



HPC Laser Fibre Laser Welder

Fast, Precise Effortless Welding

Fibre laser welders offer a modern, efficient solution for metal fabrication, providing fast and precise welding across a wide range of metals. Capable of welding materials up to 5mm with the 2kW option and 8mm with the 3kW option, they deliver consistently high-quality results with minimal experience and training required. Combining speed, precision and ease of use, fibre laser welders provide a highly effective solution for a wide range of welding applications.



Innovative Features:

■ Compatible with a Wide Range of Metals:

Including Carbon Steel, Stainless Steel, Aluminium, Brass, Copper, Titanium, Lead, Tungsten Carbide, Alloy Steels & Precious Metals.

■ Lightweight Gun:

Designed for comfort and easy operation, reducing fatigue while providing excellent control and manoeuvrability.

■ Quick and Easy to Learn:

Minimal prior welding experience required so your more experienced welders can work on more complex welds.

■ Water-Cooled System:

Keeps the laser source running at optimal temperature, supporting a greater duty cycle for sustained industrial use.

■ User-Friendly Touchscreen Interface:

A simple, intuitive screen makes everyday operation straightforward for any operator.

■ Laser Cleaning Function:

Removes rust, paint, oxides, grease, oil and coatings quickly, boosting productivity on the shop floor.

■ Dual Power Options:

Available in 2kW or 3kW Continuous Wave Fibre Laser Source, welding typically up to 5mm and 8mm respectively

■ Integrated Pilz Safety Relays:

Integrates with emergency stops, safety interlocks, gate switches and light curtains to monitor circuits and isolate machine power on hazard detection.

■ Low Maintenance Design:

A simple, reliable build with few moving parts keeps running costs and downtime to a minimum.

■ Adjustable Laser Power:

Precise power control allows the laser intensity to be tailored to different materials and thicknesses, helping achieve consistent, high-quality results.

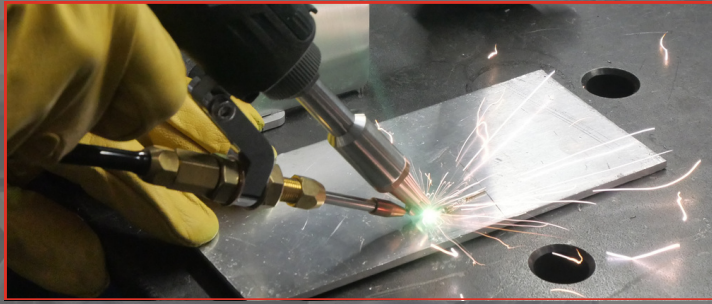
■ Lockable Emergency Stop Function:

A secure, lockable E-Stop adds an extra layer of workplace safety.

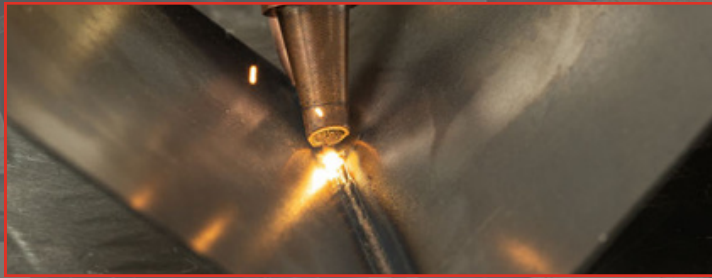
■ Wide Range of Nozzles & Welding Mask:

Nozzles designed for different geometries, supplied as standard alongside a Laser Vision Welding Mask.

Effortless Welding:



Outstanding Results:



Key Features:



Lightweight Gun for Easy Handling



User Friendly Touchscreen Operation



Self Contained Water Chiller



10m Long Fibre Cable



Adjustable Welding Width

Specifications:

Model Comparison:

Model:	2000i	3000i
Laser Power:	2kW	3kW
Power Supply:	230V 1-ph 32A	415V 3-ph 32A
Maximum Current:	27.5A	24A
Handheld Gun:	SUP21T	SUP21T
Max Weld Thickness:	5mm	8mm
Max Weld Scan Width:	5mm	6mm
Max Clean Scan Width	30mm	120mm
Base Unit Size (WxDxH)	630x1000x910mm	630x1200x960mm
Weight:	250kg	300kg

Shared Spec:

Laser Wavelength:	1080nm
Laser Mode:	Single-mode continuous wave
Laser Class:	IV
Laser Source:	Max Photonics
Shielding Glass:	Argon / Argoshield / Nitrogen
Ideal Gas Pressure:	3 bar (45psi)
Cooling:	S&A self-contained water chiller
Wire Feeder:	Steel, Stainless Steel and Aluminium Wire 0.8 / 1.0 / 1.2 / 1.6mm · Continuous or pulse · Max reel 15kg (300mm) Unit Size (WxDxH) 250 × 570 × 400mm . Weight - 13.2kg



01422 310800

sales@hpclaser.co.uk

www.hpclaser.co.uk

HPC Laser Ltd., Unit B - Ainleys Industrial Estate, Ainley Bottom, Elland, West Yorkshire, HX5 9JP

