

# Linear- Technology

Easy and...

**R** RENOWNED  
KNOW-HOW



**RK ROSE+KRIEGER**

A Phoenix Mecano Company



# System diversity

Guiding, adjustment, positioning or uniform motion, the requirements for linear motion operations are as numerous as the solutions. We offer you a wide spectrum of linear motion components, starting with an occasional manual movement, as well as frequent operation, through to continuous high dynamic positioning.

In order for you to preselect the most suitable range quick and easy, we have developed a system which is strictly application orientated. You can determine the most suitable size and design based on your performance requirements from within the range.

We are always here, of course, to assist you personally with your selection.

## Why try for so long...



**...when it's quicker  
with our system**

## The four steps to your product recommendation

### Step 1: The application is always the focus



- Width, length and height adjustment
- Loading and unloading, palletising, pick & place
- Numerically controlled operation tasks

### Step 2: Which product design do you want?



- Rodless style (Linear actuator)
- Rodstyle (E-cylinder, lifting column)

### Step 3: What features should the product have?



- Guide
- Drive
- Guide + drive

### Step 4: Which performance category do you require?

- Travel
- Load
- Speed
- Accuracy
- etc.

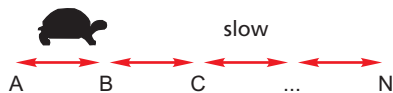
...follow our system and the terms are self explanatory.

# The RK Linear Circle



## Features:

- ✓ Manual or electric drive
- ✓ Occasional to daily multiple adjustment
- ✓ Low duty cycle
- ✓ Low speed
- ✓ Moderate to high stability



**Place-Tec**

continue on page 8

**Your appli  
is in your**

**Move-Tec**

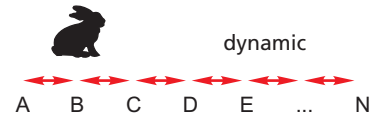
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Loading and unloading,  
palletising, pick & place

**Features:**

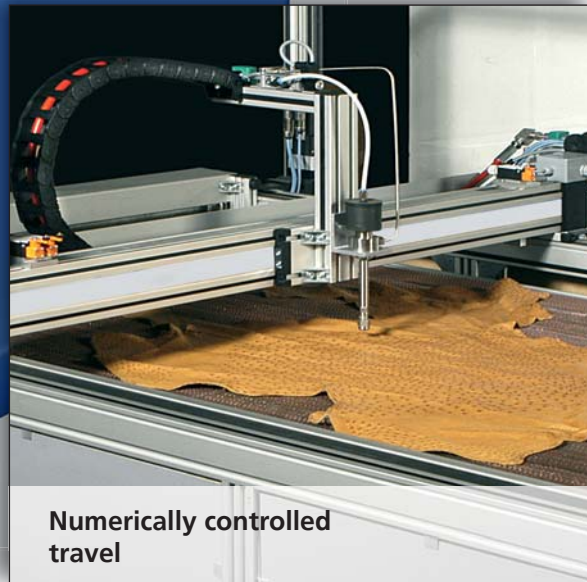
- ✓ High repeatability
- ✓ Short cycle time
- ✓ High number of cycles
- ✓ 3-shift operation
- ✓ High reliability



