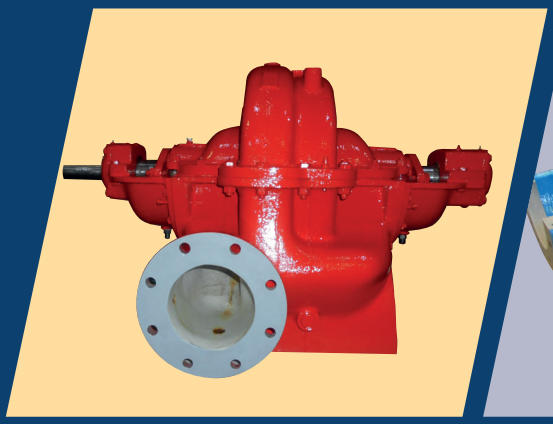
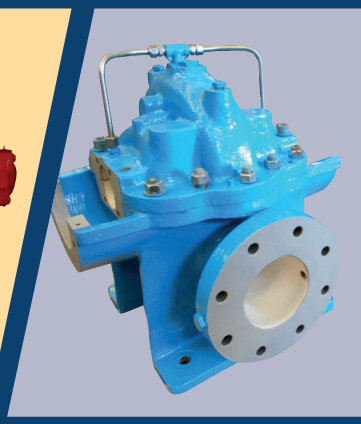
CORROSERVE

ENGINEERING LONGEVITY





PUMP SERVICES

A COMPLETE SERVICE FOR PUMP MAINTENANCE, REPAIR & PROTECTION

Established in 1975, the Corrosioneering Group has gained a global recognition for all its products and services. Our expertise has led us to operate from offices in 30 locations across five continents and has made the Corrosioneering Group a name you can trust to protect and repair parts, machinery and more.

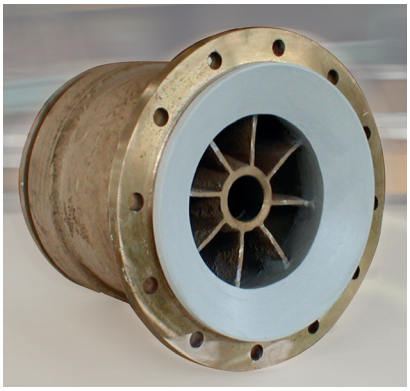
However, our world leading coating products are only part of what we offer – At CORROSERVE, we also provide a selection of high quality engineering services.

Our pump division offers customers a comprehensive service which includes on and off site maintenance and repairs. We also offer a re-engineering of pumps, plus coating services for corrosion protection on almost all types of pump.

An end suction pump ready for despatch after a full service.

Types of pumps include:-

- Archimedes screw
- End Suction centrifugal
- Vertical inline centrifugal
- Axially split centrifugal
- Radially split centrifugal
- Vertical wet pit diffuser
- Vertical wet pit volute
- Axial flow
- Maceration units



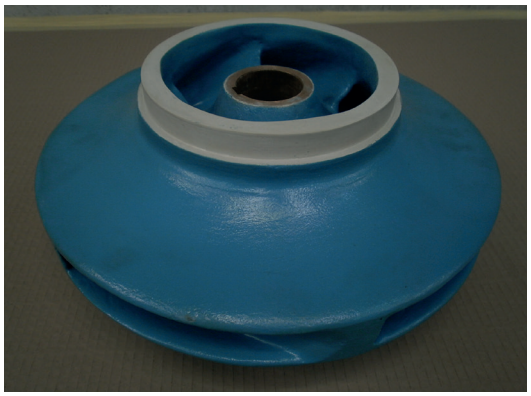
A pump bowl/ diffuser wear face repaired using Plasmet HTE for a superior resistance to abrasion compared to the base material.

The bespoke nature of our service enables us to respond to individual customer requirements and our ability to provide equipment quickly and to budget are key elements in the services we offer to our customers.

A horizontal split case pump which has had the stationary wear ring landings rebuilt using Corroglass 600 series coating system, overlaid with Fluiglide to increase efficiency.

Our list of clients include some of the world's most respected companies operating in fields as diverse as mining, oil and gas, chemicals, power generation, water and wastewater, pulp and paper and marine industries.

A radial flow impeller before repair.



The same radial flow impeller after refurbishment using Corroglass 600 series coating system, overlaid with Corroglass 252 (Drill Guard), finish machined to specified clearances and tolerances.

