NORGREN®

New! Norgren ELION Electric Actuators
Rodless Range

Norgren has expanded its electric actuator offering with the NEW Norgren ELION electric actuator series. The Norgren ELION Series has been designed to meet various customer requirements while still providing a high performing rodless electromechanical linear actuator that is suitable for all industrial applications.

We offer two drive options: toothbelt and ball screw. The toothbelt drive provides the highest speeds and longest strokes while the ball screw is capable of moving higher loads with extremely accurate and repeatable positioning.

Product Highlights:

- **Accurate and Repeatable** – Precision ball screw and ball nut achieves +/- 0.05 mm and the toothbelt and pulley drive achieves +/- 0.1 mm.
- **High Speed and Fast Response** – Toothbelt allows fast acceleration and a highly dynamic control with speeds up to 10 m/s. With a choice of gearboxes, different speed ranges can be selected.
- **High Load Capability** – Precision ball screw and ball screw nut can withstand high loads.
- **Tolerates Offset Loads** – Internal guidance system counteracts load moments.
- **Ease of Installation** – Motor and gear box can be mounted in two positions, and motor can be rotated on its axis.

IMI

Breakthrough Engineering

Technical Specifications

48, 60, 80, 100 mm

Toothbelt	100 mm – 5500 mm
Ball screw	100 mm – 2500 mm*

* strokes up to 4100 mm on request

Toothbelt	0.20 kN - 1.50 kN
Ball screw	2.5 kN - 10.2 kN

Toothbelt max.	10.0 m/s
Ball screw max.	1.6 m/s

0°C to +60°C operating temperature (actuator)
0°C to +40°C operating temperature (motor)

IP65 Protection (motor only)

Options selector - E/148000

E/148★★★/★★★/★★★/★★★★

Actuator size □	Substitute 1
48	**048**
60	**060**
80	**080**
100	**100**
Motor / Gearbox orientation	**Substitute 2**
Right	**A**
Left	**B**
Gear ratio	**Substitute 3**
1:1 (no gear box)	**01**
1:3	**03**
1:4	**04**
1:5	**05**
1:7	**07**

Order stroke (mm) **	Substitute 7
100 ... 5500	
Motor / Feedback /Brake	**Substitute 6**
Motor with resolver, without brake	**A**
Motor with absolute (Multi turn), without brake	**B**
Motor with resolver, with brake	**M**
Motor with absolute (Multi turn), with brake	**N**
No motor, no coupling, with housing	**X**
No motor, small flange	**1**
No motor, big flange	**2**
Flange	**Substitute 5**
Flange for motor □55; 1,05 Nm	**E**
Flange for motor □67, 2,45 Nm	**J**
Flange for motor □67; 3,50 Nm	**N**
Flange for motor □89; 6,90 Nm	**R**
No motor (see Substitute 6 for flange) E/148***/***/***X***/***	**X**
→ No motor, no coupling, with housing	**X**
→ No motor; small flange	**1**
→ No motor; big flange	**2**
Motor kit	**Substitute 4**
Actuator only, no coupling, with coupling housing	**B**
Actuator only, with coupling, with coupling housing	**C**
Use Sub. 5 & 6 for motor shaft diameter E/148***/***/**C****/***	
→	**08 ... 20**
	e.g. 08 = 8 mm motor shaft 09 = 9 mm motor shaft ... 14 = 14 mm motor shaft
Actuator only, with coupling, with coupling housing, with motor flange	**D**

For combinations of cylinder variants consult our technical service.
This option selector explains only the cylinder variants.
Additional variants/options are not possible.
Detail's see table on page 4.
**Strokes < 100 mm on request

Options selector - E/149000

E/149★★★/★★★/★★★/★★★★

Actuator size □	Substitute 1
48	**048**
60	**060**
80	**080**
100	**100**
Spindle pitch	**Substitute 2**
5	**05**
10	**10**
16	**16**
20	**20**
25	**25**
Spindle support	**Substitute 3**
0	**0**
2	**2**
4	**4**
6	**6**

Order stroke ** (mm)	Substitute 7
100 ... 4100	
Motor / Feedback /Brake	**Substitute 6**
Motor with resolver, without brake	**A**
Motor with Absolute (Multi turn), without brake	**B**
Motor with resolver, with brake	**M**
Motor with Absolute (Multi turn), with brake	**N**
No motor, no coupling, with housing	**X**
No motor, small flange	**1**
No motor, big flange	**2**
Flange	**Substitute 5**
Flange for motor □55; 1,05 Nm	**E**
Flange for motor □67, 2,45 Nm	**J**
Flange for motor □67; 3,50 Nm	**N**
Flange for motor □89; 6,90 Nm	**R**
No motor (see Substitute 6 for flange) E/149***/***/***X***/***	**X**
→ No motor, no coupling, no housing	**X**
No motor; small flange	**1**
No motor; big flange	**2**
Motor kit	**Substitute 4**
Actuator only, no coupling, with coupling housing	**B**
Actuator only, with coupling, with coupling housing	**C**
Use Sub. 5 & 6 for motor shaft diameter E/149***/***/C**/***	
→	**08 ... 20**
	e.g. 08 = 8 mm motor shaft 09 = 9 mm motor shaft ... 14 = 14 mm motor shaft
Actuator only, with coupling, with coupling housing, with motor flange	**D**

For combinations of actuator variants consult our technical service.

This option selector explains only the actuator-variants.

Additional variants/options are not possible.

Detail's see table on page 4.

**Available 100 ... 4100 mm (short strokes < 100 mm and > 2500 mm on request)