

KEEPING YOUR
EQUIPMENT

WORKING OVERTIME

WELCOME TO INDUSTRY 4.0



WE HELP YOU TURN INDUSTRIAL CHALLENGES INTO BENEFITS

Keeping highly automated industrial environments moving – with minimal maintenance and to the highest safety standards – is a constant challenge.

Equally as important is the drive to advance manufacturing operations using the digitisation benefits of Industry 4.0. And when the performance of each component is critical to success, materials and expertise make all the difference.

Victrex has over 35 years' experience of understanding design challenges in the harshest environments, and providing high-performance polymer-based solutions that redefine possibilities. In essence, collaborating to deliver the vision of tomorrow's manufacturing – today.

WE WORK WITH INDUSTRIAL COMPANIES TO SOLVE THE COMPLEX DESIGN CHALLENGES WITHIN DEMANDING APPLICATIONS, AND IN TURN WE:



**INCREASE
RELIABILITY**



**MEET PURITY AND
COMPLIANCE STANDARDS**



**IMPROVE PERFORMANCE
THROUGH PRECISION**



**INCREASE PRODUCTIVITY
AND REDUCE COST**



DESIGN FOR

RELIABILITY

IN EXTREME ENVIRONMENTS

Durable solutions that replace metals to improve component lifetime in hot, corrosive/erosive environments.

20M 

CYCLES LIFETIME

for VICTREX™ PEEK
Hydraulic valves tested
under 350bar pressure.

ZERO 

LUBRICATION

needed in VICTREX™
PEEK bearings.

ENJOY A LIFETIME OF

PRECISION

High-precision injection moulded parts and excellent material properties, deliver fabrication and end-use efficiencies throughout the application lifetime.

 1% +/-

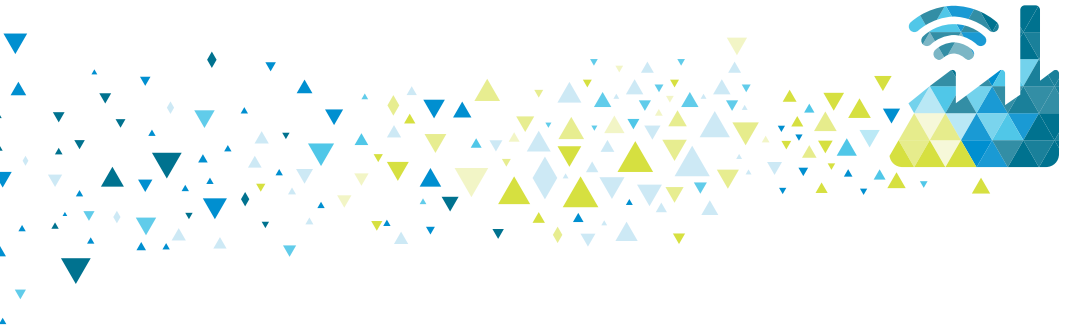
TOLERANCE IN FLOW RATE

VICTREX™ PEEK provides high-
precision volume metering
with minimum pressure loss.

η 10%

HIGHER LIFETIME EFFICIENCY

Precision moulding and durability
delivers a lifetime of efficiency.



PURITY

TO PERFORM IN THE MOST CRITICAL APPLICATIONS

Exceptional chemical resistance, high purity, and compliance with food and liquid contact standards.



20+

YEARS TRUST IN FOOD & BEVERAGE CONTACT APPLICATIONS

Compliance with 3A, FDA, NSF and EU food and drinking water standards.



CIP

COMPLIANCE

with Clean-In-Place/
Sterilisation-In-Place processes
and aggressive cleaning agents.

HIGHER

PRODUCTIVITY

AND COST REDUCTION IN FABRICATION & OPERATION

Inherent design and processing flexibility of our materials enable the development of smarter solutions.

\$5X

LOWER COST

with VICTREX™ PEEK valve cones vs. stainless steel due to simplified fabrication process.

\$2M

ANNUAL SAVINGS

in wafer fab. processing costs with high-wear VICTREX™ PEEK polishing rings.

SOLUTIONS FOR YOUR MARKET

Victrex provides application-specific solutions for component design engineers and OEMs, across a range of manufacturing and engineering industries. Find out how we are helping to shape performance in four key industrial markets.

