



## Mechanical Seal Repair and Remanufacture

Save up to 40% of the cost of a new mechanical seal by opting to have it re-manufactured by Pioneer Weston. Benefit from the same performance and product life and in some circumstances they can be delivered before a replacement unit.

Our dedicated 240m<sup>2</sup> re-manufacturing centre is one of the best equipped in the world, and houses the latest production, control and testing equipment to ensure your seal will match the performance of the original manufacturers' unit.

Our technicians and specialists repair and modify all leading brands as well as bespoke or custom seals and are expert in returning them to the highest standards, quickly and professionally using original or special design components where required. To date, we have re-engineered more than 10,000 custom mechanical seals to provide increased life and performance.



It's a simple service; send your seal to our Warrington facility marked for REPAIR and we'll do the rest.

What does Pioneer Weston do with your seal?

- 1) Completely disassemble the seal.
- 2) Clean all parts ultrasonically, waterblast with micro-granules and inspect for damage.
- 3) Polish and lap the recoverable sealing faces.
- 4) During and after the lapping we inspect the flatness of the seal faces with monochromatic light to one light band.
- 5) Replace elastomers and other parts that no longer meet the specification.
- 6) Reassemble and pressure test your mechanical seal.
- 7) Protectively package and dispatch back to you.

## Pioneer Weston Mechanical Seals

### Contact

At Pioneer Weston our goal is to deliver a world class service in every area of our operations.