ation  
focus

**Control-Tec**

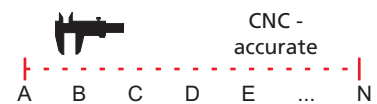
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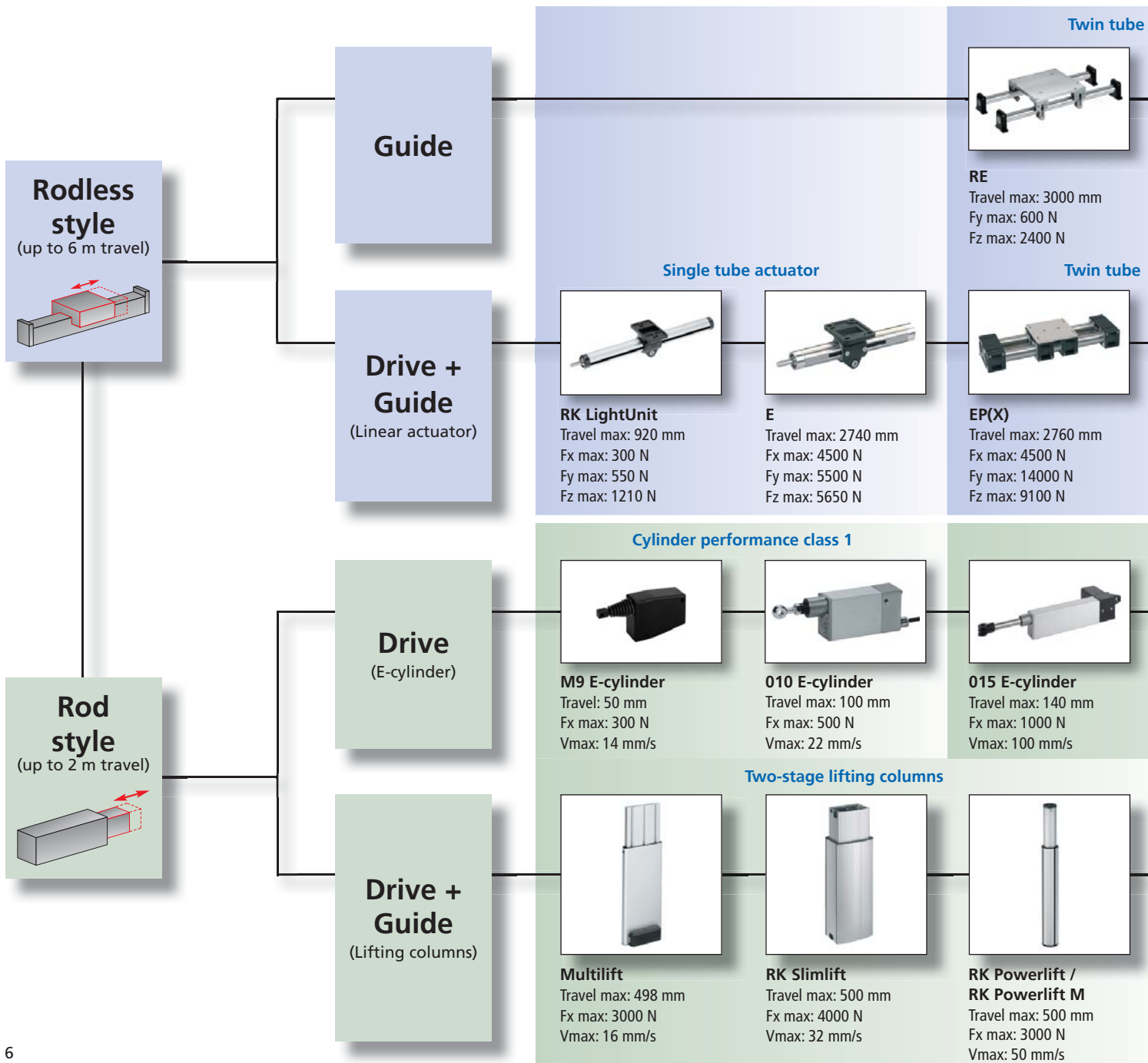
Numerically controlled  
travel

**Features:**

- ✓ High positioning accuracy
- ✓ Uniform motion
- ✓ High drive stiffness
- ✓ 3 shift operation
- ✓ IP40 protected



