

A cost-effective solution to restore a damaged or worn part

Reverse Engineering of Aftermarket Parts (REAP) is a specialized division within Ruhrpumpen's Aftermarket services that can replicate broken or worn pump parts for any pump model of nuclear, commercial and industrial pumps regardless of the manufacturer.

With a combined experience of 40 years with pumps and reverse engineering, the REAP team offers an alternative for obtaining replacement parts for any existing equipment.

Our engineering experts analyze the pump model and performance data to guarantee that the new REAP part will meet or exceed the current performance. The REAP solid model is created using the latest technology in solid modeling software and coordinate measuring machines.

Discontinued pump models

It is not necessary to buy a new pump simply because spare parts are not available as the pump model is no longer manufactured. REAP can solve this by reverse engineering the damaged parts to manufacture new ones.

Our REAP team can inspect the deteriorated part to identify the reason it is failing. The 3D model is then analyzed and improvements are suggested for the new REAP replacement part. Thus, the new component will meet the form, fit and function of the original part.

On-site service

The REAP team is able to offer on-site reverse engineering services during maintenance outages. This flexible service is based on your schedule, so your pump part never leaves the plant.

The on-site visit can be scheduled while your pump is disassembled. This allows REAP to measure and model the damaged or worn part, so that your production cycle is unaffected. Most parts can be drawn in less than 1 day.

Meanwhile, REAP can accurately quote, evaluate with RP engineers and manufacture a replacement while your old pump is continuing to work for you.

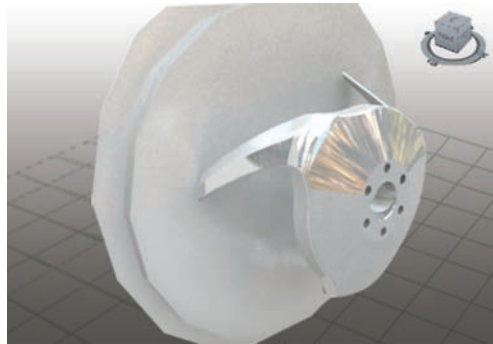
Reverse Engineering

a process by which the design of an equipment, object or system is re-created through the analysis of its structure, function and operatin using a physical part as a starting point.

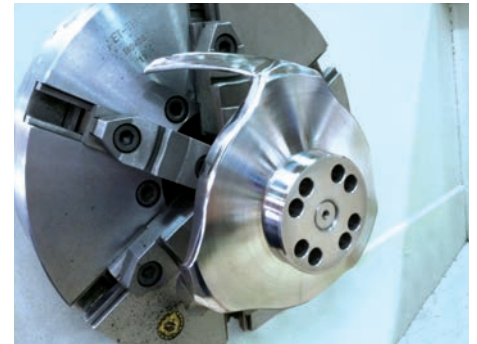




Original damaged part



3D model created by REAP



Final redesigned part

Ruhrpumpen's REAP team understands the urgency of the replacement and will be flexible in addressing your needs.

Through different techniques, the REAP team is able to fabricate an exact replacement of the original part to work with your OEM equipment. We can:

- Rapid prototype a part from a solid model
- Print precise sand molds from a solid model
- Use a router head to carve sand molds from solid model
- Build a traditional pattern from a 3D model

Benefits

- Supply of overhauled components
- Improved mechanical and hydraulic performance
- Reduced operating and maintenance costs
- Parts can be fabricated for pumps from any manufacturer

+65 years creating the pumping technology that moves our world

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