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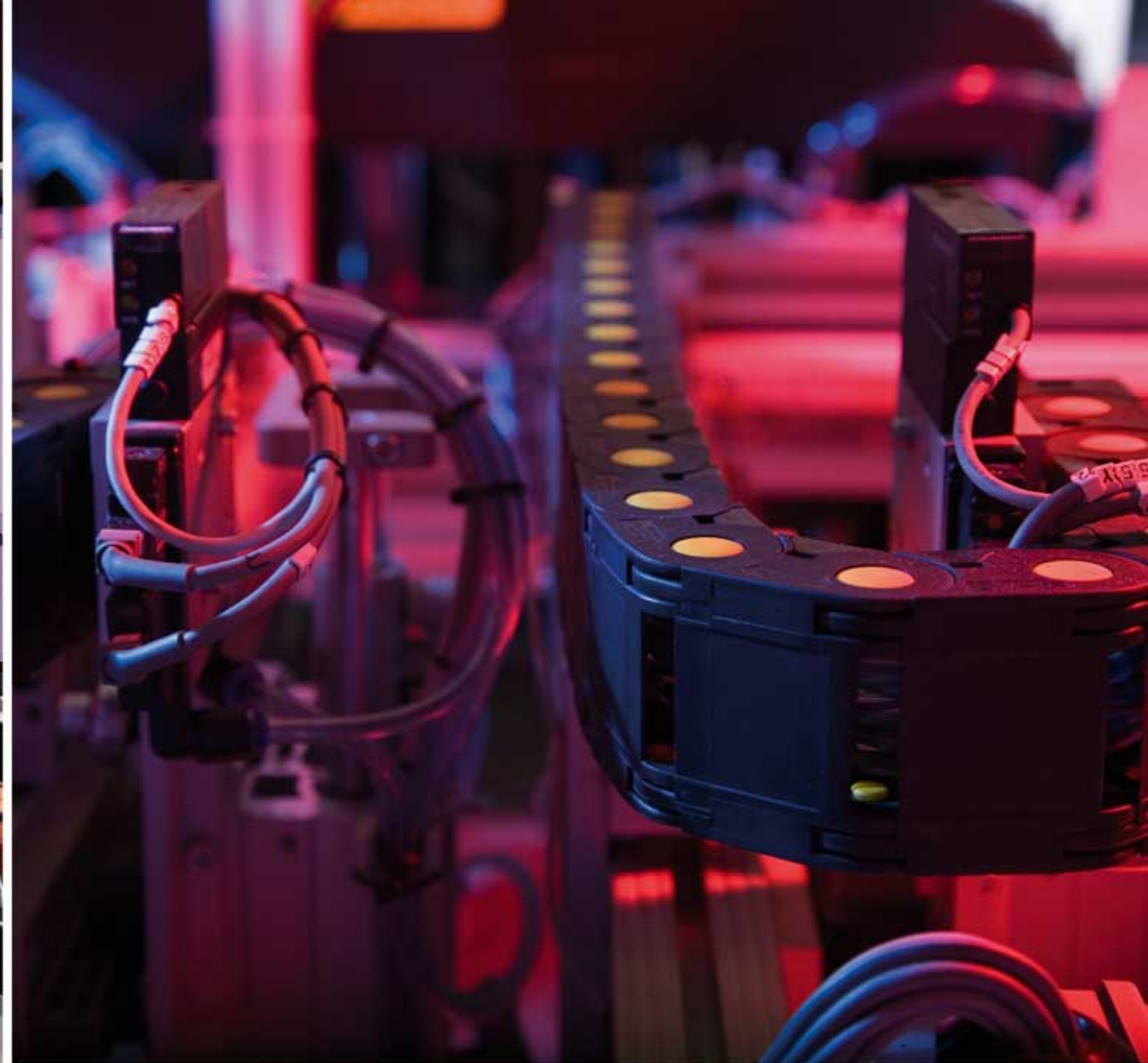
