

Perfect partners

A leading European supplier of hydraulic cylinders, **Burnside Eurocyl** supplies its high quality solutions to OEMs on both sides of the Atlantic



An integral part of the Burnside group of companies – which was founded by the four Byrne brothers back in 1974, and which today owns four cylinder production plants employing a workforce of more than 1000 people – Burnside Eurocyl operates from a purpose-built facility in Carlow town, in the south east of Ireland. With a focus on service, flexibility and value, Burnside Eurocyl works diligently to establish solid business relationships with OEMs all over Europe and across North America.

With more than 250 highly trained staff under its employ, and with customer-focused production lines in operation, Burnside Eurocyl is capable of producing over 7000 cylinders per week. Operating on a 'just-in-time' basis, the company exports to countries across Europe – including France, Germany, Austria, the Netherlands, and Scandinavia – delivering to its key customers in as little as two days. It is also able to ship to the east coast of North America within one week.

As an experienced manufacturer of hydraulic cylinders, the company understands

the need to maintain close contact with its clients, and ensures that they receive nothing less than the highest quality products, delivered on time, and within budget. As a result of its efforts, Burnside Eurocyl's clients today include a number of household names, such as Volvo and JCB, as well as numerous industry stalwarts like Wacker Neuson, the Wirtgen Group, and many more.

Products available from Burnside Eurocyl include:

- Double Acting Cylinders – Utilizing both the full and annular bores and able to apply force in both directions, these cylinders are available in a wide range of sizes.
- Displacement Cylinders – Operating via oil displacing the cylinder rod, with a displacement hydraulic cylinder, the rod pushes on the outward stroke only and the cylinder relies on the load – or some other force – to return it to the closed position. These cylinders are also sometimes referred to as Plunger Cylinders.

- Single Acting Cylinders – Acting in one direction only, the force can act to extend or retract the rod depending on the design. The advantage of the single acting hydraulic cylinder design over a displacement design is that a larger force can be generated for the same cylinder diameter.
- Telescoping Cylinders – These are multi-stage cylinders that can be single acting, displacement, double acting, or a combination. They possess the advantage of giving an increased cylinder stroke for the same closed length of cylinder. The force output is proportional to the area of the rod or piston being displaced and, as a consequence, the force reduces as each rod is displaced in turn.
- Double Ended Cylinders – These cylinders have a single rod with a centrally placed piston. The rod protrudes from both ends of the

cylinder body. It is commonly used as a steering cylinder, and can generate force in both directions.

- Sensor and Positioning Cylinders – These employ an electronic position sensor to give an electrical output, which can be used to accurately determine the rod position. The sensor is built into the cylinder body and immersed in the hydraulic oil, which provides some shock absorption, allowing these sensor cylinders

to be used without any problem in mobile applications.



Abbey Seals International Ltd

Abbey Seals International Ltd was established in 1983, is an Irish-owned family run business with offices in Dublin and Cork.

We are Ireland's leading Manufacturer and Distributor of Seals and Gaskets. With over 40,000 different sizes and materials in stock including O-rings, gaskets, seals, industrial strength adhesives, extrusions, sheeting and much more. We aim to ensure that we have the product you need delivered to you quickly and at a competitive price.

Our in-house manufacturing service, Abbey Seals Xpress, provides same-day production on seals and gaskets. We are the only company in the country offering such an expedient service.

TRB SRL

Our standard and customized products have always been market leaders in hydraulic cylinder components Made in Italy, allowing us to establish long-lasting collaborative relationships, such as the one that has been going on for years with Burnside Eurocyl Ltd. TRB has several latest generation CNC machineries to cover 24H production even without manned shift. However TRB is not just manufacturing, our experience has allowed us to refine an avant-garde quality system, a packaging system that guarantees product protection even for the most distant shipments and a product storage warehouse for customers to ensure quick deliveries.

AbbeySeals
THE SEAL SPECIALISTS

We supply and manufacture gaskets and sealing products for all sectors of industry, included but not limited to:

- Food & Beverage
- Pharmaceutical
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- Automotive Manufacturing
- Hydraulic Cylinder Manufacturing and Repair
- Pump Manufacturing and Repair
- Oil & Gas Renewable Energy
- Medical Devices
- Water Treatment Plants
- and many, many more!

AbbeySeals International Ltd represent the world's leading manufacturers, keeping us at the cutting edge of seal and gasket design and material development. Our customer base is as diverse as our product range and with our vast range of products in different sizes and materials available to ship on a next day service. We have grown to be one of the most successful and proficient companies in this sector, not just within Ireland but also internationally.

