



laserpoint
sumaris group

LASER WELDERS & ACCESSORIES

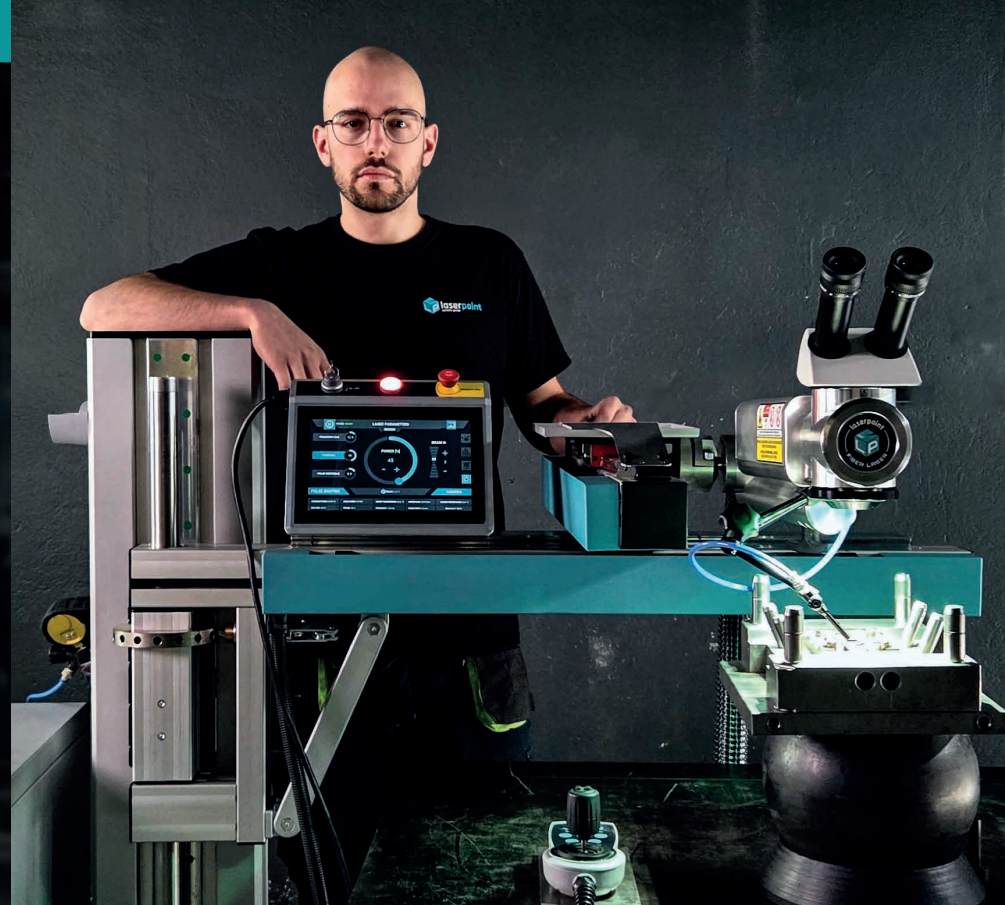
WELD BEYOND LIMITS

NOVAPAX CZ s.r.o.
Milan Hochman tel.: 774 709 672

ABOUT US

We are a European technology company with a production headquarters located in Poland. We have been active in the laser industry for over 20 years, building our expertise through hands-on service experience and the development of our own technologies.

We design advanced laser welding systems that are ready to face real demands of modern production. Our solutions combine powerful performance with operational efficiency, delivering machines that start paying for themselves from day one.



OUR OFFER

Our portfolio includes ECO, HTS Mobile, and LRS series, available both in proven Nd:YAG technology and in a modern FIBER configuration featuring a fiber-laser power source. We offer a full range of solutions: from compact units for precision components to heavy-duty, high-power mobile systems. Our machines successfully support mold repair and regeneration, automotive, aerospace, electronics, and medical sectors.

FLEXIBLE APPROACH

We are not limited to rigid catalog specifications. When the nature of a production line requires it, we can modify selected models to meet specific order requirements, adapting the machine's dimensions and capabilities to the unique needs of each workshop.



PROPRIETARY FIBER TECHNOLOGY

In 2025, we became the first Polish manufacturer of our own motorized fiber systems. We are proud to be pioneers of Polish engineering, designing machines that ensure many years of trouble-free operation and cost-effective use.



FIELD-TESTED DESIGN

Laserpoint machines are continuously used in three different service centers in Poland. Based on real orders from our workshops, we optimize our systems to deliver equipment capable of withstanding the rigorous challenges of any production facility.



COMPREHENSIVE AFTER-SALES SUPPORT

We take full responsibility for system implementation and operator training. By providing expert consulting, fast online assistance, and mobile service with international reach, we remain in constant contact, safeguarding production continuity.



GLOBAL DISTRIBUTION NETWORK

Thanks to our rapidly expanding network of over 10 authorized distributors, Laserpoint technology has earned the trust of specialists in more than 30 countries worldwide.



20+

years of experience
in laser technology



10+

distributors
worldwide



POLISH

production,
European quality



www.laserpoint.pl

Nd:YAG LASERS



HTS Mobile

HTS Mobile is a versatile laser welder designed for precise processing of large molds with complex geometries. Thanks to its mobile design and high power, supported by three advanced Teach-In semi-automation modes, the device ensures maximum weld stability while maintaining a high level of operator comfort. It is a universal solution that raises productivity standards in any facility, regardless of its size or production profile.



Unlimited reach: The open design of HTS Mobile eliminates a need to manipulate a workpiece, allowing the machine to be moved directly to the component. Thanks to the combination of a tilting, vibration-damping arm, a movable resonator, and a head with 360° swiveling optics, HTS Mobile can work with almost any component, regardless of its size, geometry, or position.



Operator support: HTS Mobile is equipped with advanced software featuring three dedicated Teach-In semi-automation modes, which ensure the highest weld quality and repeatability on large flat surfaces, inclined edges, and cylindrical components. Optional frequency synchronization with feed speed significantly simplifies operation while improving welding process quality and efficiency.



