

R RENOWNED
KNOW-HOW


RK ROSE+KRIEGER

A Phoenix Mecano Company

RK Selection Guides



05/2018

RK Selection Guides

Help selecting a product – a focus on your application

The comprehensive RK Rose+Krieger product portfolio provides you with multiple components for your scope of application.

With this brochure we would like to help you to select a product for your application in a simple way. If required, you will find detailed information in the respective main catalogues. If you do not find the right product or you

would like some help making a choice, our product consultants are of course available.

Starting with your application, the three RK selection guides „Linear Technology“, „Profile Technology“ and „Connecting Technology“ direct you to the right product in just a few steps.

Why try for so long...

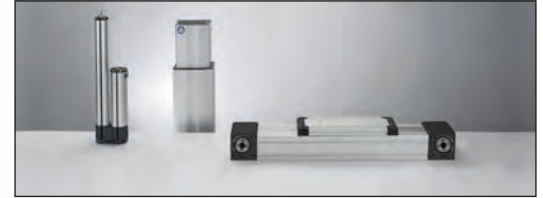


**...when it's quicker
with our system**

LINEAR TECHNOLOGY

Moving and positioning

- Linear units
- Electric cylinder
- Lifting columns



Linear Technology

PROFILE TECHNOLOGY

Combining profiles without mechanical processing!

- Structural profiles
- Functional profiles
- Heavy duty profiles



Profile Technology

CONNECTING TECHNOLOGY

Connecting precision round and square tubes reliable and stable

- Light Clamps (Plastic)
- Solid Clamps (Aluminium)
- Robust Clamps (Stainless steel)



Connecting Technology

Selection guide linear technology

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.



Linear technology ...ready-to-install components

- positioning
- lifting
- tensioning
- shifting
- moving
- and much more

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.

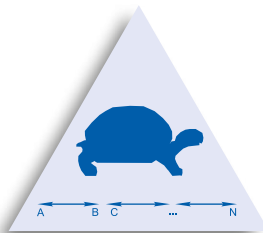
The RK Linear Circle



Width, length, height
adjustment

Features:

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



Place-Tec

continue on page10

Move-Tec

continue on page 8

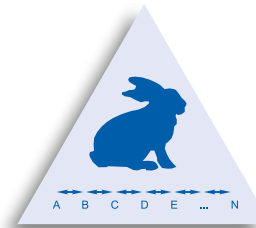
**Your appli
takes centr**



Loading and unloading,
palletising, pick & place

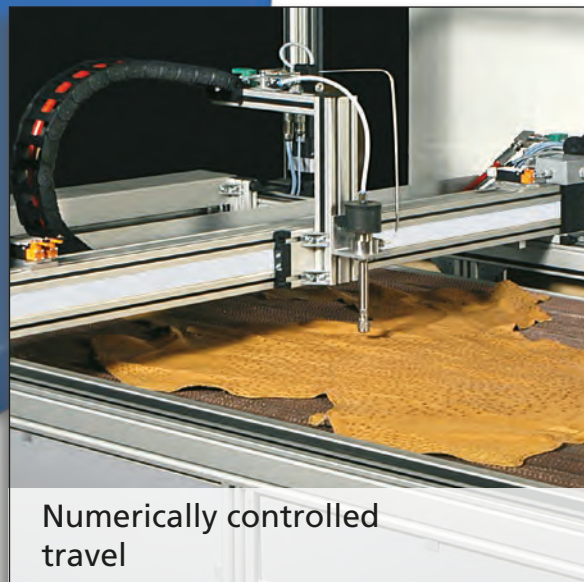
Features:

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



ation
e stage

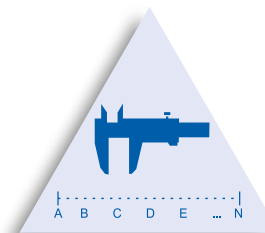
Control-Tec
continue on page 12



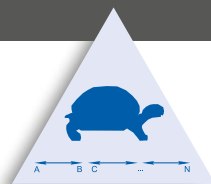
Numerically controlled
travel

Features:

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



Move-Tec Width, length and height adjustment



Rodless style
(up to 6 m travel)

Rod style
(up to 2 m travel)

Guide

Drive + Guide
(Linear actuator)

Drive
(E-cylinder)

Drive + Guide
(Lifting columns)

Single tube actuator



RK LightUnit
Travel max: 920 mm
Fx max: 300 N
Fy max: 550 N
Fz max: 1,210 N



E / E-II / E-II-stainless
Travel max: 2,740 mm
Fx max: 4,500 N
Fy max: 5,500 N
Fz max: 5,650 N

Twin tube



RE
Travel max: 3,000 mm
Fy max: 600 N
Fz max: 2,400 N

Twin tube



EP(X) / EP(X)-II
Travel max: 2760 mm
Fx max: 4,500 N
Fy max: 14,000 N
Fz max: 9,100 N

Cylinder performance class 1



M9 E-cylinder
Travel: 50 mm
Fd max: 300 N
Fz max: 300 N
Vmax: 14 mm/s



010 E-cylinder
Travel max: 100 mm
Fd max: 500 N
Fz max: 500 N
Vmax: 22 mm/s



015 E-cylinder
Travel max: 140 mm
Fd max: 1,000 N
Fz max: 1,000 N
Vmax: 100 mm/s

wo-stage



Multilift
Travel max: 498 mm
Fd max: 3,000 N
Fz max: 1,000 N
Vmax: 16 mm/s



Multilift II
Travel max: 497 mm
Fd max: 3,000 N
Fz max: 3,000 N
Vmax: 16 mm/s



RK Slimlift
Travel max: 500 mm
Fd max: 4,000 N
Fz max: 2,000 N
Vmax: 32 mm/s

guides


RC
Travel max: 2,250 mm
Fy max: 3,500 N
Fz max: 5,200 N

actuators


COPAS
Travel max: 2,250 mm
Fx max: 1,600 N
Fy max: 3,500 N
Fz max: 5,200 N

Cylinder performance class 2


LAMBDA E-cylinder
Travel max: 600 mm
Fd max: 6,000 N
Fz max: 4,000 N
Vmax: 21 mm/s

lifting columns


RK Powerlift
Travel max: 500 mm
Fd max: 3,000 N
Fz max: 1,500 N
Vmax: 50 mm/s



LZ 60 E-cylinder
Travel max: 597 mm
Fd max: 4,000 N
Fz max: 4,000 N
Vmax: 85 mm/s



RK Multilift II telescope
Travel max: 650 mm
Fd max: 1,600 N
Fz max: 800 N
Vmax: 30 mm/s



RK Compact-G
Travel max: 400 mm
Fy max: 1,150 N
Fz max: 1,150 N



RK Compact
Travel max: 400 mm
Fx max: 215 N
Fy max: 1,150 N
Fz max: 1,150 N



LZ 70 TR PL E-cylinder
Travel max: 1,000 mm
Fd max: 5,000 N
Fz max: 5,000 N
Vmax: 48 mm/s



RK Powerlift telescope
Travel max: 650 mm
Fd max: 1,600 N
Fz max: 800 N
Vmax: 30 mm/s

Profile guides

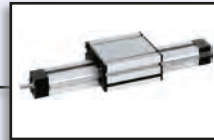

SQL
Travel max: 5,750 mm
Fy max: 2,500 N
Fz max: 1,500 N

Profile actuators


quad® EV
Travel max: 2,850 mm
Fx max: 2,500 N
Fy max: 6,000 N
Fz max: 6,000 N



PL
Travel max: 5,860 mm
Fy max: 2,550 N
Fz max: 2,550 N



PLS
Travel max: 3,000 mm
Fx max: 3,050 N
Fy max: 2,550 N
Fz max: 2,550 N



RK DuoLine R
Travel max: 7,692 mm
Fy max: 5,100 N
Fz max: 8,900 N



RK DuoLine S
Travel max: 2,984 mm
Fx max: 3,400 N
Fy max: 5,000 N
Fz max: 6,000 N

