



ALOtec Dresden

ALOtec Dresden
laser marking & cladding systems



ALOprotect⁵

Mobile laser safety barriers

MOBILE WITH SAFETY

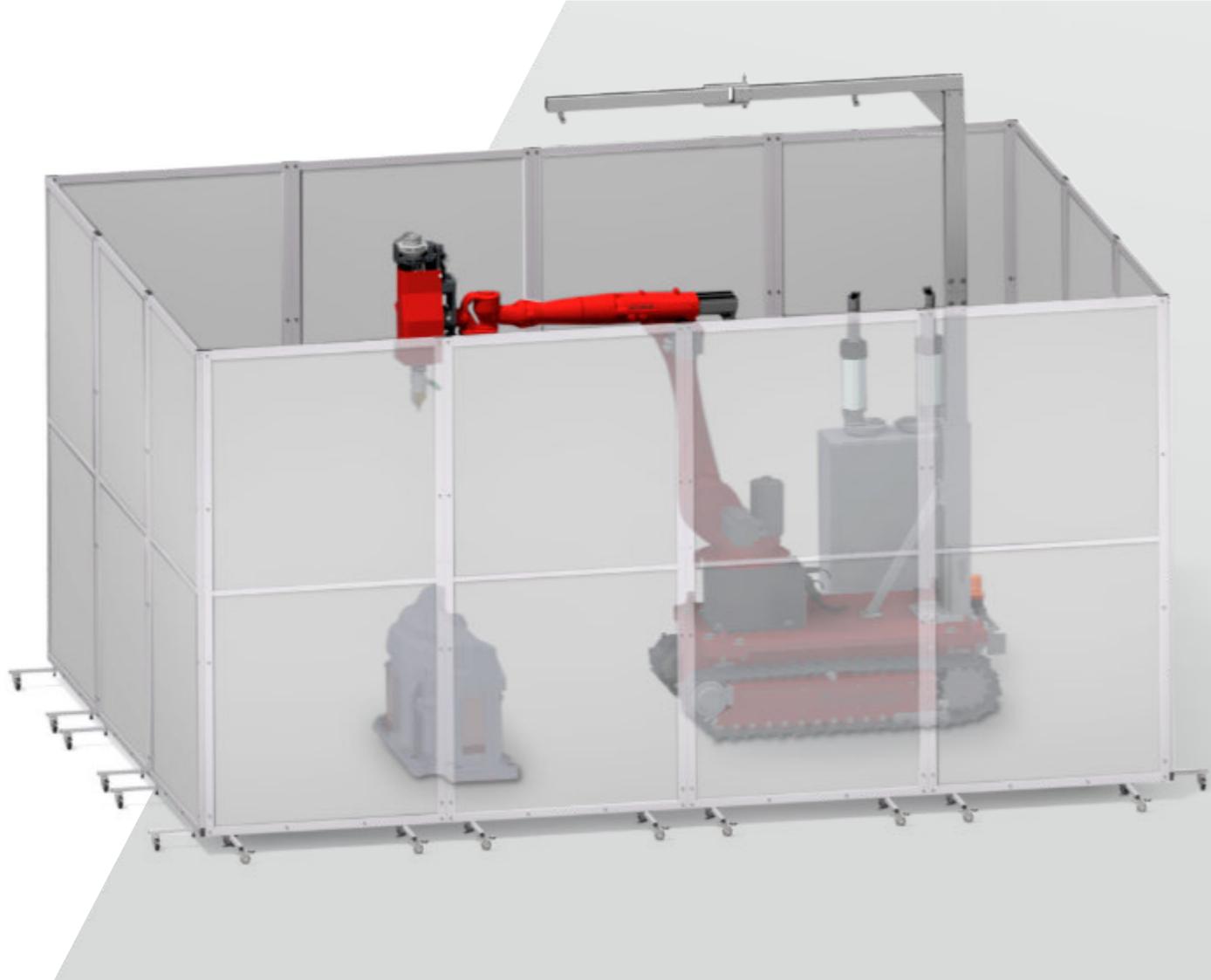


DIN certified

ALOtec.de

With ALProtect⁵, you work more safely.