Versatility and power: HTS Mobile is a universal tool with welding power of up to 300 W, designed for advanced industrial projects. This enables efficient operation with all materials available on the market - from tool steel and bronze to precious metals, nitrided steels, and difficult-to-machine materials.

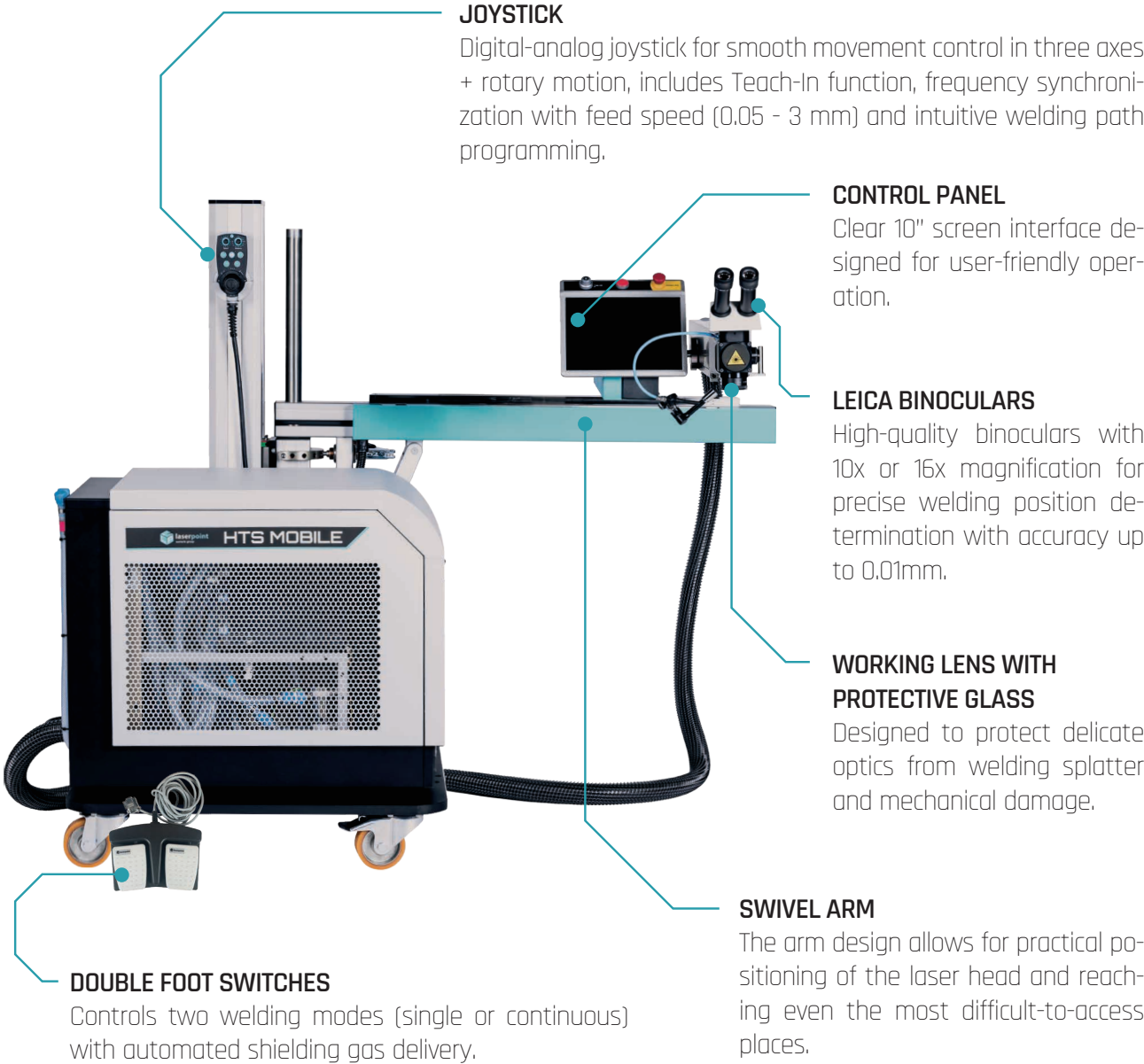
LINEAR SYSTEM

- HTS Mobile's joystick controls motorized X/Y/Z axes driven by stepper motors
- Positioning speeds:

Axis	Analog mode (min-max)	Digital mode (min-max)	Feed
X	0.19-8.9 mm/s	0.16-8.9 mm/s	480 mm
Y	0.19-8.9 mm/s	0.16-8.9 mm/s	760 mm
Z	0.25-10 mm/s	0.25-10 mm/s	810 mm

TECHNOLOGY AND EQUIPMENT OF HTS MOBILE:

- Laser resonator with ball mounting
- Laser source utilizing Nd:YAG Crystal
- Interface with system control and monitoring function
- Control panel for adjusting machine operation, including power parameters, pulse time, and frequency
- Efficient, internal water-air cooling system with the option to connect an additional external cooling system
- Protective gas supply controlled by a magnetic solenoid valve



DIMENSIONS AND WEIGHT

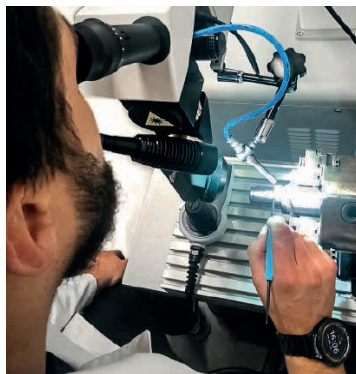
- Dimensions:
width - 950mm
height - 1550mm
length - 1250mm
- Weight: 370 kg net

LASER OPTICS COMPONENTS

- 10x or 16x binoculars (Leica)
- Welding spot diameter regulator
- Directional mirror
- Focusing lens
- Protective glass
- LCD protective shutter

TECHNICAL PARAMETERS	HTS ONE	HTS 160	HTS 200	HTS 300
Laser type	Nd:YAG	Nd:YAG	Nd:YAG	Nd:YAG
Max. mean power	120 W	160 W	200 W	300 W
Pulse peak power	6 kW	9 kW	11 kW	13 kW
Max. pulse energy	80 J	100 J	120 J	150 J
Pulse duration	0.2 - 20 ms			
Pulse frequency	0.5 - 20 Hz			
Focus diameter	0.02 - 2.0 mm			
Line voltage (V/Ph/Hz)	230 V AC / 1 Phase	380 - 420 V AC / 3 Phase		
Internal cooling	Water / air			
External cooling connection*	Optional		Standard	
No.	HTS-LP120	HTS-LP160	HTS-LP200	HTS-LP300

*Additional heat exchanger installation enabling connection to an external chiller/cooling unit.



