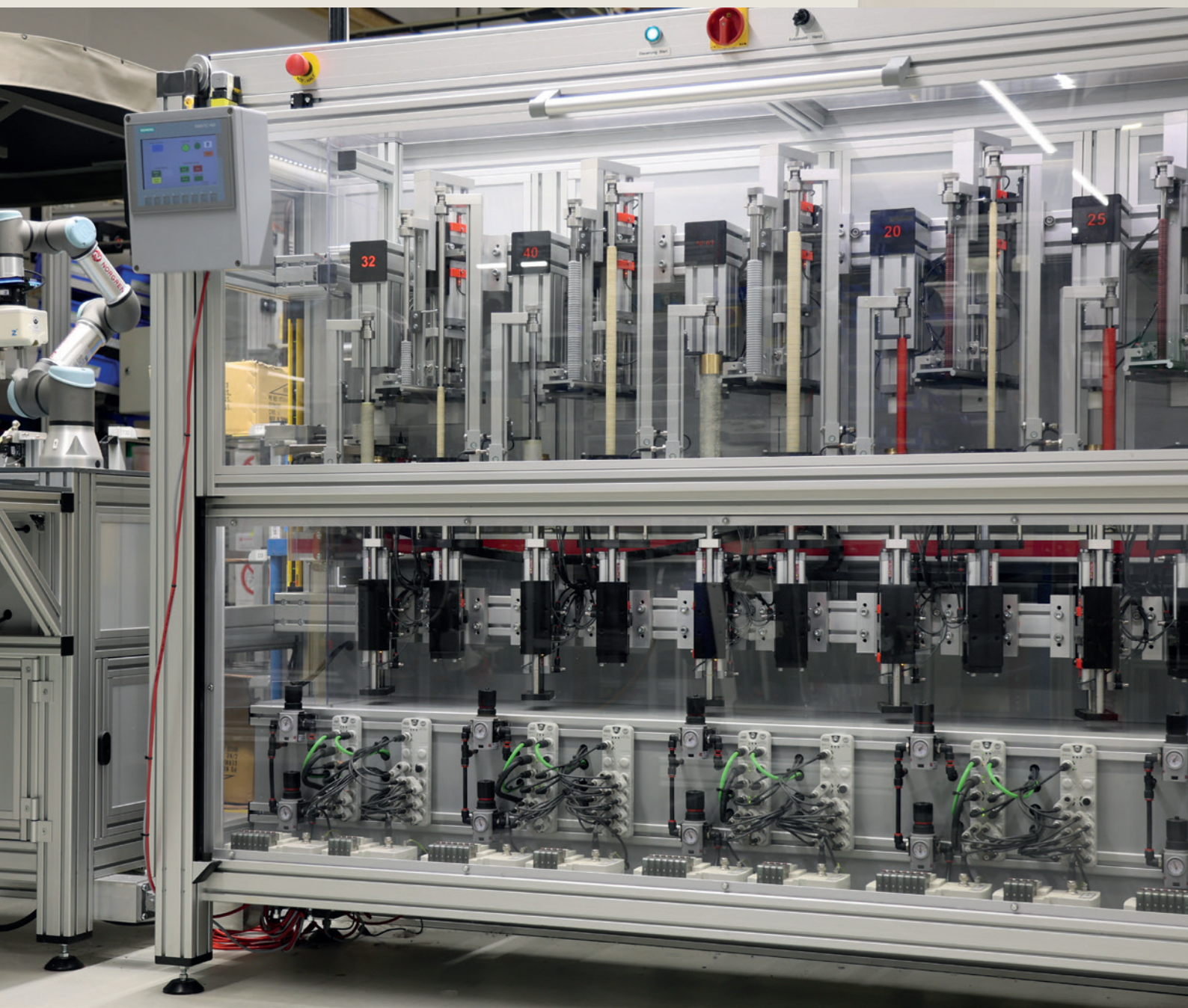


Industrial Automation

Product Overview

Breakthrough
engineering for
a better world



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Breakthrough engineering for a better world

We create solutions for our customers which enable smarter, safer, more productive and sustainable factories, production lines and warehouse operations. Our pneumatic and electric motion systems help machine builders and end users around the world automate and optimise manufacturing and warehousing processes.

We have partnered with customers in industrial automation for over a century, applying our experience and innovation to create lasting value for their businesses. Our solutions support critical industries such as automotive, food and beverage, pharmaceuticals and even the space industry. We support the automation of precision manufacturing, product assembly, testing and packaging.

We use the latest digital technologies in our automation products and constantly innovate in close partnership with our customers. By applying our deep expertise, we can solve their toughest automation challenges, today and tomorrow. Through increased productivity, efficiency and safety, our customers can serve their own customers better, creating sustainable competitive advantage and delivering growth.

Our world-class product portfolio includes IMI Norgren, IMI Bimba, and IMI Bahr.



