

Industrial Products and Services





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RMI S300 pumps providing high pressure water for a steel forming process.



- 1. Descale System**
utilising variable speed pumps with a payback period of 1.7 years.
- 2. CAD System**
being used to model new modular design valve chest assembly.
- 3. Quality Assurance**
and safety systems are paramount to RMI's success. Components awaiting final inspection.

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Product Benefits

Reliability

RMI has established an enviable reputation for supplying the industrial market with some of the most reliable high-pressure reciprocating pumps available. Utilising the very latest technologies, coupled with the vast experience of its engineering team, RMI can deliver a system that will operate in the most extreme environments.

Our engineers work continuously to improve performance, but we understand that superb performance must go hand in hand with reliability and availability. With this in mind, we use only the highest-quality components and materials, designed and manufactured to exacting tolerances.

Attention to detail means that even the smallest component is rigorously specified and made from high-performance materials. Nickel plating is used to give longer life and better performance than stainless steel. Advanced ceramics improve surface hardness and reduce maintenance.

Energy Savings

Working with customers across a variety of market sectors, from steel manufacture to power generation companies, we strive to provide a complete design solution for the system.

An understanding of the complete process is critical and allows us to evaluate the running cycle of the pumps within the operating environment. To enable clients to realise maximum return on their investment, we evaluate the lifetime cost of the equipment including original supply, servicing and running costs. All control methods are assessed and a full-life cost calculation submitted to the client.

Intelligent variable speed pumps have been supplied for many applications including heavy presses and steel pipe descale systems, with a calculated payback period of less than two years.

Quality Controls

All RMI equipment is designed, manufactured and supplied in accordance with European ISO 9001 Quality Assurance accreditation certified by Lloyd's and governed by Quality Management Systems to provide and maintain client and user service. Our systems are regularly audited and updated to ensure full compliance.



Industrial Products

Industrial Applications

RMI produces high-pressure pumps for a vast range of applications and market sectors, each with its own specifications and operating conditions. Understanding the diverse nature of - and requirements for - these markets has been crucial to the success of RMI. Our modular design enables us to manufacture systems to customers' precise specifications.

Whether the pumps are being supplied for an offshore oil rig platform or are to be installed in a factory for a manufacturing process, our design team will work with clients to provide the ideal package that suits the environmental and operating conditions.

Trimax S50 – S350 Pumps

The 'S' range of plunger pumps forms the core of RMI pumping systems. To meet the most demanding operating conditions, the pumps are under a continuous development programme, with higher efficiency and reduced lifetime cost key considerations in our design review process.

All pumps are fitted with a robust fully supported crankshaft with conrods assembled with lead bronze big and small end bearings. Extremely high wear-resistant solid ceramic plungers, combined with Kevlar fibre seals provide long-lasting high-pressure sealing. All pumps undergo a rigorous testing programme prior to dispatch which includes oil temperature and pressure checks plus vibration monitoring, as well as the normal pump performance criteria.

Pump Type	L/min	Bar	USgpm	PSI
S50	46 - 135	148 - 415	12 - 36	2150 - 6000
S75	50 - 215	180 - 700	13 - 56	2500 - 10000
S200 - 250	68 - 610	132 - 1000	18 - 160	1925 - 14500
S300 - 350	100 - 670	180- 1000	26 - 175	2600 - 14500

1. Environmental Protection

Full enclosure designed to handle coal fired power station conditions.

2. Quinmax S500

Unique replaceable cartridge valve chest and 5 plunger design.

3. Valve chest

Fully serviceable in situ significantly reducing service cost.

4. Variable Speed

S300 pump for tube press application.



Quinmax S500

The S500 is the latest addition to the very successful 'S' range. The key element of the S500 pump is its five-plunger design, which has several advantages over the more traditional three-plunger format, including lower forces on the crankshaft and associated bearings and a 40% reduction in the fluid velocity per plunger. Reduced hydraulic noise and pressure pulses minimise the impact of surges on other critical items of equipment, increasing their life expectancy. The unique valve chest incorporates a replaceable cartridge-style design for the valve and seal housings leading to user-friendly maintenance, resulting in fewer downtime periods.

Pump Duties range from

340 - 1080L/min @ 195 - 500Bar
(50Hz speed)

105 – 310USgpm @ 2850 - 7250psi
(60Hz speed)

Pump Valve Chest

As part of our drive to innovate and improve the overall lifetime operating costs of our products, the engineering team has developed a unique valve chest. This new product is not only fully serviceable in situ, but, as it's a continuation of our modular design, it can be retro-fitted to existing S200 – S500 pumps. Utilising a cartridge valve design, an individual valve can be replaced without the removal of the valve chest, thus speeding up repairs.

Control Equipment.

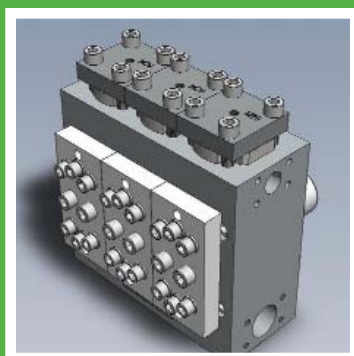
Pumps can be supplied as standalone products to be incorporated into the main process controls. However, to maximise system efficiencies, we will supply a complete control solution, including variable speed drives, automatic controls, and all the operating and health-monitoring functions to ensure the equipment runs efficiently and fault free.

Environmental Protection

Considering the hazardous and challenging conditions within which many of our pumps operate, varying protective housings designs are available and can be supplied as a complete assembly. They range from housings that protect the pump station from the site environment, dust, chemical and weather damage, to those that reduce the decibel noise rating of the equipment.



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The RMI Customer service commitment is supported by a global presence with wholly owned operations in the UK, China, India, the USA and Australia.

Ongoing Support

Spares Modules

Anticipating the inevitability of pump repairs, and the impact of that on production, we have developed a full range of spare pump modules and kits. Reducing maintenance downtime is critical and, by utilising our module approach, repairs can be carried out in record time. The need to hold or order large stocks of small intricate parts is removed, resulting in many associated savings in time and space. The pre-assembled kits come with a full manufacturer's warranty and fitting instructions, providing additional reassurance.

Safety Standards

RMI equipment is often installed in very hazardous and challenging environments that are tough on equipment and workers alike. We believe that nothing is more important than the well-being of people working in these conditions. We exceed the requirements of all international safety standards and to ensure that we never sacrifice safety for performance we have specialist engineers who focus entirely on operational safety.

Service Backup

All equipment is supplied with full operating and maintenance instructions. Full site training can be arranged to ensure site engineers can operate the equipment safely and can execute routine maintenance tasks. To support each product however, we have fully equipped, multi-skilled service engineers who are ready to attend on site whenever the case arises. Our engineers are backed up by our many global agents, who have been trained to high standards on our equipment and its operation.

- 1. Spares Parts,**
Being picked from our extensive stock holding.
- 2. Service Backup**
Provided by our own engineers, and our 24-hour UK help desk.
- 3. Safety Standards**
Pump undergoing Performance and Safety checks prior to dispatch.



RMI Service Engineer
completing final inspection
tests of safety circuits



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