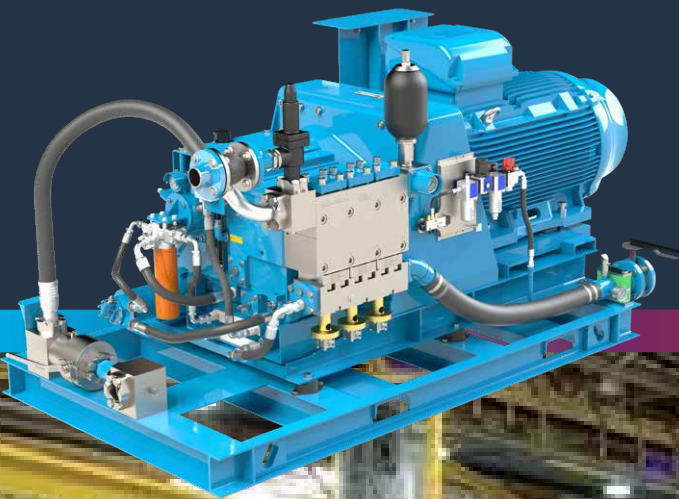


A Case Study for Heavy Industry Howden Power

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.



“Developing our product range with Armstrong **Industrial** has enabled us to expand into new markets and help substantially reduce power station sulphur emissions.”

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 Armstrong **Industrial** (previously known as RMI Pressure Systems Ltd) 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.

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

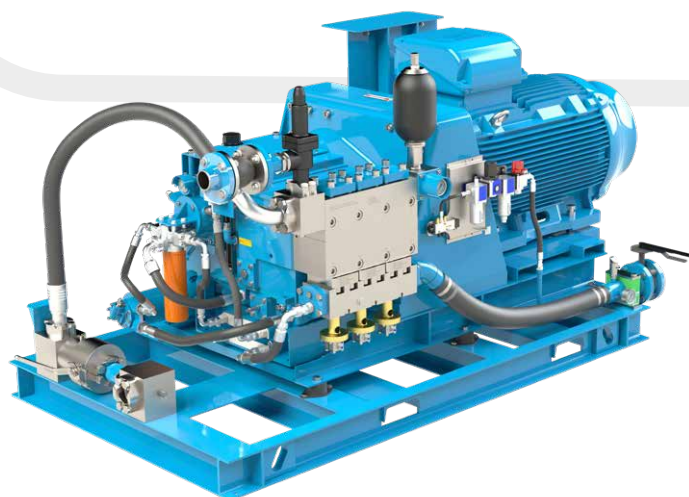
The new range of equipment included:

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

Benefits

The FGD washers were developed for the Armstrong **Industrial** 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 fully-automated 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-info

Trimax S50 Pumps

Acoustic enclosure

Control and safety valves

Electronic controls

For more information, contact your local Armstrong representative or visit us at:
armstrongfluidtechnology.com/en/industrial/home

Armstrong **Industrial**