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

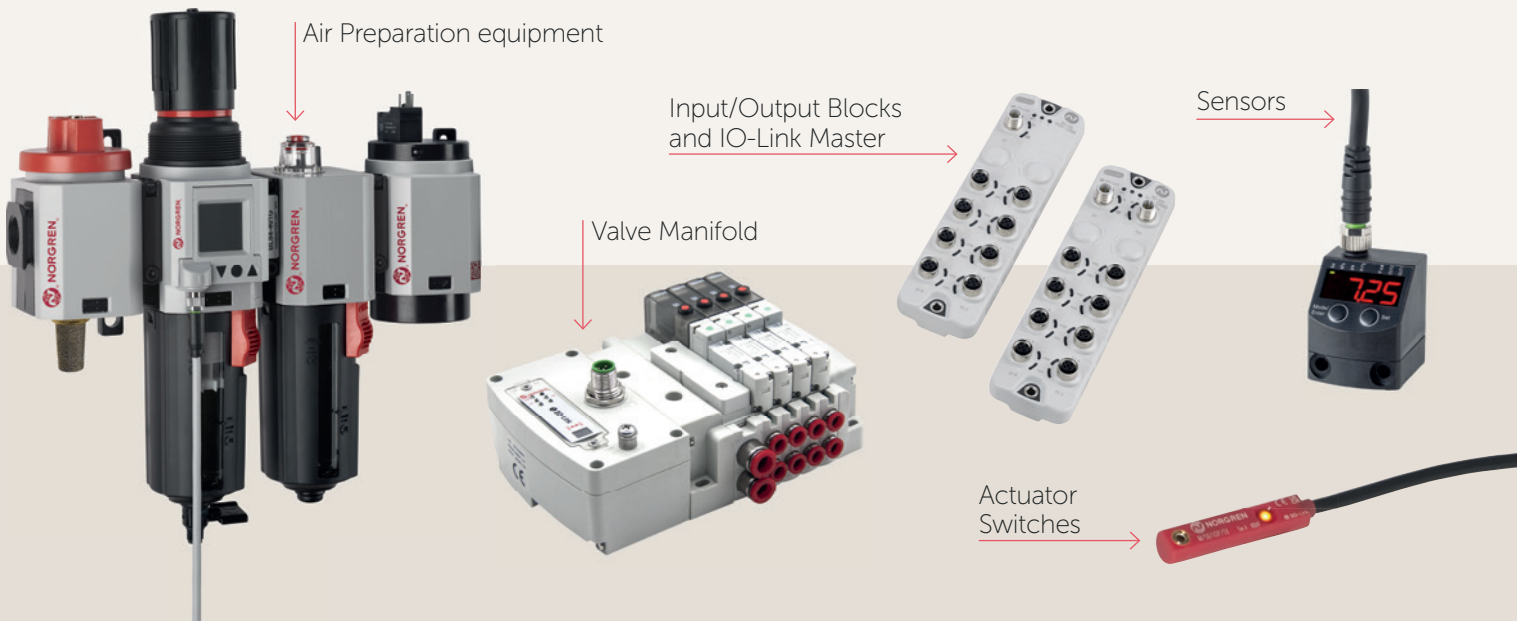
When it comes to safety, nothing can be left to chance. We offer safety products to help you fully comply with the requirements of ISO 13849.

- Safety applications EN ISO 13849
- 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 reversing
 - Safely limited speed and more



Industrial Internet of Things

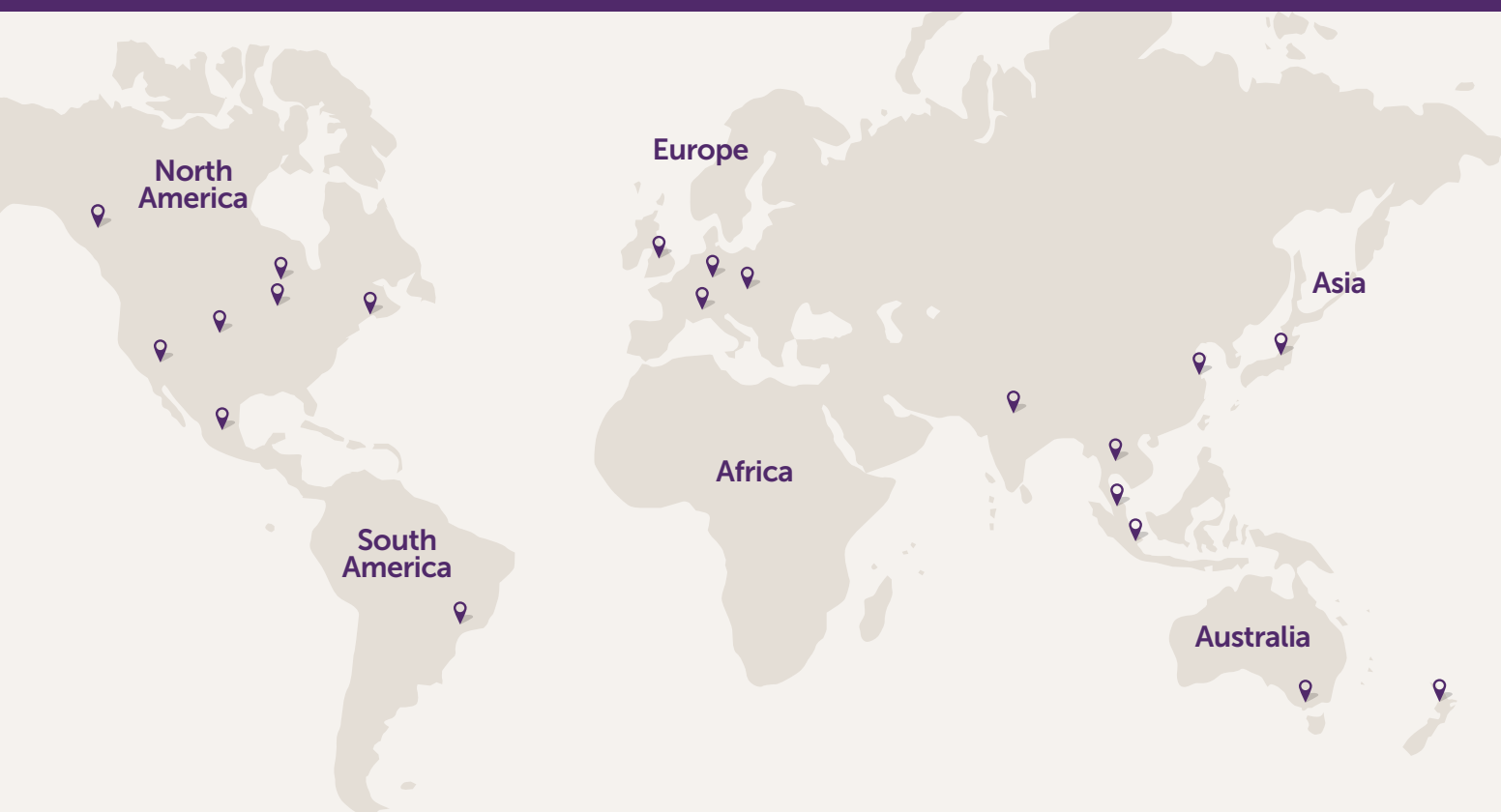
As the digital transformation of industry gains pace, we offer high performance, futureproofed product solutions with enhanced, digital capability and connectivity.



