

# Multi-stage lifting column - RKPowerlift telescope

The **RKPowerlift** with optimised installation height/stroke ratio



wave design

### Fixing

- ✓ Adaptor plate with 4x M8 holes

### Lifting column

- ✓ Double-telescoping

### **RKPowerlift** telescope:

- Push forces 800 N, 1600 N  
Pull forces 800 N
- Lifting speed 15 mm/s, 30 mm/s

### Features:

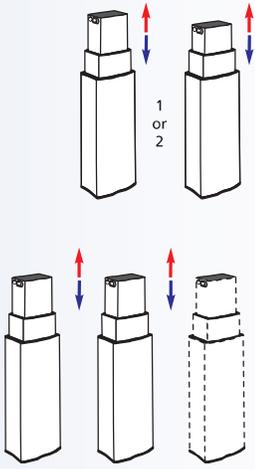
- Withstands high bending moments in both static and dynamic range
- Integrated motor
- Adjustable stroke length

- Choice of internal or external control
- Four fixing slots in external profile

### Options:

- Special stroke lengths available on request
- Quadro control enables synchronisation of up to 32 columns

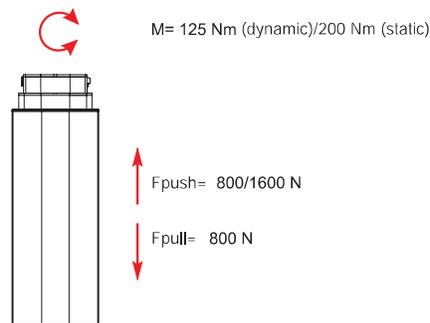
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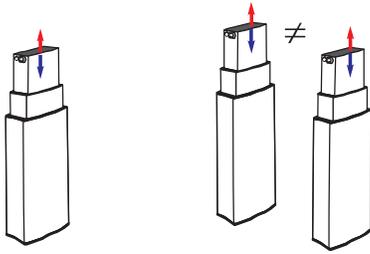
## General information/operating conditions

Design	Rectangular lifting column in compact design
Guide	Multiple roller/slide bearings
Installation position	Any position
Push force	Choice of 800/1,600 N
Pull force	Max. 800 N
Voltage	36 V DC
Power input	180 W/210 W
Protection class	IP 30
Self-locking	Yes
Ambient temperature	+5°C to +40°C
Max. displacement with synchronous operation	0-2 mm/0-1.5 mm
Duty cycle	At nominal load, 15% (max. 1.5 mins operating time, 8.5 mins rest time)

## Load data



### RKPowerlift telescope Mono

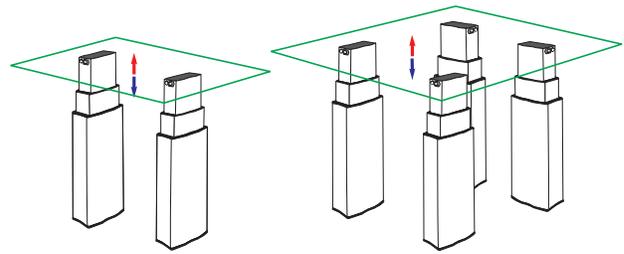


1-2 *RKPowerlifts* in single or parallel operation

#### Parallel operation

The standard version also supports parallel operation of two *RKPowerlifts* (no synchronisation). This may produce different lifting positions during operation, which can be levelled out by moving to the end positions.

### RKPowerlift telescope Synchro



2-4 *RKPowerlifts* in synchronous operation

#### Synchronous operation

Synchronous operation of two or more columns. In conjunction with the integrated sensors, the control (see page 640) ensures synchronisation, and thus constant alignment of all the columns in both directions of travel, even if subject to different loads. The synchronous operation tolerance depends on the lifting speed and is max. 1.5 mm for the 15 mm/s version and max. 2 mm for the 30 mm/s version. A memory function is also available.

