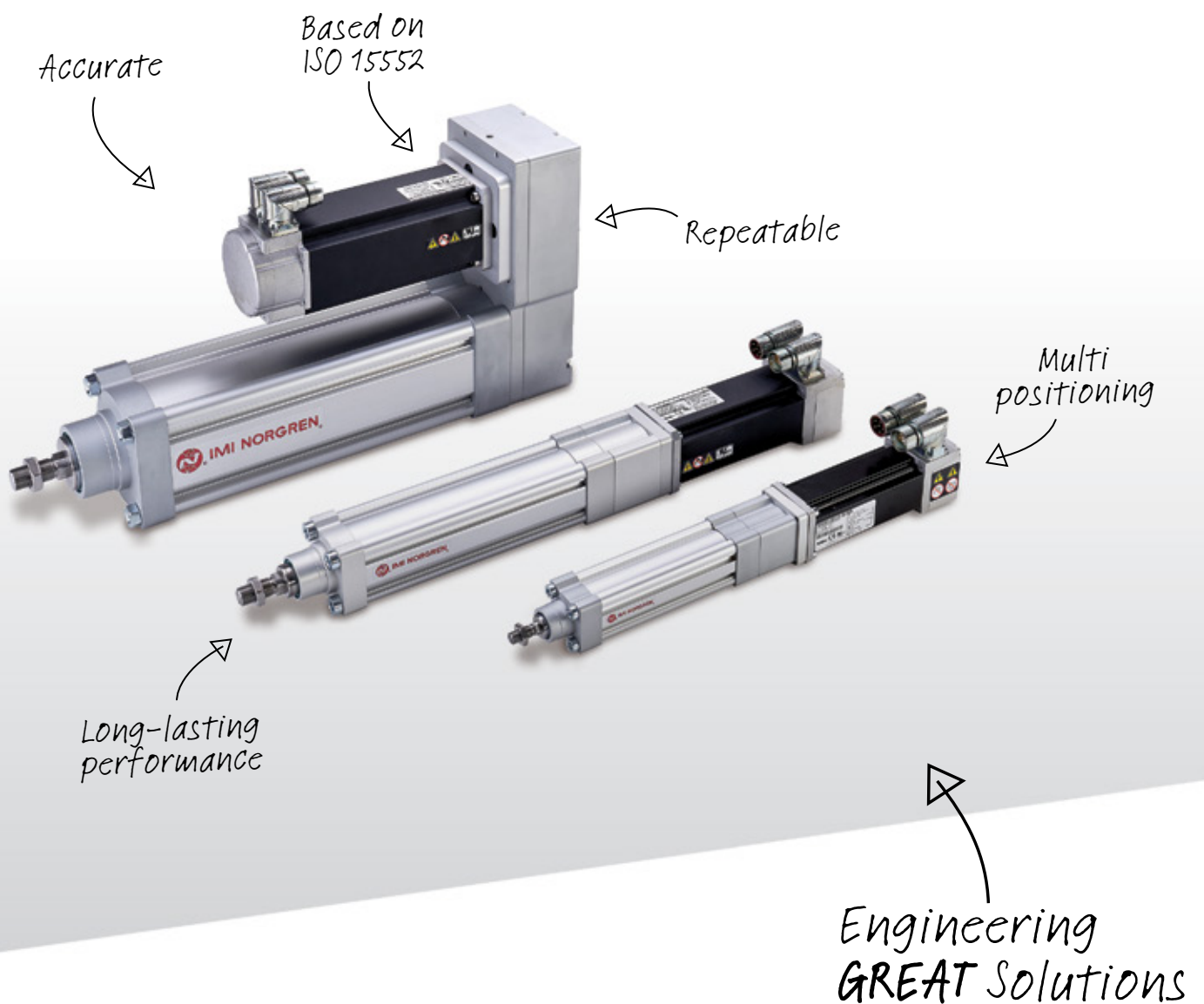


IMI Norgren ELION Electric Actuators Rod-Style Range



Contents

02 Introduction

03 Electric Actuation

04 Introducing IMI Norgren ELION

06 Servo Motors

06 Servo Drives

07 Accessories – Mountings,
Switches & Cables

07 Configurator and Technical Support



Engineering GREAT solutions through people, products, innovation and service

IMI Precision Engineering is a world-leader in fluid and motion control. Building close, collaborative relationships with our customers, we gain a deep understanding of their engineering needs and then mobilise our resources and expertise to deliver distinctive products and solutions.