Heavy load cylinder


LZ 80 E-cylinder
Travel max: 1,005 mm
Fd max: 10,000 N
Fz max: 10,000 N
Vmax: 25 mm/s



SLZ 63 TR FL/PL E-cylinder
Travel max: 1,005 mm
Fd max: 15,000 N
Fz max: 15,000 N
Vmax: 58 mm/s



SLZ 90 E-cylinder
Travel max: 2,000 mm
Fd max: 25,000 N
Fz max: 25,000 N
Vmax: 77 mm/s

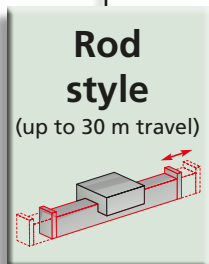
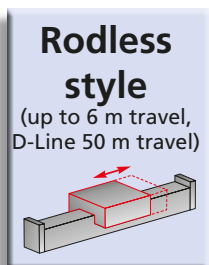
Multiple-stage lifting columns


Alpha Colonne
Travel max: 600 mm
Fd max: 3,000 N
Fz max: 3,000 N
Vmax: 18 mm/s



LAMBDA Colonne
Travel max: 600 mm
Fd max: 4,500 N
Fz max: 4,500 N
Vmax: 20 mm/s

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



Guide

Drive + Guide
(Linear actuator)

Drive + Guide
(Linear actuator)



PL
Travel max: 5,860 mm
Fy max: 2,550 N
Fz max: 2,550 N
v max: 10 m/s
a max: 20 m/s²



SQ
Travel max: 5,850 mm
Fy max: 2,550 N
Fz max: 2,550 N
v max: 10 m/s
a max: 20 m/s²



RK MonoLine
Travel max: 5,780 mm
Fy max: 4,367 N
Fz max: 2,509 N
v max: 10 m/s
a max: 20 m/s²

Roller guides



PLZ
Travel max: 5,808 mm
Fx max: 2,810 N
Fy max: 2,550 N
Fz max: 2,550 N
v max: 10 m/s
a max: 20 m/s²
Repeatability $\pm 0,05$ mm



SQZ
Travel max: 5,898 mm
Fx max: 2,810 N
Fy max: 2,550 N
Fz max: 2,550 N
v max: 10 m/s
a max: 20 m/s²
Repeatability $\pm 0,05$ mm



RK MonoLine
Travel max: 5,780 mm
Fx max: 4,800 N
Fy max: 9,400 N
Fz max: 5,200 N
v max: 10 m/s
a max: 20 m/s²
Repeatability $\pm 0,05$ mm

Roller guide actuators



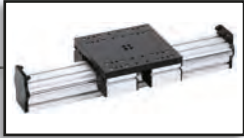
SQ MT
Travel max: 17,446 mm
Fx max: 2,810 N
Fy max: 2,550 N
Fz max: 2,550 N
v max: 10 m/s
a max: 20 m/s²
Repeatability $\pm 0,05$ mm



SQ ZST
Travel max: 29,530 mm
Fx max: 1,132 N
Fy max: 2,550 N
Fz max: 2,550 N
v max: 5 m/s
a max: 20 m/s²
Repeatability $\pm 0,05$ mm

Roller guide actuators

Ball return guides



LM

Travel max: 5,670 mm
 Fy max: 7,000 N
 Fz max: 7,000 N
 v max: 10 m/s
 a max: 20 m/s²



MultiLine R

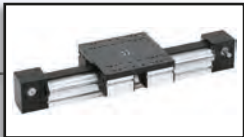
Travel max: 5,620 mm
 Fy max: 8,200 N
 Fz max: 12,000 N
 v max: 5 m/s
 a max: 50 m/s²



RK DuoLine R

Travel max: 7,692 mm
 Fy max: 5,100 N
 Fz max: 8,900 N
 v max: 5 m/s
 a max: 50 m/s²

Ball return rails actuators



LMZ

Travel max: 5,700 mm
 Fx max: 3,400 N
 Fy max: 7,000 N
 Fz max: 7,000 N
 v max: 10 m/s
 a max: 20 m/s²
 Repeatability $\pm 0,05$ mm



MultiLine

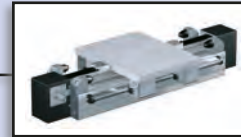
Travel max: 5,620 mm
 Fx max: 4,700 N
 Fy max: 8,200 N
 Fz max: 12,000 N
 v max: 5 m/s
 a max: 50 m/s²
 Repeatability $\pm 0,05$ mm



RK DuoLine Z

Travel max: 9,010 mm
 Fx max: 6,000 N
 Fy max: 5,100 N
 Fz max: 8,900 N
 v max: 5 m/s
 a max: 50 m/s²
 Repeatability $\pm 0,05$ mm

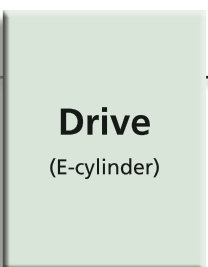
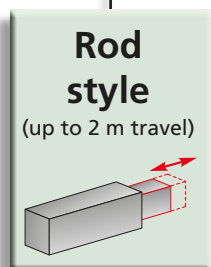
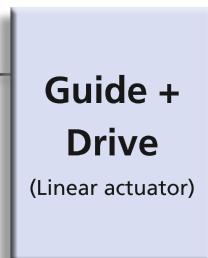
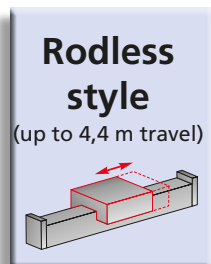
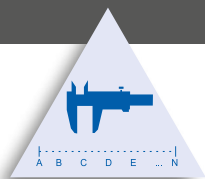
Heavy duty actuators



D-Line (on request)

Travel max: 50,000 mm
 Fx max: 4,700 N
 Fy max: 10,000 N
 Fz max: 10,000 N
 v max: 5 m/s
 a max: 50 m/s²
 Repeatability $\pm 0,1$ mm

For detailed information,
 sizing, accessories,
 motors and controls
 please look in
 our main catalogue
 „Linear Technology“



Ball return guides



RK DuoLine R
Travel max: 7,692 mm
Fy max: 5,100 N
Fz max: 8,900 N
v max: 5 m/s
a max: 50 m/s²

Ball return rails actuators



DuoLine S
Travel max: 4,440 mm
Fx max: 8,000 N
Fy max: 5,100 N
Fz max: 8,900 N
Mx max: 500 Nm
My max: 1,200 Nm
Mz max: 1,150 Nm
v max: 2.5 m/s
a max: 20 m/s²
Positioning ability $\pm 0,05$ mm

Heavy load cylinder



LZ 70 FL/PL E-cylinder
Travel max: 1,000 mm
Fd max: 5,000 N
Fz max: 5,000 N
v max: 1.000 mm/s
Positioning accuracy $\pm 0,05$ mm



SLZ 63 KG FL/PL E-cylinder
Travel max: 1,000 mm
Fd max: 10,000 N
Fz max: 10,000 N
v max: 1,250 mm/s
Positioning accuracy $\pm 0,05$ mm



SLZ 90 E-cylinder
Travel max: 1.900 mm
Fd max: 25,000 N
Fz max: 25,000 N
v max: 933 mm/s
Positioning accuracy $\pm 0,1$ mm

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

Application example: sorting machine of empties



Linear Technology

Profile Technology

Connecting Technology

Selection guide profile technology

What matters is not only the profile, it is also the connection between the profiles. Years of application experience have resulted in an industrial aluminium profile system which can meet almost any requirements. Unlimited creativity combined with the highest levels of flexibility and proven reliability offers you multiple possible solutions to your requirements.