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In other specific aspects to its quality approach, the company conducts material analysis using a spectrometer, and also utilizes co-ordinate measuring machine (CMM) technology. It also uses specialized test beds to augment the overall quality focus. Furthermore, and to help consolidate its position at the top of its field, the company has undertaken EN ISO 3834-2 certification. This standard allows it to guarantee the highest quality in its welding processes. Burnside Eurocyl used the services of SLV Duisburg – a leading provider of technical services – to certify its welding capabilities.

As is the case with any market-leading

manufacturing specialist, research and development plays an incredibly important role in Burnside Eurocyl's operations. Within its facility, it boasts a specialist R&D unit, which has the vital task of focusing on prototype development and customized cylinder designs. This is an on-going activity, and an area in which the company has come to excel.

With several decades' experience in the manufacture of hydraulic cylinders, and being blessed with a committed and dedicated workforce, Burnside Eurocyl has proven itself to be the perfect partner for its



customers' hydraulic cylinder requirements. By continuing to guarantee reliability, attention-to-detail, and on-time delivery – whilst maintaining long-term investment in ongoing training and R&D – there is nothing to say that this will not remain the case for many more years to come. ♦

Burnside Eurocyl

www.burnside-eurocyl.com

Services: Hydraulic cylinder manufacturer

Freudenberg Sealing Technologies (FST)

As a valued seal supplier to Burnside, Freudenberg Sealing Technologies (FST) have many years of experience and knowledge built into their warehouse facility, centrally situated in the Carlow area. We have the ability to supply at short notice and are able to offer bespoke supply options from individual components to complete seal kits. Technical support via regular tech day training support from the FST manufacturing facilities aids design and keeps Burnside abreast of all material and seal development as well as peace of mind when deciding the correct seal and material for all applications.

For further details see www.fst.com

Whilst the company has a strong focus on product customization, it does retain a standard range of cylinders and components in stock. Custom-built or otherwise, Burnside Eurocyl's customers can be confident that all of its products are built to the highest of standards using state-of-the-art manufacturing techniques and technology.

Indeed, as one of the biggest manufacturers of hydraulic cylinders in Europe, the company's manufacturing plant offers only the best in equipment and production standards. Burnside Eurocyl's employees work on an ongoing two-shift basis to ensure maximum efficiency, and make use of a range of specialist equipment that ensures products are produced and tested professionally.

From CNC lathes and robotic welders to the latest CAD software, the company's purpose-built facilities are up-to-date, sourced, and designed to produce world-leading products, and true to its commitment to testing, quality, and safety, 100 percent of Burnside Eurocyl's cylinders undergo extensive pressure testing. Quality is further assured by only sourcing material from 'best in class' suppliers. This means that its customers can rest assured that all seals, chrome bars, and skived and roller burnished tubes are purchased only from recognized market leaders. Routine supplier audits and the continuous inspection of deliveries by its dedicated quality team means that standards are consistently maintained.

THALACHROME: THE EXCELLENCE OF PISTON ROD

Chrome plated bars are primarily used as piston rod in hydraulic cylinders. Uranie International and Burnside Eurocyl have the same focus on quality that is established since many years on the market. Uranie International producing chrome bars ensuring high levels of quality and innovation and Burnside Eurocyl building high value hydraulic cylinders according to the highest industry standards. A winning strong relationship of two companies in a constant state of innovation and development in the customized hydraulic market.

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Freudenberg Sealing Technologies is a longstanding technology expert and market leader for sophisticated and novel applications in sealing technology and electric mobility solutions worldwide. With its unique materials and technology expertise, the company is a proven supplier for demanding products and applications, as well as a development and service partner to customers in the automotive industries and in general industries. In 2020, Freudenberg Sealing Technologies generated sales of about 2 billion euros and employed approximately 13,000 people.

Always there right from the beginning – that are our material specialists. Involved in all our innovations, they develop tailor-made elastomer compounds and support them right through to series production. As a technology specialist, we are keen to take on the challenge of the growing demands on seals and sealing materials. To meet this challenge, we use our own zero-error quality compound manufacture as the basis for a dependable sealing result.

In addition to technical characteristics, each market segment makes further special demands on production volume, delivery times, cost-effectiveness, services and logistics. All this requires in-depth market and industry knowledge on the part of the seal supplier. Local stock and warehousing, full engineering design advise and testing capabilities round up our service portfolio to support our customers. For more information go to www.fst.com



We offer:

- Cutting-edge research and testing
- Advanced manufacturing techniques
- Product standards that meet global material requirements
- Production and service close to the customer
- Reliable quality management systems

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