Providing cost effective parts for any brand of rotating equipment
Advanced Parts Solutions

Weir ADVANCED PARTS SOLUTIONS is a complete manufacturing facility supplying engineered parts, material upgrades and redesign of components.

With over 100 years of pump manufacturing experience, Weir ADVANCED PARTS SOLUTIONS provides a high quality spare parts service that will reduce costs through the life of your rotating equipment.

Our ultra-modern manufacturing facilities located throughout the world produce high integrity spare parts for all rotating equipment irrespective of manufacturer or location.

Our technicians will visit your site to survey, digitally capture component geometry and record stock spare parts prior to preparing manufacturing drawings all at no cost. Where appropriate we can extend this service to a wider analysis of plant operating problems encompassing operating conditions, material selection, design and production parameters.

Engineering:

At Weir APS we pride ourselves in rapid production of current or obsolete components with an accuracy and quality that meets or surpasses competitors’ products.

We have full design and engineering capabilities including mechanical and hydraulic modifications. Additionally Weir can manufacture all the internal components required for compressor and steam turbine re-rates. This includes impellers, shafts and stationary components such as diffusers and return channels.

Our extensive experience in re-engineering aligned with over 100 years of experience in the design of similar products ensures that all critical fits and tolerances are reproduced to guarantee reliable operation.

Benefits:

Cost competitive engineered components available on short lead times

Full technical support and design and R&D support from Weir Group

Material upgrades can be offered competitively priced against original material selection

Engineering solutions can be offered to enhance efficiency, improve performance and extend the life of equipment.
Our global network of companies and service centers provides ongoing world-wide support

Rapid-production parts are investment-cast eliminating conventional patterns and dramatically reducing casting lead times

Advanced manufacturing of patterns and tooling reduce lead times

**Capabilities:**

Enhancing the quality and design of the replacement parts can:

- Improve equipment reliability and availability.
- Alter the hydraulic performance of the pump to suit new system requirements.
- Upgrade or re-rate compressors and steam turbines' efficiencies and capacities.

Component life can be extended by improved material selection, the application of modern design techniques and by the use of modern engineering coatings:

- Introduce the Weir range of Super Duplex steels (Zeron 100).
- HVOF spray coatings.
- Fusion bonded epoxy coatings.
- Erosion/Corrosion resistance coatings.

Advanced manufacturing techniques such as rapid prototyping (3D printing), 6 axis Coordinate Measurement Machines, Computer Aided Design (Solidworks), Computer Aided Manufacturing and CNC machining capability can:

- Rapidly create new or modified engineering designs of various types of parts.
- Speed up route to manufacture by creating wax patterns for investment casting.
- Aid in solidification analysis for casting manufacture.
- Allow Weir to create 3D parts or assemblies, together with complete manufacturing drawings in house. Forming a large database of pump parts from which we can draw for our customers benefit.
- Achieve highly accurate and fast CNC manufacturing directly from digitally captured data.

**References:**

Saline Water Conversion Corporation (Saudi Arabia)

Ministry of Electricity & Water (Kuwait)

Al Furat Petroleum Company (Syria)

Aden Refinery Company (Yemen)

Petroleum Development Organization (Oman)

BP (Azerbaijan)

Dubai Electricity & Water

Sharjah Municipality
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