Global Support

We help you achieve your goals by working with you as a partner, not just a supplier. Our dedicated rail team is connected worldwide to ensure close, continuous support no matter what the size and extent of your organisation. We have the reach and capability to work alongside you on complex, global projects or to simply offer local spare part supply.

●● Across manufacturing, sales, innovation centres and offices ●●



Our Global Reach

Delivering products and service reliably, on time and anywhere.

We know that precision, speed and engineering reliability are 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.

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

Our unrivalled stockholding and delivery service are backed by a dedicated support team, fully trained to help you find the product, data or application support you need – fast.

Our skilled teams are available 8.30 am to 5.00 pm Monday to Friday, with access to the website, 365 days a year.



Factory 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.

Product Brands

IMI Norgren
IMI Bahr
IMI Buschjost

Applications

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

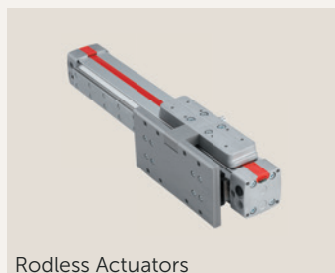
Products



Pneumatic Valves



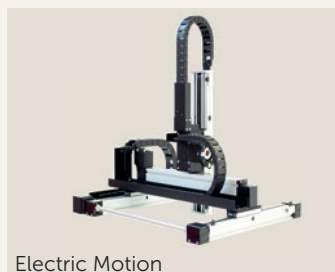
Fluid Control Valves



Rodless Actuators



Pneumatic Actuators



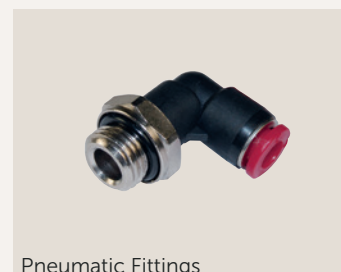
Electric Motion



Air Preparation



Vacuum Products



Pneumatic Fittings



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.

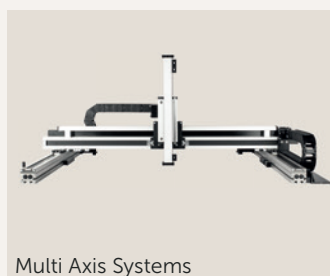
Product Brands

IMI Norgren
IMI Bahr

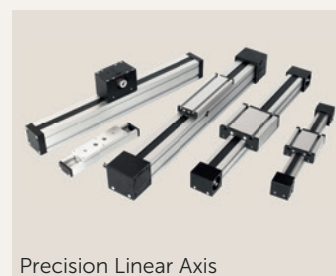
Applications

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

Products



Multi Axis Systems



Precision Linear Axis



Vacuum Generator



Vacuum Cups



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.

Product Brands

IMI Norgren
IMI Bahr
IMI Buschjost

Applications

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

Products



Proportional Control



40 bar Blowing Blocks



Stainless Steel Actuators



IVAC for Optimised Energy Consumption



Valve Islands (IIoT)



In-Line Valves



Electric Motion



Air Preparation Equipments



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.