ALOtec's laser safety barriers are certified, modular, easy to assemble and simple to store and transport.



ALProtect⁵ – the innovative laser safety barrier concept

The laser safety barriers are versatile, intuitive, and quick to set up, and they can be safely and compactly stored through the mobile station. The mobile station is optimized for transport by road, rail, and air freight in terms of dimensions and structure.

The time required for setting up the certified laser safety barriers and installing the associated technical accessories such as door monitoring, emergency stop switches, and laser warning lights is very minimal, taking less than 1 hour.



ALProtect⁵ – naturally laser-safe

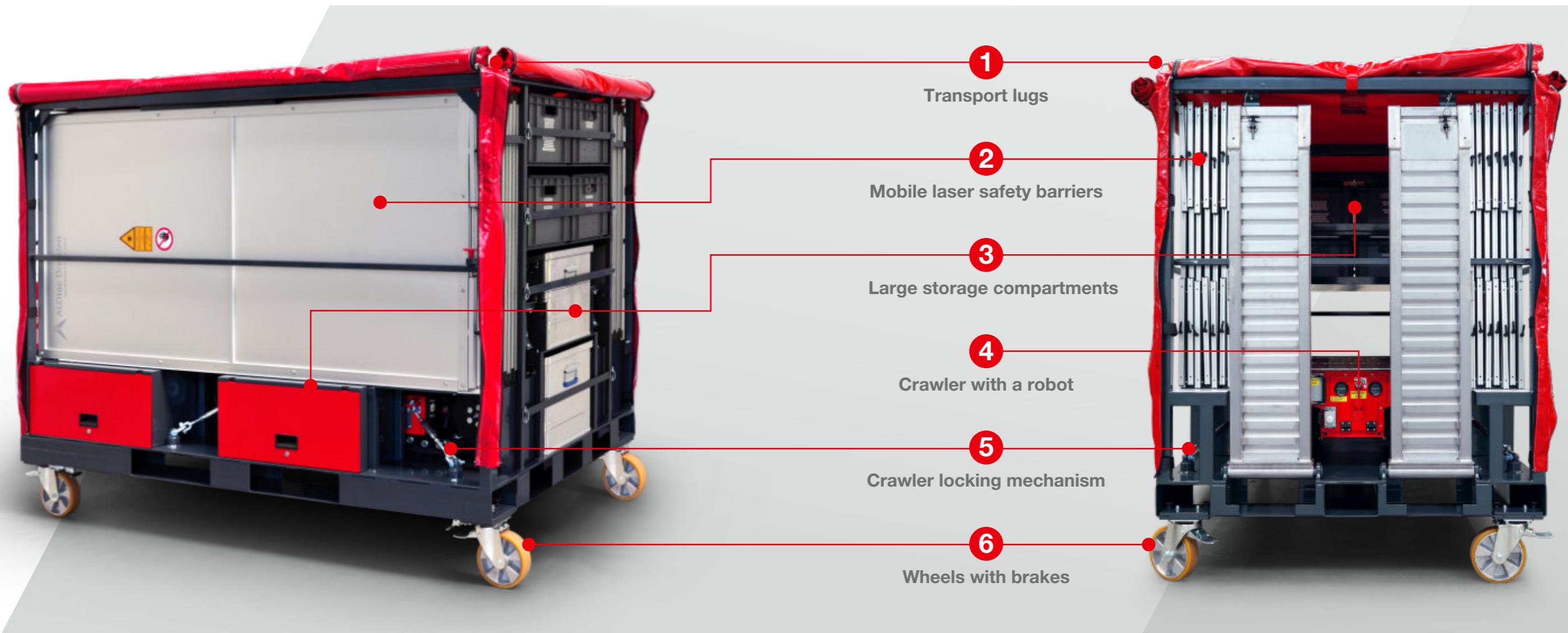
The ALProtect⁵ laser safety walls have been tested and certified by the renowned engineering office of Prof. Klaus R. Göbel.

ALProtect⁵ achieves an unprecedented protective exposure limit (E_{86}) of 13.8 MW/m² for a passive, mobile laser safety wall.

With ALProtect⁵ you work safer.

