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## **Breakthrough Engineering** for a Better World

Norgren is part of global engineering organisation IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on creating tremendous value by solving key industry problems in attractive markets and employing the best.

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Food & Beverage, Process Control, Life Science and Commercial Vehicles.

From improving speed, productivity, reliability and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries, Norgren's high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Bimba, Buschjost, FAS, Herion, Kloehn and Maxseal. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough Engineering you can count on.

# Breakthrough Engineering for a Better World



## **Industrial Automation Expertise**

#### Our high performance products are used across a wide range of sectors including Factory Automation, Food & Beverage and Material Handling.

With over 30 years' experience, we use our deep understanding of the technical challenges and legislative framework to develop pioneering platform products to answer specific needs. Our products improve efficiency and performance, reduce downtime and save energy by simplifying supply chains and reducing machine complexity.

#### Safety Technology

When it comes to safety, nothing can be left to chance. We offer safety products to help you fully comply with the requirements of ISO 13849.

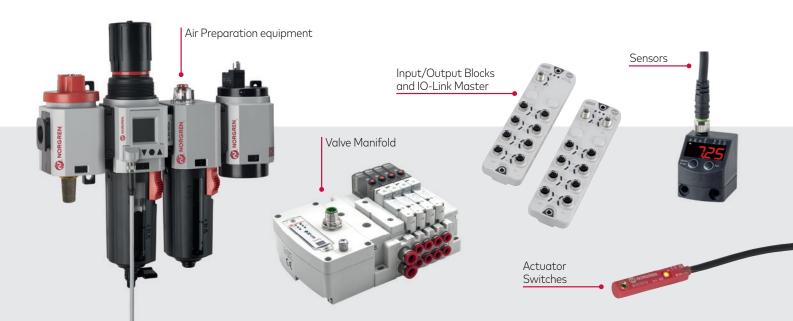
In pneumatic systems, our two hand start unit offers simple installation and maximum performance, whilst conforming to the requirements of ISO 13851, CAT3, PL d.

- » Over 50 years experience in safety applications
- » Safety applications EN ISO 13849
- » Competent and professional consulting and system design of safety controls
- » Very high B10 levels
- » DGUV certified self-monitored safety valves
- » Important safety features such as:
  - · Safe exhaust
  - · Safe position
  - Safe stop
  - Reliable reversina
  - Safely limited speed and more



#### **Industrial Internet of Things**

As the digital transformation of industry gains pace, we offer high performance, future-proof and product solutions with enhanced, digital capability and connectivity.



#### Sales & Service

- Norgren sales, manufacturing and technical centres
- Norgren sales locations



## **Our Global Reach**

#### Delivering products and service reliably, on time and anywhere



Find out more norgren.com

essential - we not only deliver exceptional solutions which improve the productivity and efficiency of our customers' equipment, but the speed of our Express service ensures that we deliver quality products and aftersales service precisely, reliably, in full and on time, anywhere.

We know that precision, speed and engineering reliability are

Our skilled teams are available 8.30 am to 5.00 pm Monday to Friday, with access to the web store 24/7, 365 days a year.

All Express products are manufactured to exacting quality standards, are ex-stock and are backed by an industry-leading 2-year warranty.

## **Industrial Automation**



#### Our range of solutions pushes factory automation forward, from food and beverage, packaging to textiles.

We apply our expertise to create the precise and innovative components that keep industry moving safely and efficiently.

## Key Product Brands

- NORGREN.
- 😷 BUSCHJOST
- B FAS
- HERION.

## **Key Applications**

- » Packaging
- » Paper & Print
- » Metal Production
- » Compressed Air
- » Textiles and Machine Automation



















## **Material Handling**



From robotics, pick and place, conveying, right through to assembly and packaging; material handling sits at the heart of how many industrial organisations operate daily.

With the drive to upscale productivity, cut energy consumption, meet regulations, and drive a more sustainable future, overcoming the challenges of how essential materials and components are handled and transported through production cycles is essential to improve operational efficiency, long-term competitiveness, business resilience and commercial success.