ECO

ECO is an economical laser welder optimized for small production runs and individual components, such as tools and molds weighing up to 120 kg. Thanks to its compact design, the machine ensures efficient operation even in limited workshop spaces. High precision combined with low operating costs makes the ECO series the ideal choice for demanding sectors like electronics and the medical industry.



Compact design and ergonomics: The ECO system's well-considered dimensions allow for easy installation even in small workspaces, while its open design with motorized-table control enables free manipulation of the workpiece, without the need for additional tools.



Operator support: ECO is equipped with advanced software featuring two dedicated Teach-In semi-automation modes, which ensure the highest weld quality and repeatability on large flat surfaces and cylindrical components. Optional frequency synchronization with feed speed significantly simplifies operation while improving welding process quality and efficiency.



Versatility and precision: ECO is a precise tool with a welding power of up to 200 W, designed for working with smaller components. It ensures efficient processing of all materials available on the market - from tool steel and bronze to precious metals.

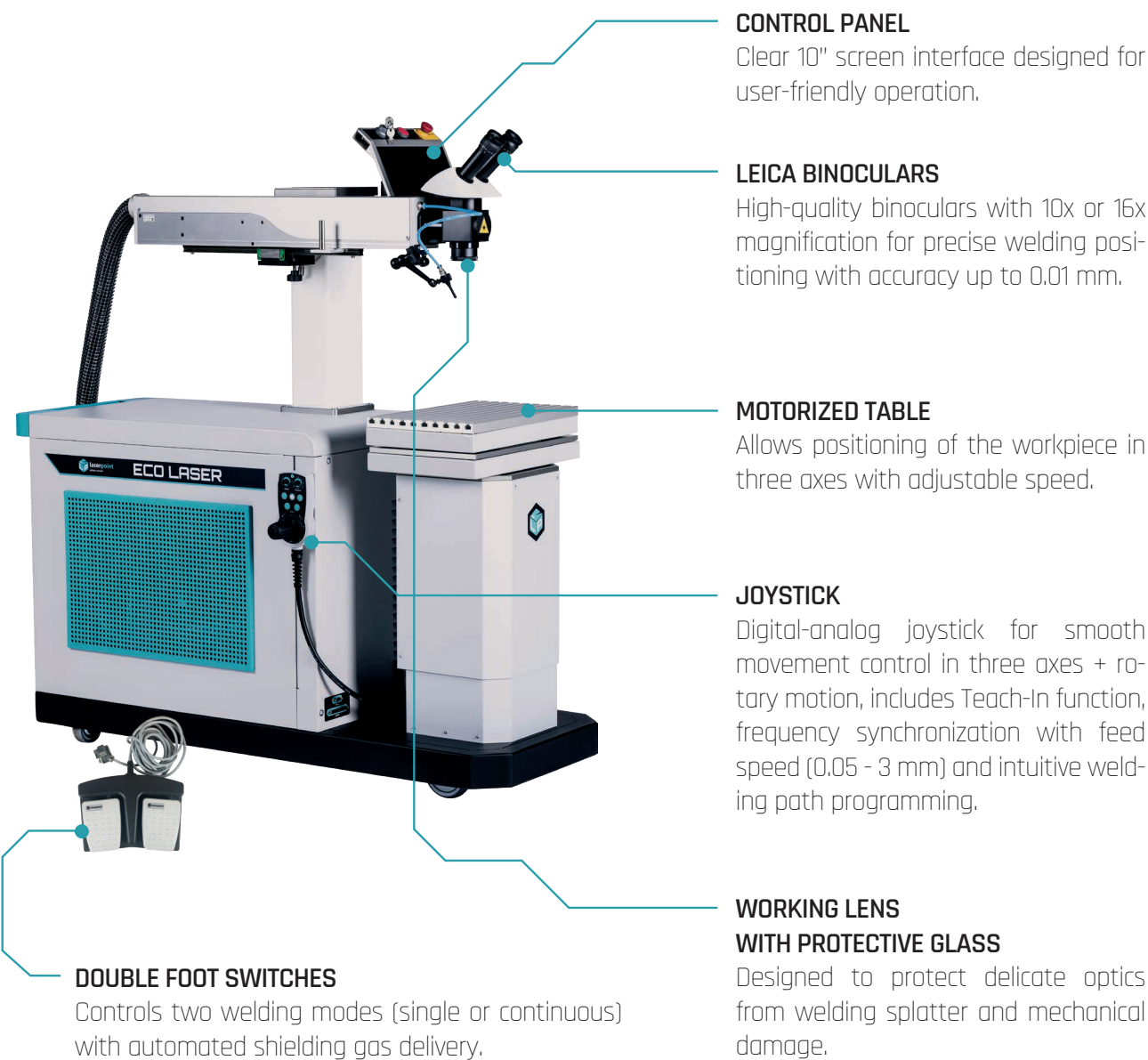
LINEAR SYSTEM

- ECO's joystick controls motorized X/Y axes driven by stepper motors and a Z axis driven by a brushed motor
- Positioning speeds:

Axis	Analog mode (min-max)	Digital mode (min-max)	Feed
X	0.10-3.7 mm/s	0.065-3.7 mm/s	210 mm
Y	0.10-3.7 mm/s	0.065-3.7 mm/s	90 mm
Z	0.38-9 mm/s	0.25-9 mm/s	300 mm

ECO TECHNOLOGY & EQUIPMENT

- Tiltable and sliding laser resonator
- Nd:YAG crystal laser source
- Interface with control and system monitoring function
- Control panel for adjusting machine operation parameters, including power, pulse time, and frequency
- Efficient, internal water-air cooling system with optional external cooling system connection
- Shielding gas supply controlled by a magnetic solenoid valve



CONTROL PANEL
Clear 10" screen interface designed for user-friendly operation.