Benefit from all the advantages, especially connection without machining being required. The success of a system is the sum of its parts, based on strong individual parts.

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 within the range.

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

Save the drilling...



...there's no need for!



The three steps to your product recommendation

Step 1: The application always takes centre stage



- Stable versatile structures
- Additional visual and functional benefit
- Heavy duty with highest stability

Step 2: Which dimension do you need?



- Stability
- Section modulus
- Mass optimization

Step 3: Which function do you need?

- Configuration (square, rectangular, rounded, angular)
- Number of slots
- Easy assembling
- Additional functions: visible design or frame profiles

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

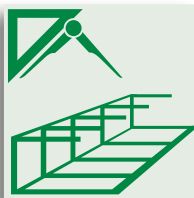
The RK Profile Circle



Stable versatile structures

Features:

- ✓ Fixing slots on all sides
- ✓ Unlimited applications
- ✓ Minimized design effort
- ✓ Cost optimisation



**Structural
Profiles**

continue on page 18

**Your appli
takes centr**

Functional Profiles

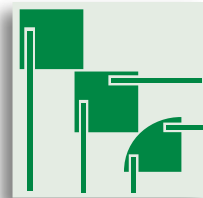
continue on page 20



Additional visual and functional benefit

Features:

- ✓ Attractive design
- ✓ Many additional functions
- ✓ Flexible



Linear Technology

ation
e stage

Heavy Duty Profiles

continue on page 22



Heavy duty with highest stability

Features:

- ✓ High dynamic
- ✓ Large structures
- ✓ Easy transportable



Connecting Technology

Structural Profiles

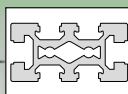
Stable versatile structures



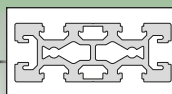
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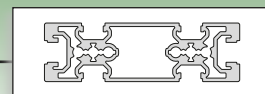
F-30x30
 $W_x = 2,2 \text{ cm}^3$
 $W_y = 2,2 \text{ cm}^3$



F-30x60
 $W_x = 5,3 \text{ cm}^3$
 $W_y = 9,9 \text{ cm}^3$



F-30x80
 $W_x = 7,0 \text{ cm}^3$
 $W_y = 16,9 \text{ cm}^3$

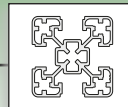


F-30x100
 $W_x = 6,5 \text{ cm}^3$
 $W_y = 20,0 \text{ cm}^3$

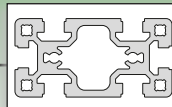
Size 40



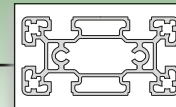
F-40x40
 $W_x = 5,5 \text{ cm}^3$
 $W_y = 5,5 \text{ cm}^3$



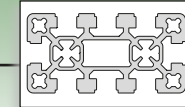
F-40x40-L
 $W_x = 3,6 \text{ cm}^3$
 $W_y = 3,6 \text{ cm}^3$



F-40x80
 $W_x = 11,3 \text{ cm}^3$
 $W_y = 22,2 \text{ cm}^3$

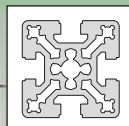


F-40x80-L
 $W_x = 7,4 \text{ cm}^3$
 $W_y = 15,7 \text{ cm}^3$

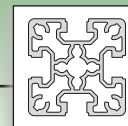


F-40x80/3
 $W_x = 10,0 \text{ cm}^3$
 $W_y = 19,7 \text{ cm}^3$

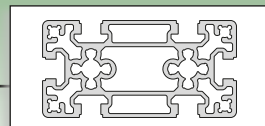
Size 50



F-50x50
 $W_x = 11,6 \text{ cm}^3$
 $W_y = 11,6 \text{ cm}^3$

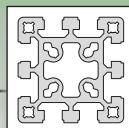


F-50x50-L
 $W_x = 9,0 \text{ cm}^3$
 $W_y = 9,0 \text{ cm}^3$

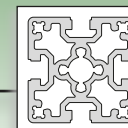


F-50x100
 $W_x = 17,6 \text{ cm}^3$
 $W_y = 36,1 \text{ cm}^3$

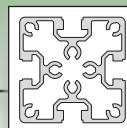
Size 60



F-60x60
 $W_x = 17,1 \text{ cm}^3$
 $W_y = 17,1 \text{ cm}^3$

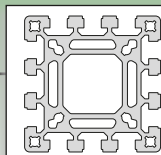


F-60x60/1
 $W_x = 18,1 \text{ cm}^3$
 $W_y = 18,1 \text{ cm}^3$

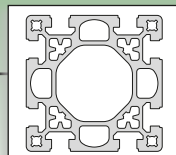


F-60x60-L
 $W_x = 14,1 \text{ cm}^3$
 $W_y = 14,2 \text{ cm}^3$

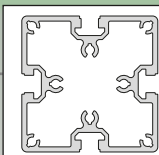
Size 80



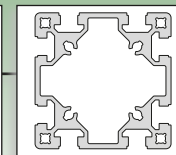
F-80x80
 $W_x = 38,8 \text{ cm}^3$
 $W_y = 38,8 \text{ cm}^3$



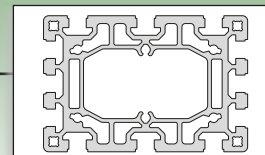
F-80x80/2
 $W_x = 38,4 \text{ cm}^3$
 $W_y = 38,4 \text{ cm}^3$



F-80x80-L
 $W_x = 28,8 \text{ cm}^3$
 $W_y = 28,8 \text{ cm}^3$

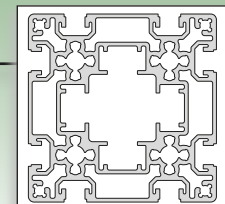


F-80x80/2-L
 $W_x = 36,1 \text{ cm}^3$
 $W_y = 36,1 \text{ cm}^3$



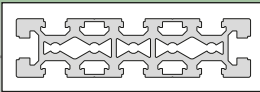
F-80x120
 $W_x = 60,6 \text{ cm}^3$
 $W_y = 83,5 \text{ cm}^3$

Size
100/120

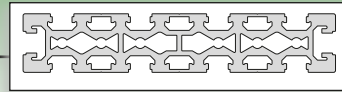


F-100x100
 $W_x = 60,8 \text{ cm}^3$
 $W_y = 60,8 \text{ cm}^3$

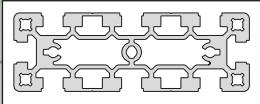
Structural profiles



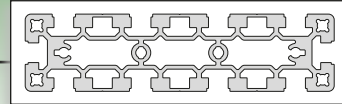
F-30x120
 $W_x = 10,2 \text{ cm}^3$
 $W_y = 36,6 \text{ cm}^3$



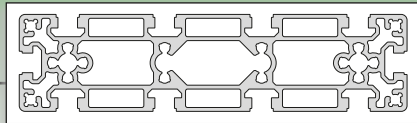
F-30x160
 $W_x = 13,3 \text{ cm}^3$
 $W_y = 64,1 \text{ cm}^3$



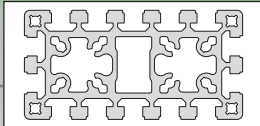
F-40x120
 $W_x = 14,7 \text{ cm}^3$
 $W_y = 42,2 \text{ cm}^3$