## Key Product Brands



## **Key Applications**

- » Pick & Place
- » Sorting
- » Packing
- » Filling
- » Conveying
- » Palletising









## Food & Beverage



We have dedicated over 25 years to meeting the unique needs of the global food and beverage industry, delivering pioneering products and bespoke solutions.

Close collaboration with customers, and a search for innovation that offers real advantage, has resulted in millions of hours of reliable service from our PET bottling, inkjet, processing & packaging, dispense and food service equipment.

## Key Product Brands









## **Key Applications**

- » Sorting
- » Protein Processing
- » Adhesive Dispensing
- » Packaging
- » PET Bottling
- Wine Producing
- » Herd Management
- » Milking Parlours



















## Rail



#### We're the motion control specialists developing products and systems that help deliver millions of miles of reliable rail service.

With a true understanding of the daily issues faced by rail operators and original equipment manufacturers, we design for the precise needs of the rail industry, at:

- » Temperatures ranging from -40°C to +85°C (-40°F to +176°F)
- » Voltage tolerances of +/- 30%
- » EN61373 category 1 class A and B vibration resistance

We talk extensively to maintenance professionals and work closely with rail engineers to answer the questions they ask. That means we offer customised, practical solutions to the metro, intercity, high-speed, freight and permanent-way rail industries.

### Key Product Brands









## **Key Applications**

- » Pantograph control
- » Brake control
- » Sanding systems
- » Toilet and water systems
- » Step control systems
- » Mirror control
- » Freight systems
- » EN45545 Fire protection on railway



















## **Battery Manufacture**



We work in an intriguing world where every industry brings its own challenges. We solve industry problems with bespoke technology - from cell production to module assembly and testing - we'll be with you every step of the way.

With a true understanding of the daily issues faced by the lithium-ion battery manufacturers, we deliver a comprehensive range of reliable, safe and high performing pneumatic and electric motion products.

We address the precise needs of OEMs designing machinery for the battery manufacturing process with:

- » Pneumatic products suited to Clean room Class 7 & 8 according to ISO 14644-1
- » Electric Motion solutions for ISO Cleanroom Classes 1-6. Independently certified by Fraunhofer/IPA.
- » Customisation to meet copper & nickel content requirements based on customer specification
- » Environments:
  - · Corrosion-resistant products
  - ATEX approvals
  - $\bullet$  Extreme temperature -40°C to +80°C
  - · Applicable in Dry room environments

## Key Product Brands







## **Key Applications**

- » Mixing
- » Coating & Drying
- » Calendaring
- » Winding & Stacking
- » Formation & Aging









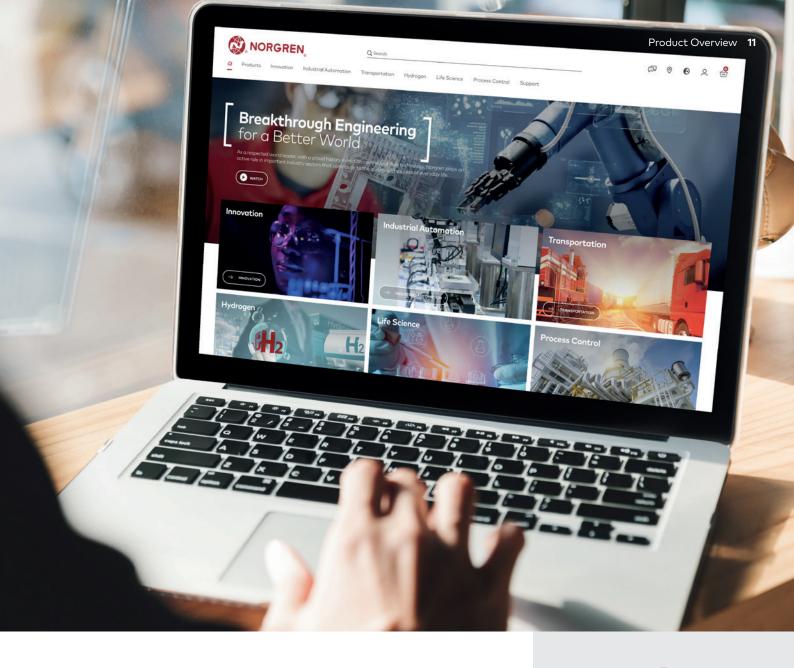












# Norgren.com for everything you need

## World-class products. Technical Excellence. Breakthrough engineering you can count on.

A brand new, upgraded web experience from beginning to end, Simply visit www.norgren.com, and login with your existing Norgren.com email and password - give it a try!

