

## Rotork Gears case study

Rotork Gears is a specialist supplier of gearboxes, adaptations and accessories to the international valve and actuator industry with manufacturing plants in the UK, Netherlands, Italy, China, USA and India.

Rotork Gears provides an extensive range of valve gearboxes, designed to withstand the harsh challenges of valve operating environments, including subsea and nuclear. We also provide a complete range of mounting brackets, extension shafts, pedestals and accessories for the valve and actuator industry.

Together with Rotork Gears Division we carried out several trials and independent testing where our products were compared with their existing processes and other alternatives. Unlikely scenarios for testing the paint finish were devised and followed up.

Rotork were looking for a solution which eliminated problems that are normal with phosphating systems. Flash rust, failure to remove some types of contamination, water remaining in inaccessible places and causing rusting etc.

It was found that the many additional benefits which our products bring, (**flash rust protection, extended unpainted protection of 6 months or more, no water, no heat, no waste**) in addition to the superior protective properties, gave Rotork commercial flexibility and advantages which no phosphate system could supply.

Additionally, our process required less space than conventional, multi-stage systems.

The complexity of Rotork products, which need to be painted after assembly, gives challenges when preparing them for paint and no mistakes can be made as these products are used in the most testing conditions; at sea, sub-sea, Nuclear industries and desert conditions.

Envirometal Technologies has a range of products which allow the correct solution to be provided for every type of product requirement. Air drying, low temperature drying (40-80°) through to 140°C forced drying.