

Industrial surface treatments

Sulzer offers a specialist reclamation and repair service providing surface treatments for hydraulic piston rods, rams, cylinders, shafts, tools and machined parts. Sulzer surface treatment technology operations are managed by experienced engineers and technicians providing reduced wear and extended lifetime for your component.

Customised solutions

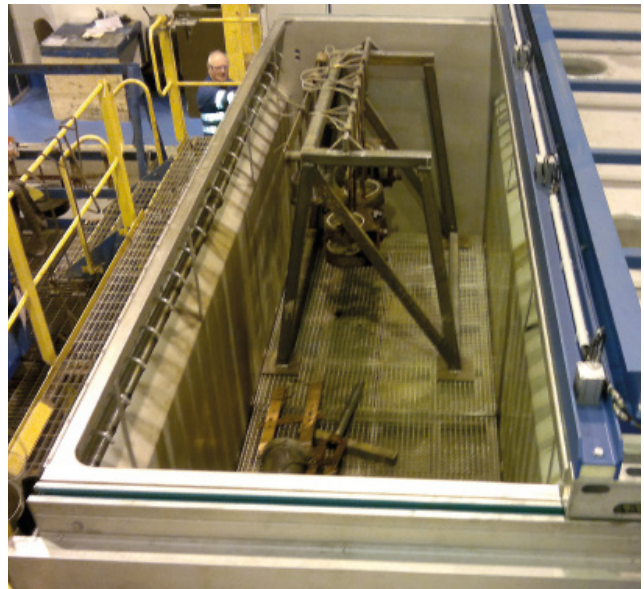
Sulzer can provide a unique solution for worn, damaged and mis-machined parts. These can be repaired or reclaimed utilising in-house industrial surface treatments.

Using the latest technologies in:

- Electro-plating
- Precision grinding
- Super finishing (polishing)
- Thermal metal sprays – HVOF and plasma
- Reclamation

Accreditations

- Environmental permit
- ISO 14001 environmental management system
- ISO 18001 health and safety
- ISO 9001 quality
- Lloyds approved electroplating and thermal spray facility
- Member of the Surface Engineering Association



- Reduced wear
- Extended lifetime
- Fast service



Reclamation

From single stage to multi stage, general service water to boiler feed and cargo pumps, Sulzer offers a complete reclamation repair service. This involves anodically and grinding to remove the original chrome coating, grinding up base material to remove damage or corrosion ingress, and replating. The lower cost and faster speed of turnaround are the reasons why customer opt for this type of process.

Electro-plating

Hard chromium produces a metal coating with a low co-efficient of friction recognised for its hardness, wear resistance and, when used with nickel, anti-corrosion properties. Mining equipment and cylinders all benefit from the reduced wear rate and anti-corrosion properties, whilst the low co-efficient of the friction makes chromium an ideal coating for bearing journals, crankshafts and hydraulic rams. Nickel can often be used under chromium for corrosion protection or where heavy deposits are required. Nickel alone can give an added protection to components operating in highly corrosive atmospheres or chemical solutions.

Precision grinding

Extensive grinding facilities compliment coating services producing high quality finishes to the most stringent accuracies and geometrical tolerances. These facilities can be used for producing surface finishes and concentric diameters to very accurate tolerances on all types of materials and coatings including hard chrome plating, nickel, stainless steel, ceramics etc.

Super finishing (polishing)

By using the latest micro-finishing machines, customers can specify repeatable surface finishes of less than 1µ in.CLA. This process can be used on almost any material including steels, iron, hard chromium and nickel plating, ceramics, chrome and tungsten carbides and even paper or rubber. Sulzer provides super finishing including: chrome plated rollers for printing and magnetic media industries where mirror-like finishes are essential, and plungers and rams where seal life and performance require a specified surface finish.

Thermal metal sprays – HVOF and plasma

High Velocity Oxygen Fuel (HVOF) coating is a thermal spray coating process used to improve or restore a component's surface properties or dimensions, thus extending equipment life by significantly increasing erosion and wear resistance and corrosion protection.