Wherever precision, speed and engineering reliability are essential, our global footprint, problem-solving capability and portfolio of high performance products enables us to deliver GREAT solutions which help customers tackle the world's most demanding engineering challenges.

> **Reliability**

We deliver and support our high quality products through our global service network.

> **High performance products**

Calling on a world-class portfolio of fluid and motion control products including IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion and IMI Maxseal. We can supply these singly, or combined in powerful customised solutions to improve performance and productivity.

> **Partnership & Problem Solving**

We get closer to our customers to understand their exact challenges.

Electric actuation

The requirements for modern industrial automation applications are becoming increasingly complex, therefore it is essential to select the best possible solution for each application. Electric actuators offer the perfect solution when precise control, accurate positioning and repeatability is essential.

Electric actuators offer distinct advantages over pneumatic actuators. Acceleration and speed are controllable, and multiple intermediate positions are possible with high precision and repeatability. This positioning flexibility allows multiple actuators to move in sync and change speed without needing to stop or overrunning position. Acceleration and deceleration control also allows the cylinders to glide into position without stopping abruptly, making them ideal for applications where vibrations and disruptive movement is not acceptable.

With no need for compressed air, electric actuators offer a cleaner, quieter solution, and total cost of ownership can be greatly reduced.

High performance ISO standard electric actuators suitable for a variety of industrial applications



Introducing IMI Norgren ELION

E/809000 Rod-Style Electric Actuator Range

Designed to meet our customers' requirements, our flagship range of high performance ISO standard rod-style electromechanical linear actuators are suitable for a variety of industrial applications.

We offer a one-stop shop for your electric actuation needs. Partnering with Control Techniques, a world leading servo motor & drive manufacturer, we are able to offer you a complete electric actuator solution to suit your application.

> **Accurate and Repeatable**

Ball screw and servo motor provides accurate and repeatable positioning

> **Long Life**

Ball screw and bearing mechanisms enable high cycle life

> **Ease of Installation**

Based on ISO 15552 standard with universal mounting options

> **Performance Monitoring**

Integral sensors and external switches monitor actuator performance and enable planned maintenance

> **Energy Saving**

Electromechanical components efficiently convert electricity to mechanical power, only energised when movement is required, reducing energy consumption and the cost of ownership

> **Safety in Service**

Servo motor with optional integrated holding brake enables actuators to self-lock when the power is isolated

> **Industries**

Carefully selected materials and product specifications suitable for a variety of applications

> **Smart Configurations**

Our online configurator enables quick and easy product selection based on customer application input

> **One-Stop Shop**

Motors, drives and accessories are available



Technical Specifications:

- > Ball screw actuators with or without servo motor
- > 6 bore sizes
- > 2 motor mounting options
- > Robust construction
- > Based on ISO 15552
- > Maintenance free
- > Built on reliable & long-life IMI Norgren technology
- > Wide range of motors, drives & accessories

Optional:

- > Piston rod extension
- > Internally threaded piston rod
- > Piston rod bellows



