



BELMONT
EQUIPMENT & TECHNOLOGIES
Divisions of Cleary Developments, Inc.

"Everything for EDM"

Belmont SY-1210U / SY-1210TU CNC High Speed EDM Drills

Features

- **Integrated Tilting Drill Head**
Programmable with $\pm 100^\circ$ of travel that allows complete part machining in a single setup
- **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
- **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-1210TGU with Automatic Electrode and Guide Changer

Call 800-356-4811 or visit us on the web at www.belmont4edm.com



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Specifications

		SY-1210U CNC	SY-1210TU 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)
	U AXIS (TILT HEAD)	±100° from vertical	±100° from vertical
	Z AXIS	15.7" (400 mm)	15.7" (400 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 µs	1 to 99 µs
	CAPACITORS	0 to 1.81 µF	0 to 1.81 µF
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	142" (361 cm)	142" (361 cm)
	WEIGHT	12,540 lb. (5,700 kg.)	12,980 lb. (5,900 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 ±10%, 3 PHASE, 60 Hz, 3.5 KVA	220VAC ±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 work table to the X Axis bridge.

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.

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