LEICA BINOCULARS
High-quality binoculars with 10x or 16x magnification for precise welding positioning with accuracy up to 0.01 mm.

MOTORIZED TABLE
Allows positioning of the workpiece in three axes with adjustable speed.

JOYSTICK
Digital-analog joystick for smooth movement control in three axes + rotary motion, includes Teach-In function, frequency synchronization with feed speed (0.05 - 3 mm) and intuitive welding path programming.

WORKING LENS WITH PROTECTIVE GLASS
Designed to protect delicate optics from welding splatter and mechanical damage.

DOUBLE FOOT SWITCHES
Controls two welding modes (single or continuous) with automated shielding gas delivery.

DIMENSIONS AND WEIGHT

- Dimensions:
width - 472mm
height - 1270mm
length - 1160mm
- Weight: 190 kg net

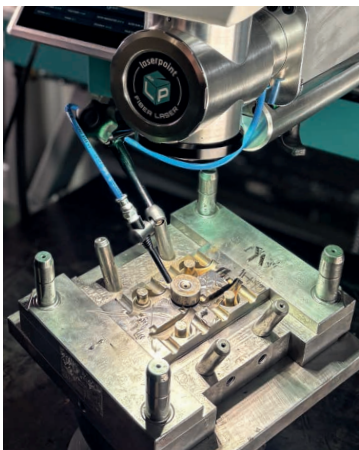
LASER OPTICS COMPONENTS

- 10x or 16x binocular (Leica)
- Weld spot diameter regulator
- Directional mirror
- Focusing lens
- Protective glass
- LCD protective shutter

TECHNICAL PARAMETERS	ECO ONE	ECO 160	ECO 200
Laser type	Nd:YAG	Nd:YAG	Nd:YAG
Max. mean power	120 W	160 W	200 W
Pulse peak power	6 kW	9 kW	11 kW
Max. pulse energy	80 J	100 J	120 J
Pulse duration	0,2 - 20 ms		
Pulse frequency	0,5 - 20 Hz		
Focus diameter	0.02 - 2.0 mm		
Line voltage (V/Ph/Hz)	230 V / 1 Phase	380 - 420 V AC / 3 Phase	
Internal cooling	Water / air		
External cooling connection*	Optional		Standard
No.	ECO-LP120	ECO-LP160	ECO-LP200

*Additional heat exchanger installation enabling connection to an external chiller/cooling unit.

FIBER LASERS



HTS Mobile FIBER

Discover the first motorized fiber laser welder fully designed and manufactured in Poland. HTS Mobile FIBER combines the best features of our flagship series - from full mobility and a movable arm with a 180° range, to intuitive Teach-In functions and frequency synchronization with feed speed. A standard single-phase power supply ensures complete installation flexibility across any production facility. The system has been developed for intensive, high-volume operation, ensuring low operating costs, minimal downtime risk, and the fastest return on investment in its class.

WHY FIBER?

Fiber technology is currently the fastest-growing standard in industry. Fiber laser machines are the ideal addition for workshops where speed, continuous operation, and system reliability are top priorities.



Savings: With five times the energy efficiency of Nd:YAG alternatives, fiber systems significantly reduce energy and maintenance costs, ensuring a faster return on investment.



Reliability: The use of fiber sources eliminates the need to replace expensive consumable optical components such as pump lamps, resonator mirrors, or lenses. In practice, this means the optical system is almost entirely maintenance-free and requires significantly less frequent servicing. This ensures long equipment life and production continuity without unplanned downtime.



Stability: Thanks to stable operating parameters, fiber systems deliver exceptional weld precision and repeatability, also matching Nd:YAG standards by virtually eliminating the risk of material deformation.



HTS MOBILE FIBER - THE PILLAR OF RELIABLE PRODUCTION

Although HTS Mobile FIBER operates at lower pulse energy than our Nd:YAG version, it delivers a constant and stable power level throughout the entire pulse duration. Its higher average power and pulse frequency, combined with an extended pulse duration, significantly increase the working speed.

ADAPTIVE MOBILITY

The mobile design features a movable arm with a 180° range, delivering precise overlay welding for large molds and eliminating the need for disassembly. A standard single-phase power supply guarantee immediate installation without requiring electrical grid modifications or dedicated industrial connections. Consequently, HTS Mobile FIBER can be used anywhere in the workshop, reducing internal transport costs and minimizing production downtime.

TECHNICAL PARAMETERS	HTS Mobile FIBER
Laser type	FIBER
Max. mean power	500 W
Pulse peak power	2 kW
Max. pulse energy	70 J
Pulse duration	1 - 50 ms
Pulse frequency	1 - 100 Hz
Internal cooling	Water / air
External cooling connection*	Optional
Order no.	HTS-LP500F

*Additional heat exchanger installation enabling connection to an external chiller/cooling unit.

LRS

Our latest fiber solution combines compact design with high power. Engineered for welding small batches and individual components - including tools and molds weighing up to 150 kg - the system features a spacious table that ensures immediate setup without requiring auxiliary equipment. High precision combined with low operating costs makes the LRS series an indispensable asset for demanding sectors like electronics and the medical industry.



CONTROL PANEL
Clear 10" screen interface designed for user-friendly operation.

JOYSTICK
Digital-analog joystick for smooth movement control in three axes + rotary motion, includes Teach-In function, frequency synchronization with feed speed (0.05 - 3 mm) and intuitive welding path programming.

MOTORIZED TABLE
A 500x410 mm working surface with adjustable-speed workpiece positioning across three axes.

DOUBLE FOOT SWITCHES
Controls two welding modes (single or continuous) with automated shielding gas delivery.

