





Automated Format Adjustment

RK Rose+Krieger and LENORD+BAUER

benefit from the synergies that arise from the sensible combination of their product ranges RK Rose+Krieger GmbH and Lenord, Bauer & Co. GmbH from Oberhausen both work together to meet customer demands for fully automated infeed axes.

The linear units and actuators complement each other to create a practical complete package.

The package features **E-II** single-tube actuators, **EP/EPX(II)** twin-tube actuators and **quad® EV** profile actuators from the Move-Tec range. There is also the option of a short or long actuator with either an aluminium or stainless steel housing. The devices provide a rated torque of 3.5 Nm or 5 Nm.

Lenord+Bauer offers the torque supports necessary in fitting the SeGMo to the corresponding linear actuators. Once the torque support has been fitted, the actuator is simply placed onto the axis and pushed into position. A clamping ring fixes the drive firmly onto the drive shaft of the linear unit. In addition to the positive shaft connection, a flexible motor support also forms the necessary floating bearing on the torque support.

The actuators can be used either as stand-alone components or as a modular overall system, and can be plugged directly into the machine control system using the integrated fieldbus interface. The only things then needed to commission the linear actuator with automatic adjustment are a 24 V power supply and connection to the bus communication.

The two companies also work in close collaboration to fit even complex machines with multiple linear units and a local communication unit. In these cases, actuators with hybrid cables and SeGMo boxes are used, along with a compact PLC control system with operator terminal. Both of these are supplied by **Lenord+Bauer** on request, in the form of a connection-ready module with operator software included. Integration into an existing control environment is really simple, as the SeGMo system supports standard interfaces such as PROFIBUS and PROFINET.

E-II single-tube actuators – versatile all-rounders

- with a simply unbeatable price-performance ratio
- now also corrosion-resistant in sizes 30 + 40



Bearing cover

- ✓ Dust/spray protection on Type 30-60
- ✓ Option of screw with slide bearing (resistant to fine dust/abrasion)

