

# COMPANY PROFILE

An integral part of your success

**Beldam**<sup>b</sup>  
Crossley



**INDUSTRIAL SEALING, BEARING  
AND POLYMER EXPERTS**



“ Our products are tailor-made to meet client’s exacting needs, with engineers on hand to support our customer base every step of the way”

# An integral part of your success

## Our Heritage

Beldam Crossley has a proud history, the origins of which date back to 1876. During that time, we have achieved an unrivalled reputation for providing advanced sealing, bearing and polymer based products. This experience and expertise means we are able to offer safe and highly reliable solutions for use in the most arduous of conditions.

## Industry Sector Experience

Always at the forefront of new developments, we have responded quickly to the constantly changing worldwide demands of specialised sectors as diverse as aerospace, power generation, construction, marine, automotive, oil & gas, petrochemical and defence.

## Quality Assurance Standards

All our manufacturing is based in the UK and operates to internationally accepted standards - including BS EN ISO 9001:2008 and BS EN ISO AS 9100 Rev. C standards for design and manufacture of products for aerospace, and environmental management system standards to BS EN ISO 14001:2004.

This means we are able to provide a proven range of products and services, together with expertise and experience, which offer robust and high quality life-protecting installations in applications where failure is not an option.

## Research & Development

Today, we are recognised as being at the leading edge of technology. A position gained through our commitment to research and continued investment in the most sophisticated manufacturing plant and equipment.

With a clear focus on the future, we are committed to being the ‘best in class’ choice by offering groundbreaking ideas, the ultimate in product reliability, and unbeatable customer support.

## Global Reach

As a global business, Beldam Crossley has a network of Partners worldwide to ensure efficient and consistent product supply.

**FORWARD THINKING SOLUTIONS WITH A HISTORY OF EXPERTISE**

# Markets

## Aerospace

Beldam Crossley holds the aerospace AS9100 Rev C approval, and has been a critical supplier of sealing technology to a high number of aerospace turbine engine manufacturers across the globe. Our products are proprietary designs, and have evolved alongside aero engine technologies which are used in critical applications.

## Oil & Gas

We manufacture sealing products for the oil & gas industry that are designed to withstand extreme temperatures, pressures and solve the problems of movement. We have been supplying the upstream sector for over 50 years and many of the current sealing technologies in use today are evolutions of original designs.

## Petrochemical

With a proud history of providing Pilot® branded products to the petrochemical industry, we have become one of the market leading global suppliers of sealing products. Many of our products supplied to this sector are stocked in key locations to ensure quick and easy supply to the end users.

## Defence

Beldam Crossley has been an active partner to the defence industry supplying all NATO forces globally, the company holds all the necessary compliance procedures to ensure all legal requirements are adhered to. The majority of products supplied to this sector are used in critical applications, and are supplied to either the OEM direct or the NATO force.

## Construction

We have developed our Crossflon® range of proprietary polymers to be effective in even the most challenging of environments. The polymers are principally used as bearing supports, aiding in the load bearing of major structures or for lateral movements caused by weather or seismic activity.

## High End Automotive

Our high performance components are precision engineered for use in the performance motorsport arenas. Many of our polymer technologies have been designed into OEM equipment and hold specifications outside of normal operating parameters.

## Marine

We are able to offer a wide range of sealing products to address the sealing requirements of a global and challenging industry sector. With the origins of the business in the marine sector Beldam Crossley has over 100 years experience within this field.

## Power Generation

Beldam Crossley work with major gas turbine manufacturers to improve emission levels and extend the life of sealing elements. Many of the products supplied to this sector are used on similar designs spanning the aerospace sector.



# Products

## PILOT® COMPRESSION PACKINGS



The Pilot® brand of high performance compression packings are primarily designed to create a sealing surface between a moving spindle or shaft and the pressurised housing in which it operates. Beldam Crossley utilises the latest production techniques and leading materials to ensure a high integrity seal is achieved in even the most arduous applications.

They are typically used on valves, pumps and other rotary and reciprocating equipment. We have one of the most extensive range of sizes available today, supplied typically in square section ranging from 3mm to 25mm as a standard profile, with larger sizes available upon request.

Pilot® compression packings are also suitable for use in static sealing applications such as manway and boiler door joints.

For more information contact us on:

T: +44 (0) 1204 675700

E: [sales@beldamcrossley.co.uk](mailto:sales@beldamcrossley.co.uk)



Oil & Gas



Marine



Power Generation



Aerospace



Defence

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## PILOT® COMPRESSION SHEET JOINTINGS



We offer an extensive range of sheet jointing materials for use in general service conditions or applications where chemical / temperature resistance are paramount or food safety is vital.

The Pilot® sheet jointing range includes the latest generation of bi-axially orientated PTFE, high grade graphite and compressed fibre materials.

## PILOT® RUBBER SHEETING



Beldam Crossley is one of the oldest and most respected suppliers of rubber sheeting in the UK.

Sheeting products range from commercial grades through to the highest specification rubbers. Materials include natural, neoprene, nitrile, butyl, EPDM, Hypalon, silicone and fluorocarbon rubbers.

We stock a large range of standard rubber sheeting, but also offer specialist materials along with moulded products made to specific customer requirements.



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Construction



Automotive



Petrochemical



Oil & Gas



Marine

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# Products

## CROSSFLON® MACHINED BELLOWS



Beldam Crossley offer a comprehensive PTFE bellow design and manufacturing service. They are used in many applications and prove effective in reducing vibration transmission, whilst accommodating expansion and contraction in various equipment.

