

R RENOWNED
KNOW-HOW

Automation Technology

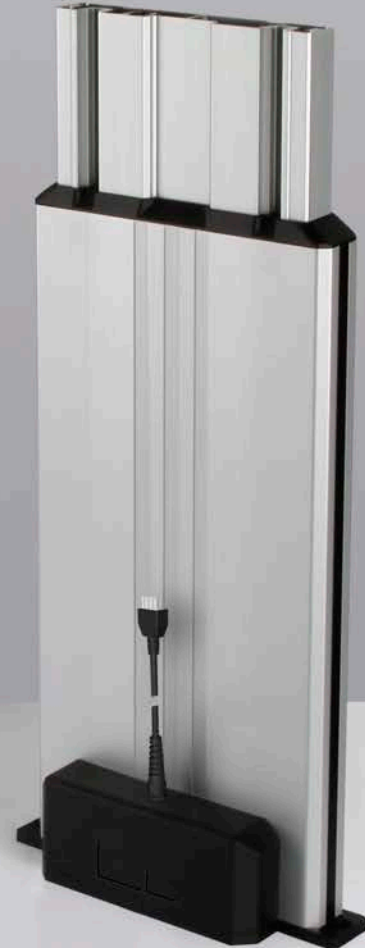


RK ROSE+KRIEGER

A Phoenix Mecano Company

Electrical height adjustment

... easy & reliable



Multilift II telescope Multilift II

Synchron

Preface

The Multilift lifting column has been tried-and-tested over many years in many customer applications. Now there are two more versions available: the Multilift II and the Multilift II telescope. The installation dimension of the three-stage telescope lifting column is only 560 mm retracted, with a maximum stroke of 650 mm and a maximum lifting force of up to 3,000 N per drive. Thus the maximum extension of 1,210 mm conforms to the applicable standards for workplace ergonomics in many applications for assembly workstations, equipment, control rooms, and many more.

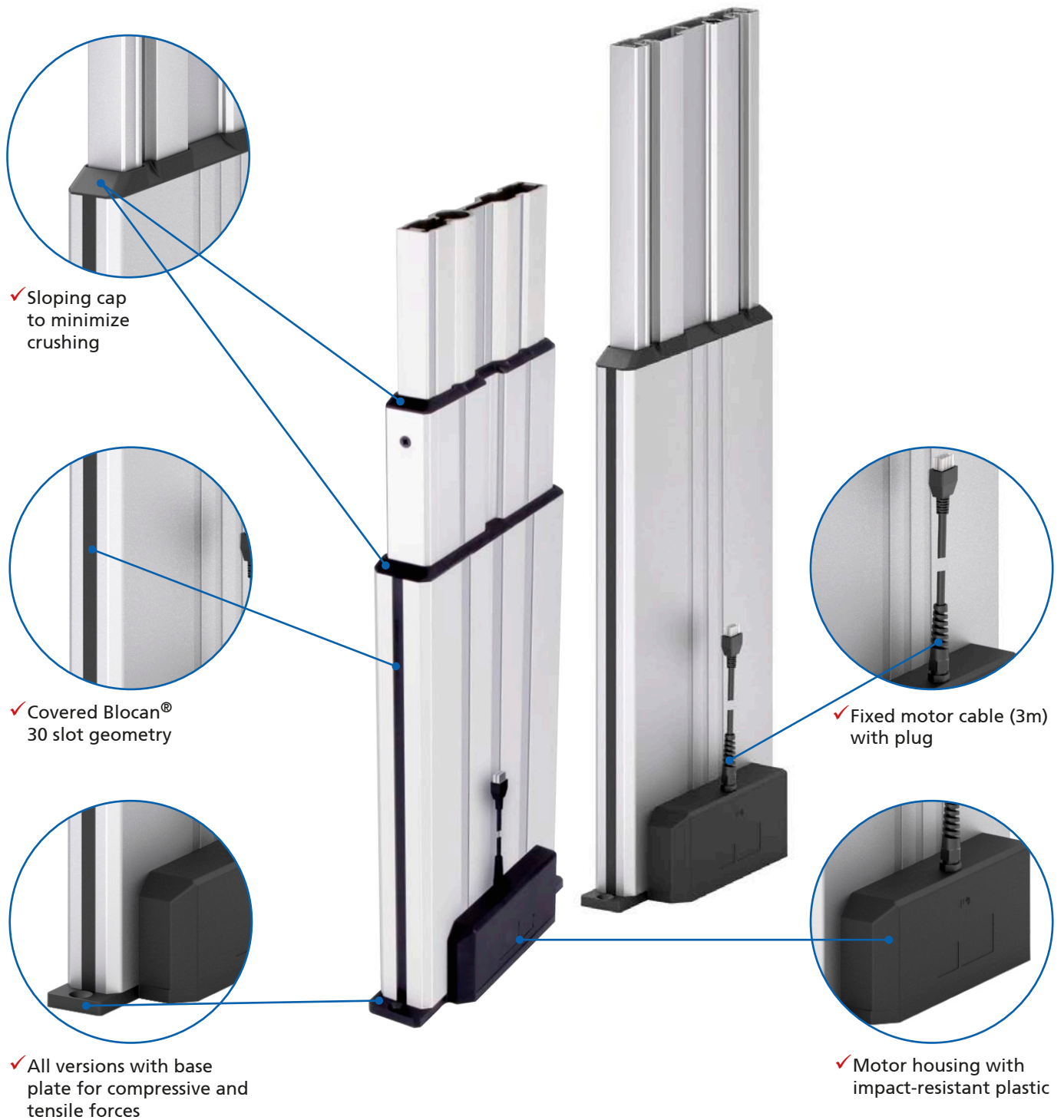
Despite the stroke length, overlap of the profiles – which is important for the stability – has been measured perfectly and permits high bending moments for static and dynamic loading. Furthermore, the Multilifts can be subjected to tensile and compressive forces in equal measure, even with self-locking up to max. load. The profile ends either have sturdy assembly plates with M8 holes for fixing or you can connect them directly with the existing M8 screw channels in the internal profile.