If you need help, or want to discuss the new website, please contact customer services.

#### Find, Configure & Buy Online 24/7

From configuring a product, to ordering a much-needed part 24/7, or discussing a project with a technical expert, we encourage you to use the wide range of digital solutions we provide to save your time and money.



**FAST** 













# **Experts in Customised Control Solutions**

Our highly experienced engineering and production teams design and manufacture custom control solutions, incorporating the latest techniques and technologies to ensure the best design for your application. Whether you need a cabinet, panel or manifold solution, we have the technical competence and products available to meet your needs.

- » Excellent technical support
- » Proven quality products
- » Reduced inventory costs
- » Plug-and-play installation on site

## **Products**

Our world-class product portfolio includes Norgren, Buschjost, FAS, Herion, Kloehn, Maxseal and Thompson Valves. Having proven their value over the years, they stand amongst the most trusted manufacturers of pneumatic and fluid control products. Because of this we're able to help our customers solve the world's greatest engineering challenges - reliably, safely and efficiently.









Pressure Switches



Valve Islands & Industrial Communication



Vacuum











Valves

Fittings, Tubing & Accessories

## Electric Motion

## Electric Cylinders



#### Linear Axis



### Multi Axis Systems



#### Accessories



#### Pneumatic Actuators



#### Profile Cylinders



#### Roundline Cylinders



#### Rotary Actuators



#### Air Bellows



#### Shock Absorbers



#### ■ Single Acting Double Acting

#### Stainless Steel Cylinders



#### Compact Cylinders



#### Lintra® Rodless Cylinders



#### Cylinders with Guiding



#### **Switches**



## Vacuum



#### Vacuum Pumps



## Vacuum Cups & Bellows



#### Vacuum Switches



#### Accessories



#### Pressure Switches



#### Electro-Mechanical Pressure Switches



#### Electronic Pressure Switches and Sensors



### Valve Islands & Industrial Communications



#### Industrial Communication



#### Valve Islands



### Valves



#### Sub-base Valves









#### In-line and Manifold Valves







#### Manual/Mechanical Valves









#### Special Purpose Valves











#### Valves



#### Proportional Valves



#### **Process Industry**



#### Flow Control Valves



#### Other Valves and Accessories



### Air Preparation



#### Excelon® Plus – Standard Modular System



#### Excelon® Plus – Modular System for harsh environments and extended temperatures



#### Olympian Plus - Plug-in, Quick Change System



## Air Preparation



#### Miniature Series, General Purpose



#### Large Capacity Series Units



#### Stainless Steel - General Purpose and Precision



#### Special Purpose



#### Accessories



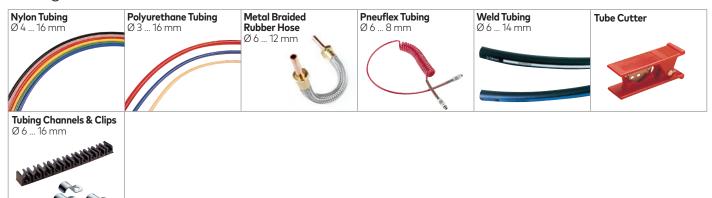


## Fittings, Tubing & Accessories

#### Fittings



#### Tubing & Hoses



## Fittings, Tubing & Accessories

#### Accessories



Norgren operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, Czech Republic, Germany, India, Mexico, UK and the USA.

For information on all Norgren companies visit

www.norgren.com

Supported by distributors worldwide.



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Due to our policy of continuous development, Norgren reserve the right to change specifications without prior notice.

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Incorporating



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