32, 40, 50, 63, 80, 100mm



100mm - 1500mm stroke



Up to 30.4kN



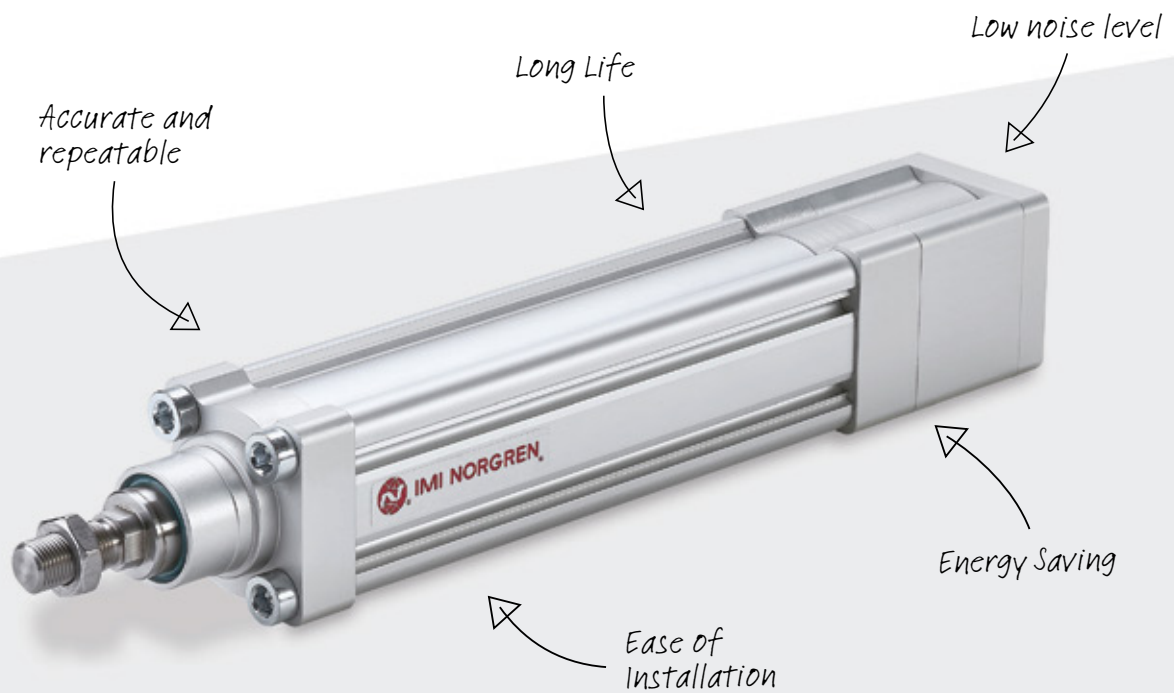
Max. 1.6m/s



0°C to +60°C Operating Temperature



IP65 Protection (motor only)



Servo Motors and Drives

Motors

IMI Norgren ELION electric actuators are complemented by a range of high performance AC servo motors. Motors can be mounted axially or in parallel in four positions. With a wide torque range, from 0.16 Nm up to 10.5 Nm, and a selection of feedback options they offer the best fit for your application requirements.

Technical specifications

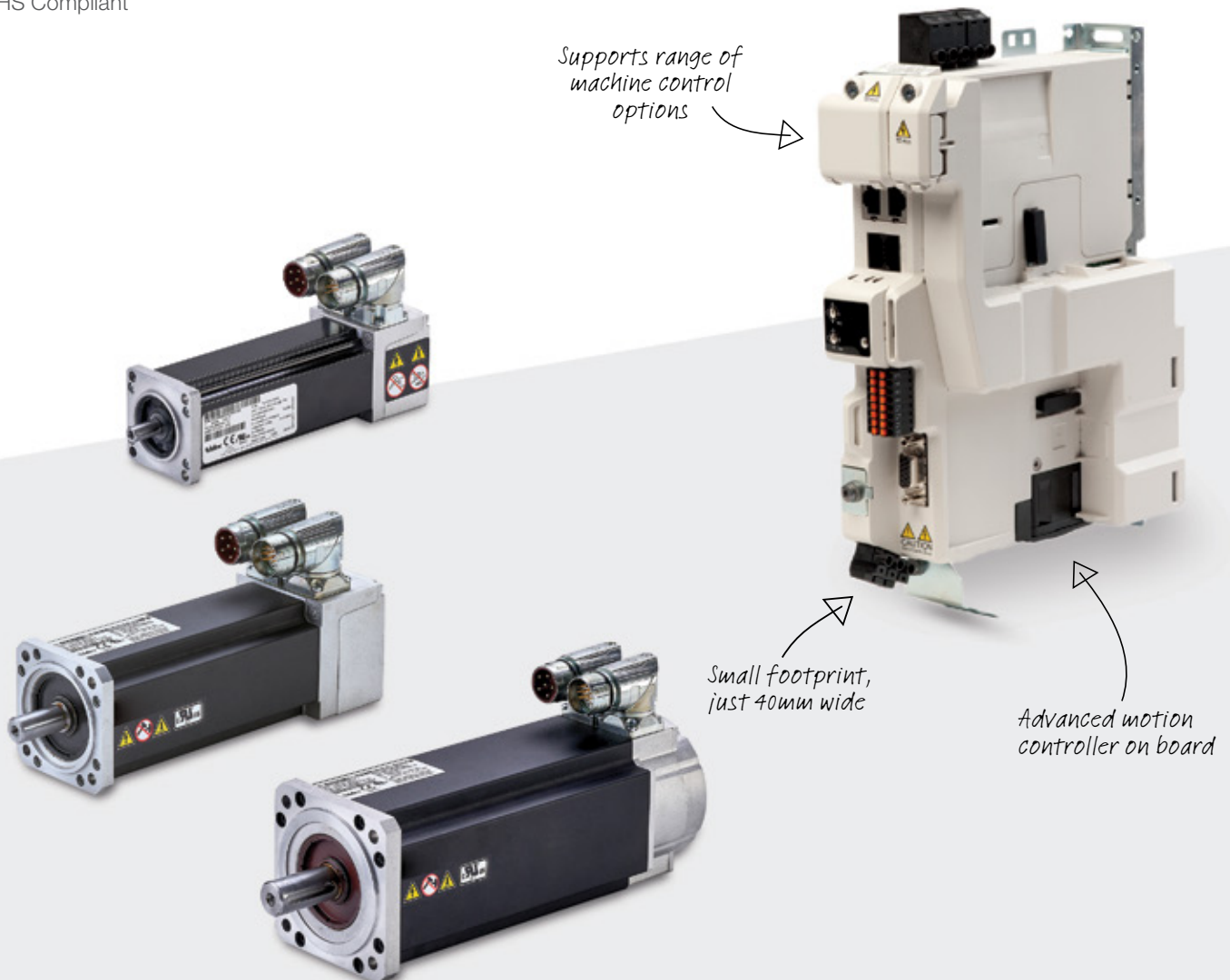
- > Torque range: from 0.16Nm to 10.5Nm
- > Holding brake available
- > Flange according to IEC 72-1
- > IP65 protection is standard (motor only); sealed against water spray and dust
- > Low inertia for high dynamic performance
- > Motor speeds 3000 and 6000rpm
- > UL/CUL certified
- > CE certified
- > RoHS Compliant