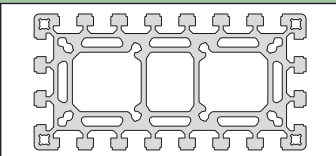
F-40x160
 $W_x = 19,9 \text{ cm}^3$
 $W_y = 72,4 \text{ cm}^3$



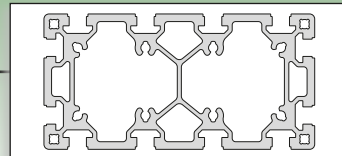
F-50x200
 $W_x = 32,1 \text{ cm}^3$
 $W_y = 122,4 \text{ cm}^3$



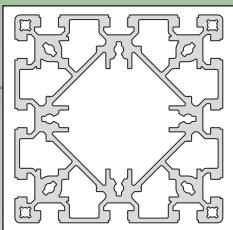
F-60x120
 $W_x = 31,5 \text{ cm}^3$
 $W_y = 62,0 \text{ cm}^3$



F-80x160
 $W_x = 77,4 \text{ cm}^3$
 $W_y = 140,9 \text{ cm}^3$



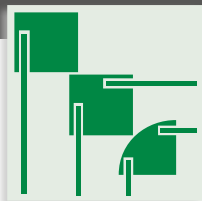
F-80x160-L
 $W_x = 72,8 \text{ cm}^3$
 $W_y = 128,1 \text{ cm}^3$



F-120x120
 $W_x = 110,8 \text{ cm}^3$
 $W_y = 110,8 \text{ cm}^3$

For detailed information,
 sizing and accessories,
 please have a look in our main
 catalogue Profile Technology **BLOCAN®**

Functional Profiles Additional visual and functional benefit

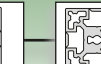


Visible design profiles

Size 30

								
F-G 30x30 $W_x = 2,1 \text{ cm}^3$ $W_y = 2,1 \text{ cm}^3$	F-GG 30x30 $W_x = 2,1 \text{ cm}^3$ $W_y = 2,1 \text{ cm}^3$	F-2G 30x30 $W_x = 2,2 \text{ cm}^3$ $W_y = 2,4 \text{ cm}^3$	F-3G 30x30 $W_x = 2,2 \text{ cm}^3$ $W_y = 2,4 \text{ cm}^3$	W 30-30° $W_x = 1,5 \text{ cm}^3$ $W_y = 1,8 \text{ cm}^3$	W 30-45° $W_x = 1,4 \text{ cm}^3$ $W_y = 1,7 \text{ cm}^3$	W 30-60° $W_x = 1,8 \text{ cm}^3$ $W_y = 1,9 \text{ cm}^3$	W 30-90° $W_x = 2,9 \text{ cm}^3$ $W_y = 2,9 \text{ cm}^3$	F-R 30 $W_x = 1,2 \text{ cm}^3$ $W_y = 1,2 \text{ cm}^3$

Size 40

							
F-G 40x40 $W_x = 4,8 \text{ cm}^3$ $W_y = 4,9 \text{ cm}^3$	F-GG 40x40 $W_x = 4,8 \text{ cm}^3$ $W_y = 4,8 \text{ cm}^3$	F-2G 40x40 $W_x = 4,6 \text{ cm}^3$ $W_y = 4,7 \text{ cm}^3$	F-3G 40x40 $W_x = 4,8 \text{ cm}^3$ $W_y = 4,9 \text{ cm}^3$	F-G 40x80 $W_x = 10,4 \text{ cm}^3$ $W_y = 20,6 \text{ cm}^3$	F-GG 40x80 $W_x = 10,7 \text{ cm}^3$ $W_y = 22,0 \text{ cm}^3$	G-40x40 $W_x = 5,2 \text{ cm}^3$ $W_y = 5,2 \text{ cm}^3$	G-40x80 $W_x = 9,3 \text{ cm}^3$ $W_y = 19,6 \text{ cm}^3$

			
W 40-30 $W_x = 3,7 \text{ cm}^3$ $W_y = 4,2 \text{ cm}^3$	W 40-45 $W_x = 3,4 \text{ cm}^3$ $W_y = 4,2 \text{ cm}^3$	W 40-60 $W_x = 4,2 \text{ cm}^3$ $W_y = 4,6 \text{ cm}^3$	W 40-90 $W_x = 7,4 \text{ cm}^3$ $W_y = 7,4 \text{ cm}^3$

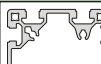
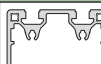
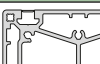
Size 50

				
F-G 50x50 $W_x = 8,6 \text{ cm}^3$ $W_y = 8,9 \text{ cm}^3$	F-GG 50x50 $W_x = 8,4 \text{ cm}^3$ $W_y = 8,7 \text{ cm}^3$	F-2G 50x50 $W_x = 8,3 \text{ cm}^3$ $W_y = 8,7 \text{ cm}^3$	F-3G 50x50 $W_x = 9,0 \text{ cm}^3$ $W_y = 9,1 \text{ cm}^3$	SP-50x50 $W_x = 8,2 \text{ cm}^3$ $W_y = 8,3 \text{ cm}^3$

Size 60

			
F-G 60x60 $W_x = 12,6 \text{ cm}^3$ $W_y = 12,7 \text{ cm}^3$	F-GG 60x60 $W_x = 12,5 \text{ cm}^3$ $W_y = 12,8 \text{ cm}^3$	F-2G 60x60 $W_x = 12,1 \text{ cm}^3$ $W_y = 13,0 \text{ cm}^3$	F-3G 60x60 $W_x = 11,9 \text{ cm}^3$ $W_y = 13,7 \text{ cm}^3$

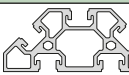
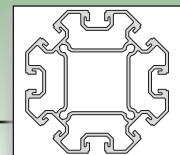
Size 80

			
F-G 80x80 $W_x = 34,8 \text{ cm}^3$ $W_y = 33,0 \text{ cm}^3$	F-GG 80x80 $W_x = 34,1 \text{ cm}^3$ $W_y = 34,1 \text{ cm}^3$	F-2G 80x80 $W_x = 33,3 \text{ cm}^3$ $W_y = 35,0 \text{ cm}^3$	F-3G 80x120A $W_x = 52,8 \text{ cm}^3$ $W_y = 77,9 \text{ cm}^3$

Frame profiles

Size 30								
	KL-30x30-3 $W_i = 1,5 \text{ cm}^3$ $W_f = 1,8 \text{ cm}^3$	KLD 30x40 $W_i = 2,7 \text{ cm}^3$ $W_f = 2,5 \text{ cm}^3$	KLE-30x30 $W_i = 2,0 \text{ cm}^3$ $W_f = 2,0 \text{ cm}^3$	KLW 30x15 $W_i = 1,4 \text{ cm}^3$ $W_f = 1,9 \text{ cm}^3$	KLW 30x30 $W_i = 3,1 \text{ cm}^3$ $W_f = 4,4 \text{ cm}^3$	KLW 30x45 $W_i = 1,2 \text{ cm}^3$ $W_f = 1,8 \text{ cm}^3$	KLW 30x60 $W_i = 1,7 \text{ cm}^3$ $W_f = 1,5 \text{ cm}^3$	KLW 30x90 $W_i = 2,7 \text{ cm}^3$ $W_f = 4,1 \text{ cm}^3$
								
