

Discover Mourik

Infrastructure

Industrial services

Catalyst handling

Industrial and commercial construction

Environmental technology

Project development



A new standard in Bundle Cleaning: Hydra™

Downtime means lost production. To be back online as soon as possible, a tight schedule is required. Asset owners require cleaning methods for plant and equipment that have short, predictable turnaround times. Cleaning can be carried out quickly, but, will that deliver an outcome sufficient for the equipment to operate optimally? Without compromising safety?

Mourik now offers new opportunities with the introduction of Hydra: the first robotic exchanger cleaner.



Hydra performs the internal bundle cleaning entirely independently

What is Hydra?

From the research lab to reality, Mourik has developed the first autonomous bundle cleaning machine in Hydra. The Hydra process begins by scanning the tube sheet of the bundle. After scanning, the machine performs the internal bundle cleaning entirely independently. Five rotary lances provide maximum cleaning power using high-pressure water. The system dynamically positions the lances with unprecedented accuracy, minimising the risk of damage to the bundle. During the cleaning process Hydra continuously monitors all parameters, automatically adjusting itself to the most appropriate cleaning method in the event of abnormalities being detected.



SCALAR collects in-depth information about your bundle



Hydra, the new standard in the industry

Without human intervention, under any circumstances

The brain of Hydra is powered by SCALAR technology, developed by Mourik. SCALAR brings together the combination of Mourik's extensive experience of bundle cleaning with state-of-the-art machine learning technology.

Following a 3D scan of the equipment, advanced algorithms drive the machine to deliver a tailor-made cleaning operation. During cleaning, SCALAR collects in-depth information about the bundle.

The result: with the bundle ready to operate for the longest possible period, Mourik contributes to maximising the uptime of the plant. Thanks to the high speed and efficiency of the cleaning operation, water and energy consumption is minimised, allowing us to make a new step in improving the environmental impact of internal bundle cleaning. Following cleaning, all of the data collected is available in a clear report, giving you a deeper insight into the condition of your equipment.

An unprecedented level of safety, speed and effectiveness. Better than any internal bundle cleaning method before

Your benefits

- Cleaning that is predictably fast, with a result that is effective and guaranteed to be comprehensive
- Risk of damage is minimised via high precision positioning
- Safety: remote operation minimises risk by removing the operator from the work area
- Greater insight into condition monitoring with extensive reporting

We are just at the beginning of the possibilities within industrial maintenance. Working safely, delivering quality, protecting our environment and creating maximum value together: it's in our DNA.

Mourik, imagine what's NEXT

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