPTH	70.8" (1,800 mm)	70.8" (1,800 mm)
WEIGHT CAPACITY	ON WORK TABLE	5,500 lb. (2,500 kg.)	5,500 lb. (2,500 kg.)
GENERATOR	MAXIMUM AVERAGE CURRENT	30 A, 60 A **	30 A, 60 A **
	ON AND OFF TIME	1 to 99 μ s	1 to 99 μ s
	CAPACITORS	0 to 1.81 μ F	0 to 1.81 μ F
AUTOMATIC ELECTRODE AND GUIDE CHANGER	AEC POSITIONS	-	20, 30 **
	AGC POSITIONS	-	12 **
FLOOR SPACE AND WEIGHT	WIDTH	104" (265 cm)	104" (265 cm)
	DEPTH	134" (341 cm)	134" (341 cm)
	HEIGHT	138" (350 cm)	138" (350 cm)
	WEIGHT	12,100 lb. (5,500 kg.)	12,540 lb. (5,700 kg.)
ENVIRONMENTAL	ROOM TEMPERATURE	68 to 77°F (20 to 25°C)	68 to 77°F (20 to 25°C)
	RELATIVE HUMIDITY	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
	AIR	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)	90 PSI @ 1 CFM (6 BAR @ 1.7 CMH)

* Maximum Open Height is measured from the work table to the X Axis bridge.

** Optional

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