DIMENSIONS AND WEIGHT

- Dimensions:
width - 600 mm
height - 1200-1500 mm
length - 1400 mm
- Weight: 250 kg

LINEAR SYSTEM

- The LRS joystick controls motorized X/Y/Z axes driven by stepper motors.
- Table travel: 200x200mm

TECHNICAL PARAMETERS	LRS
Laser type	FIBER
Max. mean power	300 W
Pulse peak power	2 kW
Max. pulse energy	70 J
Pulse duration	1 - 50 ms
Pulse frequency	1 - 100 Hz
Internal cooling	Water / air
External cooling connection*	Optional
Order no.	LRS-LP300F

*Additional heat exchanger installation enabling connection to an external chiller/cooling unit.

CHOOSE THE RIGHT LASER WELDER FOR THE WIRES YOU WELD

Material type	Maximum welding wire diameters for machines (mm)						
	Fiber			Nd:YAG			
	200 W	300 W	500 W	120 W	160 W	200 W	300 W
Beryllium bronze	0.4	0.5	0.5	0.5	0.5	0.6	0.8
Aluminium	0.5	0.6	0.6	0.5	0.6	0.8	1.0
Bronze (Ampco)	0.8	1.0	1.2	0.6	0.6	0.6	1.0
Tool steel	1.0	1.2	1.4	0.6	1.0	1.0	1.2



Data interpretation

The values in the table define the optimum working range, ensuring process stability and weld repeatability. These guidelines are based on real production tests, not theoretical models. Welding with larger wire diameters is possible under favorable conditions; however, it requires advanced operator skills and precise adjustment of the machine parameters.

Impact on operating characteristics

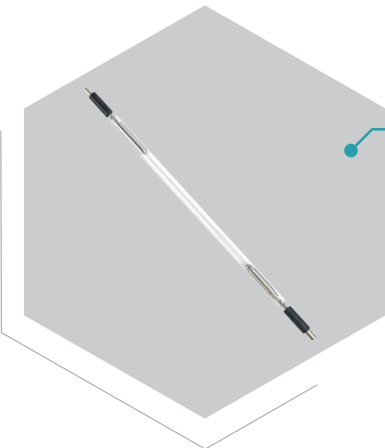
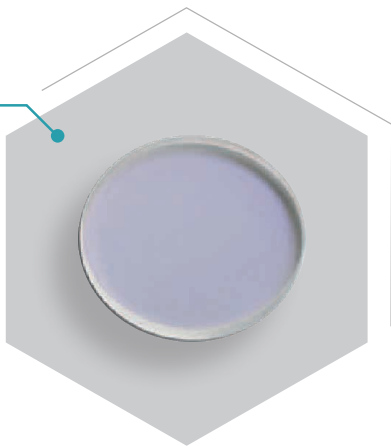
Using higher laser power shortens the cycle time, improves process stability, and enables work with larger wire diameters, making beam control easier. Higher parameters are essential for the efficient processing of materials such as aluminum and beryllium bronze (BeCu), while steel remains the easiest material to weld, with the lowest energy and process requirements.

CONSUMABLES

Protective glass for lens

Optimal protection of the working lens from splashes during welding. Dedicated for lasers with up to 300 W power.

Type	Order no.
Ø 38 mm x 3 mm	17-3.264
Ø 40 mm x 2 mm	17-3.266



Flash lamps

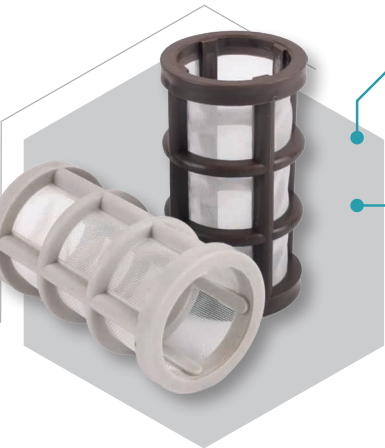
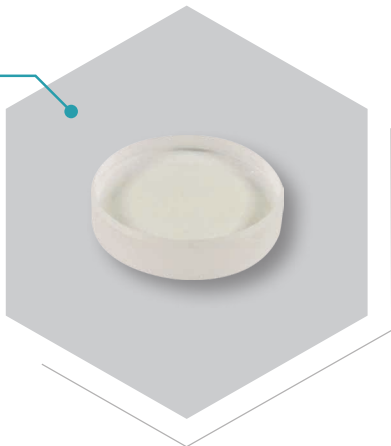
Xenon flash lamps dedicated to all systems. Lamp life averages up to 3 million discharges.

Type	Order no.
160 W	17-3.250
200 W	17-3.251
300 W	17-3.252

Front and back resonator optics

For condensing the laser light within the chamber.

Type	Order no.
50% (Front) for 100-200 W systems	17-3.253
100% (Back) for 100-200 W systems	17-3.254
100% (Back) for 300 W systems	17-3.260



Net filter for internal cooling system

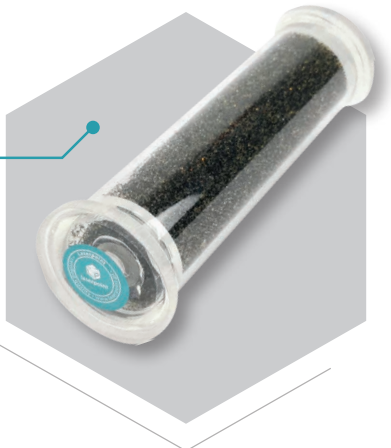
Order no. 17-4.002

Net filter for external cooling system

Order no. 17-4.016

Deionizing water filter for internal cooling system

Order no. 17-4.012

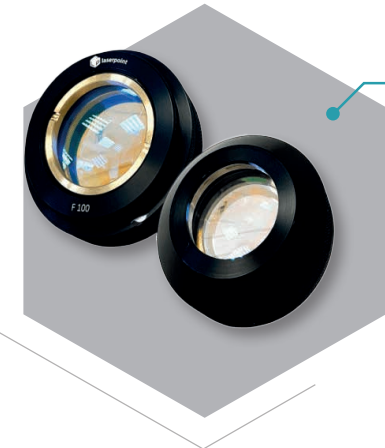


ACCESSORIES

Binocular

High-quality Leica binoculars for all Laserpoint machines, providing ergonomic 45° tilt.