# Move-Tec Width, length and height adjustment



**guides**


**RC**  
 Travel max: 3898 mm  
 Fy max: 3500 N  
 Fz max: 5200 N



**PLM-G**  
 Travel max: 2935 mm  
 Fy max: 200 N  
 Fz max: 220 N



**RK Compact-G**  
 Travel max: 400 mm  
 Fy max: 1150 N  
 Fz max: 1150 N



**SQL**  
 Travel max: 5750 mm  
 Fy max: 2500 N  
 Fz max: 1500 N



**PL**  
 Travel max: 5860 mm  
 Fy max: 1150 N  
 Fz max: 1150 N



**RK DuoLine R**  
 Travel max: 5755 mm  
 Fy max: 5000 N  
 Fz max: 6000 N

**Profile guides**
**actuators**


**COPAS**  
 Travel max: 2250 mm  
 Fx max: 1600 N  
 Fy max: 3500 N  
 Fz max: 5200 N



**PLM**  
 Travel max: 855 mm  
 Fx max: 125 N  
 Fy max: 200 N  
 Fz max: 220 N



**RK Compact**  
 Travel max: 400 mm  
 Fx max: 215 N  
 Fy max: 1150 N  
 Fz max: 1150 N



**quad® EV**  
 Travel max: 4157 mm  
 Fx max: 2500 N  
 Fy max: 6000 N  
 Fz max: 6000 N



**PLS**  
 Travel max: 3000 mm  
 Fx max: 3050 N  
 Fy max: 2550 N  
 Fz max: 2550 N



**RK DuoLine S**  
 Travel max: 2984 mm  
 Fx max: 3400 N  
 Fy max: 5000 N  
 Fz max: 6000 N

**Profile actuators**
**Cylinder performance class 2**


**LAMBDA E-cylinder**  
 Travel max: 600 mm  
 Fx max: 6000 N  
 Vmax: 21 mm/s



**LZ60 E-cylinder**  
 Travel max: 600 mm  
 Fx max: 4000 N  
 Vmax: 110 mm/s



**LZ80 E-cylinder**  
 Travel max: 1000 mm  
 Fx max: 10000 N  
 Vmax: 25 mm/s



**LZ 80 TR PL E-cylinder**  
 Travel max: 1005 mm  
 Fx max: 10000 N  
 Vmax: 27 mm/s



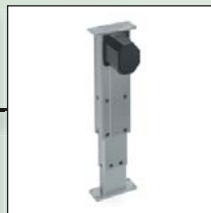
**SLZ90 E-cylinder**  
 Travel max: 2000 mm  
 Fx max: 25000 N  
 Vmax: 77 mm/s

