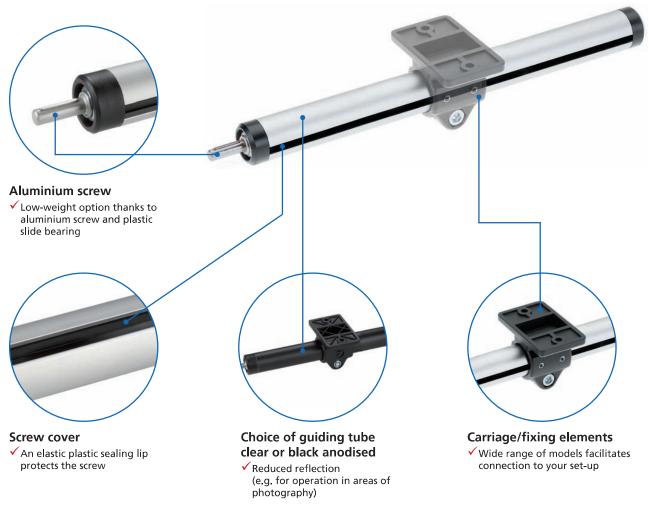
Single tube actuator - RK LightUnit

The "light option" for simple manual adjustments





Features:

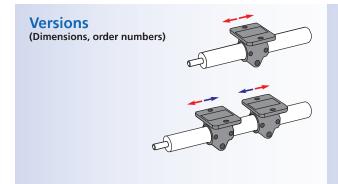
- Unit for "light" moving applications
- Low-cost manual adjustment
- For applications where the focus is on "weight reduction"
- Suitable for use in areas susceptible to corrosion

Options:

Additional non driven carriage as torque support.

RK LightUnit - Table of contents

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	Right or lefthand thread	30	- 3	•
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RK ROSE+KRIEGER

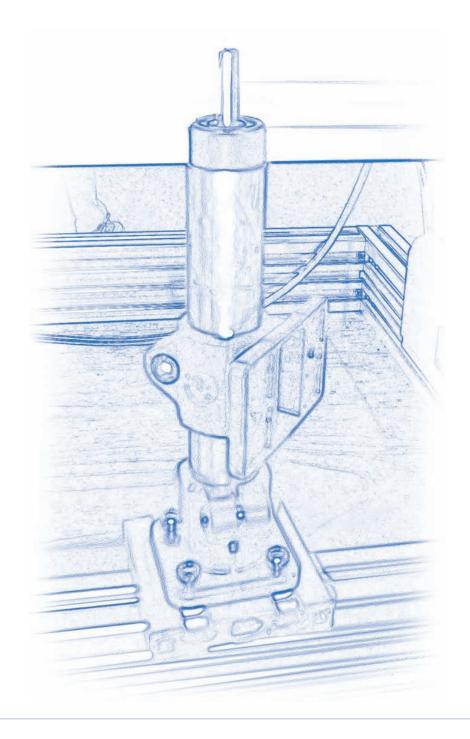
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RK Light**Unit** – **Technical data**

General information/operating conditions

Design	Actuator with aluminium ACME screw in a slotted aluminium profile
Guide	Slide guide
Installation position	Any position
Lead accuracy	± 0.3 mm/300 mm travel
Screw lead	3 mm
Self-locking	Yes
No-load torque	0.35 Nm
Ambient temperature	0°C to +60°C



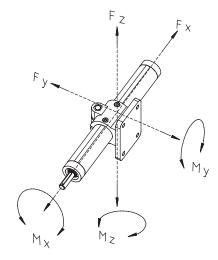
RK Light**Unit** - Technical data

Load data*

F Force [N]

M Moment [Nm]

I Geometric moment of inertia [cm⁴]



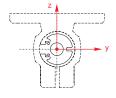
RK ROSE+KRIEGER

Туре	Fx		F	у			F	z		Mx	My	Mz
Total length [mm]		300	500	800	1000	300	500	800	1000			
Deflection [mm]		1.0	2.5	4.0	5.0	1.0	2.5	4.0	5.0			
Force	300	700	550	270	140	1390	1210	600	450	2.5	5.5	5.5

Geometric moment of inertia

[cm⁴]

Туре	ly	lz
RK LightUnit	1.90	1.88



^{*} with reference to carriage (static, resting on end elements)

RK LightUnit – Versions

Order information:

- Choice of carriage this must be ordered separately
- Standard lengths in stock! Take advantage of our fast delivery times.

