

HANDHELD LASER SYSTEMS

Precision. Power. Performance.



WATER-COOLED + AIR-COOLED SOLUTIONS

TitanLaser 3-in-1 | TitanLaser Surf | NEXA MX

2026 SERIES

WELCOME TO THE FUTURE OF METAL FABRICATION

Precision. Power. Performance.

Headux is at the forefront of laser technology, delivering innovative, efficient, and reliable handheld laser solutions for the modern metalworking industry. Our comprehensive range of water-cooled and air-cooled systems is designed to meet the diverse needs of fabricators, from small workshops to large-scale industrial operations. Whether you need high-speed welding, precision cleaning, or accurate cutting, Headux provides the power and versatility to enhance your productivity and profitability.

Engineered with a focus on user experience, our machines are built to be powerful, intuitive, and durable, ensuring that even complex tasks become simple and efficient. With Headux, you are not just investing in a machine; you are investing in a partnership for growth and success.



PRECISION. POWER. PERFORMANCE.

LASER SYSTEMS ENGINEERED FOR MODERN METAL FABRICATION

Headux delivers efficient and reliable handheld laser solutions for workshops and industrial production. The portfolio combines high-power water-cooled systems and compact air-cooled machines for welding, cleaning and cutting applications.

01



TITANLASER 3-IN-1

Welding, cleaning and cutting in one platform.

02



TITANLASER SURF

Industrial-grade surface preparation and cleaning.

03



NEXA MX

Compact air-cooled welding for mobile productivity.

04



ACCESSORIES

Torches, wire feeder and mobility solutions.

4

PRODUCT FAMILIES

10

CORE MODELS

1

CONNECTED SYSTEM

WATER-COOLED 3-IN-1

TITANLASER 3-IN-1

WELDING, CUTTING & CLEANING

The TitanLaser is a revolutionary all-in-one solution that combines the capabilities of a laser welder, cutter, and cleaner into a single, powerful system. This turnkey solution is the ultimate tool for fast sheet metal fabrication, offering unparalleled versatility and efficiency. TitanLaser 1500 (1500W) | TitanLaser 2000 (2000W) | TitanLaser 3000 (3000W)

WATER-COOLED LASER SYSTEMS

Our water-cooled series represents the pinnacle of power and endurance, designed for continuous, heavy-duty industrial applications. Featuring advanced dual-temperature and dual-control water cooling systems, these machines ensure stable, long-term operation and deliver consistent, high-quality results.



UNMATCHED VERSATILITY

Seamlessly switch between welding, cutting, and cleaning modes to handle a wide variety of tasks with a single machine, saving valuable workshop space and capital.

HIGH WELDING EFFICIENCY

Achieve welding speeds up to 10x faster than traditional TIG welding. The process is clean with minimal spatter, undercut, or distortion, reducing the need for rework and post-weld cleaning.

SUPERIOR WELDING QUALITY

The continuous wave (CW) laser delivers a focused heat input, creating a very limited heat-affected zone (HAZ). This results in high-quality, smooth weld seams with minimal distortion, even on thin materials.

APPLICATION

Carbon steel, stainless steel, galvanized sheet, aluminum alloy, titanium alloy, and more.

PRECISE LASER CUTTING

Refined heat input allows for precise cutting with smooth cut surfaces and minimal striation. Perfect for both straight and curvilinear cutting with a tiny kerf width.

EFFICIENT LASER CLEANING

Quickly and effectively remove rust, paint, and oxides without damaging the base material. The non-contact, zero-consumable process is environmentally friendly and highly efficient.

CLEANING WIDTH

Focal length 800mm, max cleaning width up to 120mm (ideal for precise cleaning).

COST-EFFECTIVE

Low skill requirement reduces labor costs, and the pump source boasts a lifespan of over 100,000 hours with almost zero maintenance needed.

WATER-COOLED 3-IN-1

TITANLASER 1500 / 2000

Two power classes. One versatile welding, cleaning and cutting platform.

CONTINUOUS PRODUCTION

Compact water-cooled systems for high-speed welding, precision cutting and controlled laser cleaning. Both models share the same industrial platform.