MANUFACTURING & PROCESS EQUIPMENT

Including: food and beverage, production machinery, automation equipment

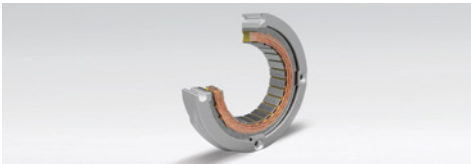


Rotor Shaft Bushings

- ✓ Up to 2X operating lifetime of steel bushings
- ✓ 10X durability of polyamide - with no deterioration in bearing applications

POWER SYSTEMS

Including: power storage, connectivity, wire and cable

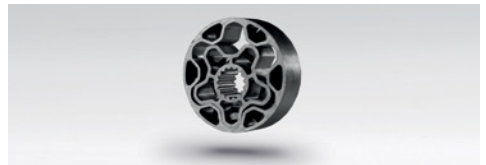


E-motor Slot Liners

- 💰 \$6 reduction per e-motor unit cost without compromising output or reliability
- ✓ Moisture resilience increases reliability in wet/humid environments

FLUID HANDLING

Including: pumps and valves, compressors, filtration



Gerotor Pump Gear

- 🕒 10% higher lifetime efficiency than metal-based pump
- 🎯 Our design & moulding know-how can eliminate machining

PROCESS CONTROLS

Including: meters, sensors, analytical equipment



Proximity Sensor Housing

- ✓ Tightness tested – 1,000 hours thermal cycling from 0°C to 100°C
- 📊 Long lasting and safe sensor function in the most demanding hygienic environments

DISCOVER HOW WE CAN HELP YOU

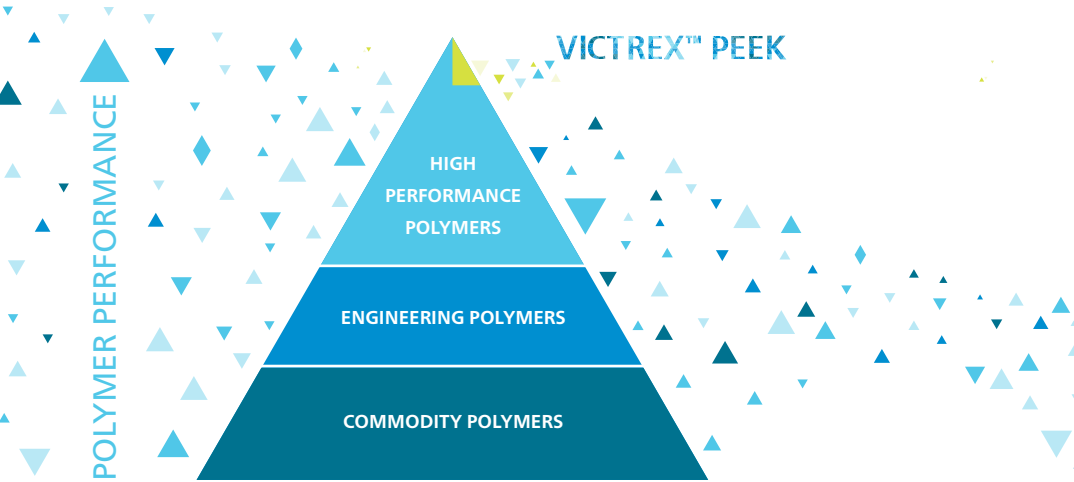
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SHAPING FUTURE PERFORMANCE

Victrex is an innovative, leading global provider of high-performance polymer solutions for aerospace, automotive, energy, manufacturing and engineering, electronics and medical industries. Every day, millions of people rely on products and applications containing our polymers: from smart phones, aircraft and cars, to medical devices, and oil and gas installations.

HIGH-PERFORMANCE VICTREX™ PEEK



VICTREX™ PEEK is regarded as one of the highest performing engineering thermoplastics in the world. With both material expertise and in-depth application knowledge, we can help solve complex design challenges for demanding applications in extreme environments.

We work with our customers to develop cutting edge technological solutions that help shape their future performance. From concept to commercialisation, we support in the areas of design, processing and application development – extending your team’s in-house capabilities and helping you to accelerate time to market.

TO LEARN MORE AND FIND OUT HOW WE CAN HELP YOUR LATEST DESIGN CHALLENGE
VISIT WWW.VICTREX.COM

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