Multilift II telescope / Multilift II - Table of contents

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<p>Accessories</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Position determination</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ■ Controls Page 10 ■ Hand switches Page 11 </td> </tr> <tr> <td style="vertical-align: top;">Fixing</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ■ RK SyncFlex Page 12 ■ Assembly plate. Page 13 ■ Foot..... Page 14 </td> </tr> </table>	Position determination	<ul style="list-style-type: none"> ■ Controls Page 10 ■ Hand switches Page 11 	Fixing	<ul style="list-style-type: none"> ■ RK SyncFlex Page 12 ■ Assembly plate. Page 13 ■ Foot..... Page 14
Position determination	<ul style="list-style-type: none"> ■ Controls Page 10 ■ Hand switches Page 11 				
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Multilift II telescope / Multilift II



Highlights / Features:

- Integrated limit switches
- Self-locking, even at max. load
- Lateral fixing slot in external profile
- Optimised height/stroke length ratio conforms to the ergonomic standard for workbenches (DIN EN 527-1:2011)

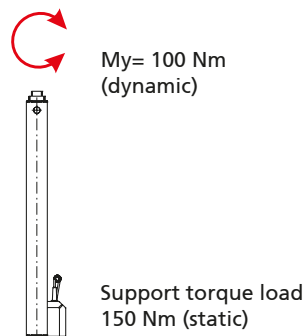
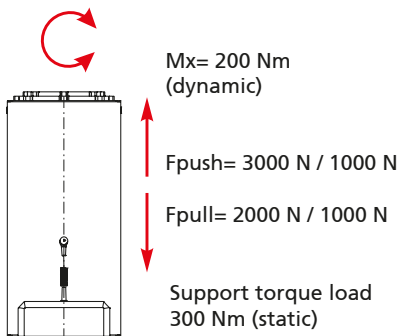
Options:

- Special stroke lengths available on request
- With controlbox compact -e-3:
 - Cascading of several columns

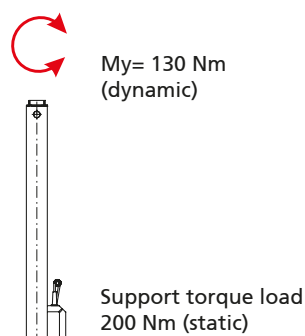
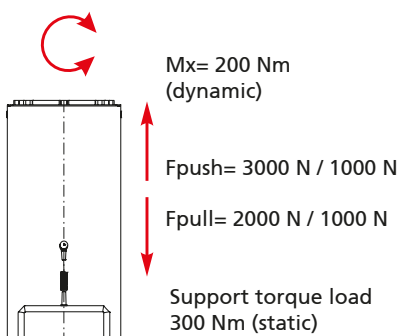
General information/operating conditions

Type	Multilift II telescope	Multilift II
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	
Push force	optionally 3,000 N / 1,000 N	
Pull force	2,000 N / 1,000 N	3,000 N / 1,000 N
Max. speed	optionally 8 mm/s 16 mm/s	
Voltage	24 V DC	
Current output	4 A	
Protection class	IP 30	
Self-locking (Push)	3,000 N	
Ambient temperature	+5°C to +40°C	
Displacement during synchronous operation	0–2 mm	
Duty cycle (Operation mode S 3)	At nominal load, 10% (2 min operating time, 18 mins rest time)	

Load data Multilift II telescope



Load data Multilift II



Multilift II telescope – Synchronous package

Synchronous package consisting of:

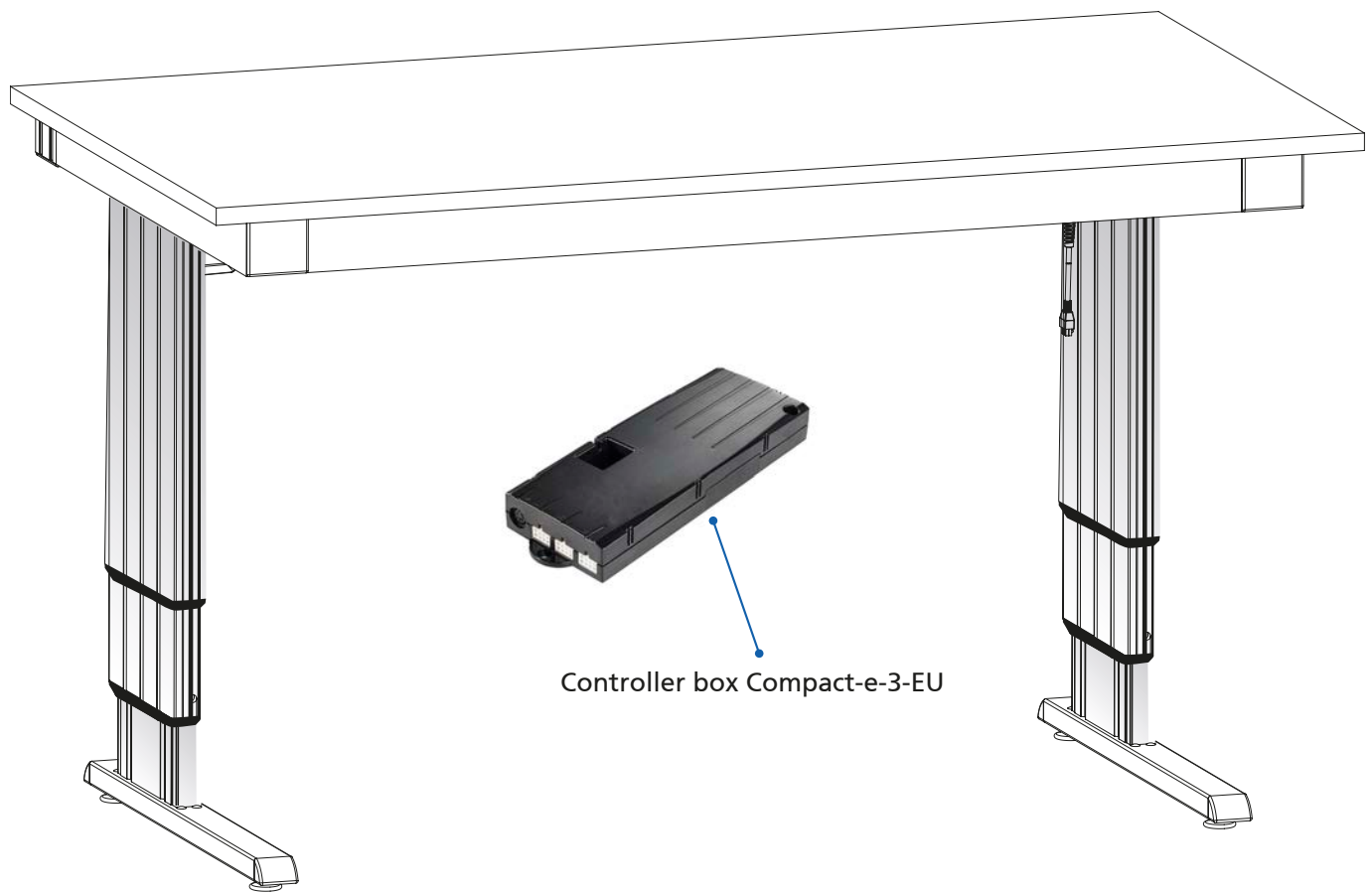
- 2 Multilifts II telescope synchro
- 1 Controller box Compact -e-3-EU
- 4 Cover profiles
- Plug & work (factory-initialised)
- 4 Slot stones
- 1 Assembly instruction

Option:

- Control versions US/JP

Order information:

Please select mains cable and hand switch separately (Page 11)



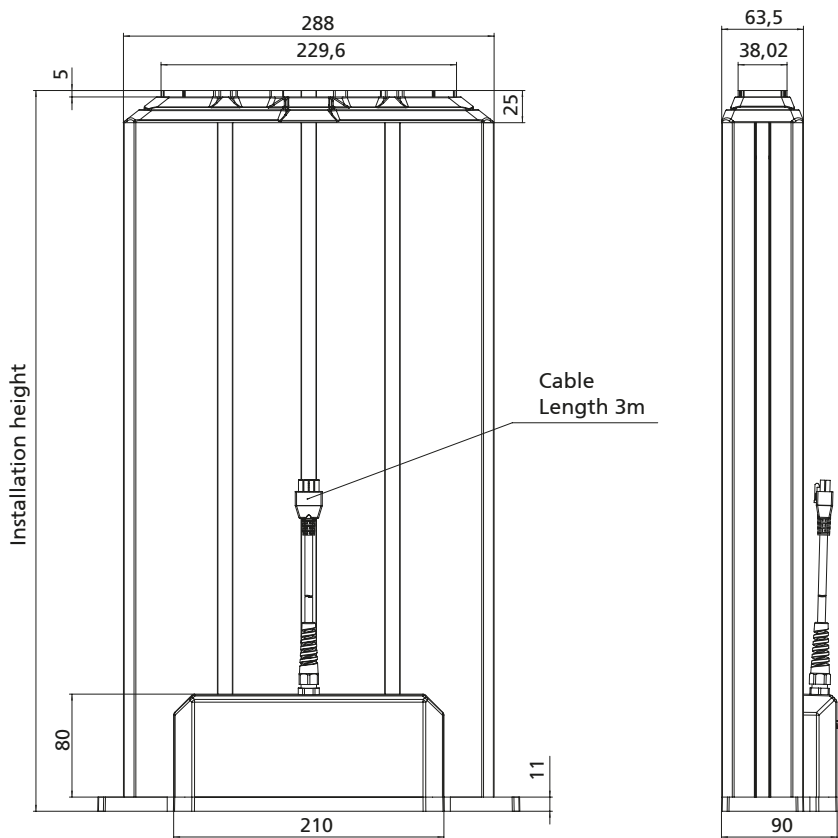
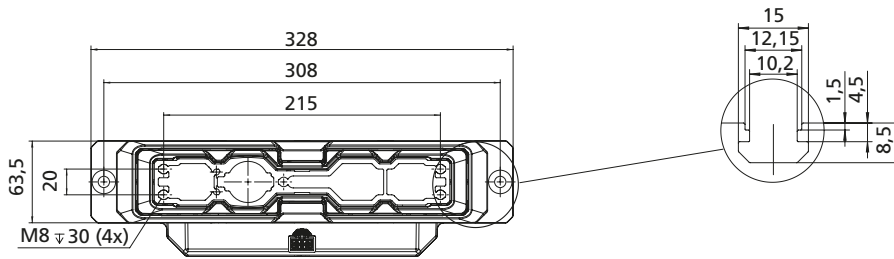
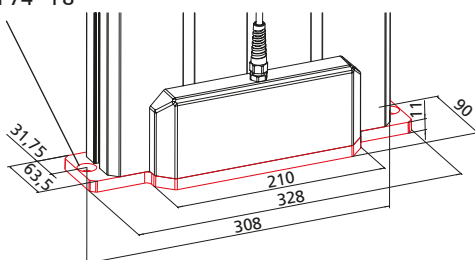
Multilift II telescope synchronous package