Version

- Standard lengths
- Righthand thread





Standard lengths

- Total length 300, 500, 800 or 1000 mm
- Guiding tube clear or black anodised
- Righthand thread screw with a drive shaft

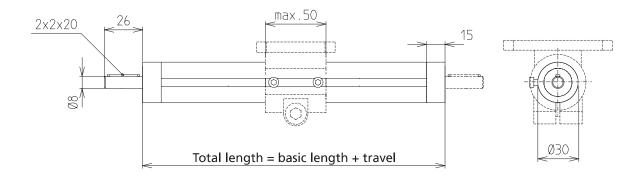
[mm]

Code No.	Туре	Screw	Travel	Total length	Mass [kg]
TFA 3000 T_030	0 30	14 x 3	220	300	0.31
TFA 3000 T_050	0 30	14 x 3	420	500	0.51
TFA 3000 T_080	0 30	14 x 3	720	800	0.81
TFA 3000 T_100	0 30	14 x 3	920	1000	1.01

Guiding tube

A = clear anodised

C = black anodised



Variable lengths

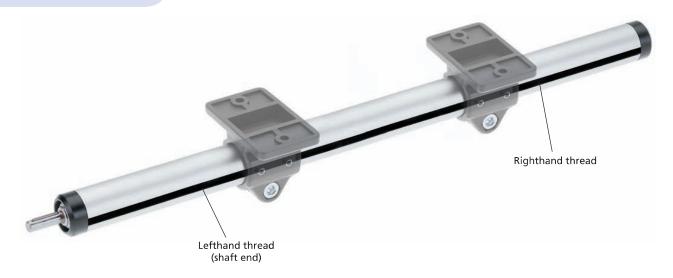
Code No.	Code No. Type		Screw Basic length		Mass [kg]	
					Basic length	per 100 mm travel
TF_ 3000	30	14 x 3	80	920	0.097	0.099
	Guidin A = cle C = bla Shafts: T = 1 s U = 2 s Screw: A = rig	g tube ear anodised ack anodised : : :haft :hafts	ic length + travel [r	nm]		

RK LightUnit – Versions

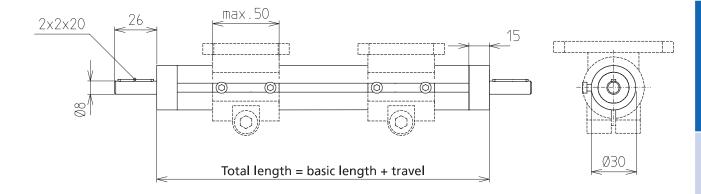
Order information:

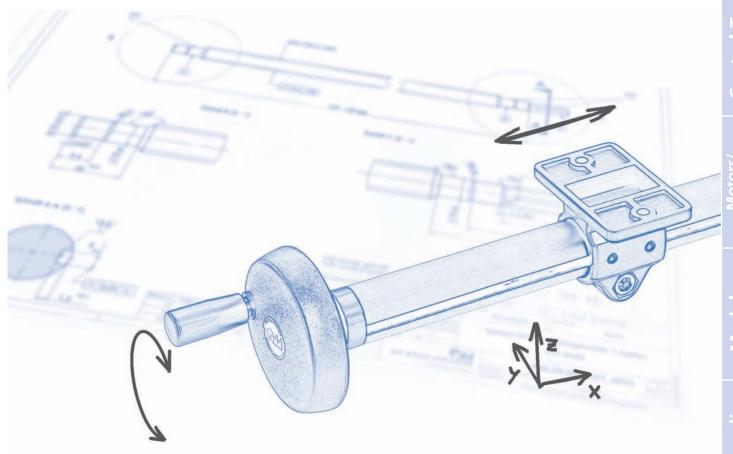
- Choice of carriage this must be ordered separately
- Please specify total travel when placing an order