1500W

2000W

WELD

CLEAN

CUT



SPECIFICATION	TITANLASER 1500	TITANLASER 2000
Working voltage	1PH AC230V (+/- 15%), 50-60Hz	1PH AC230V (+/- 15%), 50-60Hz
Laser output	1500W	2000W
Laser wavelength	1070nm +/-5%	1070nm +/-5%
Fibre cable length	10m	10m
Aiming	TTL level / GUI	TTL level / GUI
Welding speed	0-120mm/s	0-120mm/s
Cooling	Integrated thermostat	Integrated thermostat
Working temperature	15-35 deg C	15-35 deg C
Working humidity	<70%, non-condensing	<70%, non-condensing
Suggested thickness	0.5-5mm	0.5-5mm
Welding gap	<=0.2mm	<=0.2mm
Consumable	Protective lens	Protective lens
Machine size	740 x 490 x 680mm	740 x 490 x 680mm

WATER-COOLED 3-IN-1

TITANLASER 3000

3000W

HIGH-POWER 3-IN-1

Stable three-phase operation, integrated temperature control and a 10m fibre cable for continuous heavy-duty production.

WELD

CLEAN

CUT



SPECIFICATION	TITANLASER 3000
Working voltage	3PH AC380V (+/-15%), 50-60Hz
Laser output	3000W
Laser wavelength	1070nm +/-5%
Fibre cable length	10m
Aiming	TTL level / GUI
Welding speed	0-120mm/s
Cooling	Integrated thermostat
Working temperature	15-35 deg C
Working humidity	<70%, non-condensing
Suggested thickness	0.5-5mm
Welding gap	<=0.2mm
Consumable	Protective lens
Machine size	980 x 540 x 920mm

TITAN CLEAN MACHINE

CLEANING FEATURES & APPLICATIONS

TitanLaser 1500 Surf / TitanLaser 2000 Surf / TitanLaser 3000 Surf

This handheld laser cleaning machine adopts a high-power fiber laser, integrates the optical and electrical system and the appearance handheld design, and the CNC panel outputs laser, which has the characteristics of high precision, high efficiency, and high cost performance. It can remove resin, paint, oil stains, stains, dirt, rust coating, plating, and oxide layers from the surface of objects, and has a wide range of industry applications.

TITANLASER 1500 SURF TITANLASER 2000 SURF



TITANLASER 3000 SURF



PRODUCT FEATURES

1. Non contact cleaning, without damage to the parts base.
2. Precise cleaning can realize selective cleaning of precise position and precise size.
3. No chemical cleaning solution is required, no consumables, safety and environmental protection.
4. It is simple to operate and can be powered on. It can be cleaned automatically by hand or with the manipulator.
5. The cleaning efficiency is very high, saving time.
6. The laser cleaning system is stable and almost no maintenance is needed.

APPLICATIONS

Laser cleaning is widely used in industry. It is mainly used for rust removal, paint removal, oil removal and oxidation film removal of precision parts. It is used in mold, automobile manufacturing, cultural relic restoration, shipbuilding and other industries.



7-INCH LARGE LCD PANEL

Both the main machine and wire feeder are equipped with a 7-inch large LCD panel. The operation panel, function settings and welding mode are clear and easy to use. Supports 10 JOB parameter sets for storage and quick recall.

HIGH CLEANING EFFICIENCY

The 800mm focal length makes torch cleaning easy. Maximum cleaning width is 300mm for high cleaning efficiency.

NOT LIMITED BY MATERIAL SHAPE AND NON-CONTACT CLEANING

It can achieve non-contact and any-angle cleaning and can clean various complex work-pieces with greater flexibility.

TITAN CLEAN MACHINE

PRODUCT SPECIFICATION

ITEM	1500 SURF	2000 SURF	3000 SURF
Cleaning material	Floating rust, paint, rust	Floating rust, paint, rust	Floating rust, paint, rust
Rated input voltage (AC)	1-phase 220V 50/60Hz	1-phase 220V 50/60Hz	3-phase 380V 50/60Hz
Rated input power	6kW	8kW	13kW
Rated output laser power	1.5kW	2kW	3kW
Rated output wavelength	1080 +/- 10nm	1080 +/- 10nm	1080 +/- 10nm
Cable length	Standard 10m / up to 20m	Standard 10m / up to 20m	Standard 10m / up to 20m
Cooling method	Dual-temp / dual-control	Dual-temp / dual-control	Dual-temp / dual-control
Working temperature	-10 to 40 deg C	-10 to 40 deg C	-10 to 40 deg C
Working humidity	<70%, non-condensing	<70%, non-condensing	<70%, non-condensing
Cleaning distance	65-75cm (F800)	65-75cm (F800)	75-80cm (F800)
Cleaning width	0-300mm (F800)	0-300mm (F800)	0-300mm (F800)
Protective gas	Argon / nitrogen / Level-3 compressed gas	Argon / nitrogen / Level-3 compressed gas	Argon / nitrogen / Level-3 compressed gas
Protective gas pressure	Maximum 15Bar	Maximum 15Bar	Maximum 15Bar
Dimensions (L x W x H)	740 x 490 x 680mm	740 x 490 x 680mm	1010*650*1160mm
Weight	<=90kg	<=90kg	<=160kg