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]
TS13B1C3C22CA0650	Multilift II telescope synchronous package 230V AC	3,000	2,000	8	650	560
TS13B1C2C22CA0650	Multilift II telescope synchronous package 230V AC	1,000	1,000	16	650	560

Note: The load value information is referring to the individual lifting column. For combined applications a safety factor of up to 0,6 has to be considered.

Multilift II telescope – Version
Multilift II telescope

- The fixing slots on the side allow an easy attachment of accessories. For example, a screen, CPU bracket or system reinforcements can be fixed to the lifting columns by using slot stones. The 30 slot geometry is also compatible with the RK BLOCAN® aluminium profile system.


**Base plate with fixing plates
(2 counterbores)**
**Counterbore
DIN 74 - F8**


Multilift II – Synchronous package

Synchronous package consisting of:

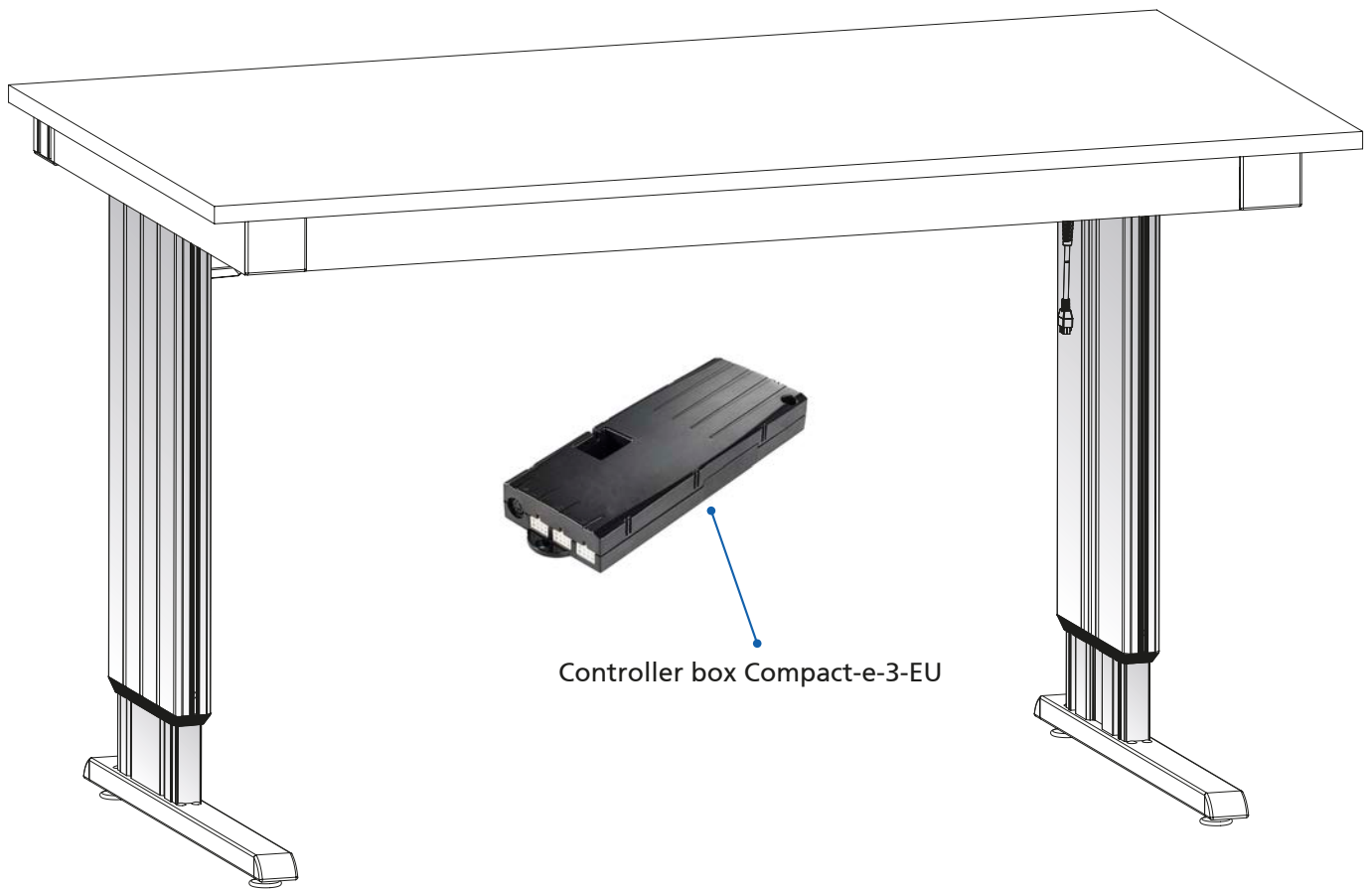
- 2 Multilifts II synchro
- 1 Controller box Compact -e-3-EU
- 4 Cover profiles
- Plug & work (factory-initialised)
- 4 Slot stones
- 1 Assembly instruction