Type	Order no.
Binocular Leica Inclined 45°	17-3.100
Okular 10 x 23 mm (1 piece), adjustable	17-3.101
Crosshair graticule	17-3.102
Rubber eyecups for Okulars (1 pair)	17-3.103



Focusing lenses

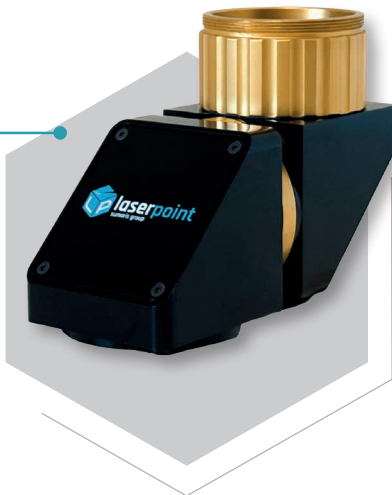
Laser lenses in casing, available with focal lengths of: 150 mm, 200 mm, 300mm.

Type	Order no.
F100 mm	17-3.301
F160 mm	17-3.302
F200 mm	17-3.303
F300 mm	17-3.304

360° rotational optical head

Enables welding service in hard-to-reach places with large forms and cumbersome elements, 2 x 360° - horizontally and vertically.

Order no. 2-1.032



Focusing lens extension

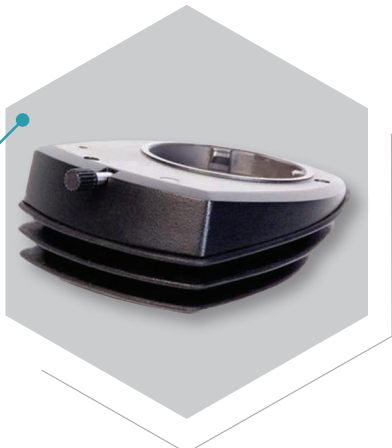
Extends the focusing position, extension height 100 mm.

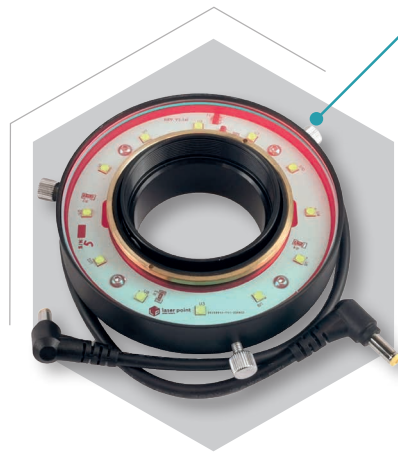
Order no. 2-1.026

ErgoWedge® 25° // ErgoWedge 5°- 25°

Leica Binocular addon allowing for adjustment of binocular tilt, even further improving ergonomics.

Type	Order no.
ErgoWedge® 25°	2-1.254
ErgoWedge® 5°-25°	2-1.253





LED Ring Light

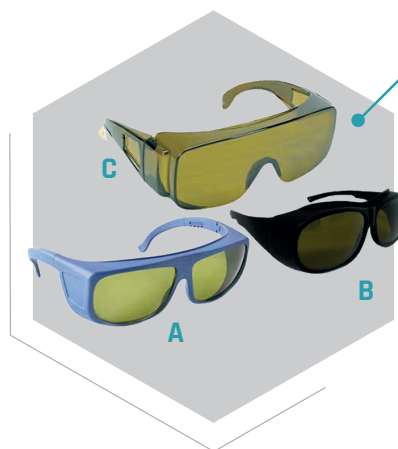
DC 12 V LED ring light with 12 diodes, 760 lm each, 5000K, dimming 0-100%, power consumption 10 W.

Order no. 2-1.051

LED light on a flexible arm

For perfect illumination of the workpiece. Flexible 600 mm arm and Ø88mm magnetic foot.

Type	Order no.
Complete LED Lamp	2-1.020
Protective glass with IR-reflection filter	2-1.023
LED plug-in module, white 5700K, spot 6°	2-1.024



Protective glasses

Protection class Fiber / YAG Laser (850-1300nm), essential eye protection.

Type	Order no.
A: Protective eyewear 850-1300 nm; protection class OD6+	32-LSG-A
B: Protective eyewear 200-2000 nm; protection class OD9	32-LSG-B
C: Protective eyewear 850-1300 nm; protection class OD6+	32-LSG-C

Pressure Reducer (Argon)

Used for welding in an argon shield, designed for optimal setting of the required amount of gas. Regulation from 0-5 L/min.

Order no. 2-1.259



CCD Camera

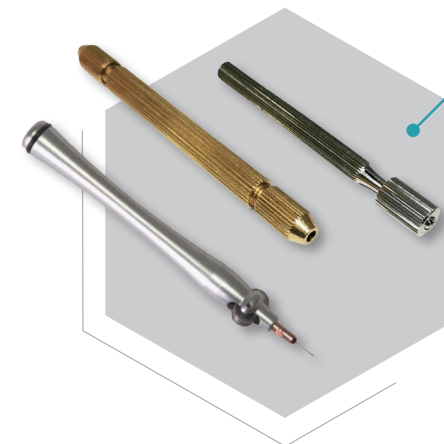
Dedicated to observing and documenting the welding process on the material's surface. Analog camera, PAL format, observation field depends on the working lens.

Order no. 2-1.050

Safety set interlock

To protect bystanders from laser radiation. The beacon signaling the laser work, together with the door contact switch that turns off the laser when the room doors are opened, is connected to the Interlook socket on the laser. Additionally set includes warning signboards.

