CARTER MACHINERY | QUOTATION

2000 W handheld fibre laser welder

3-in-1 welding, cutting and cleaning | 1500 W option available



Product illustration in Carter red and graphite.

2000 W | Handheld fibre laser

£10,495 + VAT

£12,594 including VAT | Single wire feed

Double wire feed £11,145 + VAT

1500 W | Handheld fibre laser

£8,995 + VAT

£10,794 including VAT | Single wire feed

Double wire feed £9,645 + VAT

Quantity discounts

10% off when you order 2 | 15% off when you order 4 or more

Choose your wire feed setup

Single wire feed is included with both power ratings.

Double wire feed is available for £650 + VAT per machine.

Payment terms

30% deposit with order. Balance due before delivery or collection.

Carter Machinery Co Ltd’s Terms and Conditions of Sale apply.

Alex Carter | 0800 644 4045

sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/

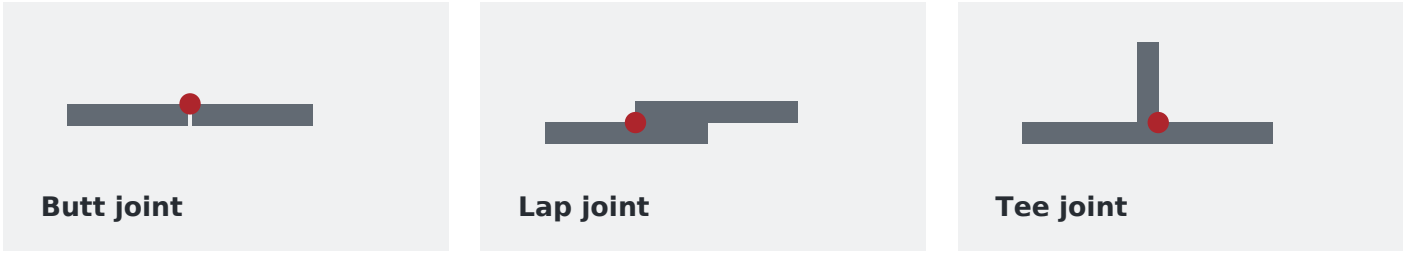
Welding, cutting and cleaning

Process guide | 2000 W and 1500 W

Laser welding

A focused beam melts the joint locally. Where filler is required, the wire feeder supplies wire to the weld. Concentrated heat can help limit distortion on thin parts.

Typical work includes enclosures, brackets, frames and sheet-metal repairs.



Joint cross-sections. Red marks the illustrated weld location.

Laser cutting

Use cutting mode for trimming sheet-metal parts or following straight and curved cuts. The cut width and edge finish depend on the material and setup.

Laser cleaning

Use cleaning mode for local surface preparation or cleaning around a weld bead. The suitable cleaning width and finish depend on the optics and the surface.

Wire feed and process setup

Single wire feed is the standard package. Double wire feed is an option for jobs that call for two filler wires. Confirm the joint, material and filler requirements with Carter when choosing a setup.

Torch accessories and optics are selected for the process and quoted configuration.

Alex Carter | 0800 644 4045

sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/

Technical specification

Carter 2000 W and 1500 W handheld fibre laser systems

Machine specification

Nominal output	2000 W or 1500 W | Manufacturer-stated tolerance ±2%
Operating modes	Continuous and pulse
Central wavelength	1080 nm ±10 nm
Fibre and connection	50 µm core diameter | QBH connector | Coaxial beam delivery
Electrical supply	415 V AC three-phase, 50 Hz
Cooling and temperature	Water-cooled | Operating temperature 10–40 °C
Wire feed options	Single included | Double wire feed +£650 + VAT per machine
Warranty	24 months, parts and labour

What we need to confirm your quotation

Material grade, thickness and joint type for the parts you want to weld.

Any cutting or cleaning requirements and the expected production volume.

Delivery postcode, access and whether you need unloading or positioning.

Workshop layout and any laser guarding or extraction already in place.

Delivery, positioning and the laser safety package are quoted separately.

Prices and lead time are subject to final specification and availability.

Process capacities are confirmed for the material, thickness and application.

Alex Carter | 0800 644 4045

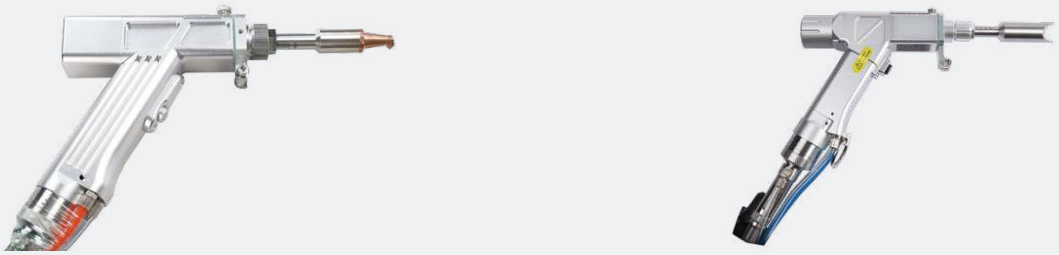
sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/

Handheld torch and package details

Carter 2000 W and 1500 W | Single or double wire feed

Handheld torch

The torch directs the fibre laser onto the workpiece. Filler wire is supplied by the feeder for welding jobs that require it.