Option:

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Order information:

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Multilift II synchronous package

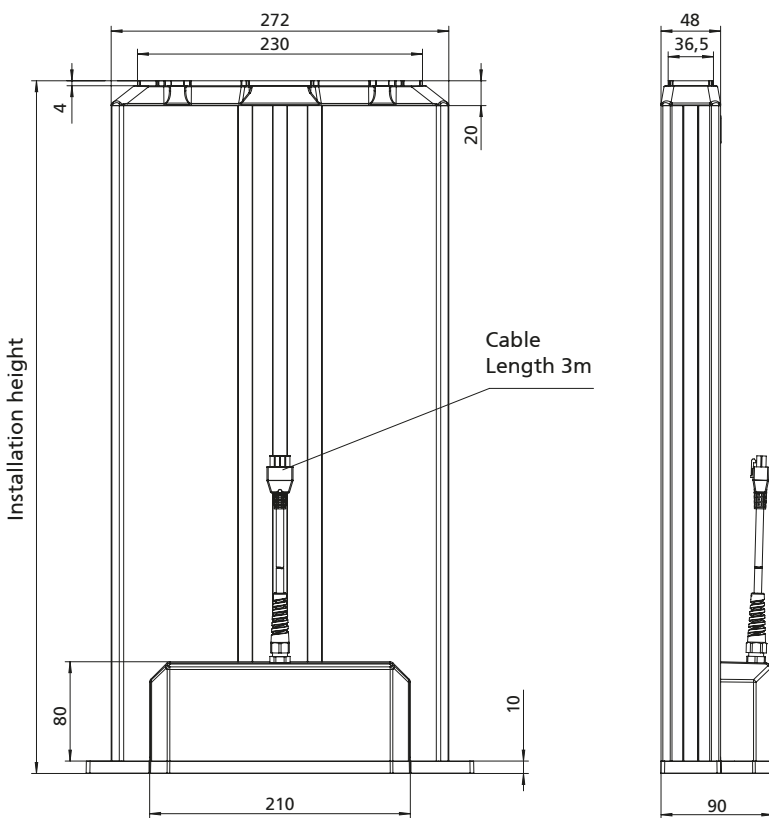
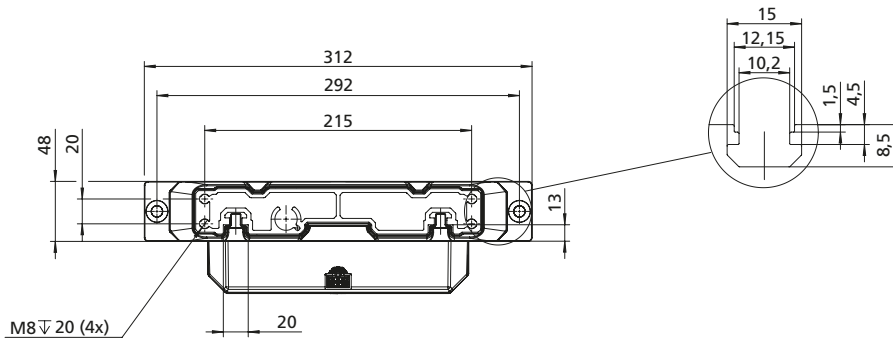
Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]
TS22B1C3C22CA0355	Multilift II synchronous package 230V AC	3,000	3,000	8	355	558
TS22B1C3C22CA0400					400	603
TS22B1C3C22CA0450					452	658
TS22B1C3C22CA0500					497	703
TS22B1C2C22CA0355	Multilift II synchronous package 230V AC	1,000	1,000	16	355	558
TS22B1C2C22CA0400					400	603
TS22B1C2C22CA0450					452	658
TS22B1C2C22CA0500					497	703

Note: The load value information is referring to the individual lifting column. For combined applications a safety factor of up to 0,6 has to be considered.



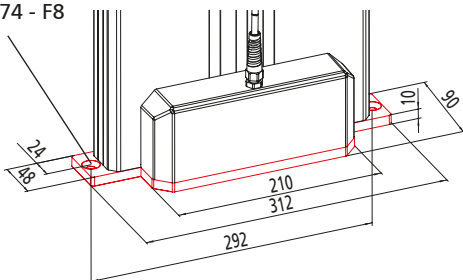
Multilift II – Version

- The fixing slots on the side allow an easy attachment of accessories. For example, a screen, CPU bracket or system reinforcements can be fixed to the lifting columns by using slot stones. The 30 slot geometry is also compatible with the RK BLOCAN® aluminium profile system.