LASER CLEANING VS. TRADITIONAL CLEANING

CATEGORY	LASER CLEANING	CHEMICAL CLEANING	MECHANICAL POLISHING
Environmental protection	Green and environment friendly	Serious pollution	Easy to pollute
No damage to work-piece	Not easy to damage	Easy to damage	Easy to damage
Safety	Safe with fibre transmission	Unsafe and harmful	Relatively safe
Cleanliness	High	Uneven	Uneven
Cleaning efficiency	High	Low	Low
Precision	Controllable and high precision	Poor	Poor
Manual operation	Simple	Complex	Simple

AIR-COOLED LASER WELDER

NEXA MX

PORTABILITY WITHOUT COMPROMISE

NEXA

COMPACT.LIGHT. PORTABLE.

Air-cooled architecture, intuitive operation and integrated process settings.

MODEL RANGE

Mini X25 / MX35 / MX45 / MX65



Designed for superior portability and flexibility, the NEXA series brings the power of laser technology to any job site. Its lightweight, compact design ensures easy transport and operation, making it perfect for mobile welding projects or workshops with limited space. Despite its small footprint, the NEXA series delivers professional-grade performance with exceptional ease of use.

LIGHTWEIGHT & HIGHLY PORTABLE

Engineered for mobility, the compact design enhances portability, allowing for easy setup and transport. (Weight options starting from 20kg).

SIMPLE INTEGRATION & OPERATION

A clearly labeled rear panel and an intuitive 7-inch LED touchscreen make setup effortless, even for beginners. Pre-loaded with 32 sets of process parameters for a variety of materials and thicknesses.

HIGH PRECISION & QUALITY

High-precision laser control ensures stable beam quality, producing consistent, high-quality welds with a beautiful, neat appearance. The wobble function allows for weld widths of up to 4.0mm.

COST-EFFECTIVE

Easy-to-learn technology reduces training time and costs. Novices can be trained to achieve quality welds in just 1-2 hours.

ENGINEERED FOR PERFORMANCE

Each unit undergoes rigorous high and low-temperature cycling tests and a 12-hour continuous welding test to guarantee stable and durable beam output.

INCLUDED WIRE FEEDER

Comes with a wire feeder unit for situations requiring deeper weld penetration or filling gaps. Supports wire diameters of 1.0mm, 1.2mm, and 1.6mm.

AIR-COOLED NEXA MX

MINI X25 / 600W

MX35 parameter baseline with 600W rated laser output.

COMPACT AIR-COOLED LASER SYSTEM

Phase-change air cooling, intuitive operation and stable laser output in a mobile industrial package.

600W

AIR COOLED



SPECIFICATION	MINI X25
Input power	230Vac / 50Hz / 32A (Max 3kW)
Operating temperature	0-40 deg C
Operating humidity	10-85%
Storage temperature	-10-60 deg C
Output (100% CW)	600W
Power regulation	10-100%
Laser cooling	Phase-change heat dissipation (air)
Tip cooling	Nitrogen / Argon
Operation mode	CW / Modulated
Central wavelength	1080nm
Fibre width	20um
Wobble width	0-6mm
Wobble frequency	0-280Hz
Continuous output	Light 120s, stop 6s
Weight	23kg
Dimensions	660 x 245 x 425 mm
Armoured fibre cable	4.35m

AIR-COOLED NEXA MX

MX 35 / 800W

Portable productivity for workshops and mobile fabrication.

COMPACT AIR-COOLED LASER SYSTEM

Phase-change air cooling, intuitive operation and stable laser output in a mobile industrial package.

800W

AIR COOLED

WELD

CLEAN

CUT



SPECIFICATION	MX 35
Input power	230Vac / 50Hz / 32A (Max 3kW)
Operating temperature	0-40 deg C
Operating humidity	10-85%
Storage temperature	-10-60 deg C
Output (100% CW)	800W
Power regulation	10-100%
Laser cooling	Phase-change heat dissipation (air)
Tip cooling	Nitrogen / Argon
Operation mode	CW / Modulated
Central wavelength	1080nm
Fibre width	20um
Wobble width	0-6mm
Wobble frequency	0-280Hz
Continuous output	Light 120s, stop 6s
Weight	29kg
Dimensions	680 x 285 x 542mm
Armoured fibre cable	4.35m

AIR-COOLED NEXA MX

MX 45 / 1200W

Higher output in a compact air-cooled industrial platform.