Product Brands

IMI Norgren
IMI Buschjost

Applications

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

Products



Circuit breaker solenoid Valves



AMT rail dryers



Suspension control valve



High flow precision regulator



Coupling actuator



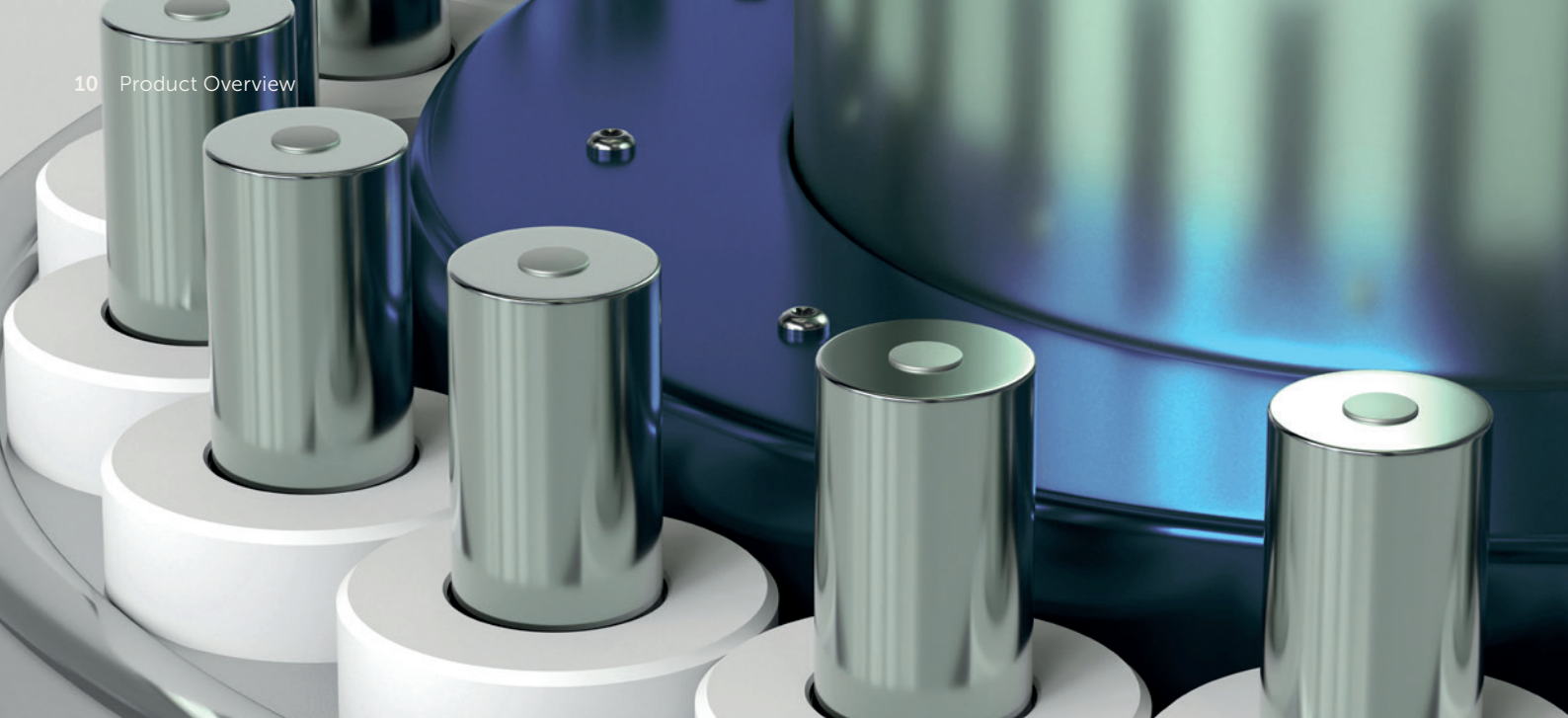
Door actuator



Pressure Switch



Air Preparation Equipments



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 accurate pneumatic and electric products. We design for the precise needs of battery manufacturing:

- Cleanroom Class 7 & 8 according to ISO 14644-1
- ISO Cleanroom Classes 1-6. Independently certified by Fraunhofer/IPA.
- Minimal copper & nickel content based on customer specification < 4.6 % in alloy
- Many IMI Norgren standard products meet the restrictions defined by our customers regarding copper, zinc and nickel
- Environments:
 - Corrosion-resistant products
 - ATEX approvals
 - Operating temperature -40°C to +80°C
 - Applicable in dry room temperature environment up to -60°C dewpoint

Product Brands

IMI Norgren

IMI Bahr

IMI Buschjost

Applications

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

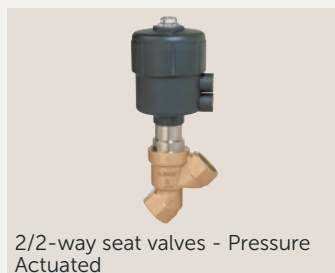
Products



Electric Motion



2/2-way seat valves - Indirectly Operated



2/2-way seat valves - Pressure Actuated



Valve Islands (I/O)



Pressure Switches



Industrial comms



Air Preparation Equipments



Proportional Control

Our website offers 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.imiplc.com/industrial-automation, and login with your existing 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.