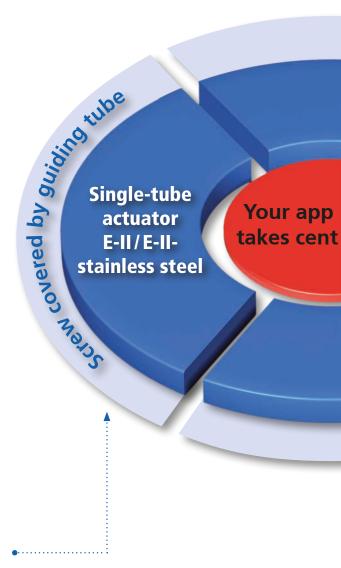
Cover clips

✓ Slot cover as dust protection or stroke limitation

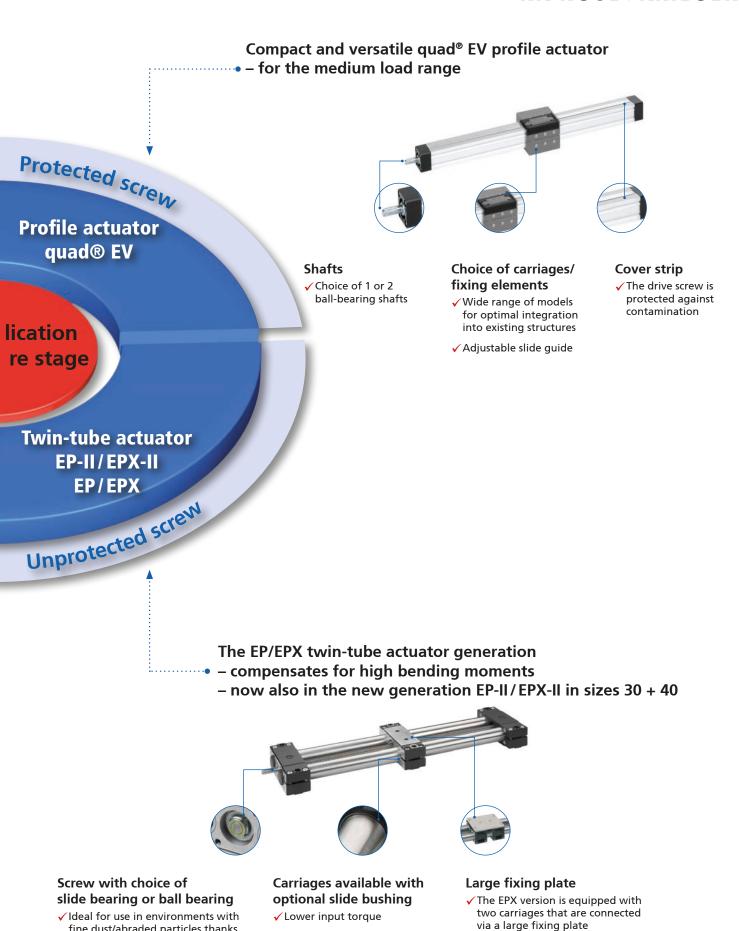
Carriages/fixing elements

✓ Wide range of models facilitates connection to your set-up Option of carriage

✓ Option of carriage with slide bushing (lower input torque, wear minimised)







✓ Wear minimised on carriage

fine dust/abraded particles thanks

to slide bearings

√ High torque capacity

Technical data

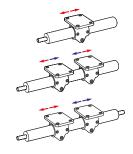
E-II units - General information

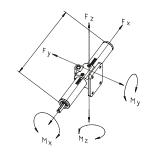
Туре	Lead accuracy	Operational performance (m)	Permitted forces/torques						
			Fx [N]	Fy* [N]	Fz* [N]	Mx [Nm]	My [Nm]	Mz [Nm]	Features
E-II 30	+- 0,2/300mm	5000	800	500	500	6	15	15	✓ Screw covered by guiding
E-II 40	+- 0,2/300mm	5000	1000	2100	1900	14	40	40	tube ✓ Large selection of carriages
E-II 50	+- 0,2/300mm	5000	1700	3000	3000	30	65	65	and fixing options ✓ Stainless steel guide profile
E-II 60	+- 0,2/300mm	5000	2500	4500	4500	45	120	120	Stanness steel guide prome
E-II 30 stainless steel	+- 0,2/300mm	5000	800	500	500	6	15	15	✓ Corrosion-resistant
E-II 40 stainless steel	+- 0,2/300mm	5000	1000	2100	1900	14	40	40	✓ FDA-approved lubricants

^{*}in relation to an overall length of 500 mm

Versions

- Right- or left-hand threaded screw
- Right- and left-hand threaded screw
- Split screw (only E-II stainless steel on request)









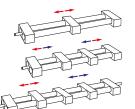
EP/EPX units – General information

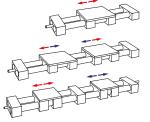
			Operational	Permitted forces/torques						
Ту	Type Lead accuracy	Lead accuracy	performance (m)	Fx [N]	Fy* [N]	Fz* [N]	Mx [Nm]	My [Nm]	Mz [Nm]	Features
EP	30	+- 0,2/300mm	5000	800	1000	550	60	60	75	✓ Open screw
EP	40	+- 0,2/300mm	5000	1000	3500	2000	120	130	150	✓ Twin tube linear unit✓ Possibility of high torque load
EP	50	+- 0,2/300mm	5000	1700	3800	3000	160	200	260	Possibility of high torque load
EP	60	+- 0,2/300mm	5000	2500	6600	6000	300	340	480	
EPX	K 30	+- 0,2/300mm	5000	800	1400	650	80	110	140	
EP	K 40	+- 0,2/300mm	5000	1000	6000	2200	160	190	240	
EPX	K 50	+- 0,2/300mm	5000	1700	7700	3300	240	345	510	
EP	K 60	+- 0,2/300mm	5000	2500	11000	7000	520	610	910	
EP-	II 30	+- 0,2/300mm	5000	800	1000	550	60	60	75	✓ Precise / plane mounting
EP-	II 40	+- 0,2/300mm	5000	1000	3500	2000	120	130	150	surface
EPX	-II 30	+- 0,2/300mm	5000	800	1400	650	80	110	140	✓ New guide nut concept
EPX:	-II 40	+- 0,2/300mm	5000	1000	6000	2200	160	190	240	v New gaine flut concept