Version ■ Right and lefthand thread



						נווווון
					Mas	s [kg]
Code No.	Туре	Screw Basic length Max. travel	Max. travel	Basic length	per 100 mm travel	
TFC 3000	30	14 x 3	130	870	0.113	0.099
	Sci	uiding tube = clear anodised = black anodised rew: = 1 shaft on the left	asic length + total t thand thread side hthand thread side	ravel [mm]		





RK LightUnit – Fixing

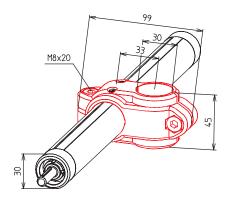
Order information:

- The carriages are fitted with screws as standard. These can be replaced with clamping levers if required. For clamping lever, please see page 39.
- Screws in stainless steel on inquiry
- Suitable reducing bushes on page 38

Carriage

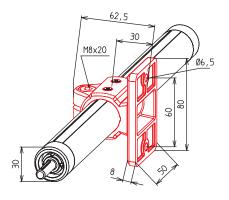
A wide range of models facilitate mounting Material: Reinforced polyamide, black; fastenings galvanised or stainless steel

K-KU



	[mm]
Code No.	Туре
13001200CSR30	K-KU 30

FK-KU



	[mm]
Code No.	Туре
13009200CS	EK-KII 30

97,50 65 RM8x20

	Į.iiii
Code No.	Туре
13007200CSR30	W-KU 30

FS-KU

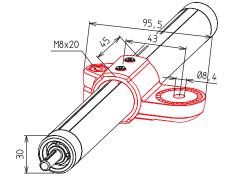
[mm]

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M8x20	6 <u> </u>	
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	Į i i i
Code No.	Туре
13011200CS	FS-KU 30

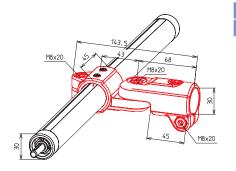
LW-KU

mml



	[IIIIII]
Code No.	Туре
13014200CS	LW-KU 30

GW-KU



Code No.	Туре
13016200CSR30	GW-KU 30

RK Light**Unit** – **Fixing**

Order information:

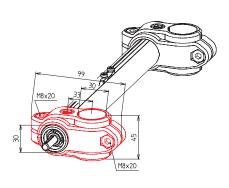
The carriages are fitted with screws as standard. These can be replaced with clamping levers if required. For clamping lever, please see page 39.

Fixing elements

- A special reducing bush system enables connection to a range of tube diameters
- A wide range of models facilitate mounting

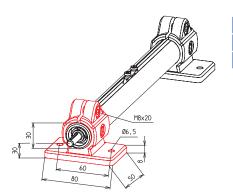
Material: Reinforced polyamide, black; fastenings galvanised or stainless steel

K-KU



		[mm]
Code No.	Туре	Package Qty
K00030ACSR30R30	K-KU 30	1
K00030BCSR30R30	K-KU 30	5

FK-KU



Code No.	Туре	Package Qty
K20030ACSR30	FK-KU 30	1
K20030BCSR30	FK-KU 30	5

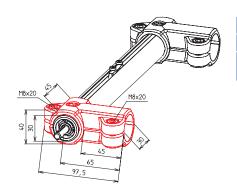
RK LightUnit - Fixing

Fixing elements

W-KU

[mm]

