



RoboCLEAN

Flexible 6-axis robot based automated laser cleaning machine

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RoboCLEAN delivers a fast, quiet, accurate and efficient solution to what can be noisy and messy processes.

Laser cleaning can be used for:

- Cleaning of simple or complex shaped mould tools
- Removal of grease and oxide layers prior to welding
- Preparation of surfaces prior to adhesive bonding or painting

Expensive chemicals and consumables are completely eliminated, streamlining your process and improving timescales and overall safety.

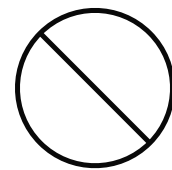
The compact machine can be either manually loaded, integrated into an existing production line, or we can provide a fully automated loading solution to suit your specific application.



Key capabilities



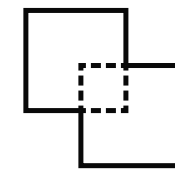
ENERGY EFFICIENT



NO CHEMICALS



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2D OPTICS CAPABLE

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Technical specification

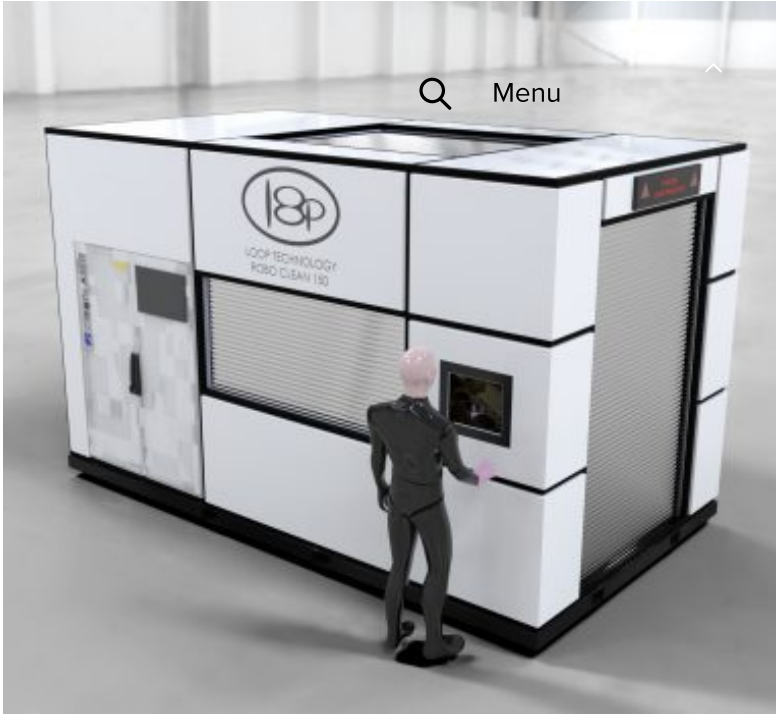
RoboCLEAN is available in two standard variants, **COMPACT** and **PRO**, or we can supply a RoboCLEAN to suit your specific requirements.

RoboCLEAN COMPACT

KUKA KR10 Agilus 6-axis robot with KRC4 Compact control system.
CleanLASER laser unit (up to 100 watts) complete with 1D or 2D Optics.
Extraction system.
Fully enclosed and safety interlocked CLASS 4 Laser compliant guarding (CLASS 1 Externally).
1.3m x 1.3m floor space dimension.

RoboCLEAN PRO

KUKA KR20 6-axis robot with KRC4 control system.
CleanLASER laser unit (up to 1000 watts) complete with 1D or 2D Optics.
Extraction system.
Fully enclosed and safety interlocked CLASS 4 Laser compliant guarding (CLASS 1 Externally).
4.2m x 2.4m floor space dimension.



(https://www.looptechnology.com/wp-content/uploads/2018/11/DSC_0408.jpg)

(<https://www.looptechnology.com/wp-content/uploads/2018/11/Untitled-Project-13.jpg>)

Larger Scale Automated Laser Cleaning

Loop Technology have a wide range of bespoke large scale automated laser cleaning solutions. Our years of experience using robotic and gantry systems allow us to provide the best scheme that match your requirements, irrelevant of how big or small.

- Gantry or robotic systems can provide large scale laser cleaning.
- Flexible systems that can work for multiple tooling types and sizes.
- Suitable for all aerospace moulds tools and components.
- Full turnkey solutions available.