Mobile station for laser safety barriers

The certified laser safety barriers with accessories and the mobile laser system perfectly stored in a mobile station for safe transport.



1 Transport lugs
For safe loading and unloading and relocation to a second level

2 14 mobile laser safety barriers
Laser safety compliant with DIN EN 60825-4, size: 1.07 x 2.17 meters

3 Storage compartments for laser processing heads, tools, and accessories
2 dustproof boxes for processing heads, 4 dustproof boxes for laser safety accessories, and 4 lockable storage compartments for tools and accessories

4 Crawler with robot
Space for the mobile laser system with 2 robust loading ramps

5 Crawler locking mechanism
A secure locking mechanism for the crawler during transport

6 Wheels with brakes
For quick relocation and removable during transport

Assembly of the laser safety barriers

The laser safety barriers are flexible and quick to assemble. A detailed description can be found in our assembly manual "Mobile Laser Safety Barriers."



1 Pulling the laser safety barriers out of the station

The laser safety barriers can be easily pulled out of the station.

2 Turning the feet and attaching the wheels

Rotate the foot by 90° and insert the wheels into the mounting holes.

3 Setting up the laser safety barriers

Steer the barriers into the desired position to create an enclosed space.

4 Securing the locking straps

Attach the straps to the holes on the frame using the locking pins.

5 Attaching the laser safety curtains at the bottom

First, click the curtains for the bottom section onto the eyelets of the barriers.

6 Securing the laser safety curtains between two barriers

From top to bottom, connect all the snaps on one side to the curtain.

7 Attaching the technical accessories

The technical accessories include the emergency stop switch, the laser warning light, and the door monitoring, including the cables.

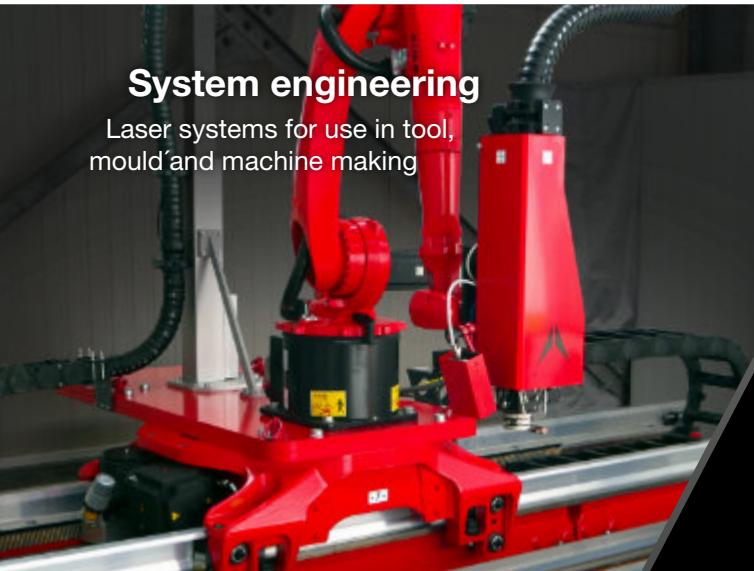


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Laser hardening and cladding systems.

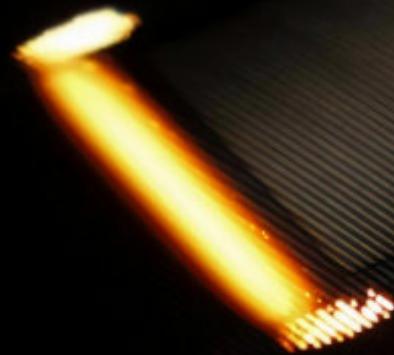
System engineering

Laser systems for use in tool, mould and machine making



Contract manufacturing

Laser hardening, repair and coating as well as additive manufacturing



ALOtec Dresden is a high-performance technology partner for the metalworking industry specialised in the manufacture of customized and turnkey robotic systems for laser hardening and laser cladding for over 25 years.



In addition, **ALOtec Dresden GmbH** offers services in the fields of laser hardening and laser cladding with powder or wire (Job-Shop-Production). These laser material processes can also be carried out – through the innovative **ALOflex** system – on-site at the customer's premises.

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