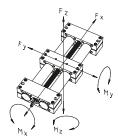
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Versions

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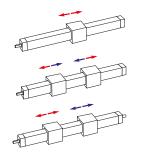
quad® EV units - General information

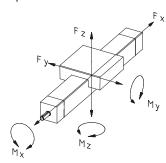
Туре	Lead accuracy	Operational performance (m)	Permitted forces/torques						
			Fx [N]	Fy* [N]	Fz* [N]	Mx [Nm]	My [Nm]	Mz [Nm]	Features
EV 30	+- 0.15/300 mm	6000	800	600	600	6	11	8	✓ Protected screw
EV 40	+- 0.15/300 mm	6000	1200	1500	1480	25	45	30	✓ Large selection of carriages and fixing
EV 50	+- 0.15/300 mm	6000	1800	2220	2300	55	74	50	options ✓ High operational
EV 60	+- 0.15/300 mm	6000	2100	4070	4090	65	100	60	performance

^{*}in relation to an overall length of 500 mm

Versions

- Right- or left-hand threaded screw
- Right- and left-hand threaded screw
- Split screw

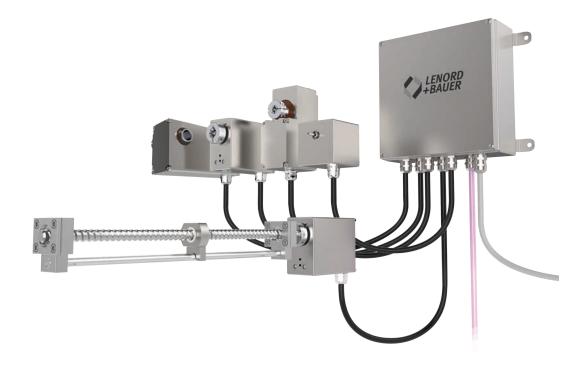




Fully automated drive solution

























The SeGMo reduces the setup times for format adjustment

Lenord + Bauer offers a modular application for the automation of linear actuators, consisting of:

- Fully automated actuators SeGMo-Positioning and SeGMo-Motion
- Electronic control unit SeGMo-Box for up to 5 actuators
- Pre-packaged software modules SeGMo-Lib
- Single-cable wiring (hybrid cable) SeGMo-Connect

SeGMo – actuators for RK Rose+Krieger linear actuators

- Fully automated actuators SeGMo-Positioning and SeGMo-Motion
- Sturdy housing in aluminium or stainless steel
- Magnetic multiturn sensor for precise positioning
- Wide temperature range from -10°C to +60°C
- Support-Tool for setup

For further information, please refer to our "SeGMo system" brochure on our website www.lenord.com







Technical data

SeGMo-Positioning	GEL 6110 GEL 6110 compact design short design		GEL 6109 compact design	GEL 6109 short design						
Dimensions (W \times H \times D)	60 × 100 × 163 mm	60 × 100 × 125 mm	50 × 125 × 96 mm	50 × 125 × 76 mm						
Degree of protection	IP 67									
Housing material	Aluminium (AlMgSi);	stainless steel (1.4301)	Aluminium							
Rated torque	2 Nm; 5 Nm; 10 Nm; 15 Nm	1,4 Nm; 3,5 Nm; 7 Nm	2,5 Nm	5 Nm						
Screw speed (U/min)	230; 100; 40; 30	230; 100; 40	70							
Position sensor	Magnetic, multiturn (Drive end), batteryless									
Sensor detection range in de-energized condition	342 revolutions									
Motor	BLDC (24 V)									
Gear types	Spur gear									
Operating temperature range	-10 °C bis +60 °C									
Connections	·	M23; hybrid cable; onnector	connector M12; M23; hybrid cable; hybrid connector; M17 Connector							

Lenord + **Bauer** support you in implementing your automation requirements with the SeGMo system

Depending on customer requirements and the technical circumstances, the SeGMo system is either integrated into the existing control-system architecture or constructed as a cost-effective parallel system. And if you wish, we can also integrate the system into your machine control system for you. We are on hand with expert advice at every stage of your project.

Take advantage of our expert knowledge and benefit from our comprehensive range of consultancy and support services!