Size 40								
	KL-40x40-3 $W_i = 3,5 \text{ cm}^3$ $W_f = 4,1 \text{ cm}^3$	KLD-40x40 $W_i = 4,1 \text{ cm}^3$ $W_f = 5,5 \text{ cm}^3$	KLE-40x40 $W_i = 4,6 \text{ cm}^3$ $W_f = 4,6 \text{ cm}^3$	KLW 40x15 $W_i = 1,1 \text{ cm}^3$ $W_f = 1,7 \text{ cm}^3$	KLW 40x30 $W_i = 2,6 \text{ cm}^3$ $W_f = 3,9 \text{ cm}^3$	KLW 40x45 $W_i = 2,4 \text{ cm}^3$ $W_f = 2,4 \text{ cm}^3$	KLW 40x60 $W_i = 3,8 \text{ cm}^3$ $W_f = 3,3 \text{ cm}^3$	KLW 40x90 $W_i = 5,8 \text{ cm}^3$ $W_f = 5,8 \text{ cm}^3$
								
Size 40	ESP 40 $W_i = 2,7 \text{ cm}^3$ $W_f = 3,5 \text{ cm}^3$	ESP 40/2 $W_i = 3,0 \text{ cm}^3$ $W_f = 3,6 \text{ cm}^3$						
								
			STP 40 $W_i = 9,7 \text{ cm}^3$ $W_f = 6,1 \text{ cm}^3$					

Special profiles

Size 15								
	15x40 $W_i = 1,3 \text{ cm}^3$ $W_f = 3,3 \text{ cm}^3$	15x60 $W_i = 1,9 \text{ cm}^3$ $W_f = 7,0 \text{ cm}^3$	15x80 $W_i = 2,5 \text{ cm}^3$ $W_f = 11,9 \text{ cm}^3$	15x120 $W_i = 3,6 \text{ cm}^3$ $W_f = 25,8 \text{ cm}^3$	15x160 $W_i = 4,8 \text{ cm}^3$ $W_f = 44,9 \text{ cm}^3$			
Size 20								
	F-20x20 $W_i = 0,8 \text{ cm}^3$ $W_f = 0,8 \text{ cm}^3$	F-20x40 $W_i = 1,3 \text{ cm}^3$ $W_f = 2,7 \text{ cm}^3$	F-R 20 $W_i = 0,6 \text{ cm}^3$ $W_f = 0,5 \text{ cm}^3$	F-G 20x20 $W_i = 0,8 \text{ cm}^3$ $W_f = 0,7 \text{ cm}^3$	F-GG 20x20 $W_i = 0,7 \text{ cm}^3$ $W_f = 0,7 \text{ cm}^3$	KL 20x20 $W_i = 0,8 \text{ cm}^3$ $W_f = 0,8 \text{ cm}^3$	KLD 20x40 $W_i = 0,7 \text{ cm}^3$ $W_f = 0,8 \text{ cm}^3$	KLE 20x20 $W_i = 0,6 \text{ cm}^3$ $W_f = 0,7 \text{ cm}^3$
Size 40								
	2x40 $W_i = 7,9 \text{ cm}^3$ $W_f = 11,3 \text{ cm}^3$	3x40 $W_i = 8,8 \text{ cm}^3$ $W_f = 14,1 \text{ cm}^3$	8x40 $W_i = 27,6 \text{ cm}^3$ $W_f = 27,6 \text{ cm}^3$					

For detailed information, sizing and accessories, please have a look in our main catalogue

Profile Technology **BI O CAN**

For detailed information, sizing and accessories, please have a look in our main catalogue
Profile Technology BLOCAN®

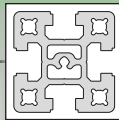
Heavy Duty Profiles

Heavy duty with highest stability



Heavy duty profiles

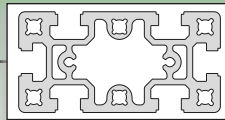
Size 80



D-80x80

$W_x = 49,6 \text{ cm}^3$

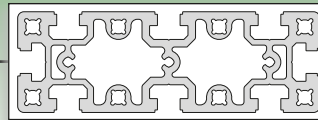
$W_y = 49,8 \text{ cm}^3$



D-80x160

$W_x = 91,6 \text{ cm}^3$

$W_y = 174,6 \text{ cm}^3$

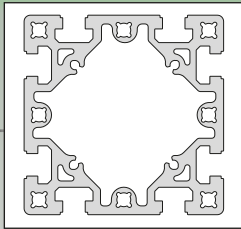


D-80x240

$W_x = 135,2 \text{ cm}^3$

$W_y = 355,7 \text{ cm}^3$

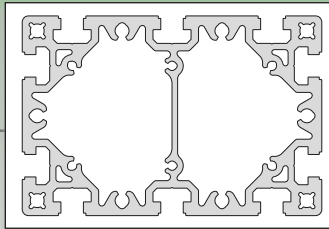
Size 160



D-160x160

$W_x = 311,7 \text{ cm}^3$

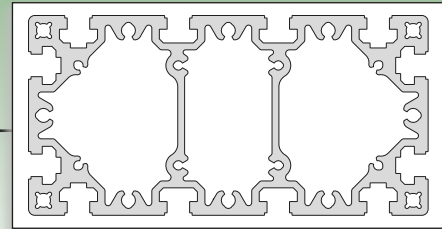
$W_y = 311,7 \text{ cm}^3$



D-160x240

$W_x = 450,2 \text{ cm}^3$

$W_y = 611,1 \text{ cm}^3$



D-160x320

$W_x = 582,0 \text{ cm}^3$

$W_y = 976,1 \text{ cm}^3$

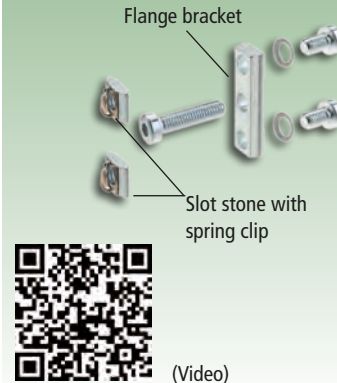
Profile connection types

Over the years RK Rose+Krieger has developed a number of profile variants. Corresponding connection types are available according to the type of profile and application.

Flange bracket for structural / functional profiles

Features:

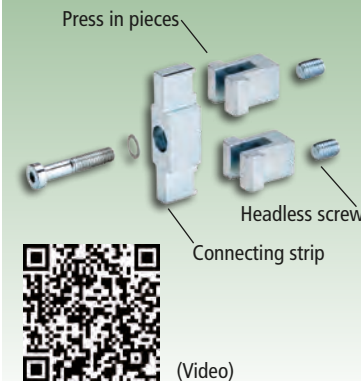
- ✓ Machining of profiles is not necessary
 - no additional costs, no shavings
- ✓ Supplementary moving,
 - displacement of mounting position is possible
 - adjustable during assembly
- ✓ Minimum preparation effort
 - order and install
- ✓ Compatible with other RK Products



Press mount connector for heavy duty profiles

Features:

- ✓ Economical connecting types
 - low installation costs
- ✓ Additional machining of profile is not necessary
- ✓ Dynamic, highly loadable screw connection
 - releasable at any time



Corner joint and special joint for functional profiles

For detailed information, sizing and accessories, please have a look in our main catalogue Profile Technology **BLOCAN®**

