

R RENOWNED
KNOW-HOW

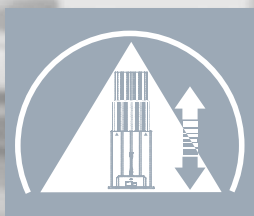
Automation Technology



RK ROSE+KRIEGER

A Phoenix Mecano Company

For any application the
best lifting column



Multilift II product line

The elegant and robust electric lifting columns of the Multilift II range from RK Rose+Krieger are a great example of how customised special versions of devices can actually become standard products for specific areas of application.

Customer feedback formed the basis for a number of improvements in the design of the Multilift II. One new feature is an assembly slot on both sides of the external profile of the electric lifting column, which is compatible with the RK Rose+Krieger aluminium profile system and can take corresponding slot stones. They allow additional attachments like reinforcements, screening and so on to be mounted without any problems.

Ready to install Plug & Work packages for height adjustment

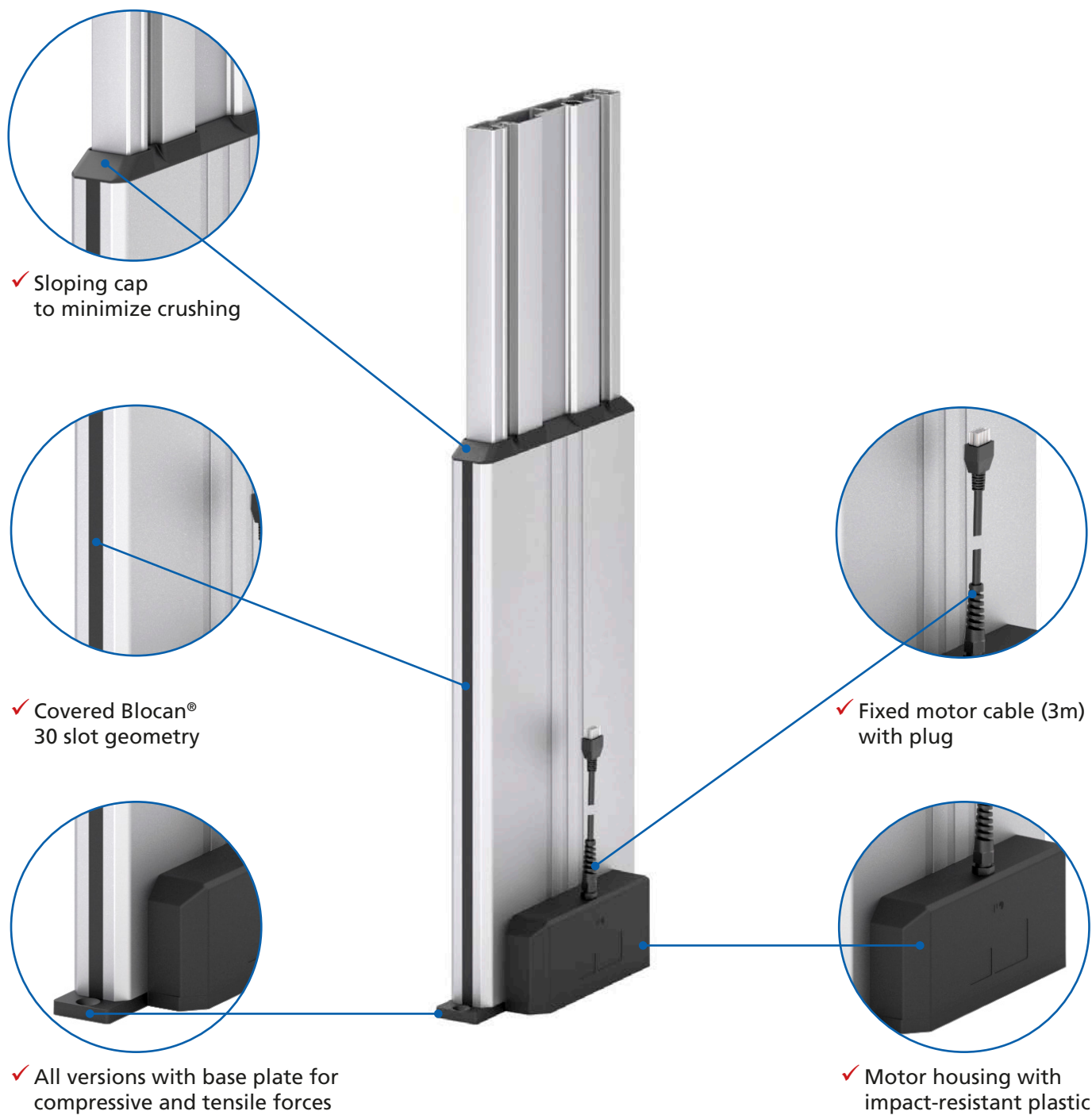
RK Rose+Krieger supplies the lifting column in the synchronous version in a prefabricated Plug & Work package. The completely pre-initialised package gives you everything you need to set up a standing workstation for up to 3,000 N and stroke lengths of 355 mm to 650 mm with ease. The flat design gives an added space gain.

