

Laser Spot Welding Machine

FoRza 180 - 3D



The absence of the ocular in the 3D Vision system allows a wide vision of the objects to be welded at high resolution, ensuring better comfort, reducing eye stress and greater freedom of movement of the head.

In addition to the benefits for the operator's health, the production efficiency of the company is increased.

The 3D vision installed in the laser welding machine therefore allows a series of advantages and the main ones are:

- Possibility to weld with optics (glass)
- Increased productivity
- Long working shifts, reducing eye tiredness
- Fast operator change, not having to align the eyes with the binocular
- Stereoscopic vision of the object

Simple and Intuitive

Adjustable touch screen display 123 x 68mm
storage cell with name
Multi-language display

High Quality

Steremicroscope 10X
45°inclination with UV ray and laser radiation protection (for the eyes)
Higher brightness shutter

- Touch Screen Display.
- On Board comes with Live Video.
- Double Radiator for better cooling.



Optional : Water Chiller
External water chiller for
Forza 160 / Forza 180



Ease Operation
Soft Arm Rest for easy
Long hours operations for operator

Ergonomically Design

Internal joystick to the welding chamber
Big inspection window
LED cold and white light in the chamber
allows continues hours of hassle free operations.

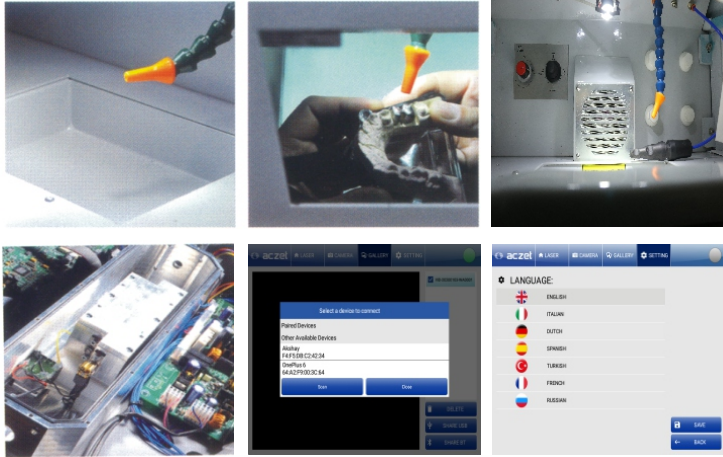
Environment Condition : Need to Maintain 22°C Dust-free Environment
Need to maintain proper earthing

Desktop Laser Spot Welding FoRza Series

Technology

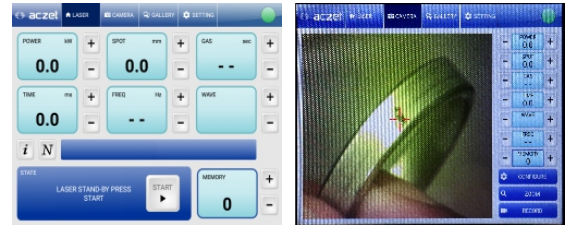
The new digital microprocessor incorporated in the FoRza works 100 times faster than traditional systems, and is able to measure the high energy precisely, analysing it and sampling it every 100 micro seconds.

This makes welder FoRza a powerful machine while at the same time constant and very precise in the repetition of the shots.



Features

- Real time and automatic regulations of the power supply.
- Automatic control of the laser lamp, with consequent automatic adjustment of the energy.
- Better cooling chamber & Efficient air cooling system, with 2 radiators.
- 6 preset pulse shaping programs
- Argon Gas nozzle directly on the welding point
- Air nozzle for cooling pieces in the working chamber
- Low noise and low maintenance
- Memory to store 100 parameters
- Frontal and big doors
- In screen camera live screen with cross hair.
- Language Options
- Video can be recorded while operating/Welding.
- Gallery/Storage for recorded video.
- Bluetooth & USB sharing option.
- In-display operating manual.
- Joystick for easy operation.



LASER APPLICATION

- Easily weld precious / non-precious metals including platinum, titanium, gold, silver and palladium.
- Repairs old jewellery perfectly.
- Repairs molding without removing the stones.
- Welds the elements using weld materials, and leaves them clear, sharp and without the need to clean again.
- Repairs casting defects such as porosity or breakages. by simply welding those areas with solder wire.
- Suitable for high-productive cycles



Welding Samples

- Welding broken ring
- Welding on Jewellery joints
- Working directly on the models
- Welding of pins
- Repairs scratch and casting defect
- Reconstruction of stones setting

Model	FoRza-180 - 3D
Maximum Laser Power	180J @ 20mS
Peak Pulse-Power	9 Kw
Avg. Pulse-Power	100 W
Frequency of Repetition	0.5 to 30Hz
Spot Size	0.2 to 2.0 mm
Microscope	LYNX EVO 3D Vision Stereo Microscope
Program	6, preset
Program Memory	cells 99
Weight	48 kg
Dimension (D x W x H)	896 x 505 x 582 mm

Specifications are subject to change without prior notice.
Images shown are for illustration purpose only.

Aczet Pvt. Ltd.

H. O. : Unit E2, Plot No. 15, WICEL Estate, Opp. Seepz Gate No. 1, Andheri (E), Mumbai - 400 093, India.
Tel. : +91 - 22 - 4243 7700 • E-mail : export@aczet.com • Web : www.aczet.com