KEMPPI

FASTBEAM 3
IT'S LASER WELDING NOT SCI-FI

FastBeam 3 is a Finnish-made 3 kW handheld fiber laser welding machine for fast, controlled welding of various kinds of metals. Weld like it's 2126.



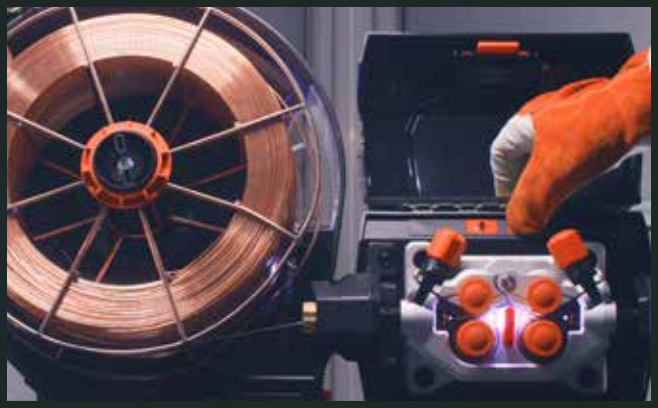
FINNISH PRECISION AT LASER SPEED

FastBeam 3 puts 3 kW fiber laser performance into a handheld welding system made for real industrial production. Manufactured in Finland, it combines high welding speeds and deep penetration with a narrow heat-affected zone, helping reduce distortion and finishing work.

Penetration Shape Control allows welders to adjust beam shape, balance and power to suit the joint, while the wobble width can be adjusted from 0 to 5 mm with a frequency of 20 to 200 Hz for precise weld-profile control. Weld Assist simplifies parameter setup, and WeldEye integration provides welding data and traceability.

Layered safety features, a wheeled power source, a ControlPad with an operating range of up to 10 meters, controlled filler-wire feeding, and an ergonomic water-cooled torch make FastBeam 3 ideal.





Finnish-made reliability for long-term production

Made in Finland, FastBeam 3 comes with long-term spare-parts availability and dependable lifecycle support giving production teams an extended value on the investment.



Faster setup and precise weld control

FastBeam 3 combines 3 kW fiber laser power with adjustable beam shape, balance, wobble and power, helping welders increase speed while maintaining control over penetration and weld profile.



Industry leading laser welding safety

FastBeam 3 supports safer handheld laser welding with color-coded status lights, a limited start window after torch contact and automatic laser power cut-off with double backup.

MAIN FEATURES

- Finnish-made 3 kW fiber laser
- Long-term spare parts availability
- High speed and deep penetration
- Narrow heat-affected zone
- Penetration Shape Control
- Adjustable beam wobble from 0–5 mm at 20–200 Hz
- Weld Assist for fast, guided parameter setup
- Water-cooled laser source and LT3 welding torch
- High-capacity external chiller with 5 m and 10 m hose options
- CoolFeed 300 for 0.8–1.6 mm filler wires
- Dual-wire feeding with two CoolFeed 300 units
- ControlPad operation up to 10 m from the power source
- Ergonomic LT3 torch
- A laser welding helmet and protective goggles are recommended (Lambda L200, Starlight Plus)
- CoolFeed boom hanger option
- Double trolley for mobile system transport
- Cleaning process



Take control of FastBeam 3 with the robust touchscreen Control Pad and included 10-metre cable. Suitable for inhabitants of other planets.

FASTBEAM 3

Feature		FastBeam 3
Mains connection voltage 1~50/60 Hz		380...415 V ±10 %
Laser class		4
Optical fiber diameter		50 µm
Optical fiber length		10 m
Maximum laser power		3000 W
Laser wavelength		1070 nm
Laser beam quality		BPP 0.7
Operating temperature range		5...40 °C
Degree of protection		IP33
EMC class		A
External dimensions	L x W x H	1100 × 468 × 847 mm
Weight without accessories		110 kg
Product code		FB3000W

ACCESSORIES

Trolley for double wire feeders CFDT
CoolFeed Wheel Set CFWS
CoolFeed Boom Hanging Kit CFBOOM



DESIGNED FOR WELDERS

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