Safety Guards

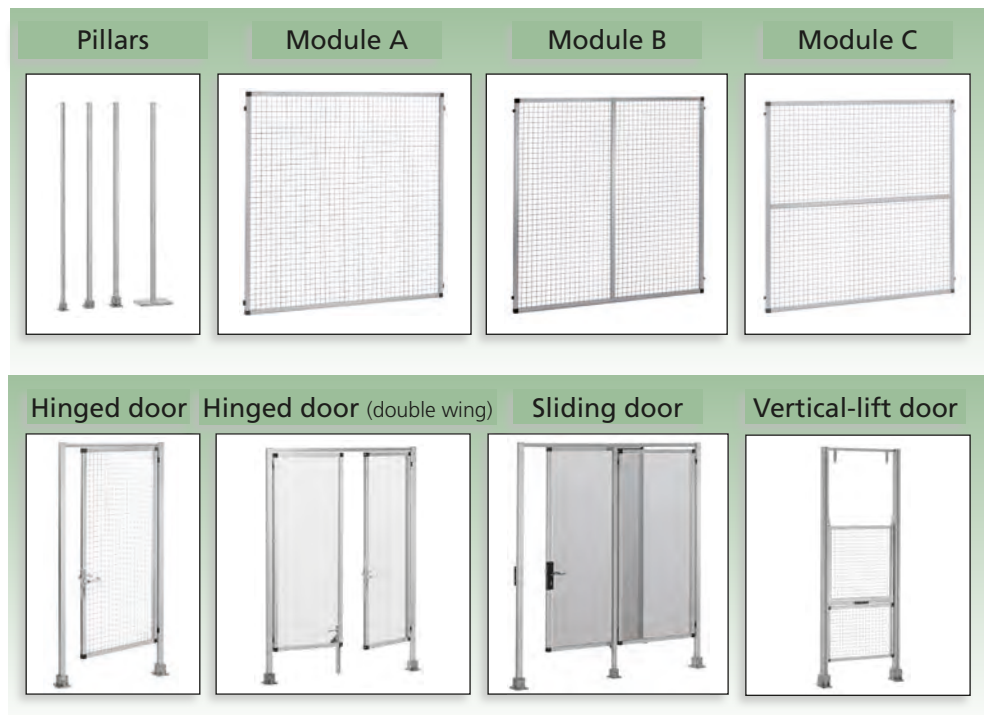
Features:

- ✓ Sturdy protection system in aluminium design
- ✓ Minimum of designing efforts thanks to standard modules
- ✓ Assembly with no need for machining
- ✓ Clamping profiles can receive the most different surface elements
- ✓ Smooth, easy-care outer surface, attractive design
- ✓ Extensive accessory programme
- ✓ Conform to the new European Machinery Directive 2006/42/EC
- ✓ Upon request we supply safety guards in accordance with standard DIN EN ISO 14120, protection against mechanical danger.



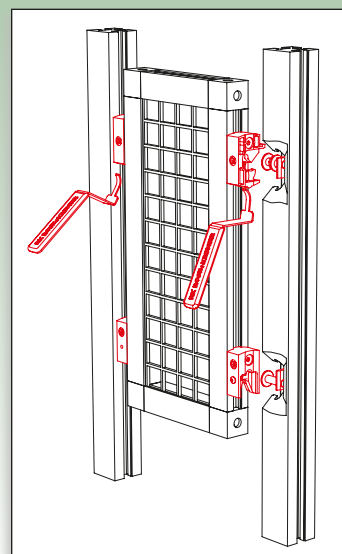
Video pendulum test
DIN EN ISO 14120

Pattern overview elements



Click & Safe

... the fast and easy way to achieve safety garding



RK Easywork Assembly Workstation-Systems

With the RK Easywork selection tool, a complete assembly work table can be configured online to meet ergonomic and task-specific requirements. Step by step, the selection tool guides you through all of the options on the way to creating your ideal workstation. Additional lighting, holders for grab containers, foot rests, standing chairs and ESD accessories are all available, along with other useful devices.

The RK Easywork workstation system is based on RK Rose+Krieger's complete modular system.

BLOCAN® construction profiles made from aluminium and the electrically driven lifting columns offer a perfect combination for the creation of high-quality table concepts. Customers can choose between the simplest static tables or electrically height-adjustable work tables and configure their own combinations.

Step 1:
Determine the dimensions required



Step 2:
Design your workstation online



Step 3:
A detailed offer will be made available



Step 4:
a fully-equipped workstation will be delivered



The basic modules:



Static



Electrical



Online
selection guide
easy work

For detailed information, sizing and accessories, please have a look in our main catalogue Profile Technology BLOCAN®

Selection guide connecting technology

Connecting precision round and square tube reliable and stable whilst also making releasing easy appears to be a difficult task. The RK connecting technology, which has been proven over years of use, meets this requirement in a simple and almost perfect fashion.

Our versatile connection elements offer you the chance to implement creative and flexible solutions, because you can rely on our product. We are sure to have the right part for you, and if not we will develop one especially for you.

Why drilling, riveting, welding...



...when it's quicker with our reliable clamping system.

The four steps to your product recommendation

Step 1: The application always takes centre stage



- Light load range
- Medium to heavy load range
- Shock-proof load range

Step 2: What features should the product have?



- Right angle tube connection
- Axially parallel tube connection
- Hinge tube connection

Step 3: Which product design do you want?



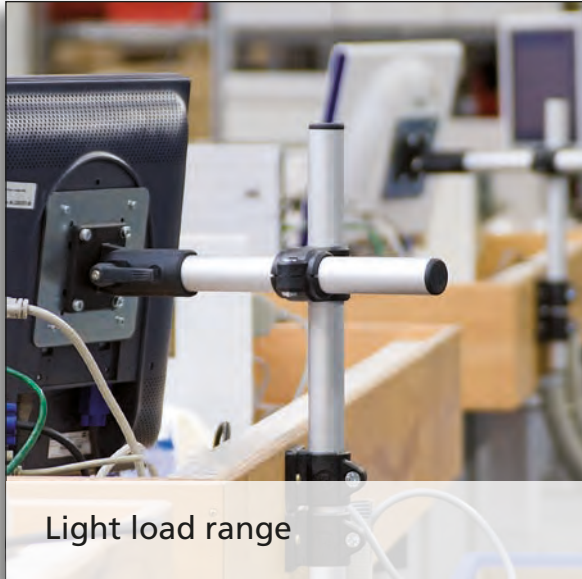
- Single-piece elements: For faster and more economic assembly
- Multi-piece elements: For later on assembly and upgrading

Step 4: Which performance category do you require?

- Round tube
- Square tube
- Ø Diameter
- □ Square

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

The RK Connecting Circle



Light load range

Features:

- ✓ Easy
- ✓ Good value
- ✓ Variable



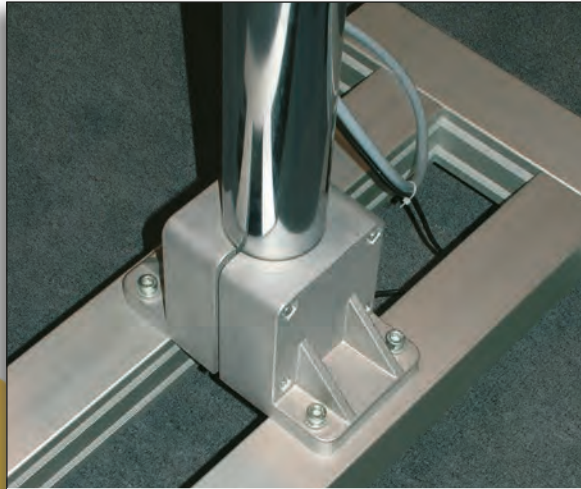
Light Clamps

continue on pageSeite 30

Your appli
takes centr

Solid Clamps

continue on page 32



Medium to heavy load range

Features:

- ✓ Reliable
- ✓ Solid
- ✓ Price/Performance optimised
- ✓ Great variety



ation
e stage

Robust Clamps

continue on page 34



Shock-proof load range

Features:

- ✓ Extremely strong
- ✓ Vibration proof
- ✓ Impact and shock load
- ✓ Corrosion resistant