Drives

IMI Norgren ELION electric actuators are also available with a range of servo drives offering maximum servo performance in a minimum size package. Optimised for highly dynamic applications, they provide the flexibility of both standalone and modular configurations. Minimal footprint and exceptional power density make them one of the smallest servo drives on the market today. This means that you can build the most compact cabinets possible.

Technical specifications

- > Available in 3 variants, 200 V to 400 V
- > Protocols include EtherCAT, PROFINET, Ethernet/IP, DeviceNet & CANopen
- > Small footprint, just 40mm wide
- > Advanced motion controller on board
- > 250µs cycle time
- > Built-in RS485 communication



Accessories

Our ISO standard electric actuators are supported by one of the largest ranges of accessories on the market, including mountings, switches and cables.

Cables

Two cable options are available in various lengths – power cable and feedback cable.

Switches

Reed, solid state and IO-Link switches are available which are suitable for all cylinder ranges. Switches can be mounted flush.

Mountings

A comprehensive range of mountings conforming to ISO 15552 for front end cover, rear end cover and piston rod mounting.



Configurator and Technical Support

IMI Norgren electric actuators are designed by engineers, to the most demanding standards. To ensure you make the correct decision, our dedicated technical team are available to help you specify the correct product for your application and provide full support throughout purchase and delivery.

Our intuitive, easy to use online configuration tool gives you the flexibility to specify the correct actuator for your requirements. You are able to configure using product attributes such as size, stroke and mountings; or application attributes such as distance, load, speed or lifetime.

We are committed to offering our customers a complete service - not only off the shelf standard products, but also tailored custom solutions, panels and complete systems, designed and built according to your exact specifications.

Visit www.imi-precision.com to find out more



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

For information on all IMI Precision Engineering companies visit **www.imi-precision.com**

Supported by distributors worldwide.



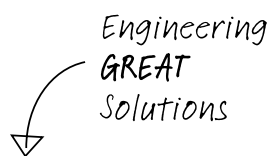
Precision Engineering

Norgren, Buschjost, FAS, Herion and Maxseal are registered trademarks of IMI Precision Engineering companies.

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

z8934BR en/04/19

Selected Images used under license from Shutterstock.com



For further information, scan this QR code or visit **www.imi-precision.com**