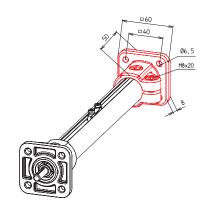
RK ROSE+KRIEGER



Code No.	Туре	Package Qty
K10030ACSR30R30	W-KU 30	1
K10030BCSR30R30	W-KU 30	5

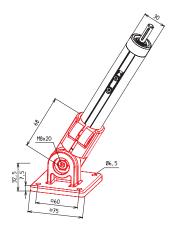
FS-KU

[mm]



Code No.	Туре	Package Qty
K30030ACSR30	FS-KU 30	1
K30030BCSR30	FS-KU 30	5

GF-KU



Code No.	Туре	Package Qty
K80230ACSR30	GF-KU 30	1
K80230BCSR30	GF-KU 30	5

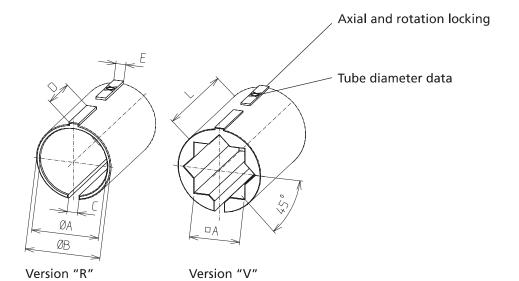
RK LightUnit – Fixing

Reducing bushes



- Simply replace the reducing bush to modify the tube diameter on carriages or fixing elements
- In the case of fixing elements, the reducing bushes are included in the scope of delivery when entering the order number and do not need to be ordered separately

Material: PA6.6 GF30



Code No.	Туре	Version	Package Qty	A + 0.1	В	С	D	E	L
96204AC	30	R20	1	20.25	30	3.5	18.9	3.4	45
96204BC	30	R20	5	20.25	30	3.5	18.9	3.4	45
96206AC	30	R25	1	25.25	30	3.5	18.9	3.4	45
96206BC	30	R25	5	25.25	30	3.5	18.9	3.4	45
96208AC	30	V20	1	20.25	30	3.5	18.9	3.4	45
96208BC	30	V20	5	20.25	30	3.5	18.9	3.4	45

RK LightUnit - Fixing

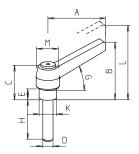
Clamping lever



For the equipping of fixing elements and carriages

Material: Handle made of PA, black

RK ROSE+KRIEGER



												fmml
Code No.	Туре	Screw	Α	В	C	D	Е	G	Н	K	L	М
902381	30	steel	65	48.5	36.5	M8	14	20°	25	13	52.5	18

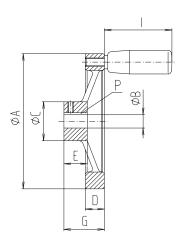
RK LightUnit – Drive

Handwheel

- Rotating cylindrical grip
- Fully turned wheel rim
- Machined hub

Material: Aluminium die cast, black powder-coated





Code No.	Туре	Α	В	С	D	Е	G	Р	I
90903	30	80	8	23	11	17	35	2 x 2	42

RK LightUnit - Position determination

Positioning indicator

- max. ambient temperature +80°C
- Figure height 6 mm
- Indicating accuracy ± 0.1 mm

Material: Housing polyamide 6

RK ROSE+KRIEGER

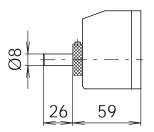
Orange RAL 2004, Steel parts, corrosion protected

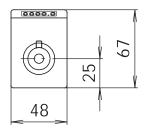
Scope of delivery: Positioning indicator, clamping ring, shaft extension and fastenings

Note: "rising" and "falling" versions refer to the clockwise rotation of the drive shaft.



Installation position: horizontal







Installation	position:	vertical

Code No.	Installation position	Version*
91043	Horizontal	3 mm rising
91053		3 mm falling
91063	Vertical	3 mm rising
91073		3 mm falling
91010	Horizontal	6 mm rising
91029		6 mm falling
91020	Vertical	6 mm rising
91019		6 mm falling

Version with double lead e.g. for installation on righthand/lefthand thread screws