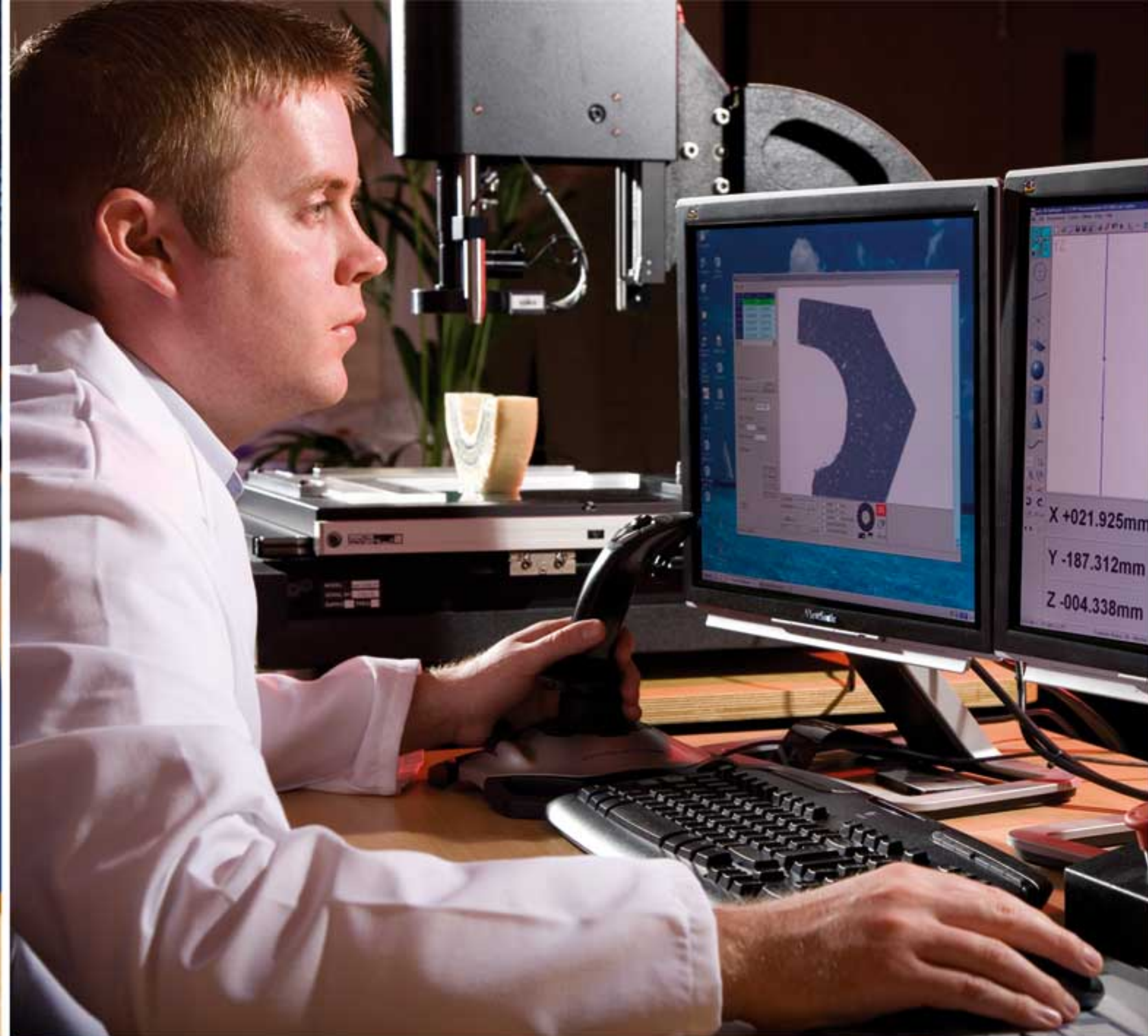
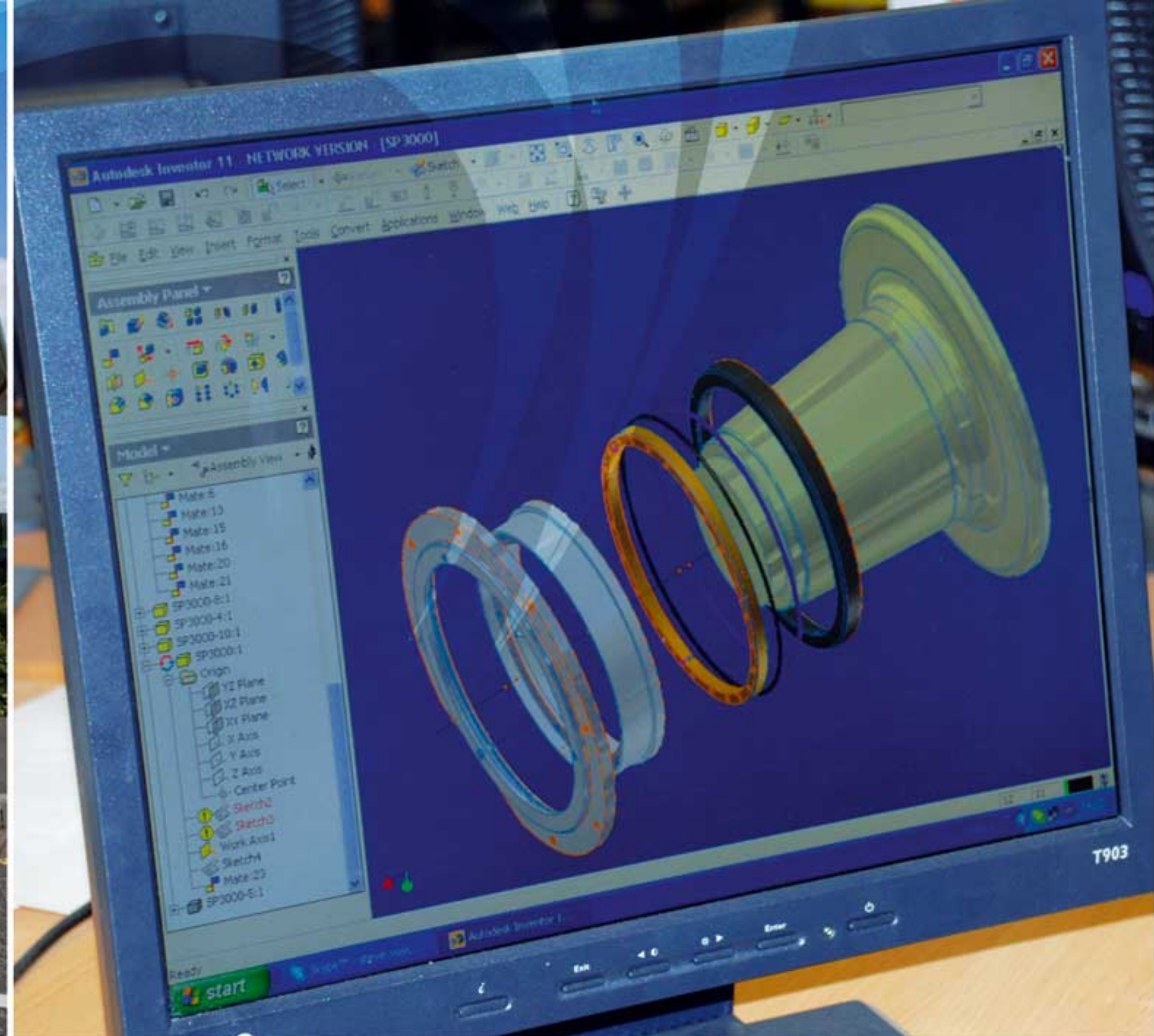
An **ERIES** Company



