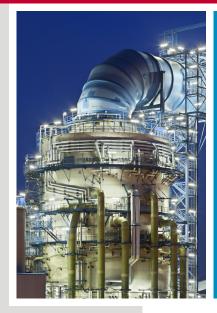


# A Case Study for Heavy Industry Howden Power



Howden Power is a global leader of air and gas-handling equipment, that specialises in helping power stations improve everyday processes and increase productivity.

Howden Power is part of the Howden Group of companies - an established global engineering business, with over a century of experience.



# CASE STUDY

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# Background

Howden Power identified the need to develop a range of high-pressure washers, able to withstand the challenges of the power station environment. The equipment needed to operate efficiently and effectively, in a potentially hazardous environment, where operators must work remotely, due to the gaseous atmosphere.

Howden Power asked RMI to work in collaboration with them, applying our knowledge and expertise to develop a bespoke range of washers, that could meet these environmental requirements, and improve plant performance.

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## **Challenges**

Howden Power stated that the new high-pressure washers needed to:

- Be reliable and easy to repair and replace.
- Have automated control for remote operation.
- Be flexible to suit different applications and to clean a range of equipment such as fans, flues and heaters.
- Integrate with existing power station control technology.

## **Solution**

The new range of equipment included:

- High pressure washers for gas reheaters and flue gas desulphurisation (FGD) plant.
- High pressure washers for soot blower air heaters.
- Enclosed construction of pump systems to prevent ingress from contaminants and protection against build-up of airborne dust.

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## **Benefits**

The FGD washers were developed for the RMI Trimax S50 pump series, designed to provide a safe and reliable supply of high-pressure water. The crankshaft-driven reciprocating pumps provide high-efficiency pumping, at pressures up to 120 bar. The range is characterised by heavy-duty design and construction (resistance to heat, water, acidity and dirt), which prolongs equipment life, maximising productivity and profit for our clients.

- The washers featured a fullyautomated retractable lance, enabling them to be used in gaseous atmospheres and other hazardous environments.
- The FGD systems can be used in environments ranging from freezing to high ambient temperatures, making them suitable for the full range of environmental conditions.

# **Tech-Facts**

## **Equipment List**

- Trimax S50 Pumps
- Acoustic enclosure
- Control and safety valves
- Electronic controls
  - Developing our product range with RMI Pressure Systems has enabled us to expand into new markets and help substantially reduce power station sulphur emissions.

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RMI PRESSURE SYSTEMS IS A MEMBER OF ARMSTRONG FLUID TECHNOLOGY

For more information, contact your RMI representative or visit us at: **www.rmipsl.com** 

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