***CORROSERVE**'s ability to combine mechanical engineering with advanced polymer technology allows even the most severely damaged pumps to be refurbished at a fraction of the replacement cost.*

The use of our advanced coating systems can prevent the need for expensive metallurgical solutions and substantial efficiency improvements can be achieved by utilising Fluiglide and Fluiglide E coating systems.

A repaired impeller overlaid using Fluiglide.

All pumps and parts are repaired where appropriate in accordance with industry standards or higher, with upgrades in materials and tightening of tolerances to improve efficiency, performance and pump life. Many of these pumps are protected against corrosion using CORROCOAT's tried and tested coatings – the selection of which is dependent on the service environment and substrate material.

An end suction pump back in service after a full overhaul.

CORROSERVE pump services offer:

- Full overhaul of rotating equipment
- Onsite maintenance service
- Bespoke maintenance plans to suite each pump and application
- One off component repair or re-manufacture
- Technical support
- Condition monitoring
- Full on-site service (removal, repair, install and commission)
- Specialist coatings dependent on application
- Certified pump testing
- Full strip and inspection report
- Machining capabilities
- Dynamic balancing of rotating components & assemblies

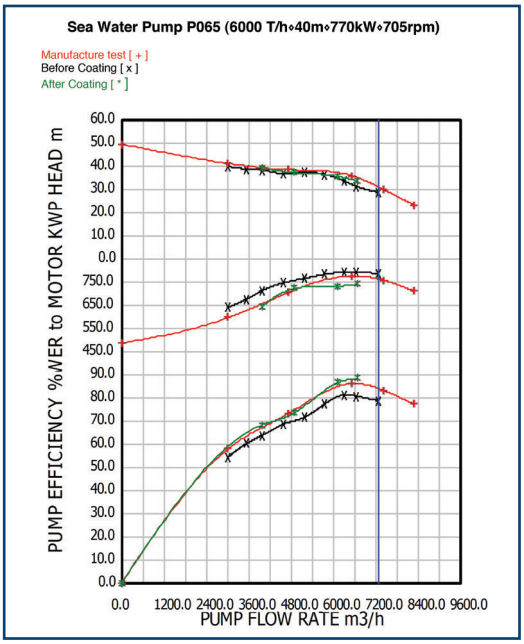
CORROSERVE customer service

Every pump repair will include an initial strip and inspection report with a quotation to the customer including detailed photographs as required. Once the repair is complete every pump will be returned with its own completion pack giving the customer the assurance that the work has been carried out to the highest standard.

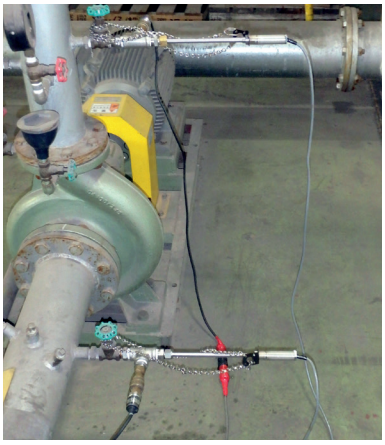
For pump maintenance services we will discuss your requirements and tailor a maintenance programme specifically to suit your needs- ideally during an initial site visit or via telephone and email.

On-Site performance Testing

On-site testing using the latest Thermal Pump Monitor (TPM) equipment can be carried out on most pumping systems. The Data Acquisition Unit (DAU) takes real time measurements of the pump in service. Using state of the art software we can plot multiple curves on to a single graph, to make comparisons of OEM curves and actual pump performance, simple and easy to understand without the need to be an expert.



Periodic testing using TPM/DAU will show the losses in performance over the life of the pump and also the gains after refurbishment – this valuable data makes routine maintenance efficient and less costly.



On site pump testing using our latest thermal pump test equipment.

Optimising pump performance

Many pumps are over specified for the job in hand, therefore, identifying the Best Efficiency Point (BEP) is crucial for optimising pump performance. With the addition of our Fluiglide efficiency coating and the re-engineering of key components within the pump we can improve not only the efficiency of the pump, but also the life expectancy. With the use of Fluiglide we can often achieve the same flow rate with reduced power consumption, saving electrical energy or increased flow and head for the same electrical input.

Practical Diagnosis and Life Prediction

Portable Data Acquisition Unit (DAU) can measure the acceleration, velocity and displacement of rotating equipment. The maintenance and electricity costs are greatly reduced using our diagnostic service

For further information on our pump engineering services and testing please contact us.

Corroserve is a member of the Corrosioneering Group which also includes specialist paints and coatings manufacturer – Corrocoat and Research and Development Division – Corrolabs. Working together we provide the ultimate 'one-stop-shop' for our customers.

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