Light Clamps Light load range



Plastic:

- ✓ Corrosion resistant
- ✓ Low weight
- ✓ Usable in food packaging
- ✓ Variable using reducing bushes

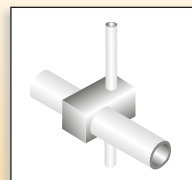
Single-piece elements



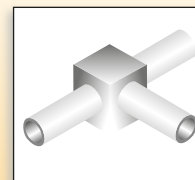
Multi-piece elements



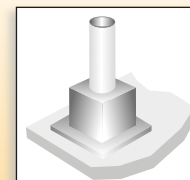
Right angle tube connector



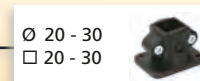
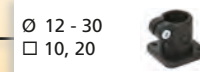
Cross clamps



Angle clamps



Base clamps



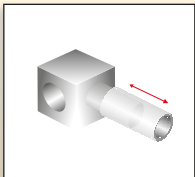
Ø = Diameter round tube
□ = Dimension square tube

Light Clamps

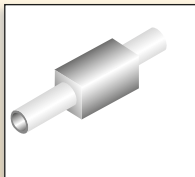
Plastic

Connecting types

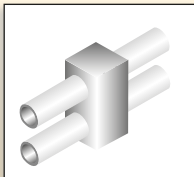
Axially parallel tube connector



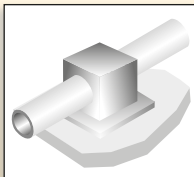
Flange clamps



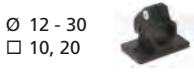
Sleeve clamps



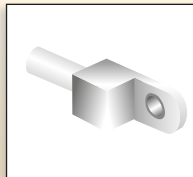
Parallel clamps



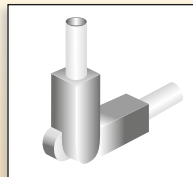
Flange clamps



Hinge tube connector



Strap clamps



Hinge clamps



For detailed information, sizing and accessories, please look in our main catalogue Connecting Technology

Solid Clamps Medium to heavy load range



Industrial-Design

- ✓ Cast aluminium
- ✓ Great variety
- ✓ Single-piece elements

quad® elements

- ✓ Extruded aluminium
- ✓ Maximum torque loads
- ✓ High-quality anodized surface
- ✓ Single- und Multi-piece elements

Block form

- ✓ Cast aluminium
- ✓ Higher torque loads
- ✓ Plane surface
- ✓ Multi-piece elements

Single-piece elements



industrial design

quad® elements

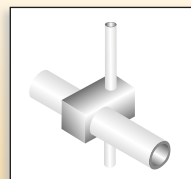
Multi-piece elements



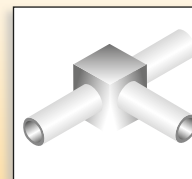
quad® elements

block form

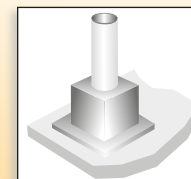
Right angle tube connector



Cross clamps



Angle clamps



Base clamps

Ø 12-80



Ø 12-80



Ø 12-80



Ø 30-50



Ø 30-50



Ø 30-60



Ø 30-60



Ø 30-60



Ø 30-80



□ 30-60

□ 30-60

□ 30-60

Ø 8-80



Ø 8-80



Ø 8-80



□ 10-80

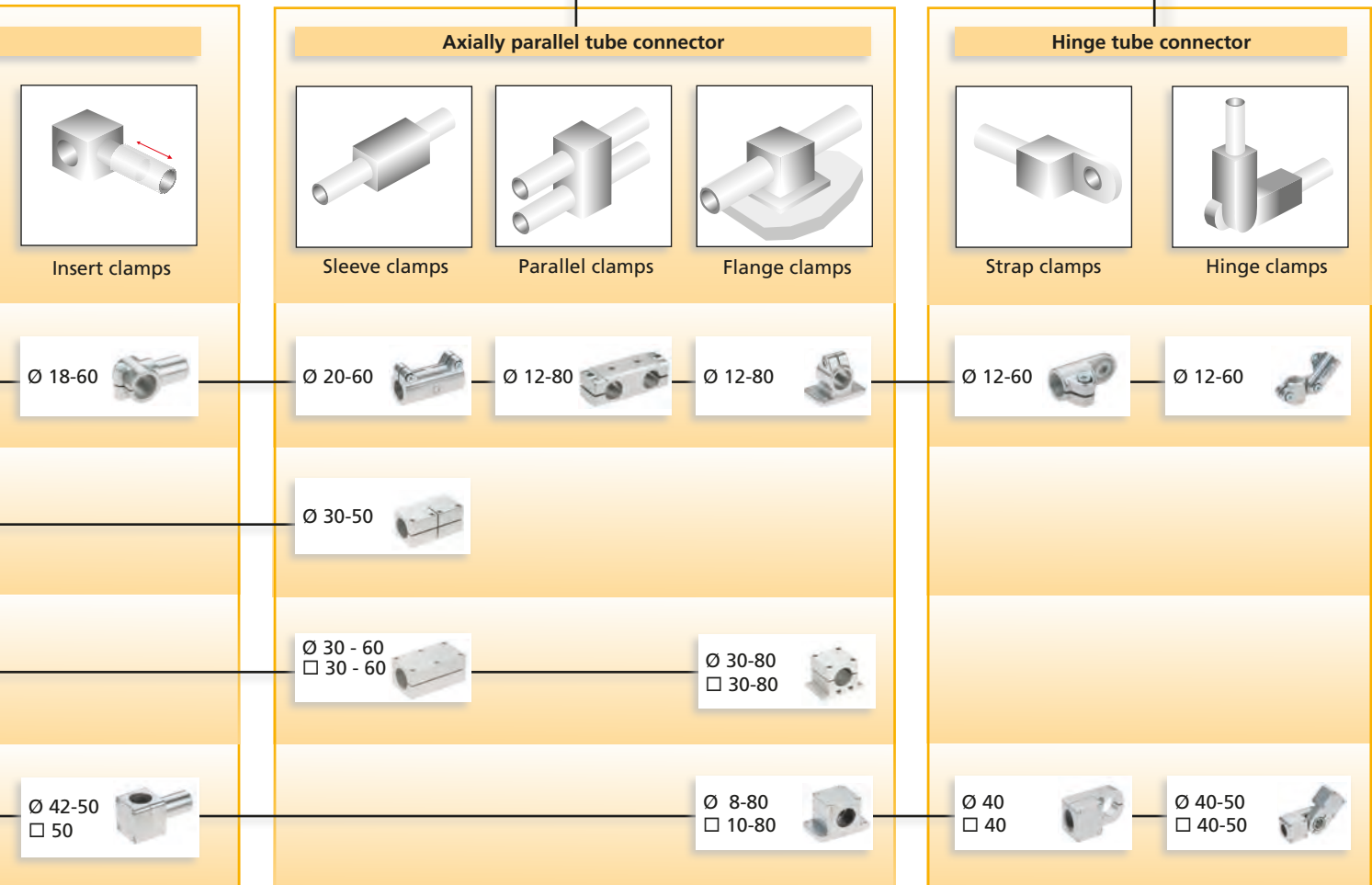
□ 10-80

□ 10-80

Ø = Diameter round tube
□ = Dimension square tube

Solid Clamps Aluminium

Connecting types



For detailed information, sizing and accessories, please see our main catalogue „Connecting Technology“.