Base plate with fixing plates
(2 counterbores)

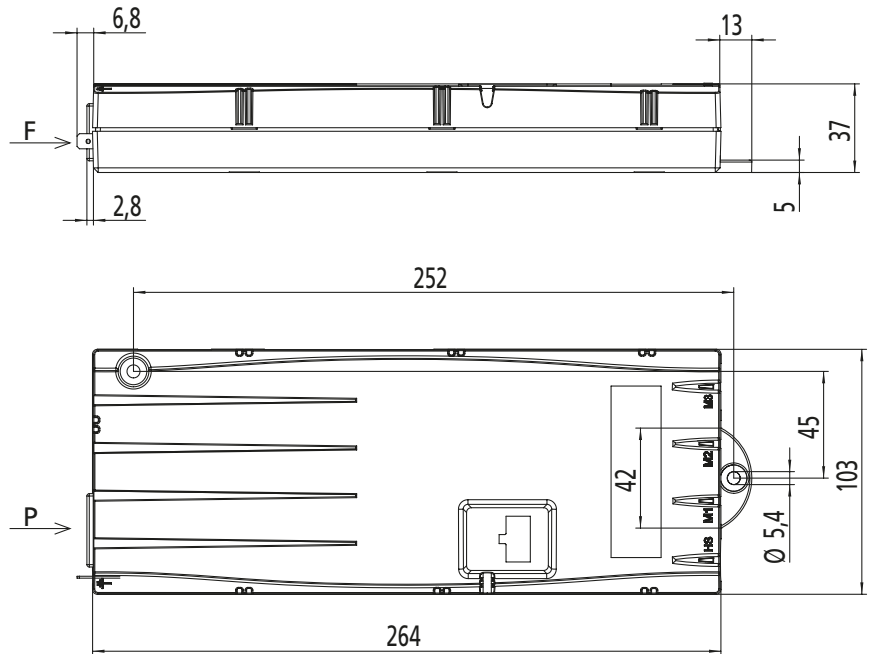
Counterbore
DIN 74 - F8



Controller box Compact-e-3

Controller box Compact-e-3-EU

- 1 Motor socket 1 (M1)
- 2 Motor socket 2 (M2)
- 3 Motor socket 3 (M3)
- S Hand switch socket (HS)
- P Power socket
- F Cable lug for earthing of table frame (6.3 x 0.8 mm cable lug)



Features:

- Synchronous control of up to two drives
- Duty cycle monitoring as overload protection
- Highly efficient switched-mode power supply (SMPS)
- The hand switches with display support storage of four different intermediate positions (memory) which can be called up at the touch of a button
- Acoustic status message thanks to Click Codes

Additional functions:

Adjustable by customer

- Relative or absolute height display on hand switch with display
- Programmable software end positions

General information / operating conditions

Type	Compact-e-3
Nominal voltage	EU: 230V / 50Hz US: 120V / 60Hz (on request) / JP: 100V / 60 Hz (on request)
Standby power,	0,5 W
Ambient temperature	0 – 30°C
Relative humidity (for operation)	5 – 90% (not condensing)
Protection class (with earth terminal)	I
IP class	IP 20
Dimensions (L, B, H) [mm] Tolerances according to DIN ISO 2768-1 c	264x103x37
Weight	523 g
Duty cycle (Operation mode S 3)	At nominal load, 10% (2 min operating time, 18 mins rest time)

IEC cable

Code No	Version	Typ	Cable length
QZD070618	IEC cable (Europe version, earthed plug)	F	1.80 m
QZD020159	IEC cable (Switzerland version, earthed plug)	J	1.80 m
QZD070619	IEC cable (Great Britain version, earthed plug)	G	1.80 m

Hand switches / Accessories



1
HSU-OD-2



2
HSU-MDF-4M2



3
TOUCHbasic UD



4
TOUCH UD

Code No.	Vesion	Description / information	Additional functions (see page 10)	Cable length	Fig.
QZB30E07BM126	HSU-OD-2	2 Up/Down function		1.90 m	1
QZB30E07BR126	HSU-MDF-4M2	Up to 4 memory positions/Display	•	1.90 m	2
QZB30E07BN126	TOUCHbasic UD	2 Up/Down function		1.80 m	3
QZB30E07BP126	TOUCH UD	Up to 4 memory positions/Display	•	2.00 m	4

Features:

HSU-OD-2



- 2 Up/Down function
- Membran key pad
- Robust and slim

HSU-MDF-4M2



- Up to 4 memory positions
- 3- digit display
- Membrane key pad slim design

TOUCHbasic UD



- 2 Up/Down function
- Large keys

TOUCH UD



- Up to 4 memory positions
- 4- digit display for „inch“ or „cm“
- Key Lock

TOUCH UD (retractable)



- Mounting under table top
- Ultra-flat design

Multilift II telescope / Multilift II – Fixing

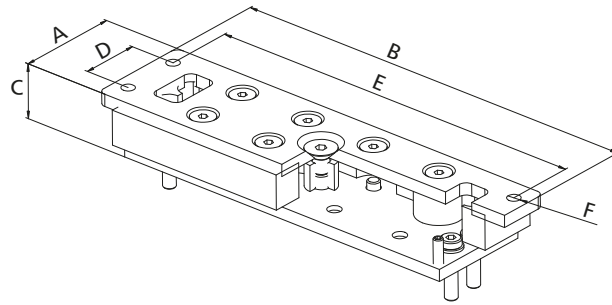
RK SyncFlex H

Scope of delivery:
Adjuster plate, incl. fixing material

Horizontal alignment

- To prevent locked-up stress in mechanically overdefined bearing systems (more than one fixed bearing) around the horizontal axis.
With RK SyncFlex H, defined floating bearings supplement the application.

- The horizontal compensation in the Z-axis enables the mobility required when moving the lifting columns.