www.imiplc.com/industrial-automation



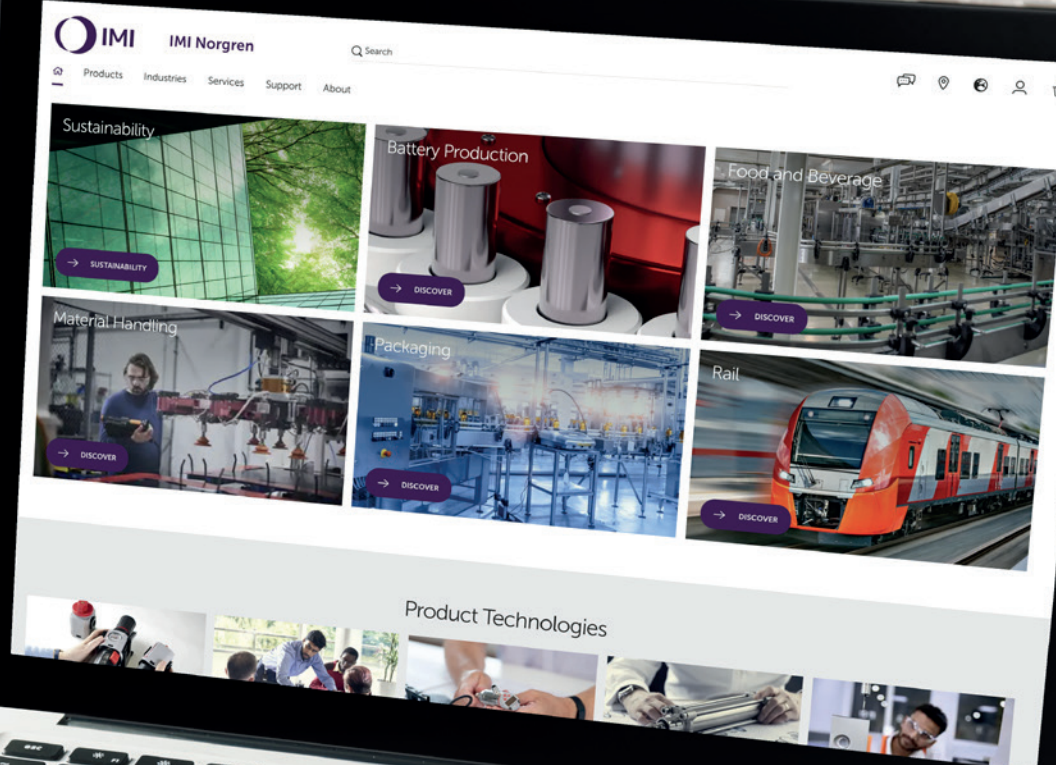
FAST

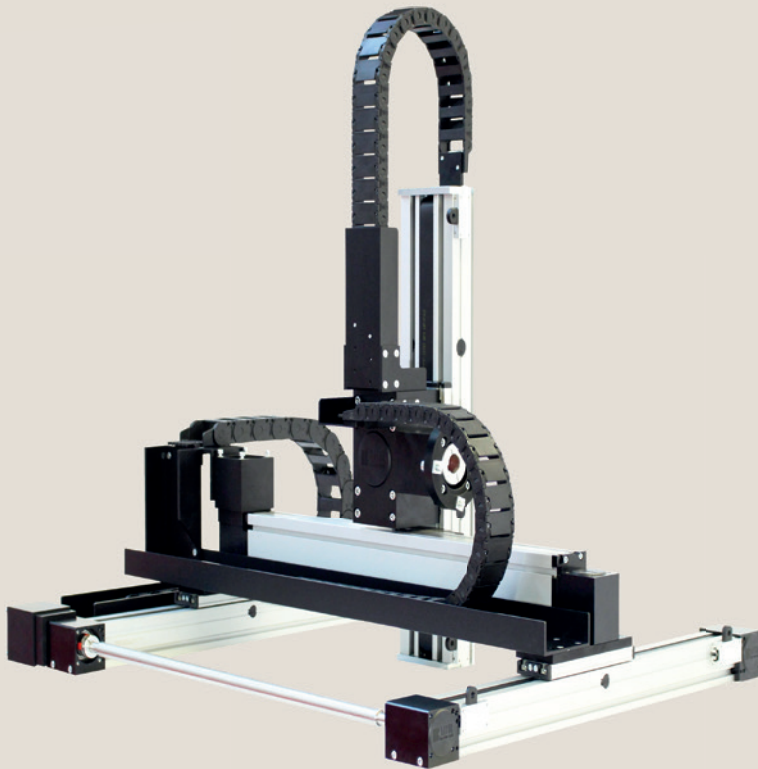
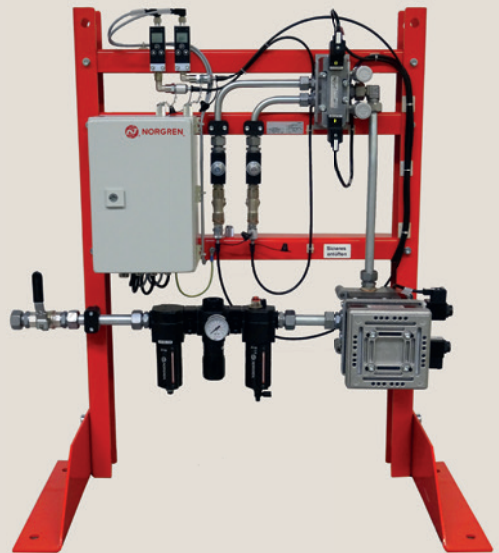


RELIABLE



100% SECURE





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 IMI Norgren, IMI Bahr, IMI Bimba and IMI Buschjost. Over the years, these brands have proven their value, becoming some of the most trusted names in pneumatics, electric motion and fluid control solutions. This allows us to help our customers tackle the world's most significant engineering challenges with reliability, safety, and efficiency.