**Heavy load cylinder**
**Multiple-stage lifting columns**


**RK Powerlift telescope**  
 Travel max: 650 mm  
 Fx max: 1600 N  
 Vmax: 30 mm/s

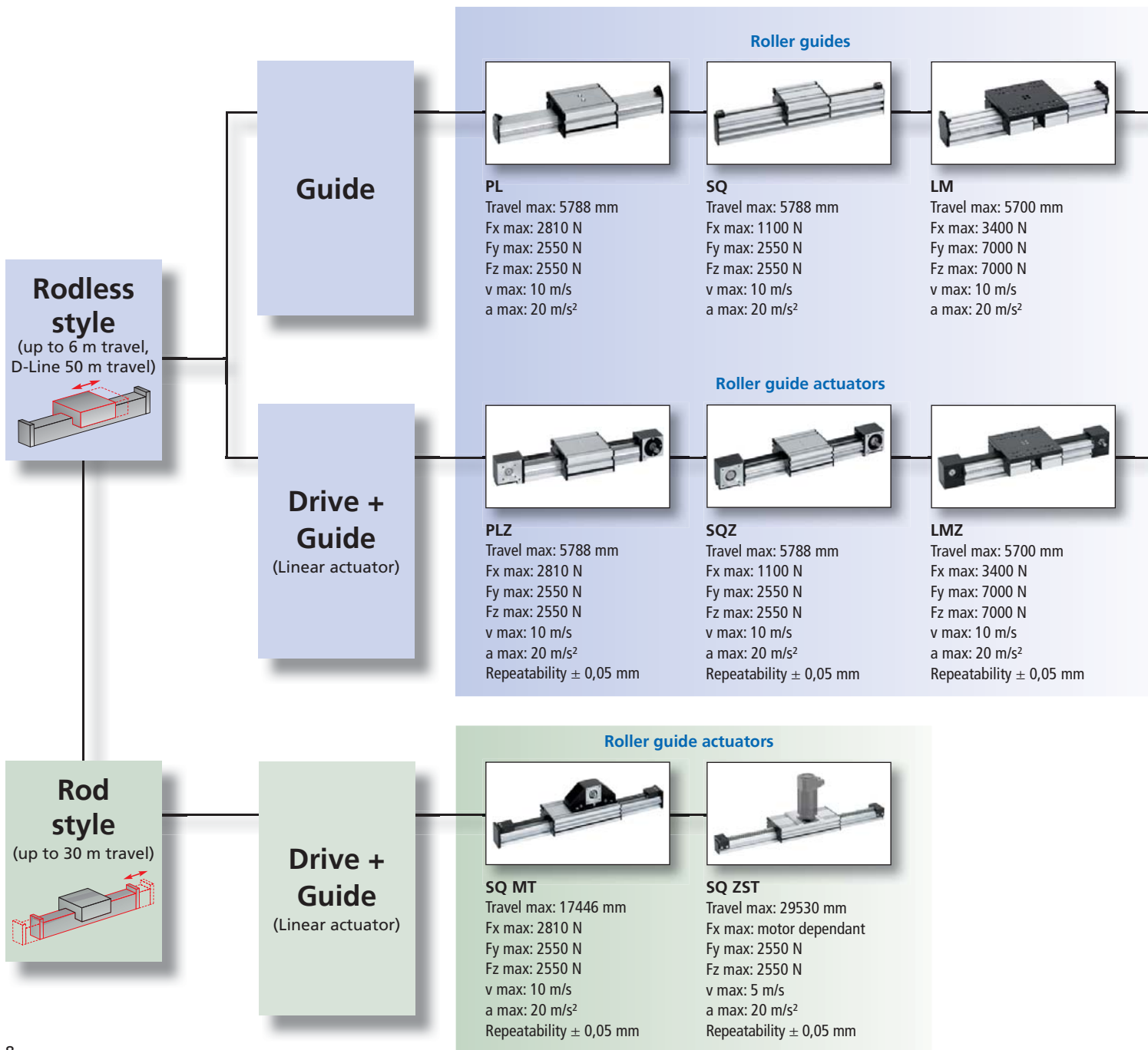


**Alpha Colonne**  
 Travel max: 700 mm  
 Fx max: 3000 N  
 Vmax: 18 mm/s



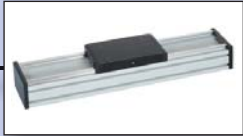
**LAMBDA Colonne**  
 Travel max: 600 mm  
 Fx max: 4500 N  
 Vmax: 20 mm/s

For detailed information, sizing, accessories, motors and controls please look in our main catalogue 'Linear components' or 'Drive Systems'.





### Ball return guides



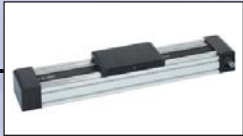
#### MultiLine R

Travel max: 5620 mm  
 Fx max: 4700 N  
 Fy max: 10000 N  
 Fz max: 10000 N  
 v max: 5 m/s  
 a max: 50 m/s<sup>2</sup>

#### RK DuoLine R

Travel max: 5750 mm  
 Fx max: 3200 N  
 Fy max: 5000 N  
 Fz max: 6000 N  
 v max: 5 m/s  
 a max: 50 m/s<sup>2</sup>

### Ball return rails actuators



#### MultiLine

Travel max: 5620 mm  
 Fx max: 4700 N  
 Fy max: 10000 N  
 Fz max: 10000 N  
 v max: 5 m/s  
 a max: 50 m/s<sup>2</sup>  
 Repeatability  $\pm 0,05$  mm

#### RK DuoLine Z

Travel max: 5750 mm  
 Fx max: 3200 N  
 Fy max: 5000 N  
 Fz max: 6000 N  
 v max: 5 m/s  
 a max: 50 m/s<sup>2</sup>  
 Repeatability  $\pm 0,05$  mm

