

# ExactWeld 230

## High Precision Laser Welding

Our new line of laser welding machines provides a cost-effective solution for high-precision welding applications. It is an ideal tool for scanner welding of small to medium sized metal parts. Typical applications are in automotive production, electronics, and medical device manufacturing. This new line of laser machines features a wide assortment of scanner heads for the most challenging, precision-welding applications, and motorized X/Y/Z axes. The systems are powered by our latest fiber laser technology and provide low cost of ownership through high productivity and enhanced ease-of-use. They are backed by our outstanding applications and global service support infrastructure.



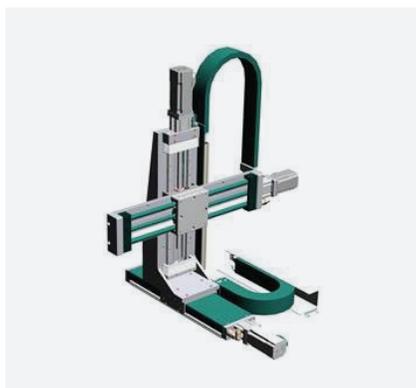
### FEATURES

- High-productivity precision welding system with patented SmartWeld™ technology
- Powered by latest fiber laser technology
- Class 1 laser housing meets the newest ergonomic guidelines
- Welded steel construction base frame
- High process consistency
- Industry 4.0 ready
- Servo motor with X/Y/Z axis travel
- Large working chamber
- Pneumatic lifting door available

### APPLICATIONS

- Welding of Metals

| Specifications                                   |  | ExactWeld 230  |
|--|--|--|
| Interface  |  |  |
| Display and Operation                            |  | 24" screen + keyboard  |
| Data Interfaces                                  |  | USB device, RJ45 connection  |
| Installation                                     |  |  |
| Dimensions (L x W x H)                           |  | 1700 x 1000 x 2050 mm (66.9 x 39.4 x 80.7 in.)                         |
| Weight   |  | 1100 kg (2425.5 lbs.)  |
| Maximum Payload                                  |  | 100 kg (220.5 lbs.)  |
| Electric   |  |  |
| Energy (VAC)                                     |  | 400  |
| Frequency (Hz)                                   |  | 50/60  |
| Current (A)                                      |  | 16   |
| Power Consumption                                |  |  |
| Effective Power (kW)                             |  | 1.4  |
| Standby (kW)                                     |  | 0.8  |
| Pneumatic  |  |  |
| Compressed Air                                   |  | 6 bar  |
| Installation Conditions                          |  |  |
| Laser Safety Class (according to EN60825-1:2015) |  | Laser Class 1  |
| Description                                      |  | As seated and standing workplace available (worktable or rotary table) |



| Precision Module  |   |
|---|---|
| X/Y-Axis Travel (mm)  | 400 x 400 x 300 mm (15.75 x 15.75 x 11.8 in.) |
| Drive   | Servo motor with ballscrew                    |
| Positioning Accuracy (mm)   | 0.06   0.06   0.1                             |
| Repeatability Accuracy (mm)   | 0.01   0.01   0.01                            |
| Several Axis variants available, starting from single Z-Axis up to X/Y/Z-Axis |   |



**INTEGRATED PowerLine FL**

- 200 W to 600 W
- Analog power control
- High efficiency
- Safety features (industrial standard)
- Innovative control unit

**Wide Range of Optics for Challenging Laser Fine-Welding Applications**

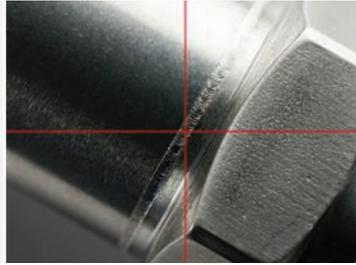


Options



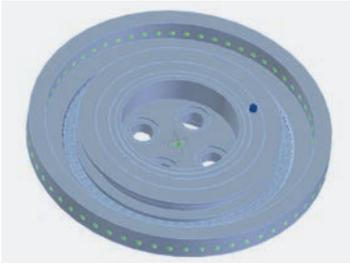
**Rotary Axis**

Direct drive rotary axis with a maximum rotating speed of 500 r/minute and a rated rotation speed of 1000 r/minute.