Order no. 2-1.250



Holder for fine wires

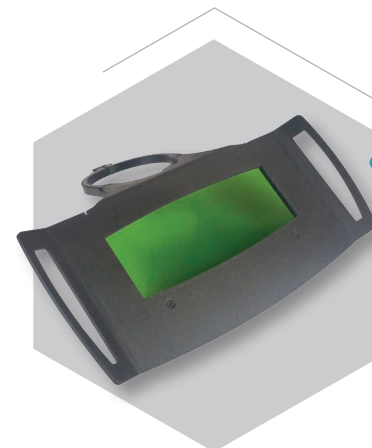
It facilitates feeding of thin wires, protects the wire against hand sweat - and hands from material heat. Three versions, with an open back for wires from 0.2mm to 1mm, double-sided one for wires from 0.2mm to 0.6mm, and a heavy duty one with rollers for 0.1-0.5mm.

Type	Order no.
Wireholder 0,2-1,0mm	32-LDH
Wireholder 0.2-0,6 mm, two-sided	32-LDH/T1
Wireholder 0.1-0,5 mm, solid with rollers	32-8685-2

Magnetic balls

Magnetic balls of various sizes, designed for easy mounting and manipulation of the detail under the microscope. Their great advantage is exceptionally strong magnets.

Type	Order no.
Ø magn. 100mm, Ø sphere 120 mm	6-MCB100
Ø magn. 125mm, Ø sphere 170 mm	6-MCB125
Ø magn. 160mm, Ø sphere 210 mm	6-MCB160



Laser safety shield

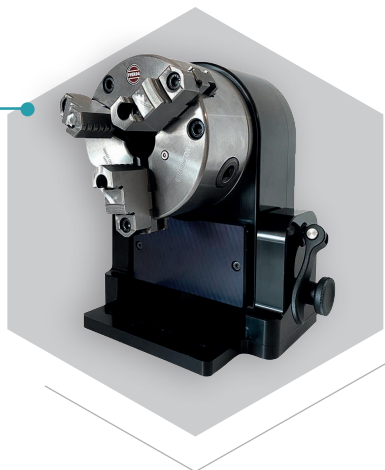
A cover plate to further protect against laser reflections and heat, installed directly under binocular.

Type	Order no.
Nd:YAG	2-1.255
Fiber	2-1.284

Motorized Rotary-Tilting Holder

An optimal accessory for machining cylindrical parts. The motorized axis rotates the workpiece during welding. Designed for laser welding systems. Ø 125 mm.

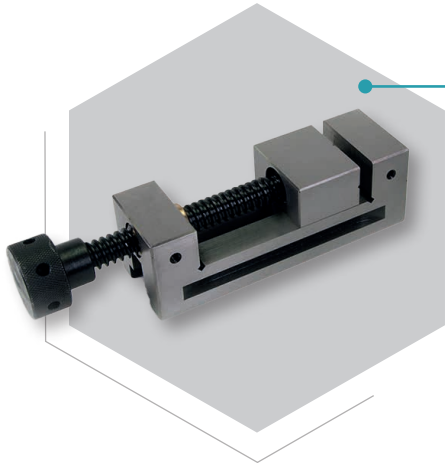
Order no. 2-1.272



Precision vice

A tool made of high-quality hardened steel, hardened to 58-62 HRC. Parallelism accuracy: ±5 microns. Available in two sizes. Optimal when used together with a magnetic ball.

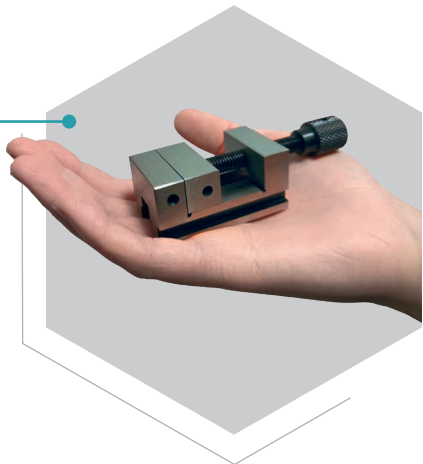
Length	Width x height	Jaw height	Max. opening	kg	Order no.
155 mm	50 x 50 mm	25	65	2,8	37-PSS01
220 mm	80 x 80 mm	40	100	7,0	37-PSS02



Precision mini - vice

Mini vice for mini needlework.

Length	Width x height	Jaw height	Max. opening	kg	Order no.
57 mm	33 x 27 mm	15	20	0.25	37-PSS00



Service kit

Designed for laser inspection and cleaning. The set includes a laser lamp, protective glass, LED lighting protection kit, mesh filter, and cleaning/inspection supports.

Type	Order no.
S-100/120/160	32-L21.256
S-200	32-L21.257
S-300	32-L21.258



Extractor III 200 W

Mobile extraction-filtering system designed to absorb harmful combustion fumes, e.g., from laser welding and engraving of metals.

Description	Order no.
Extractor III 200 W Mobile extraction and filtering system (without a suction hose)	36-780
Extractor III - mobile extraction system Extractor III 200 W (complete with Ø50 mm x 2 m extraction hose and Ø 50 mm x 300 mm segment nozzle on a magnetic base (for open lasers), and 4x pre-filter)	36-780/L1
Extractor III - mobile extraction system Extractor III 200 W (complete with Ø50 mm x 1.5 m flexible (segmented) extraction arm and 4x pre-filter)	36-780/G1



External cooling system

Strongly recommended for heavily used laser systems and necessary for 300 W Yag machines.

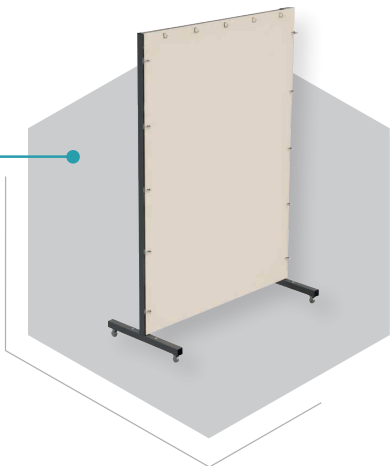
Description	Order no.
CY- 6000 - Compressor cooling system with a cooling capacity of 3 kW, weight 60 kg, height 920 x width 480 x depth 550 + 120 mm (connectors and hoses), power supply 230 V AC (Single Phase), power: 1135 W.	32-ChZ60
CY-8500 - Compressor cooling system with a cooling capacity of 8.2 kW, weight 120 kg, height 1110 x width 610 x depth 750 + 120 mm (connectors and hoses), power supply 400 V AC (Three Phase), power: 3570 W.	32-ChZ85



Laser safety curtain

Mobile modular protective screen made of durable material, compliant with standard EN 12254. The dimensions of each module are 1.3 × 1.9 m. Modules can be connected to one another using an additional connector set, with no limit on the number of modules.

