



DUELER EHL 1500

REDEFINING WELDING
PRECISION



**A PORTABLE, HIGH-QUALITY PROFESSIONAL TOOL
DESIGNED FOR PRECISION WELDING IN STAINLESS
STEEL, CARBON STEEL, AND ALUMINIUM.**

The ESAB Dueler EHL 1500 laser welder is a portable, high-performance professional system engineered for precision welding of stainless steel, carbon steel, and aluminium. With advanced laser technology and integration expertise, it delivers exceptional accuracy and efficiency across a wide range of applications.

Featuring a 1500W air-cooled laser power source, the ESAB Dueler delivers up to 6.5mm penetration with minimal distortion, making it the ideal solution for demanding fabrication environments.

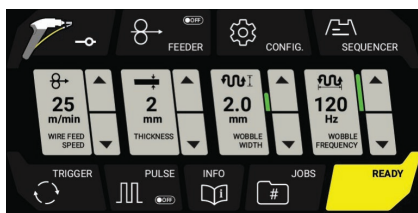
A bright 7-inch TFT display with an intuitive user interface provides precise control of welding parameters, allowing you to tailor the laser output for a wide range of applications - from fine seam work to deep penetration welds.

The integrated wire feeder supports multiple wire diameters from 0.8-1.6mm, to suit various materials, joint types and thicknesses ensuring consistent high quality welds.

Fully compliant with regional standards and laser safety regulations, the ESAB Dueler EHL 1500 is engineered for safe, reliable operation in both workshops and field environments.

INDUSTRY

- Light Construction
- General manufacturing
- Automotive
- Railway industry
- Sheet metal welding
- HVAC
- Gastronomy



Intuitive User Interface with synergic control of welding parameters

FEATURES

- The first-ever truly compact air-cooled manual laser system featuring a fully integrated wire feeder
- Rugged and reliable robust industrial design with a best-in-class IP rating, suitable for all environments
- Designed for ease of use, the ESAB Dueler suits both beginners and experienced welders. The intuitive ESAB interface delivers a user-friendly experience, helping to minimise the learning curve
- High-power 1500W laser source for up to 6mm penetration with minimal distortion. Advanced beam control and customizable parameters deliver exceptional results
- Efficient compact air-cooled design with a high-performance cooling system ensures uninterrupted operation
- Synergic mode available for materials including,
 - Aluminium
 - Stainless Steel
 - Mild Steel
 - Galvanized Steel
- Material Thickness for synergic mode: 1-5mm

SPECIFICATIONS

Model	Dueler EHL 1500
Max. power	1.5 KW
Mains Voltage	230 VAC ± 10%, 1 PH, 50/60 Hz
Fuse Slow	32 A
Rated KVA	6 kVA
Cooling	Forced air circulation
Laser class	Class 4
Laser beam wavelength	1080 nm
Beam wobbling width range	0 - 4 mm
Beam wobbling frequency range	1 - 280 Hz
Welding Output	Full output power duty cycle: 120s continuous laser output on 1500W, 6s cooling
Setting Range	150W – 1500W
Torch / Process fiber length	10 m
Operating temperature	10 - 40°C
Operating ambient relative humidity	10 – 85%
Supply plug	32A / 230V single-phase industrial plug (P, N, E)
Weight	105 kg
Welding torch weight	680 g
Dimensions	1039 x 491 x 1014 mm

ORDERING INFORMATION

Dueler EHL 1500	0700028000
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Delivery includes:

Dueler EHL 1500: laser power source, integrated laser welding torch 5.6m, nozzles set, wire feeding set, protective glass 5 pcs, external I/O interface, gas hose adapter.

ADDITIONAL ACCESSORIES

Laser Booth	760000
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Laser Welding Safety Booth

Dimensions Customisable upon request.
Standard size 3x3m



Disclaimer: Commissioning of the Dueler EHL 1500 is subject to standards and law compliance requirements. Users must successfully complete a class 4 laser safety course in accordance with Australian standards and obtain Cigweld approval of the Laser Booth specifications. Contact your Cigweld sales representative for more information.

OPTIONS & ACCESSORIES

Wire welding nozzle type A	0700028005
Wire welding nozzle type B	0700028006
Butt weld nozzle	0700028003
Fillet weld nozzle	0700028004
Flat nozzle	0700028007
Wire feeding torch fixture	0700028016
Protective glass for laser torch	0700028001
Nozzle connecting pipe	0700028002
Wire feeding tip 0.8 mm	0700028012
Wire feeding tip 1 mm	0700028013
Wire feeding rolls set 1.2 mm	0700028014
Wire feeding rolls set 1.6 mm	0700028015
L-30 Laser Welding Helmet	0700700100
Feed Roller V Groove for Fe/SS/C 0.8-0.9/1.0 mm	0445 850 002
Feed Roller V Groove for Fe/SS/C 0.9/1.0-1.2 mm (fitted)*	0445 850 004
Feed Roller V Groove for Fe/SS/C 1.4-1.6 mm	0445 850 006
Feed Roller U Groove for Al 1.0-1.2mm	0445 850 051
Inlet Wire Guide Ø 2 mm for Fe/SS/Al/C 0.6-1.6mm*	0445 822 001
Inlet Wire Guide Ø 3 mm for Fe/C 1.8-2.4 mm	0445 822 002
Middle Wire Guide for Fe/SS/C 0.6-1.6 mm*	0446 080 882
Middle Wire Guide for Fe/C 1.8-2.4 mm	0446 080 883
Middle Wire Guide for Al 0.8-1.6 mm	0446 080 881
Outlet Wire Guide for Fe/SS/C 0.6-1.6 mm*	0445 830 881
Outlet Wire Guide for Fe/C 1.8-2.4 mm	0445 830 882
Outlet Wire Guide for Al 0.8-1.6 mm	0445 830 885