**CCD Camera**

CCD camera with integrated crosshair generator for easy positioning.



**Fixtures**

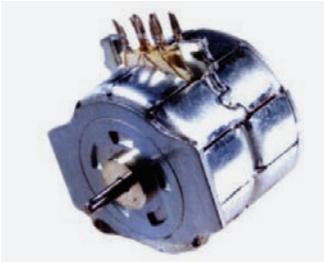
Extensive know-how in part-specific workpiece holders



**Foot Switch**

For a comfortable start of the CNC routine

Applications



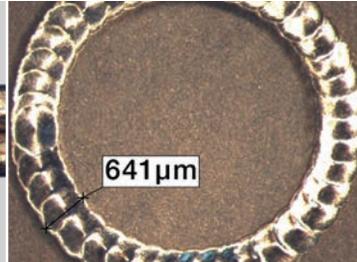
**Contact Welding**

Minimum welding spots with diameters far below 0.1 mm.



**Seam Welding**

Small seam geometries at high welding speeds. The results are welds of maximal strength at minimal thermal input for the workpiece.



**Freeform Welding**

From simple to very complex geometries. Individual designs, prototypes and single production.



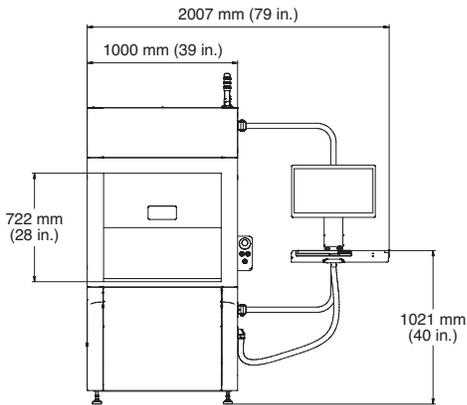
**Seal Welding**

No porosities and crack free seams provide for leakproof weldings.

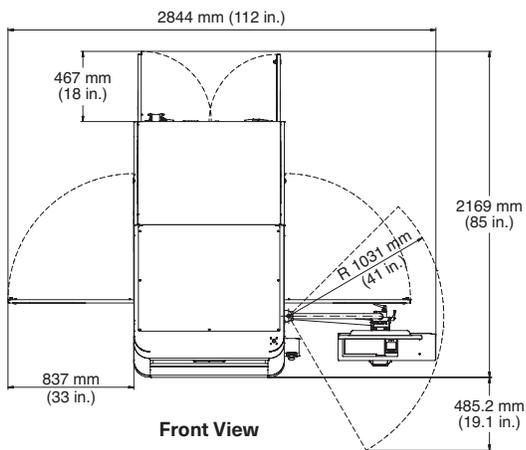
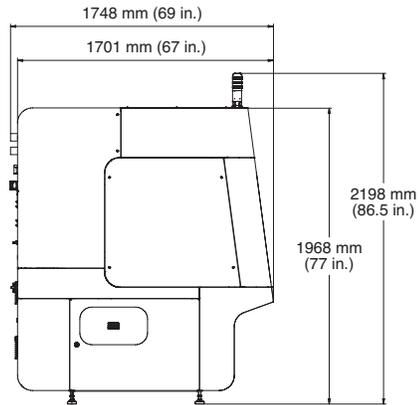
Mechanical Specifications

ExactWeld 230

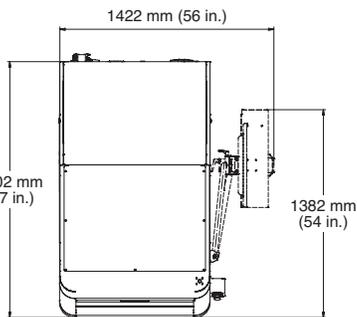
Front View



Side View



Front View



Front View  
for Transport