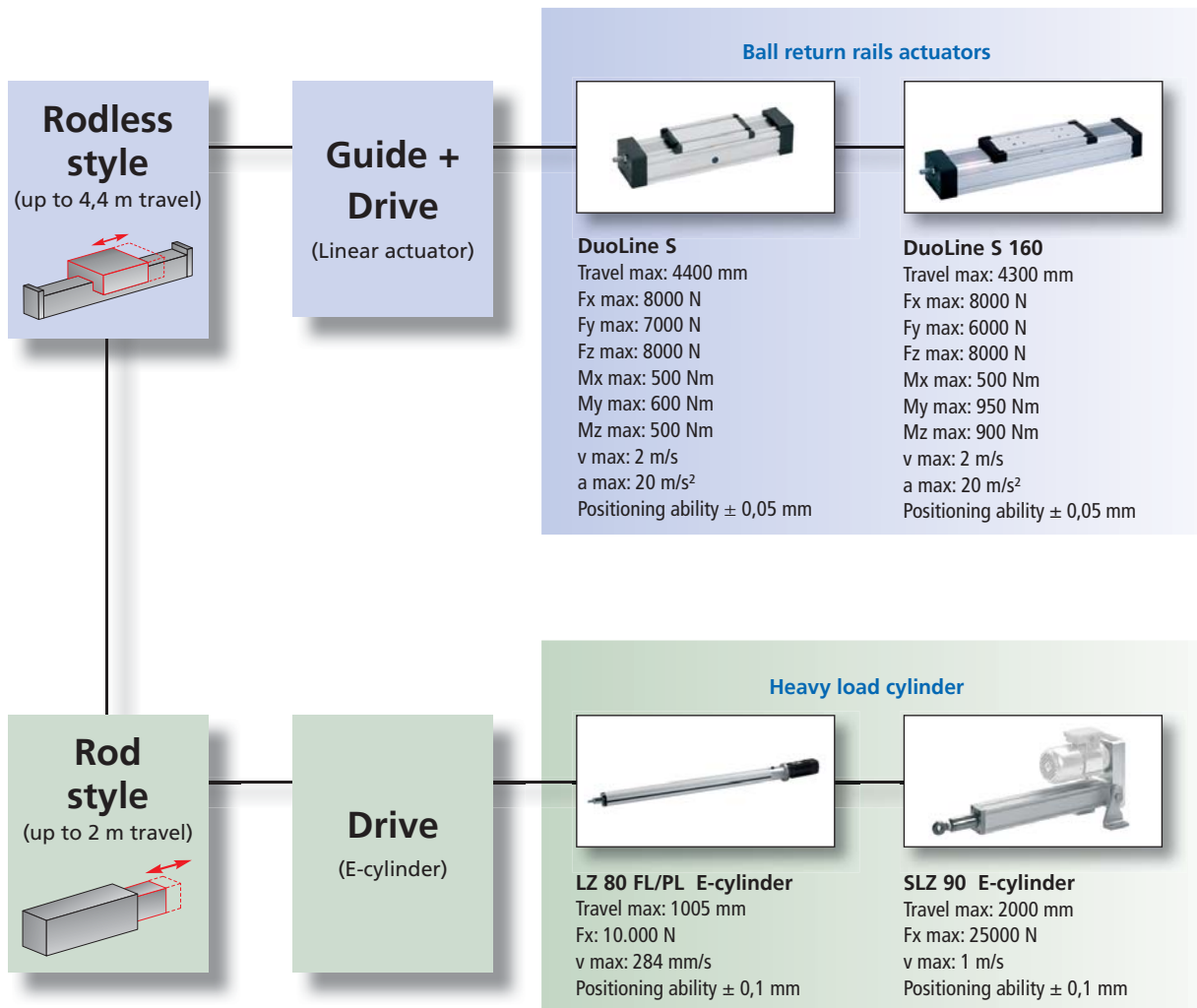
### Heavy duty actuators



#### D-Line (upon request)

Travel max: 50000 mm  
 Fx max: motor dependant N  
 Fy max: 10000 N  
 Fz max: 10000 N  
 v max: 5 m/s  
 a max: 50 m/s<sup>2</sup>  
 Repeatability  $\pm 0,1$  mm

For detailed information, sizing, accessories, motors and controls please look in our main catalogue 'Linear components'.



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## RK Rose+Krieger as service provider:

RK can look back on many years experience in the field of development and production of linear systems.

Please contact us if you require additional advice.

**Our experience...  
...is your benefit!**



Your requirement profile –  
Product advice on site



Project planning and system  
assembly by RK



Linear system in operation



## We support you:

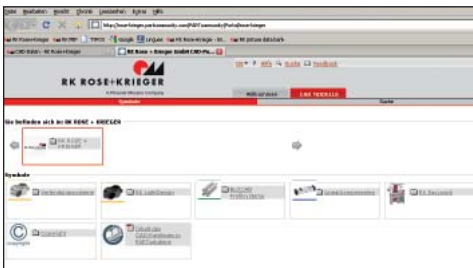
### RK-Infomobile – the exhibition at your location

Over 20 presentation boards with exhibits and functional examples, as well as many applications of drive and linear technology to give you a complete overview of RK products.

### CAD-component library (Part server)

To support your design work we offer component data free of charge in the Rose+Krieger-component library (drawings, technical descriptions).

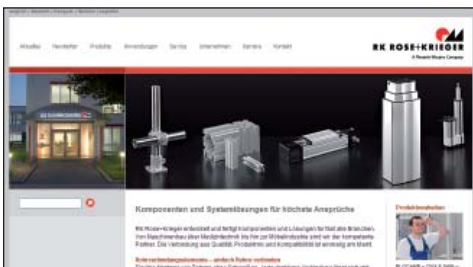
About 60 different file formats (2D/3D) can be selected here.



### RK-website

On our website you will find lots of information about our company and our products. You will also find your contact partner in your area and the latest catalogue data (in PDF format) to download.

[www.rk-rose-krieger.com](http://www.rk-rose-krieger.com)



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**LINEAR-  
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CONNECTING-  
MODULE-**

**TECHNOLOGY**



**RK ROSE+KRIEGER**

A Phoenix Mecano Company

Postfach 15 64  
D-32375 Minden  
Tel.: +49 5 71 93 35-0  
Fax: +49 5 71 93 35-119  
info@rk-online.de  
www.rk-rose-krieger.com