

REMOVAL OF ASBESTOS AND LEAD PAINT USING LASER TECHNOLOGY

Manual and 4.0 technology



The cleanLASER technology allows the removal of asbestos and lead paint in the enclosed workplace or on site. Manually or automated by robot, you can reduce operational costs, operator exposure and hazardous waste quantity.

Many industrial structures like refineries, chemical production facilities, plants generated by coal or nuclear, as well as infra-structures like bridges or transport vehicles and even historical vehicles contain paint with larger quantities of asbestos and lead. Conventional removal techniques such as sandblasting, slag blasting, high processing water jet, grinding and chemical are hazardous both for the environment as well as for the operator. Decoating work mostly requires workers to wear multiple types of PPE during repair, maintenance or restoration and the working area to be enclosed and sealed off to contain hazardous dust and debris which are time-consuming to clean up and costly to dispose of. In addition, the work can be performed in height, limited accessible area or in Natura 2000 type areas where media-based methods are not allowed. Laser provides a suitable solution and offers many superior advantages.



The proven solution for asbestos and lead paint removal by laser



Manual operation in a confined area: Asbestos fibre dispersion: 3 f/l



Manual operation in a confined area: Asbestos fibre dispersion: 0 f/l



Manual operation in a lightly confined area. Asbestos fibre dispersion: < 10 f/l



Robotic operation

The laser removes oxides, paint, rust, hydrocarbons, oil and grease in one step and is an ideal alternative to sandblasting, grinding, water-blasting and chemical decontamination. The CL 500 to CL 2000 laser systems ensure a rapid process. The new ultra-light and powerful optical technologies can be used in conjunction with automated or handheld guards. The combination with the point-source fume extraction makes the process safe and reduces waste disposal costs. Air monitoring results in the USA and Europe confirm that laser ablation is capable of removing lead- and asbestos-containing coatings without exposing staff or the general workplace to the hazardous contaminants.

COSTS AND POLLUTION REDUCTION WITH cleanLASER TECHNOLOGY

- Power up to 2000 W, output up to 2 m²/hour depending on layer thickness
- Very low dispersion of fibres/particles in the environment due to suction at source
- Very low installation costs
- Umbilical length of 50 m between source and optics
- Possibility of automation with ultra-fast (2 sec) trajectories
- Very low power consumption: 10-15 KW
- Noise < 80 dB
- Only the residues present on the structures to be stripped are collected, which considerably reduces the quantity of contaminated waste to be evacuated and stored
- Very low operator exposure - very significant reduction in operator stress
- Possibility of partial or total decontamination depending on the site

11.2021. Subject to technical changes

PLEASE CONTACT US - WE ARE HAPPY TO ADVISE!

 **cleanLASER**
cleaning with light