FLW-T Series

Handheld 4-in-1 laser welder



AT A GLANCE

FUNCTIONS	LASER POWER	MILD STEEL WELDING	WEIGHT
4-in-1 welding, cutting, cleaning, weld cleaning	**1,000–3,000** W	**0.5–10** mm	**150 kg / 250 kg** (3 kW)

ABOUT THE MACHINE

The FLW-T Series is the handheld laser welding machine for use on the shop floor and on site, wherever the part cannot be dismantled. It welds, cuts, cleans surfaces and cleans welds with the same equipment; only the working head changes. Power 1,000–3,000 W, 0.5–10 mm weld penetration on mild steel, 3–10 times faster than TIG, wire feed 25–600 cm/min and an on-screen control interface in 19 languages.

Technical data

MODEL	FLW-T (4-IN-1)
Laser power	1,000–3,000 W
Mode switching	Welding / Cleaning / Cutting / Weld cleaning
Laser wavelength	1080 nm (±10 nm)
Cleaning width	5–100 mm (adjustable)
Weld penetration	mild steel 0.5–10 mm
Cutting speed	50–200 mm/s
Scanning distance	0.05–1 mm
Machine weight (without accessories)	150 kg / 250 kg
Cooling	water
Machine dimensions (mm)	L 1,045 × W 456 × H 975 L 1,145 × W 556 × H 1,075

Official ACME specifications — FLW-T 4-in-1 model.

Why the FLW-T Series

01 One machine, multiple operations

Welding, cutting, cleaning and weld cleaning on the same equipment, with no change of machine between operations. Suited to high-mix, small-batch production.

02 Compact and easy to move

Small and light, it stands on wheels and needs no fixed workstation: it can be taken onto the shop floor, out on site or right up to a part that cannot be dismantled. It works quickly, with little labour and low operating costs.

03 Automated and easy to learn

An operator with no welding experience can start work within a few hours. The control system interface is available in 19 languages; the system displays faults in real time and raises the alarm automatically.

04 Handles the common metals

Works on stainless steel, mild steel, galvanised sheet and aluminium.

Interested in the FLW-T Series?

Tell us what you need to weld — the material and thickness, the joint type (butt, corner, lap), how many hours a day the machine will run and whether it stays at a fixed workstation or moves around the shop floor. We will reply in writing with the right configuration: power, working heads and wire feed.

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