SeGMo-Support +49 208 9963 - 220

info@lenord.de

Drive + Guide

E-II/E-II stainless tubular linear unit



Features:

- Units for light to heavy moving applications
- Different sizes can be combined
- Comprehensive range of accessories

EP/EPX/EP-II/EPX-II tubular linear unit



Features:

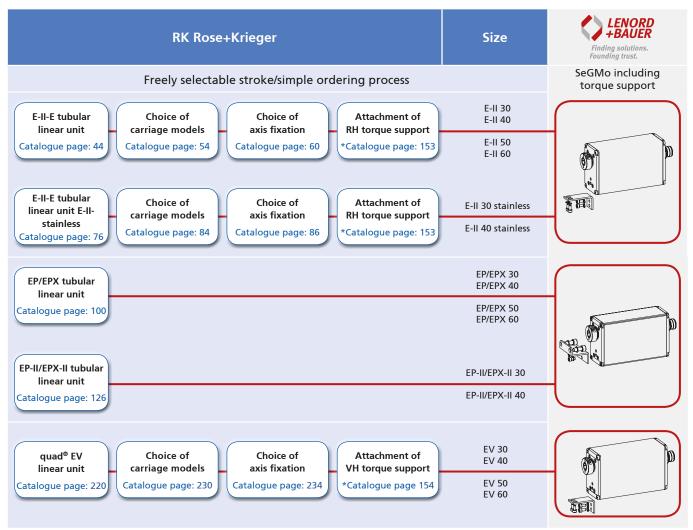
- High torque capacity
- Version available with large fixing plate

quad® EV linear unit



Features:

- Screw covered by steel band
- Wide range of available carriages and fixing elements
- Comprehensive range of accessories



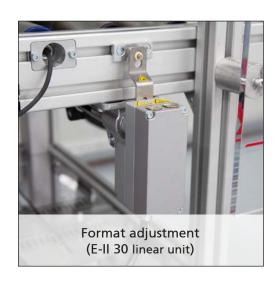
For further information, please refer to our "Linear Technology" catalogue and "Connecting Technology" *catalogue, on our website www.rk-rose-krieger.com and at www.lenord.com

Possible applications













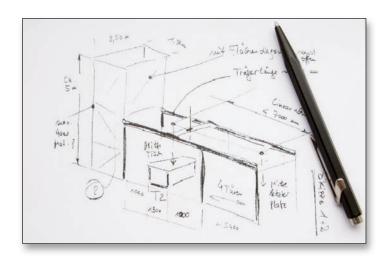


Our service

If you want to focus your resources on other tasks and are looking for an expert partner you can rely on, our specialists will work closely with you to develop tailor-made solutions. If you wish, we can also assemble and commission the units on site.

Product Consultancy +49 (0) 571 9335 - 0 anfrage.vertrieb@rk-online.de

Just make a sketch of your requirements



Our product specialists will devise a solution for you



 We can deliver your turnkey solution or assemble and commission it for you on site



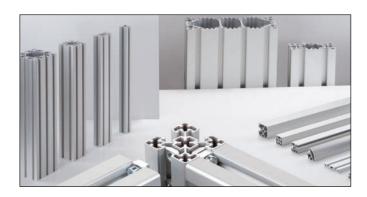
Our product ranges





CONNECTING TECHNOLOGY

- ✓ Fittings for the secure clamp connection of round and square tubes
- ✓ Elements made of aluminium, stainless steel and plastic
- ✓ Sizes from 8 mm to 80 mm



PROFILE TECHNOLOGY

- √The tried and tested BLOCAN® aluminium assembly system
- ✓ Sections from 20 mm to 320 mm for all applications
- ✓ Connecting technology with an unsurpassed combination of flexibility and reliability



LINEAR TECHNOLOGY

- ✓ Manual adjustment units
- ✓ Electric cylinders
- ✓ Lifting columns
- ✓ Linear axes
- ✓ We can move loads for you of up to 3 t and 12 m dynamically, reliably and with great precision



MODULE TECHNOLOGY

- ✓ Machine frames
- ✓ Workstations
- ✓ Machine guards
- ✓ Multidimensional linear axis modules
- ✓ Complete drive solutions



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