Order no. 19-1.000



SUPPORT

Laserpoint provides technical support and service from experienced technicians for our own equipment, as well as legacy systems from O.R. Lasertechnologie GmbH and Coherent Corp.



GLOBALLY & LOCALLY

Laserpoint delivers global technical support across more than 30 countries through a certified network of trained distributors. We ensure rapid response times, local language communication, and direct regional availability.



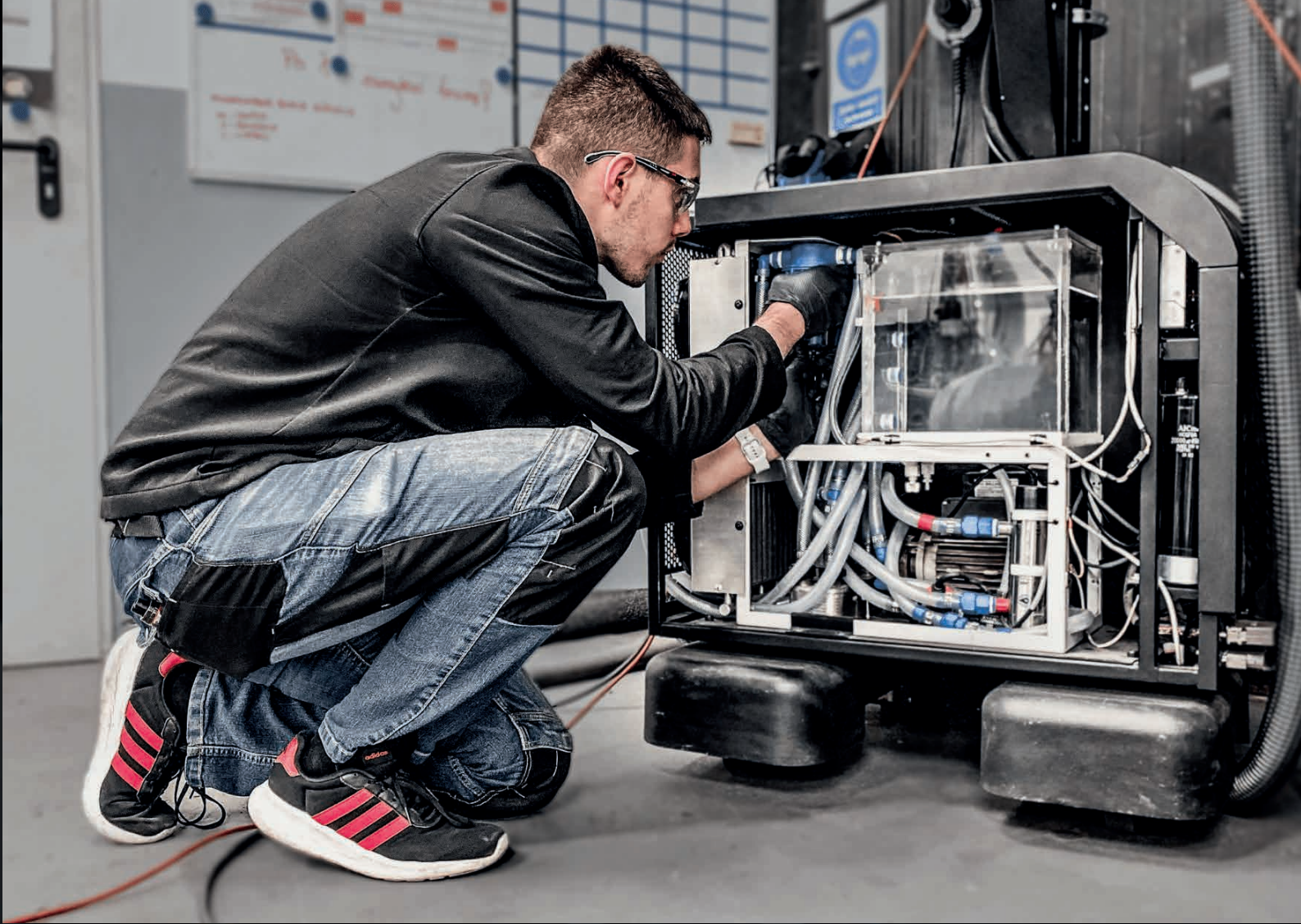
GOOD AS NEW

We manage cleaning, repairs, software updates, optical calibration, and precise parameter tuning for specific manufacturing tasks, while ensuring easy access to spare parts. Preventive servicing maximizes equipment lifespan, ensuring long-term reliability with minimal operational interventions.



ALWAYS IN TOUCH

We provide swift online support and take full responsibility for maintenance scheduling. Every laser welding machine we deliver is a key element of our shared success. At Laserpoint, we look beyond simple equipment supply to actively safeguard production continuity and optimal operational efficiency.



DURATION AND SCOPE OF OUR SERVICE

Standard service visits are completed within 2 hours and include precise optical power measurements before and after maintenance. We thoroughly inspect, clean, and replace optical components to restore nominal system parameters. Maintenance also includes cleaning the power supply and cooling systems, as well as filter replacement. Each visit concludes with an official service report documenting performance metrics, pulse counter readings, and operational recommendations.



140+
services annually



10+
technical teams



WORLDWIDE
no location limitations

Laserpoint around the world:



HEADQUARTERS

POLAND

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Tel: +48 535 556 027

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Entire Continent

REPRESENTATIVE:

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