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Laser Station for Welding Biocompatible Plastic Materials



Applications:

- Suitable for accurately welding circular parts

- Welding of biocompatible

plastic components but not only

- Producing multiple circular

welds along the Z (vertical) axis

System	 Fixed beam with adjustable focus length and spot size 	 10mm < F < 200mm 20um < spot size < 2mm
Specifications	- Real time imaging during the welding process	 CCD Camera Local data logging or to network
	- High resolution motorised linear stage along the Z axis	Controlled by a microcontroller
	- Rotation stage around the Z axis	Variable programmable speed
	- Solid state fiber coupled laser	 Output power based on application; max 50W CW or Pulsed Mode of operation Red aiming beam
	- Computer controlled system	 Incorporated in the system
	- GUI via touch screen or keyboard and mouse	
	- Warning tower light	System status
	- Integrated laser powermeter	 For laser power callibration and validation
Utility and	Operating Voltage	• 110V - 240V, AC
Requirements	Electrical Interface	•
	Maximum Power Consumption	• 200W
	Operating Temperature	• 10C to 40C
	Storage Temperature	• 5C to + 70C
	Laser Safety Class	• 4
	Safety	 Interlock on front door Laser warning labels Emergency Stop
	Dimensions (L x W x H), (mm)	• 650mm x 450mm x 600mm