Code No.	Type	A	B	C	D	E	F
QZD020471	Multilift II telescope/Multilift II	70	280	36	40	260	M10

[mm]

RK SyncFlex V

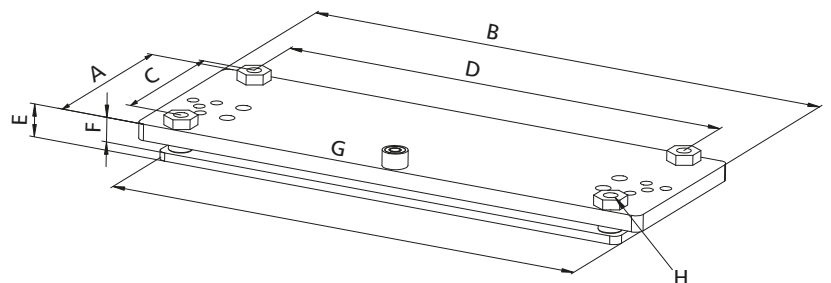
Scope of delivery:
Adjuster plate, incl. fixing material

Option:
Pressure plate (see table) can be ordered separately

Vertical alignment

- If the lifting columns are not parallel, the distance between the two upper fixing points will change during the movement. However, a rigid connection keeps this distance constant, which means that the lifting columns are subject to very strong forces.
RK SyncFlex V enables the compensation of unevenness in the mounting environment.

- The lifting columns can be aligned via the vertical adjustment around the X-Y axes.



Code No.	Type	A	B	C	D	E	F	G	H
RK SyncFlex V Adjusting plate									
QZD020620	Multilift II telescope/Multilift II	110	328	90	280	–	10-15	–	M10
Pressure Plate									
QZD020621	Multilift II telescope/Multilift II	110	–	90	280	15-20	–	300	–

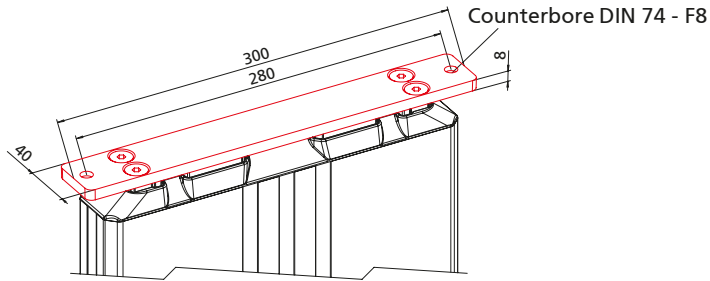
[mm]

Multilift II telescope / Multilift II – Fixing
Multilift assembly plates

- The assembly plates are for easy assembling in customer applications.

Material:
black powder-coated, zinc die cast, galvanised fixing set

Scope of delivery:
Plate with fixing set



Top assembly plate

Code No.	Version
QZD020549	Top assembly plate



Multilift II telescope / Multilift II – Fixing

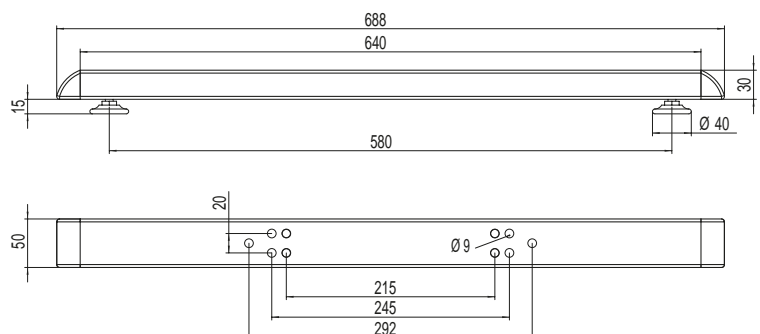
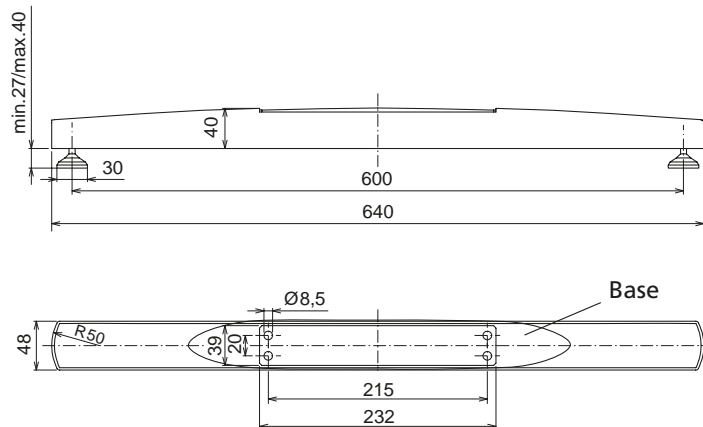
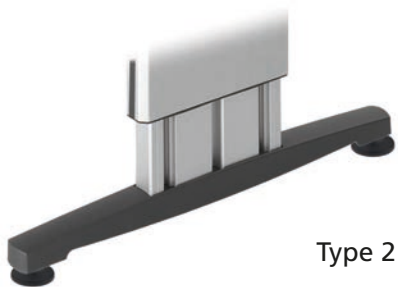
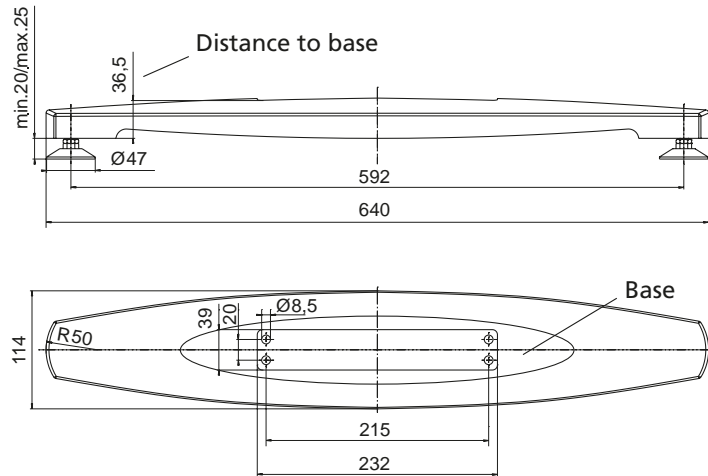
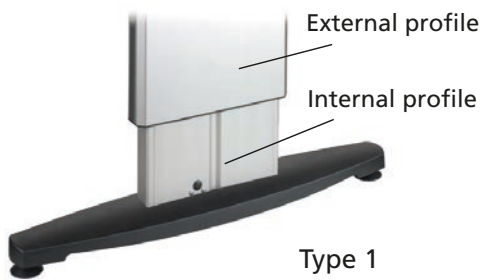
Foot