Electric Motion



Air Preparation



Pneumatic Actuators



Pressure Switches



Valve Islands & Industrial Communication



Vacuum



Valves



Fittings, Tubing & Accessories



Electric Motion



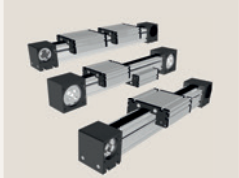
Electric Cylinders

E/809000 Series

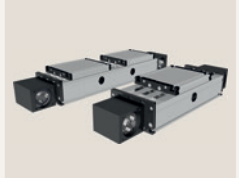


Linear Axis

E Series



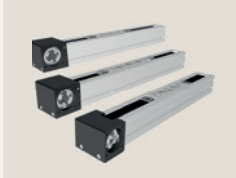
D Series



Q Series

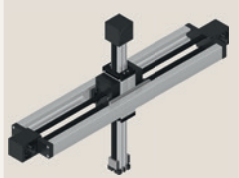


L Series



Multi Axis Systems

ELZI Series



ELZU Series



Multi Axis Systems



Accessories

AC Servo Motors



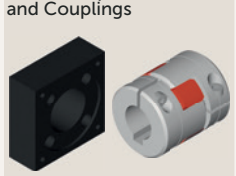
Servo Drives & Protocols



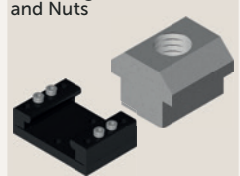
Switches and Cables



Motor Adaptor Plates and Couplings



Mountings, Blocks and Nuts



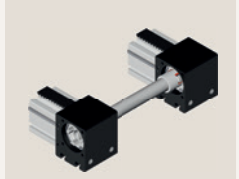
Gearboxes



Cable Chains



Parallel Transfer Units



Pneumatic Actuators



Roundline Cylinders

RM/8000/M
ISO 6432
Ø 10 ... 25 mm



RT/57200/M
Ø 10 ... 63 mm



Compact Cylinders

RA/192000/MX
ISO 21287
Ø 20 ... 50 mm



RM/92000/M
Ø 12 ... 100 mm



Profile Cylinders

PRA/802000/M,
RA/802000/M,
RA/8000/M
ISO 15552
Ø 32 ... 320 mm



PRA/882000/M
IVAC Clean Line
Ø 32 ... 63 mm

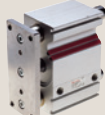


Cylinders with Guiding

M/60100/M
Ø 10 ... 40 mm

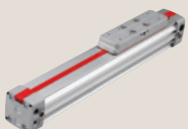


M/61000/M,
M/61000/MR
Ø 32 ... 100 mm

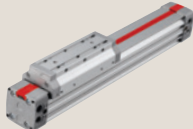


Lintra® Rodless Cylinders

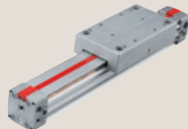
M/146000
Internal Guide
Ø 16 ... 80 mm



M/146100
External Guide
Ø 16 ... 80 mm



M/146200
Precision Roller Guide
Ø 16 ... 63 mm



Other Lintra®
Rodless Cylinders
Pneumatic & Electric

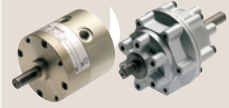


Pneumatic Actuators



Rotary Actuators

M/60280
Rotation angles
30° ... 270°



M/162000/MI
Ø 32 ... 125 mm



Stainless Steel Cylinders

KM/8000/M
ISO 6432
Ø 12 ... 25 mm



KA/802000/M
Ø 32 ... 200 mm



KM/31000
Ø 8 ... 14 1/2"



KM/55001/M
Ø 32 ... 125 mm



Air Bellows

M/31000
Ø 6 ... 16"

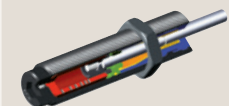


PM/31000
Ø 2 3/4 ... 12"



Shock Absorbers

ACE Shock Absorbers
MC Series
Self-compensating



ACE Shock Absorbers
MA Series
Adjustable



Switches

M/50
(Reed and Solid State)