COMPACT AIR-COOLED LASER SYSTEM

Phase-change air cooling, intuitive operation and stable laser output in a mobile industrial package.

1200W

AIR COOLED

WELD

CLEAN

CUT



SPECIFICATION	MX 45
Input power	230Vac / 50Hz / 32A (Max 4.8kW)
Operating temperature	0-40 deg C
Operating humidity	10-85%
Storage temperature	-10-60 deg C
Output (100% CW)	1200W
Power regulation	10-100%
Laser cooling	Phase-change heat dissipation (air)
Tip cooling	Nitrogen / Argon
Operation mode	CW / Modulated
Central wavelength	1080nm
Fibre width	20um
Wobble width	0-4mm
Wobble frequency	0-280Hz
Continuous output	Light 120s, stop 6s
Weight	38kg
Dimensions	680 x 285 x 542mm
Armoured fibre cable	5.6m

AIR-COOLED NEXA MX

MX 65 / 1500W

Maximum MX-series output with remote wire-feeding capability.

COMPACT AIR-COOLED LASER SYSTEM

Phase-change air cooling, intuitive operation and stable laser output in a mobile industrial package.

1500W

AIR COOLED

WELD

CLEAN

CUT



SPECIFICATION	MX 65
Input power	230Vac / 50Hz / 32A (Max 6kW)
Operating temperature	0-40 deg C
Operating humidity	10-85%
Storage temperature	-10-60 deg C
Output (100% CW)	1500W
Power regulation	10-100%
Laser cooling	Phase-change heat dissipation (air)
Tip cooling	Nitrogen / Argon
Operation mode	CW / Modulated
Central wavelength	1080nm
Fibre width	20um
Wobble width	0-4mm
Wobble frequency	0-280Hz
Continuous output	Light 120s, stop 6s
Weight	38kg
Dimensions	710 x 285 x 542mm
Armoured fibre cable	5.6m



HA 36

3-in-1 Welding Torch



HW 23

3-in-1 Welding Torch



HW 22C

Cleaning Torch



NF 15T

Wire Feeder



HMT 300

Compact Trolley



HMT 500

Heavy-Duty Trolley

PROTECTED WORKSPACES

LASER WELDING ROOMS

Modular enclosures for controlled industrial laser operations



MOBILE PROTECTIVE ENCLOSURE



MODULAR INDUSTRIAL ROOM

WHY CHOOSE HEADUX?

Productivity, weld quality and operator-focused engineering

WHY HEADUX

01 HIGH EFFICIENCY

Significantly reduce production time and labor costs with welding speeds up to 10x faster than traditional methods.

02 SUPERIOR QUALITY

Achieve clean, precise, and strong welds with minimal distortion and a small heat-affected zone. Requires little to no post-processing.

03 COST-EFFECTIVE

Lower skill requirements and minimal consumables reduce overall operational costs.

04 USER-CENTRIC DESIGN

Intuitive touchscreen interfaces, ergonomic torches, and simple navigation make operation easy for both beginners and experts.

05 DURABILITY & RELIABILITY

Built with high-quality components and backed by robust warranties (up to 3 years on water-cooled systems) for long-lasting performance.

SAFETY & SUPPORT

RESPONSIBLE OPERATION / Training, safeguards and global technical assistance

CLASS 4 LASER SYSTEMS

Headux is committed to safety. Our Class 4 laser systems are equipped with multiple safety features, including key switches, emergency stops, safety interlocks, and contact-based safety feedback circuits. We provide comprehensive training and support to ensure safe and efficient operation.

01 OPERATOR TRAINING

Practical guidance for safe, efficient setup and daily operation.

02 PROTECTED WORK AREA

Use suitable laser enclosures, PPE and controlled access procedures.

03 TECHNICAL SUPPORT

Our global network of distributors and technical support teams are ready to assist you. Partner with Headux and experience the next generation of laser technology.

04 LONG-TERM RELIABILITY

Preventive maintenance and genuine consumables protect performance.

PARTNER WITH HEADUX. BUILD WITH CONFIDENCE.

COMMON APPLICATIONS ACROSS ALL SERIES

General Fabrication: Sheet metal, structural steel, and custom metalwork.

Automotive: Parts, repair, and exhaust systems.

HVAC & Appliance: Ductwork, enclosures, and components.

Aerospace: High-precision components.

Construction & Building Materials: Railings, cladding, and structural elements.

Kitchen & Bathroom Industry: Stainless steel products, sinks, and fixtures.

Mold Industry: Repair, cleaning, and surface preparation.

Hardware Industry: Tools, fittings, and complex parts.



READY FOR THE NEXT WELD.

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