Align lifting columns easily and without distortion with RK SyncFlex

The Multilift II can be mounted quickly and easily on standard profile systems with the use of assembly plates. Optional RK SyncFlex adjuster plates facilitate lifting column alignment and prevent distortions, which could lead to failures if over-determined systems are overloaded. Furthermore, various special options are available if required.

Our product consultants would be happy to advise you on the design of your height adjustment.





Highlights / Features:

- Integrated limit switches
- Self-locking, even at max. load
- Lateral fixing slot in external profile
- Position feedback by hall sensor

Options:

- Special stroke lengths and installation height available on request
- With synchronous control:
 - Cascading of several columns
- Customised solutions on request

Multilift II product line – Technical data

General information/operating conditions

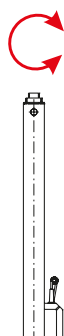
Type	Multilift II	Multilift II telescope	Multilift II ESD	Multilift II impact	Multilift II safety
Design	Slim lifting column				
Guide	Quadruple bearings with POM slide bearing shells				
Installation position	Any position / hanging only with drop protection provided by the customer				hanging
Push force	3,000 N or 1,000 N			3,000 N	-
Pull force	3,000 N or 1,000 N	2,000 N or 1,000 N	3,000 N or 1,000 N	3,000 N	600 N
Max. speed	8 mm/s or 16 mm/s			8 mm/s	16 mm/s
Max. Stroke	500 mm	650 mm	500 mm		
Installation height	Stroke + 203 mm	560 mm	Stroke + 203 mm	Stroke + 212 mm	Stroke + 203 mm
Voltage	24 V DC				
Current output	4 A				
Protection class	IP 30				
Self-locking	3,000 N				600 N
Ambient temperature	+5°C to +40°C				
Displacement during synchronous operation	0–2 mm				no synchronous operation available
Duty cycle (Operation mode S 3)	At nominal load, 10% (1 min operating time, 9 mins rest time)				

Load data Multilift II telescope



$M_x = 200 \text{ Nm}$
(dynamic)

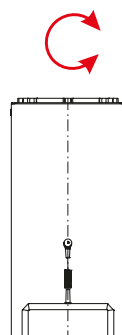
Support torque load
300 Nm (static)



$M_y = 100 \text{ Nm}$
(dynamic)

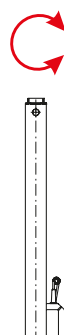
Support torque load
150 Nm (static)

Load data Multilift II



$M_x = 200 \text{ Nm}$
(dynamic)

Support torque load
300 Nm (static)



$M_y = 130 \text{ Nm}$
(dynamic)

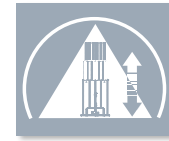
Support torque load
200 Nm (static)

Note:

The Multilift II safety is only designed for centric load. In cases of eccentric load please contact RK Rose+Krieger.

Multilift II telescope – unique installation height/stroke ratio

The three-stage lifting column conforms to the ergonomics standard for workbenches (DIN EN 527-1:2011) and features an optimum height/stroke length ratio: the installation dimension in a retracted position is just 560 mm. The maximum stroke is 650 mm with a maximum lifting force of up to 3,000 N per drive.



Special feature:

- Optimised height/stroke length ratio conforms to the ergonomic standard for workbenches (DIN EN 527-1:2011)

Ideal area of application:

- ✓ Especially for seated and standing workplaces in the production
- ✓ LEAN-Workplaces

Multilift II ESD – discharging voltages via the lifting column

In the electronics and semiconductor manufacturing industry, electrostatic discharges can impair the function of components being assembled, or even destroy them. With the Multilift II ESD, RK Rose+Krieger has developed a patented electric height adjustment system that is able to dissipate voltages.



Special feature:

- Outer and inner profile electrically connected to each other

Ideal area of application:

- ✓ Assembly workstations for the manufacture of electronic components

Multilift II Produktlinie

Multilift II safety – turning things on their head

RK Rose+Krieger has developed this column specially for overhead applications in media technology. Its uses include the correct positioning of projectors and monitors, whereby the lifting column is mounted upside down on the ceiling.



Special feature:

- Integrated fall protection

Ideal area of application:

- ✓ Media technology



Multilift II impact – integrated damping absorbs high impact forces

The slim electric height adjustment system has an integrated damping system that is able to absorb high impact forces, such as those that occur when unloading a workpiece.