Vacuum



Vacuum Pumps

M/58112
Single stage



M/58102
Multi stage



Vacuum Cups & Bellows

M/58300, M/58400
Ø 6 ... 150 mm



Flexible Connectors
for Vacuum Cups



Level Compensators
for Vacuum Cups



Vacuum Switches

18D Electro-Mechanical
-1 ... 1 bar



51D Electronic
-1 ... 1 bar



Accessories

Flexible connectors
for vacuum cups



Level compensators
for vacuum cups



Vacuum Gauges



Silencers



Pressure Switches



Electro-Mechanical Pressure Switches

18D Pneumatic
-1 ... 30 bar



18D Hydraulic
5 ... 420 bar



20D
Low pressure,
Allfluid and ATEX
0,5 ... 16 bar



Inline Flow Sensor

M/80 Series
-1 ... 16 bar



Electronic Pressure Switches and Sensors

54D Pneumatic
-1 ... 16 bar



**34D Pneumatic/
Hydraulic/Allfluid**
-1 ... 10 bar



Q84G Pneumatic
0 ... 10 bar



51D Pneumatic
-1 ... 10 bar



**60D Pneumatic/
Hydraulic/Allfluid**
1 ... 400 bar



**60S Pneumatic/
Hydraulic/Allfluid**
1 ... 400 bar



Valve Islands & Industrial Communications



Valve Islands

VR10
2 x 3/2, 5/2 & 5/3
10 mm



VR15
2 x 3/2, 5/2 & 5/3
15 mm



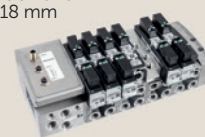
VM10
2 x 3/2, 5/2 & 5/3
10 mm



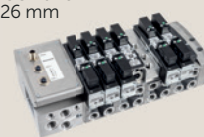
VM15
2 x 3/2, 5/2 & 5/3
15 mm



VS18
2 x 2/2, 2 x 3/2, 5/2 & 5/3
ISO 15407-2
18 mm



VS26
2 x 2/2, 2 x 3/2, 5/2 & 5/3
ISO 15407-2
26 mm



Industrial Communication

NC Series
IO-Link Masters &
I/O Modules



Valves



Sub-base Valves

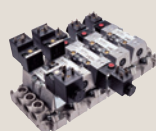
V40/V41
2 x 3/2, 5/2 & 5/3 Valve
ISO 15407-1
18 mm



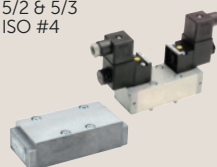
V44/V45
2 x 3/2, 5/2 & 5/3 Valve
ISO 15407-1
26 mm



ISO-STAR
5/2 & 5/3
ISO #1 ... ISO #3



UM/22000
5/2 & 5/3
ISO #4



In-line and Manifold Valves

V60 ... 63
3/2, 2x3/2, 5/2 & 5/3
G1/8 ... G1/2



V50 ... 53
3/2, 5/2 & 5/3
G1/8 ... G1/2



EXCEL 22, M/49
3/2
G1/8



Special Purpose Valves

Two-hand control unit
XSHC04
4 mm PIF



Safety valves SCVA
3/2
G1/4, G3/4, G1



Safety valves SCVA10
3/2
G1/2



Safety valves SCSQ10
3/2
G1/2



Solenoid actuated press
safety valves XSz
3/2
G1/4 ... G2



Manual/Mechanical Valves

Super X
3/2, 5/2 & 5/3
G1/8, G1/4



VHLA
4/2, 4/3 APB
G1/4 ... G1/2



M/1700
5/2, 5/3
G1/4, G1/2



S/666
3/2
G1/8



Valves



Proportional Valves



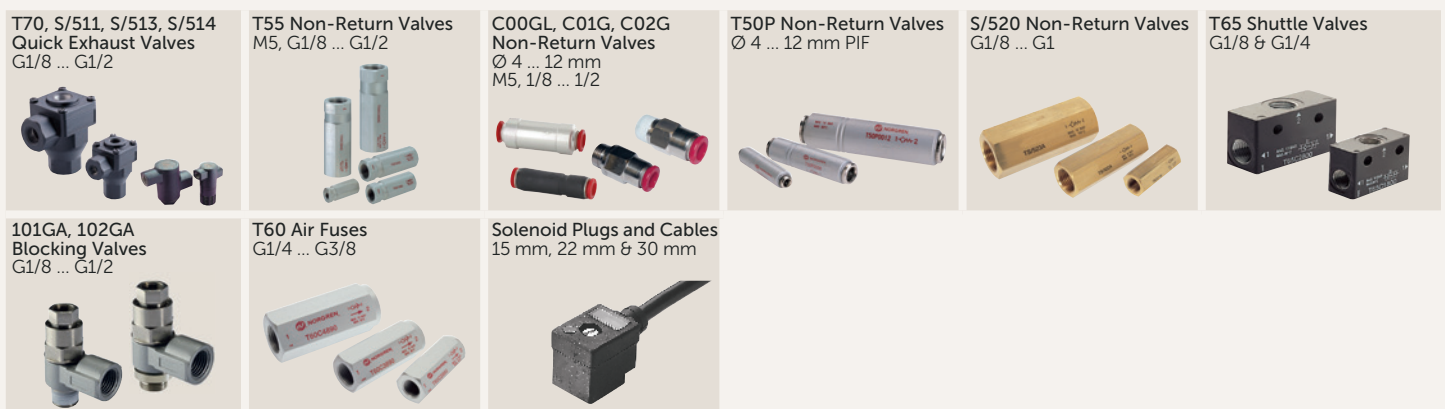
Process Industry



Flow Control Valves



Other Valves and Accessories



Air Preparation



Excelon® Plus – Standard Modular System

Combination Shut-Off Valve, Filter-Regulators And Lubricators BL82, BL84 G1/4 ... G3/4	General Purpose Filters F82G, F84G G1/4 ... G3/4	'Puraire'® High Efficiency Oil Removal Filters F82C, F84C G1/4 ... G3/4	'Ultraire'® High Efficiency Oil Vapour Removal Filters F82V, F84V G1/4 ... G3/4	Pressure Regulators R82G, R84G G1/4 ... G3/4	Filter-Regulators B82G, B84G G1/4 ... G3/4
Lubricators L82, L84 G1/4 ... G3/4	Manual Shut-Off Valves T82T, T84T G1/4 ... G3/4	Solenoid/Air Operated Shut-Off Valves P82C, P84C G1/4 ... G3/4	Solenoid/Air Operated Shut-Off Valves P82F, P84F G1/4 ... G3/4	Accessories	