Crossflon® type 'M' bellows offer strength and pressure resistance which means they are ideally suited for use as a mechanical seal element and also on glass pipe liners. Crossflon® type 'V' bellows provide greater flexibility for a given length, are used to absorb vibration, to allow for misalignment and provide a barrier to protect other components from dust, contamination and splashing.

Custom made bellows and metallic braiding are available upon request.



## CROSSFLON® BEARINGS & MACHINED COMPONENTS



Beldam Crossley offer a wide range of Crossflon® bearings for use in rotary and linear applications. We manufacture sleeve, flange and thrust bearings along with bearing strips in Crossflon® high performance engineering plastics. These products offer numerous advantages over conventional metallic bearings.

With over 50 years experience, we have perfected specialist techniques for converting our materials into precision machined components such as chevron sets, cup seals, diaphragms, envelope gaskets, filter assemblies, hygienic clamp fittings, lip seals, O-rings, rollers, rotary shaft seals and valve seats. We also offer the automatic moulding of parts in PTFE.

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Power Generation



Aerospace



Defence



Construction



Automotive

## CROSSFLON® HIGH PERFORMANCE ENGINEERING PLASTICS



Beldam Crossley has been moulding PTFE for over half a century. We have since developed a wide range of high performance Crossflon® materials, each suited to a specific application.

We offer rod, tube, sheet and tape in materials such as PTFE, TFM, PCTFE, ETFE, PEEK, ECTFE, PSU, PEI, PFA, FEP and PVDF.

Our production facility has the capabilities to formulate, blend, mould, sinter, skive and chemically etch, along with hot cure bonding, machining and finishing work.



## PILOT® HIGH TEMPERATURE CORD SEALS



Cord seal (also known as rope seal) offers designers and engineers the ability to increase operating efficiencies by reducing hot gas leakage between components in aircraft engines, other turbines and high temperature static sealing applications. The seals are designed to operate over multiple thermal and mechanical cycles, whilst also accommodating differing rates of expansion due

to temperature between dissimilar components. The standard design is manufactured to locate into an O-ring type groove - other innovative seals can be designed for use in differing applications.

Supporting the need for elevated operating temperatures, the seals have been developed to operate continuously in excess of 1200°C (2220°F).



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# Products

## PILOT® PRECISION GASKETS & INSULATION COMPONENTS



We have invested in modern cutting equipment to ensure rapid delivery of precision cut quality gaskets including, but not limited to CNC oscillating knife cutting machines.

We can supply gaskets and insulation components from 3mm outside diameter to sizes in excess of 10m (when segmented). Thickness range is dependent on the material, up to 100mm. We offer gaskets to suit any standard / non-standard flanges, or special geometry to customer drawings. Quantities from 1 off to 1 million off, on a scheduled basis.

Metallic and semi-metallic gaskets are also available.



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## CROSSFLON® SKIDWAY SYSTEMS & SLIDE BEARINGS



Crossflon® skidway plates are used to aid the skidding of topsides, jackets and other heavy fabrications. A structure weighing in excess of 47,000 tonnes has been successfully loaded out on a Crossflon® skidway system.

Crossflon® slide bearings are used to solve the movement caused by temperature change and differential material thermal expansion, settlement and natural forces encountered by high winds and even seismic activity. Applications include pipe lines, heat exchangers, pressure vessels, storage tanks, industrial machinery, buildings and bridges.

## PILOT® LIDPACK 3500



Wherever chemical and solvent cargoes are carried, the unique construction and properties of Pilot® Lidpack 3500 have made it the leading brand of tank lid packing.

Designed primarily for use at sea, where the prevention of water ingress is equally as important as the prevention of external spillage.

Pilot® Lidpack 3500 and its two sister products are also designed for use with tank hatches on river going barges, road and rail transport.

Pilot® Lidpack 3500 is resistant to acids, alkalis, oils, solvents, chemicals and edible products, and is available in a wide range of sizes, supplied as ready made rings or as spooled lengths.



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## WIRE & TEXTILE OVERBRAIDS



Overbraid provides reinforcement and protection from mechanical and abrasive damage, in addition to external chemical attack to all types of rubber and plastic tubing. In addition, overbraid can be used for protecting both metallic & PTFE bellows. It also increases the hoop strength of the tubing and limits axial movement.

Wire overbraid is manufactured either in single or multiple strands of wire to suit the application in terms of coverage, strength, corrosion resistance and electrical shielding etc.



Marine



Power Generation



Aerospace



Defence



Construction

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# Partner Program

## GLOBAL SALES & DISTRIBUTION THROUGH OUR PARTNER PROGRAM

All of our products are available worldwide via the Beldam Crossley partner network.

For more information please contact us on +44 (0) 1204 675700 or alternatively email [partner@beldamcrossley.co.uk](mailto:partner@beldamcrossley.co.uk).



## INTERESTED IN BECOMING A PARTNER?



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The Partner Program is a unique scheme which is open to all business's worldwide who share our ambition and drive for complete customer satisfaction.

If you are interested in becoming a Beldam Crossley Business or Trade Partner, you can request your application pack by emailing [partner@beldamcrossley.co.uk](mailto:partner@beldamcrossley.co.uk).

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Crossley

BUSINESS PARTNER

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TRADE PARTNER

## OUR PARTNERS

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Vietnam  
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America

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Trinidad and Tobago

For more information about the group,  
please contact [enquiries@beldamcrossley.co.uk](mailto:enquiries@beldamcrossley.co.uk)

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## LOCAL SERVICE IN A GLOBAL MARKET

With a highly equipped manufacturing base, Beldam Crossley supported by its partners worldwide, is perfectly placed to provide an immediate response to match every customer's requirements. Our team are technically trained to offer advice on all our products in the most demanding of applications across all industry sectors.



### Head Office & Manufacturing

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