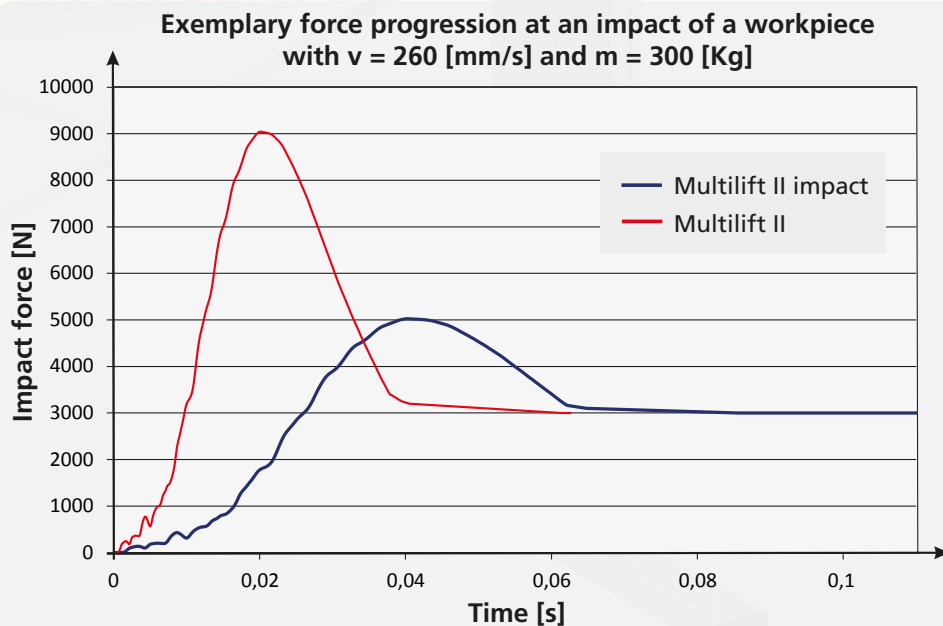
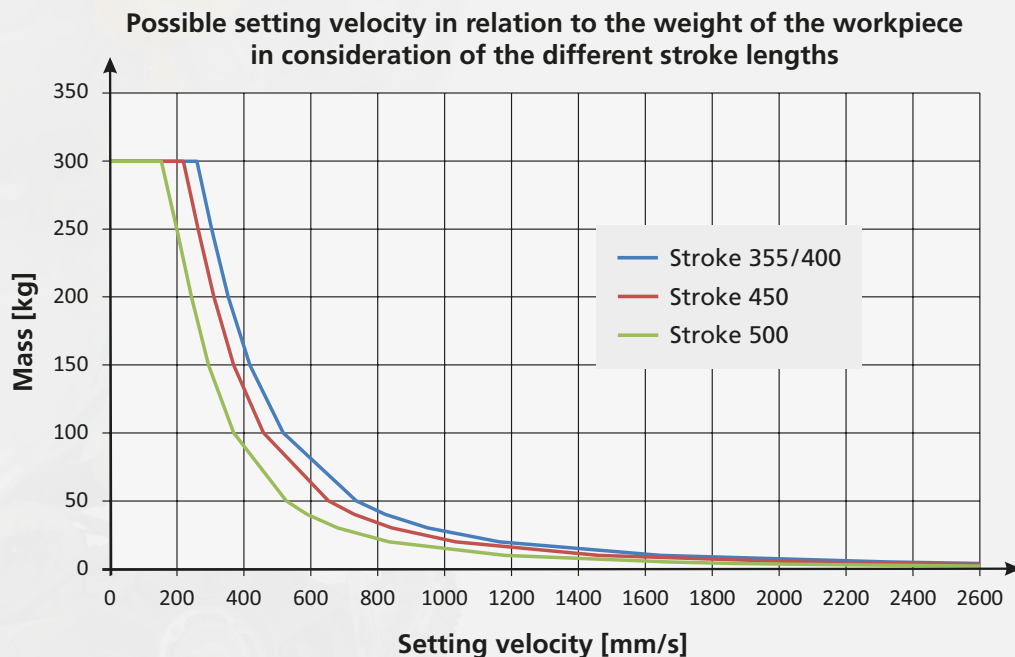
Special feature:

- Allows impact forces due to an internal damping system

Ideal areas of application:

- ✓ Workplace ergonomics
- ✓ Industrial technology



Multilift II impact

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**LINEAR-
PROFILE-
CONNECTING-
MODULE-
TECHNOLOGY**



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☒ Yes, I would like to know more about
RK linear technology, please:

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and electric cylinders catalogue

☐ send me details of your product range in PDF
format on a CD-ROM Contact me

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Company: _____

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E-mail: _____


RK ROSE+KRIEGER
A Phoenix Mecano Company

Connecting and positioning systems

RK Rose+Krieger GmbH
Postfach 15 64
32375 Minden, Germany
Telephone: +49 (0)571 93 35-0
Fax: +49 (0)571 93 35-119
E-mail: info@rk-online.de
Internet: www.rk-rose-krieger.com