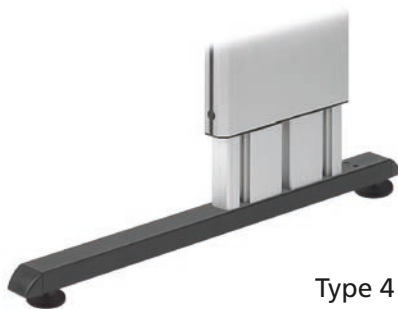
- Different foot versions for the Multilift
- No modifications of the Multilift required

Material:
Type 1/2 GK-ALSi12/3.2583.02,
black powder-coated

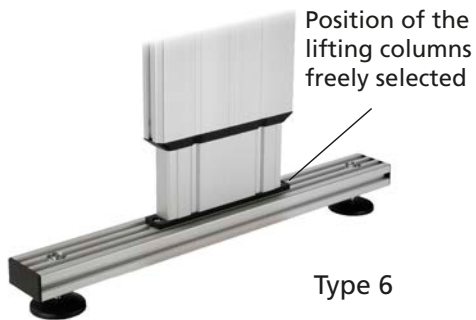
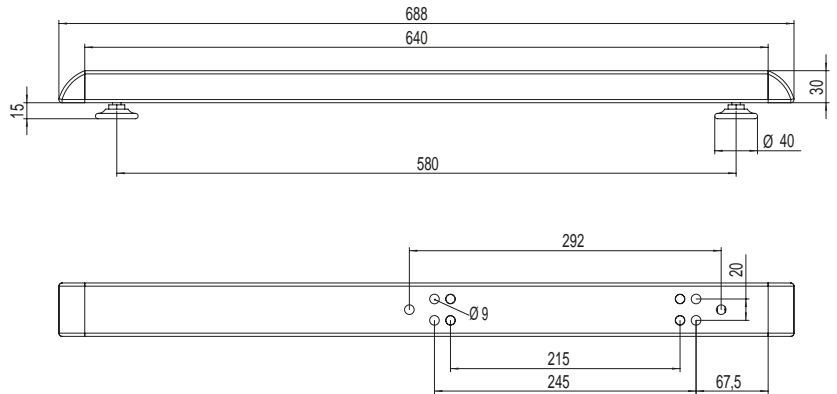
Type 3/4 steel tube, ends capped
black powder-coated

Scope of delivery:
one foot with fixing set



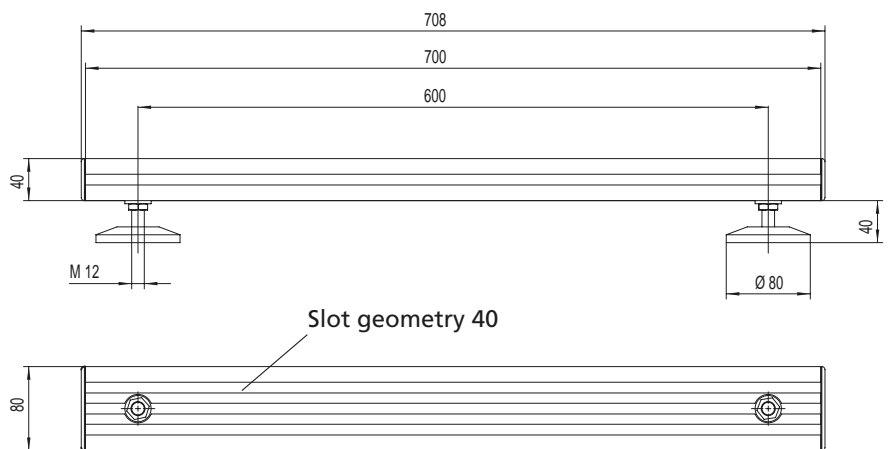


Type 4



Type 6

Position of the lifting columns freely selected



***Additional note to Type 6:**
 The application example shown – internal profile mounted on Type 6 – is only in combination with an assembly plate possible (see page 13)

Code No.	Type	Max. load	Multilift II		Multilift II telescope	
			Internal profile	External profile	Internal profile	External profile
QZD020252	1	1,000 N	●		●	
QZD020253	2	1,000 N	●		●	
QZD020254	3	1,000 N	●	●	●	
QZD020255	4	1,000 N	●	●	●	
QZD020256	6	3,000 N	●*	●	●*	●

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



FAX reply form

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and electric cylinders catalogue

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

contact me

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Contact partner: _____

Department: _____

Address: _____

Tel. + Fax: _____

E-mail: _____


RK ROSE+KRIEGER
A Phoenix Mecano Company

Connecting and positioning systems

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