Robust Clamps Shock-proof load range



Stainless steel

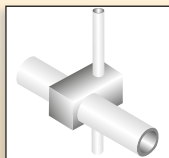
- ✓ Extremely strong for dynamic loads
- ✓ High temperature resistant
- ✓ Corrosion resistant

Robust Clamps

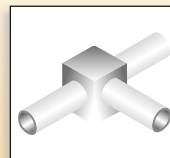
Stainless steel

Connecting types

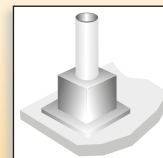
Right angle tube connector



Cross clamps

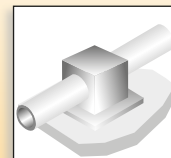


Angle clamps



Base clamps

Axially parallel tube connector



Insert clamps

Single-piece elements



Ø 12-20,
30, 40



Ø 12-20,
30, 40



Ø 12-20,
30, 40



Ø 12-20,
30, 40



Ø = Diameter round tube
□ = Dimension square tube



Steel tubes
 $\varnothing$ = 12-80
 $\square$ = 20-80



Stainless steel tubes
 $\varnothing$ = 12-60
 $\square$ = 20-80



Aluminium tubes
 $\varnothing$ = 20-60
 $\square$ = 20-60



Aluminium bars
 $\varnothing$ = 8-10
 $\square$ = 10



Round tube stopper



Adjustable foot



Steerable castor with tube fitting



Insert nut



Square tube stopper



Adjustable foot with tube fitting



Fixed castor with tube fitting



Adapter sleeve R28



Round tube threaded stopper



Square tube threaded stopper

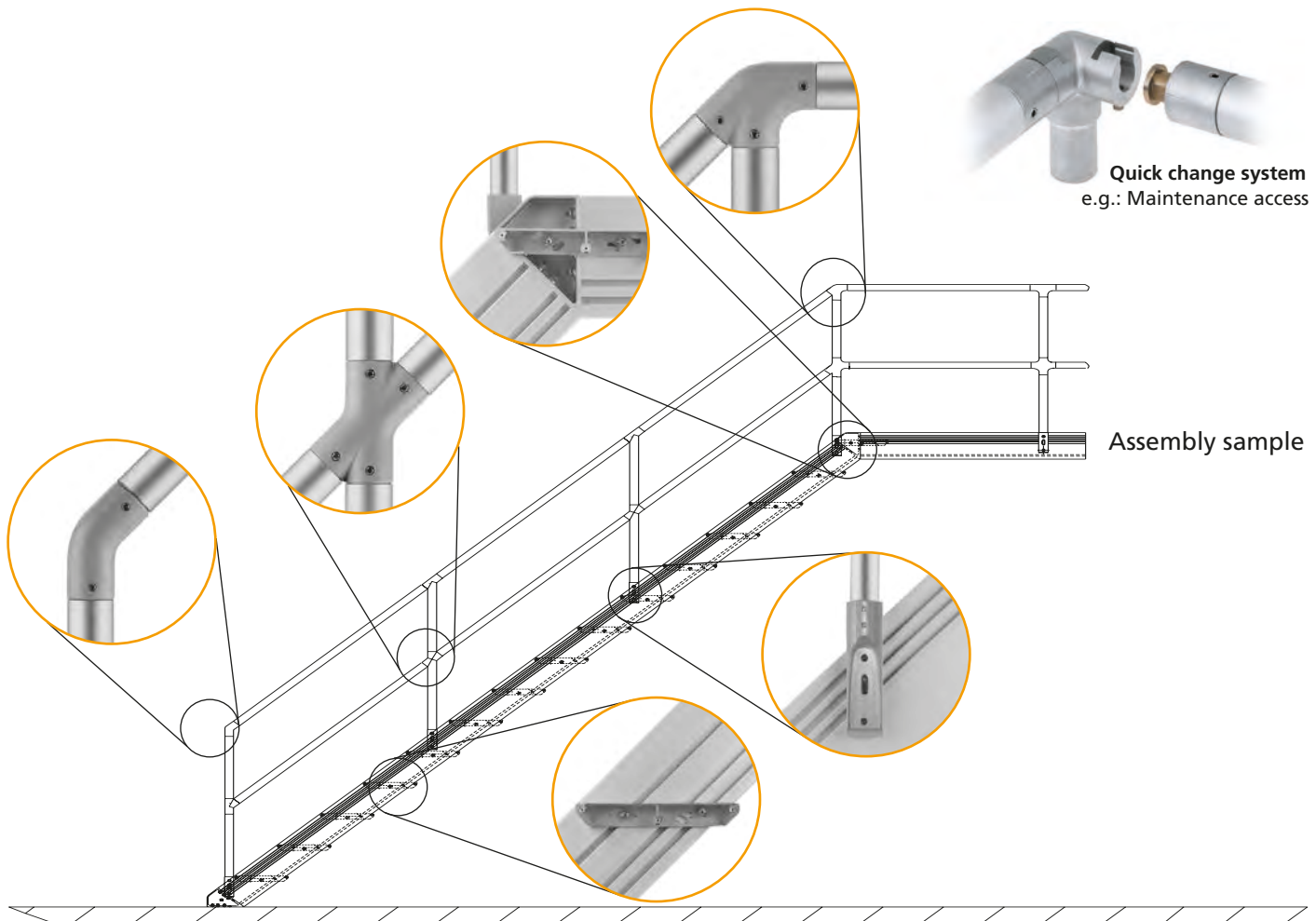


Adjustable levers

No drilling or welding, no bevel cut

ITAS designs make it easy to assemble simple railings as well as sophisticated stairs and working platforms. The ITAS „Internal Tension Application System“ is an easy plug in principle. It reduces assembly time to a minimum. The connection is realized by tightening special clamping screws. The smooth intersections persuade with a pleasant surface feeling and contribute to the overall safety.

– just assemble –



Application example ITAS industrial stairs



Linear Technology

Equipment Carrier System



Profile Technology

RK Monitor Mounting
all purpose mounting for
monitors, touch panels and
operating units

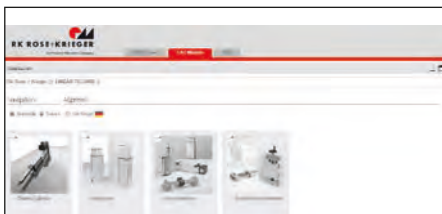


Variable designs using
standard elements,
for individual attachment
and positioning
of control panels.

Connecting Technology

For detailed information, sizing and accessories, please see our main catalogue „Connecting Technology“.

Our service



What we can do for you:

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-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.



RK-Field service – advice on site

Our Key Account managers and sales consultants are happy to visit you on site and help you draw up concrete proposals for practical solutions.

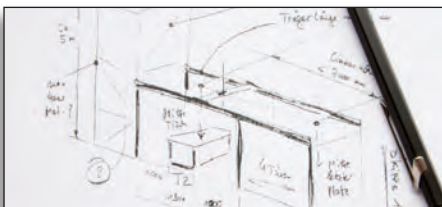


RK-website

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

Do you need to focus your resources on other tasks and are you looking for a competent partner you can rely on? Working in close collaboration with you, our specialists will develop solutions tailor-made to meet your needs. If you wish, we can also assemble and commission the units on site.



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

Contact Person

Reception

Our receptionists serve as a first point of contact for all requirements and will transfer you to the relevant departments



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Fax: +49 571 9335-119
E-Mail: info@rk-online.de

Product Consultancy

Our product specialists will be delighted to advise you when selecting components or system Solutions and can prepare a customised quote on request

Telephone: +49 571 9335-803
Fax: +49 571 9335-139
E-Mail: anfrage.vertrieb@rk-online.de

Order Processing

If you would like to place an order or have a question about an existing order, our sales staff will be pleased to be of assistance.

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