Brochure torch photographs. Supplied head and fittings are confirmed with the order.

Welding setup

Welding nozzle and filler-wire guide selected for the joint and wire used.

Cutting setup

Cutting nozzle configuration selected for the material and required cut.

Cleaning setup

Cleaning optics and nozzle selected for the required clean width and finish.

Machine and wire feed package

Water-cooled fibre laser unit, handheld torch and single wire feeder.

Double wire feed upgrade available on both power ratings for £650 + VAT.

Configuration details to confirm with your order

Torch head, lead length, nozzle and lens set, wire sizes and shielding gas requirements.

Machine dimensions, weight, input current and process capacities for your application.

Send a drawing or sample part details so Carter can confirm the setup.

Alex Carter | 0800 644 4045

sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/

Machine and feeder specifications

Brochure configurations | Confirm against the quoted Carter unit

Performance and equipment figures are taken from the supplied brochure.

See page 3 for the Carter electrical supply specification.

Specification	1500 W reference	2000 W reference
Rated input power	5.8 kW	7.8 kW
Nominal output	1500 W	2000 W
Central wavelength	1080 nm ±10 nm	1080 nm ±10 nm
Electro-optical efficiency	≥40%	≥40%
Fibre cable length	12 m	12 m
Cooling / tank capacity	Water-cooled / 8 L	Water-cooled / 8 L
Operating temperature	−10 to 40 °C	−10 to 40 °C
Coolant requirement	Antifreeze at ≤7 °C	Antifreeze at ≤7 °C
Relative humidity	≤70% at 40 °C; ≤90% at 20 °C	≤70% at 40 °C; ≤90% at 20 °C
Machine weight	85 kg	92 kg
Packed machine weight	103 kg	110 kg
Machine dimensions (mm)	773 × 410 × 737	773 × 410 × 737
Packed dimensions (mm)	865 × 475 × 1035	865 × 475 × 1035
Single feeder weight	11.5 kg	11.5 kg
Single feeder packed weight	17.3 kg	17.3 kg
Single feeder dimensions (mm)	628 × 240 × 340	628 × 240 × 340
Single feeder packed size (mm)	890 × 320 × 430	890 × 320 × 430
Double feeder weight	See quoted configuration	30 kg
Double feeder packed weight	See quoted configuration	33 kg
Double feeder size (mm)	See quoted configuration	575 × 296 × 832.5
Double feeder packed size (mm)	See quoted configuration	665 × 335 × 980

Alex Carter | 0800 644 4045

sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/

Welding, cutting and cleaning data

Brochure configurations | Confirm against the quoted Carter unit

Performance and equipment figures are taken from the supplied brochure.

See page 3 for the Carter electrical supply specification.

Specification	1500 W reference	2000 W reference
Weld materials	Stainless, carbon steel, aluminium	Stainless, carbon steel, aluminium
Single wire / autogenous scan	0–6 mm	0–6 mm
Single wire / no-filler penetration	0.5–3 mm	0.5–4.5 mm
Single wire / no-filler thickness	0.5–5 mm	0.5–6 mm
Steel filler diameter (mm)	0.8 / 1.0 / 1.2 / 1.6	0.8 / 1.0 / 1.2 / 1.6
Aluminium filler diameter (mm)	1.2 / 1.6	1.2 / 1.6
Double wire scan / penetration	See quoted configuration	5–8 mm / 3–5 mm
Double wire thickness / filler	See quoted configuration	3–6 mm / 1.2 or 1.6 mm
Welding gas	Argon or nitrogen / ≥3 bar	Argon or nitrogen / ≥3 bar
Joint gap with filler	Up to filler wire diameter	Up to filler wire diameter
Recommended / max cut thickness	Up to 3 mm / 5 mm	Up to 5 mm / 6 mm
Cutting gas	Argon or nitrogen / 4–7 bar	Argon or nitrogen / 4–7 bar
Cleaning speed	50 mm/s	50 mm/s
Torch A standoff / max clean width	15 cm / 10 mm; 60 cm / 80 mm	Same by torch and lens
Torch B standoff / max clean width	15 cm / 30 mm; 40 cm / 60 mm	Same by torch and lens
Torch B, longer standoff	80 cm / 120 mm	Same by torch and lens
Cleaning gas	Dry, oil-free inert gas / ≥3 bar	Dry, oil-free inert gas / ≥3 bar
Separate wide-cleaning variant	See separate 2000 W configuration	15 cm / 150 mm; 40 cm / 225 mm
Wide-cleaning, longer standoff	See separate 2000 W configuration	80 cm / 300 mm

Alex Carter | 0800 644 4045

sales@cartermachinery.co.uk | cartermachinery.co.uk/laser-welders/