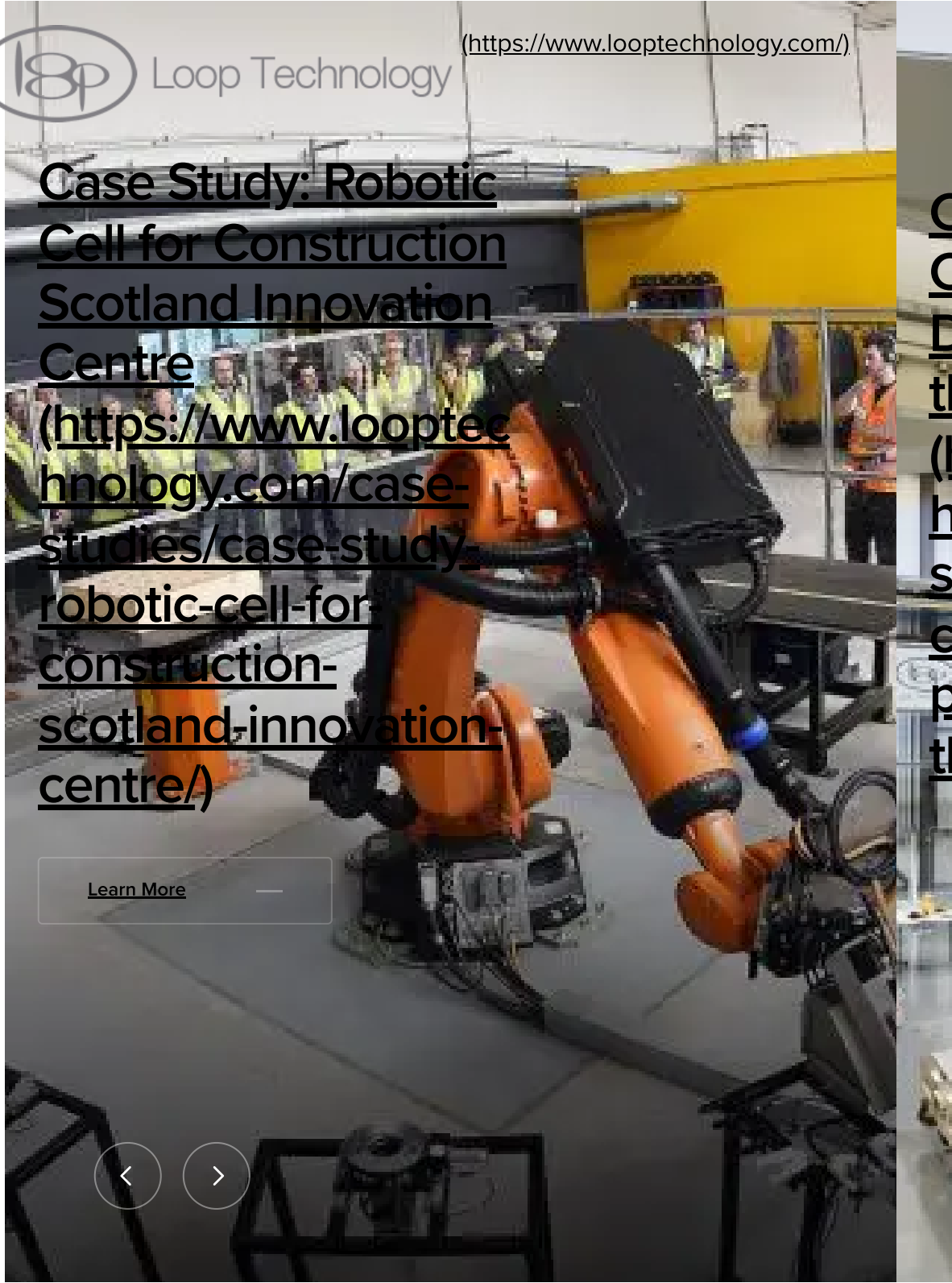
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Find out more about our laser cleaning solutions or contact us about this product.

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Case Study: Robotic Cell for Construction Scotland Innovation Centre
(https://www.looptechnology.com/case-studies/case-study-robotic-cell-for-construction-scotland-innovation-centre/)



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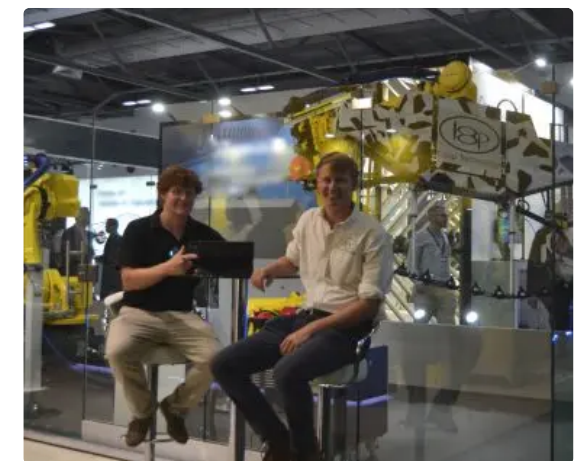
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