## Pioneer Weston Mechanical Seals







## Company Overview

Pioneer Weston's expertise in mechanical sealing technology is built on a foundation of materials and production capability combined with design and development experience gained over the last 50 years.

These skills converge to produce a product range that is engineered to the highest quality levels and that utilises cutting edge materials technology for guaranteed performance.

Ongoing product development delivered in partnership with our customers ensures that we can offer a solution for the majority of existing applications as well as new applications developed for emerging markets.

Designed and validated in our own facility in Warrington, Pioneer Weston mechanical seals have undergone significant development, FEA modelling and testing to ensure they perform to the highest standards.

Our extensive product range is supported with detailed, readily available technical support and by a global network of trained authorised distributors who both stock and support our products.

Using our own design and product engineering team we can also design new products for special applications if non of our standard items are suitable.

## Design

The latest 3-D CAD technology, finite element analysis and thermal modelling are all utilised by our world class team of experienced material technologists and designers to ensure the optimum solution is delivered in the shortest possible time and at the most competitive price.

## Quality

At Pioneer Weston we are quite rightly proud of our high quality standards.

Quality is at the core of everything we do; in process, our people and our product. All our employees take personal responsibility for the quality in their sphere of activity and they are further supported by S.P.C. and a 'Right First Time' culture - essential in any Total Quality Management operation.

## Manufacturing and Supply

With over 50 years' experience, we have a well-earned reputation for our in-house manufacturing capability.

In order to meet the demands of our customers we are able to supply parts manufactured in our own facilities alongside parts made by our approved manufacturing partners. This flexibility allows us to offer best-value solutions whatever the quantity required.

Our global manufacturing provision is matched with a high level of service that ensures customers get what they need, when they need it. With global distribution hubs designed to support local markets and strategic locations in the USA, Europe and China, we provide the most efficient and effective supply service for any operation.



### Standard Component Seals

Our extensive range of standard component seals is specifically designed to meet the exacting requirements of pump repairers and Original Equipment Manufacturers.

The range encompasses designs that interchange directly with the majority of major branded products. All Pioneer Weston seals are manufactured and quality controlled to the very highest standards and are available with a wide choice of face and static sealing element materials.

### Cartridge Seals

Cartridge seals are specifically designed to meet the demands of high-end MRO (Maintenance, Repair & Overhaul) applications where minimising down time is a priority.

These seals are delivered pre-assembled and to replace a seal, the engineer only needs to unbolt and remove the failed unit and then shaft and bolt up the new seal unit. To overcome application problems these seals are available with different combinations of flush. Quench and drain porting can be used to keep the faces cool, clear of debris and to prevent dry running.

### Bespoke Sealing Solutions

With over 50 years design and manufacturing experience Pioneer Weston are the first choice source for customised sealing solutions.

Our custom designed seals can be found on applications as diverse as Nuclear Powered Submarines. Paper Mills, Steel Mills, Power Stations and Bakeries.