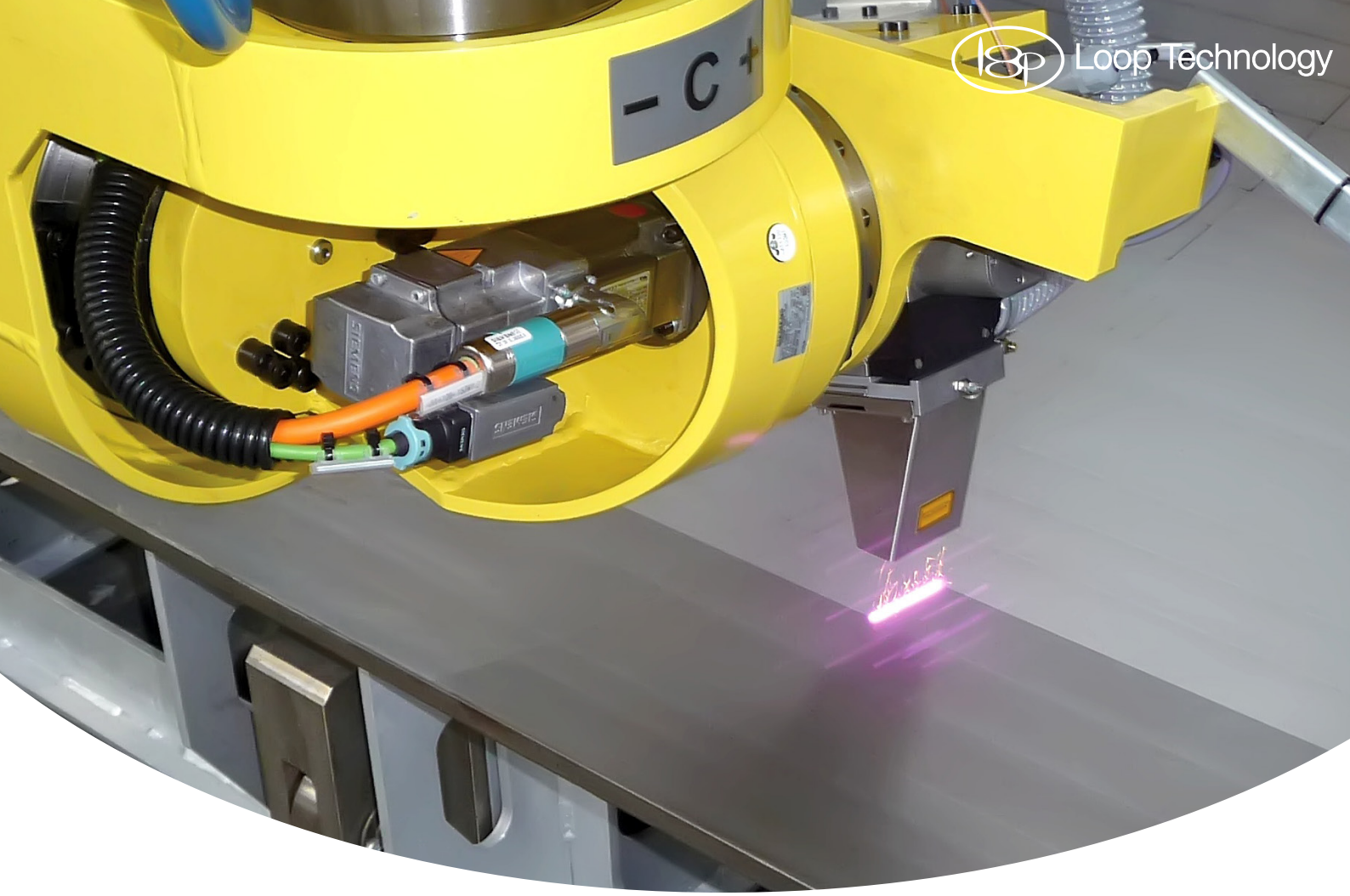


LoopCLEAN

Robotic Laser Cleaner

LoopCLEAN is a highly versatile robotic laser cleaning system. It provides groundbreaking levels of speed, precision and safety compared to handheld laser cleaning and traditional methods such as media blasting.

It uses laser ablation to remove material from the component's surface without causing damage to the underlying substrate. The laser cleaner is integrated with a six-axis industrial robot, facilitating automated cleaning of highly complex components with pioneering levels of control and repetition.

LoopCLEAN can be enabled with RealPATH which automatically generates the robot and cleaning program with no user interaction required.

It is simple to operate, environmentally friendly and offers significant reduction in cost.

Applications

- Cleaning of industrial equipment such as mould tools
- Removal of grease and oxide layers prior to welding
- Preparation of surfaces prior to adhesive bonding or painting
- Nuclear decommissioning & decontamination

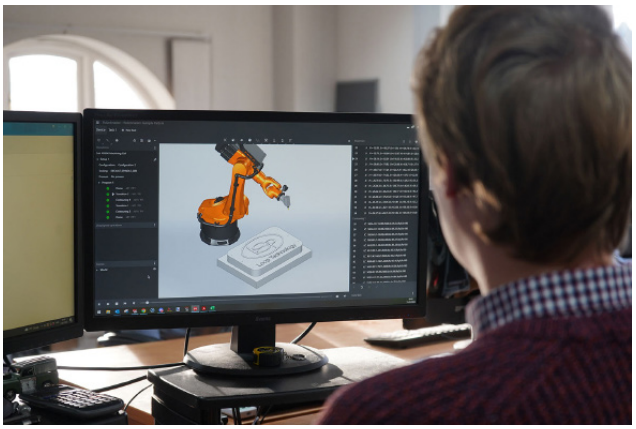
Benefits

- Cost reduction
- No programming required
- Versatile
- Safe, accurate and fast
- No damage to substrate
- 80% less energy than traditional abrasive methods
- No solvents or consumables
- Class 1 laser product

LoopCLEAN Configurations

LoopCLEAN

Our standard offering provides automated laser cleaning whilst retaining human operation over the generation of robot and cleaning programs. The operator programs the robot and controls its range of motion via the robot pendant. Ideal for performing simple and repetitive tasks without the need for complex programming software.



LoopCLEAN Pro

LoopCLEAN with RobotMaster provides a higher level of precision and automation. A CAD model of the tool to be cleaned is imported into RobotMaster software where cleaning paths are simulated and refined. The code is transferred to the robot and the equipment is laser cleaned.

LoopCLEAN Auto

Cutting-edge automated robot path generation combined with laser cleaning technology. LoopCLEAN Auto uses pioneering RealPATH software to take automated laser cleaning to the next level. 3D imaging combined with singularity and collision avoidance algorithms generate the robotic cleaning pathways, bypassing the need for component CAD and offline programming, delivering a no code laser cleaning system for the customer.

Loop Technology

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