Excelon® Plus – Modular System for Harsh Environments and Extended Temperatures

Combination Shut-Off Valve, Filter-Regulators And Lubricators HBL84 G3/8 ... G3/4	General Purpose Filters HF84G G3/8 ... G3/4	Extreme Temperature Oil Removal Filters HF84C G3/8 ... G3/4	Extreme Temperature Oil Vapour Removal Filters HF84V G3/8 ... G3/4	Pressure regulators HR84G G3/8 ... G3/4	Filter-Regulators HB84G G3/8 ... G3/4
Lubricators HL84 G3/8 ... G3/4	Shut-Off Valves HT84T G3/8 ... G3/4	Accessories			

Olympian Plus – Plug-in, Quick Change System

Combination Shut-Off Valve, Filter-Regulators And Lubricators BL68 G3/4 ... G1 1/2	General Purpose Filters F68G G3/4 ... G1 1/2	High Efficiency Oil Removal Filters F68H G3/4 ... G1 1/2	Oil Vapour Removal (Adsorbing) Filter F68V, F68Y G1/2 ... G1	Pressure Regulators R68G G3/4 ... G1 1/2	Filter-Regulators B68G G3/4 ... G1 1/2
Lubricators L68M G3/4 ... G1 1/2	Pressure Relief Valves V68H G3/4 ... G1 1/2	Shut-off & Lockout Valves T68 G3/4 ... G1 1/2	Soft Start/Dump Valves P68F G3/4 ... G1 1/2	Accessories	

Air Preparation



Miniature Series, General Purpose



Large Capacity Series Units



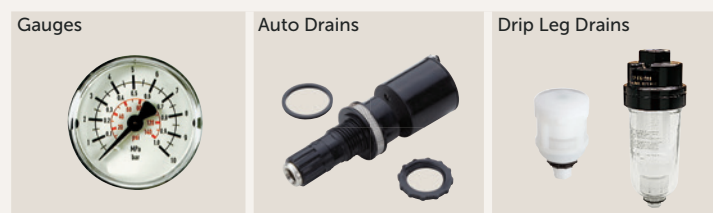
Stainless Steel – General Purpose and Precision



Special Purpose



Accessories



Fittings, Tubing & Accessories



Fittings

Pneufit 10
Push-In Fittings
Ø 4 ... 14 mm



Pneufit 12
Push-In Fittings
Ø 4 ... 12 mm



Pneufit C
Push-In Fittings
Ø 4 ... 16 mm



Pneufit C
Selection Box



Pneufit D
Push-In Fittings
Ø 4 ... 12 mm



Pneufit E
Push-In Fittings
Ø 4 ... 12 mm



Pneufit M
Push-In Fittings
Ø 3 ... 6 mm



Pneufit S
Push-In Fittings
Ø 4 ... 12 mm



24 Series
Push-On Tube Fittings
Ø 4/2,5 ... 15/12,5 mm



43 Series
Compression Fittings –
External Nut
Ø 4 ... 22 mm



BSP & Hose Fittings
M5, 1/8" ... 1" BSP



34 & 36 Series
Compression fittings
Ø 4 ... 28 mm



97400 Fleetfit
Push-In Fittings
Ø 6 ... 18 mm



Tubing & Hoses

Nylon Tubing
Ø 4 ... 16 mm



Polyurethane Tubing
Ø 3 ... 16 mm



Metal Braided
Rubber Hose
Ø 6 ... 12 mm



Pneuflex Tubing
Ø 6 ... 8 mm



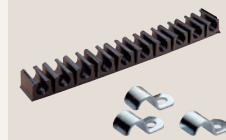
Weld Tubing
Ø 6 ... 14 mm



Tube Cutter



Tubing Channels & Clips
Ø 6 ... 16 mm



Accessories

233 Series
Single and double shut off
quick release couplings



238 Series
Single shut off quick
release couplings



234 Series
Double shut off quick
release couplings



237 Series
Single shut off quick
release couplings



M/S & T45 Series
Porous plastic silencers
M5, G1/8 ... G1



T40 Series
Sintered Bronze Silencers
M5, G1/8 ... G1



M/1500 Series
Exhaust Filters
G1/8 ... G1



MA & MB Series
Quietaire Heavy
Duty Silencers
R1/8 ... R1



CS & MQ0 Series
Coalescing Exhaust
Silencers
M5, G1/8 ... G1/2



60 & 61 Series
Ball Valves
1/8" ... 1 1/2"



M/7300 Series
Sleeve Valve
G1/8 ... G1/2



BG Series
Blow Guns



T65
Shuttle Valves
G1/8 ... G1/4



T70
Quick Exhaust Valves
G1/8 ... G1/2



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