# RKPowerlift telescope - Versions

## Versions

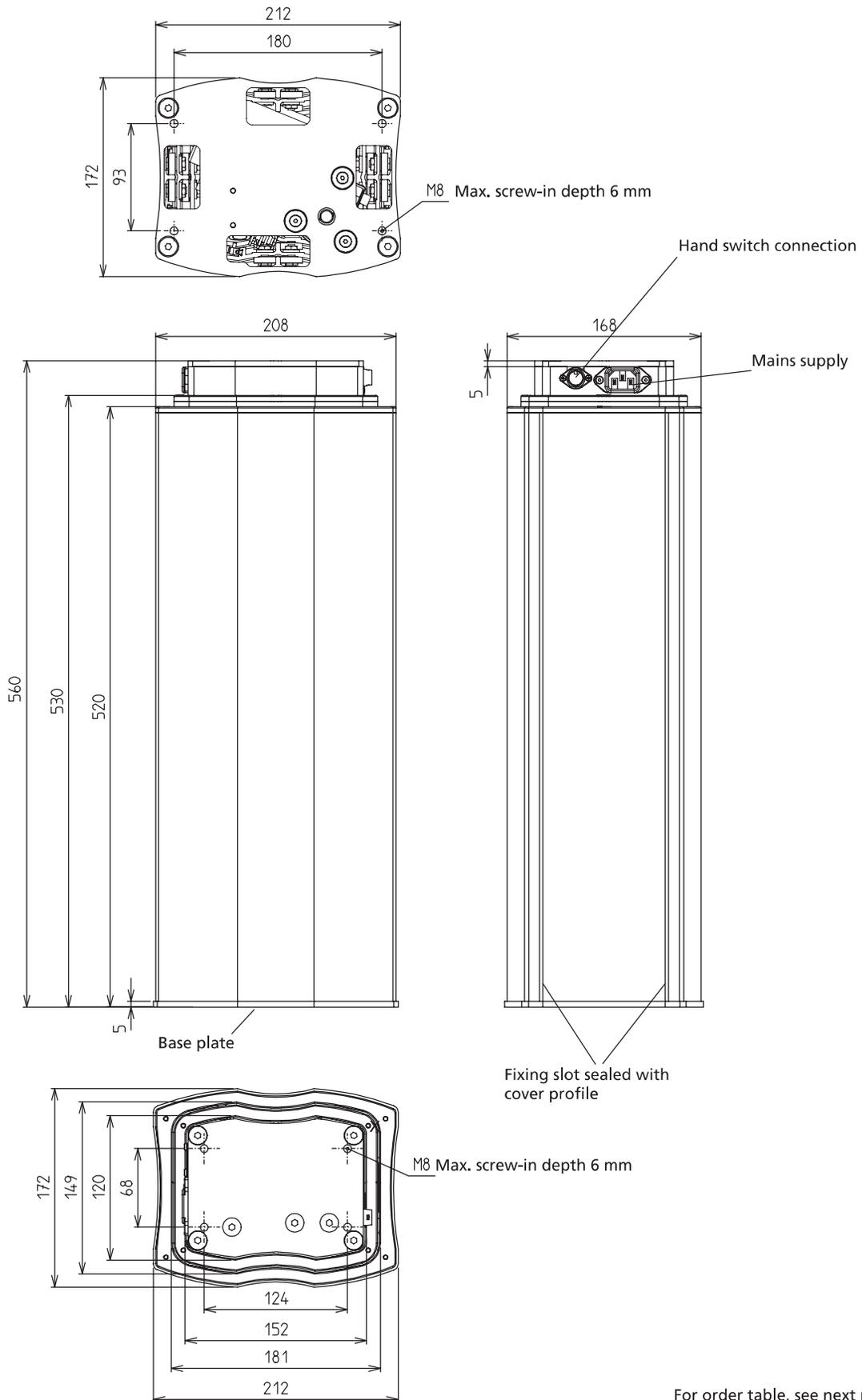
■ with internal control

■ with external control

Hand switch connection / mains supply

Connecting cable  
(8-pin, 1.8 m)  
for MultiControl

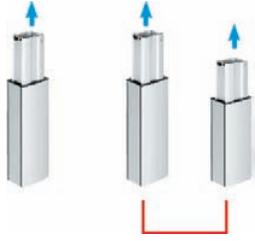




For order table, see next page

# RKPowerlift telescope - Versions

## RKPowerlift telescope mono



1-2 single or parallel operation

Code No.	Type	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
<b>With internal control/standard (start and stop)</b>							
QPT30BC420650	RKPowerlift telescope 30	800	800	30	650	560	~18
QPT15BE420650	RKPowerlift telescope 15	1,600	800	15	650	560	~18
<b>With internal control/memory (9 positions can be stored)</b>							
QPT30BC460650	RKPowerlift telescope 30	800	800	30	650	560	~18
QPT15BE460650	RKPowerlift telescope 15	1,600	800	15	650	560	~18

Code No.	Type	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
<b>For external control</b>							
QPT30EC480650	RKPowerlift telescope 30	800	800	30	650	560	~17
QPT15EE480650	RKPowerlift telescope 15	1,600	800	15	650	560	~17

Transformer control 120 VA



approx. 24 V DC

MultiControl mono



approx. 36 V DC

Code No.	External control for telescopic screw drive
QZA09C13BH031	Transformer control 120 VA connection C, controls 1 drive
QSTACCA1AA000	MultiControl mono connection C, up to max. I= 12 A current consumption, 36 V DC, controls up to 2 drives
<b>Accessories</b>	
QZD0702844000*	Straight connecting cable (4 m) with 5-pin connector and open cable end
QZD070526	Extension cable 2,5 m drive for connector C/8-pin DIN socket

\*for the connection of a parallel hand switch or an external potentiometer (in the case of the MultiControl mono)

**RKPowerlift telescope synchro**



2-4 in synchronous operation

Code No.	Type	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
<b>With internal control</b>							
QPT30BC470650	<i>RKPowerlift telescope 30</i>	800	800	30	650	560	~18
QPT15BE470650	<i>RKPowerlift telescope 15</i>	1,600	800	15	650	560	~18

Code No.	Connecting cable (bus cable)
QZD100093	6 m bus cable for the networking of up to 8 synchronous controls

Code No.	Type	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
<b>For external control</b>							
QPT30EC480650	<i>RKPowerlift telescope 30</i>	800	800	30	650	560	~17
QPT15EE480650	<i>RKPowerlift telescope 15</i>	1,600	800	15	650	560	~17

MultiControl (duo and quadro)



approx. 36 V DC

Code No.	External control for telescopic screw drive
QST43C02AA000	MultiControl duo connection C, up to max. I = 12 A current output, for synchronous control of 1-2 drives
QST43C04AA000	MultiControl quadro connection C, up to max. I = 12 A current output, for synchronous control of 1-4 drives
<b>Accessories</b>	
QZD070526	Extension cable 2,5 m drive for connector C/8-pin DIN socket





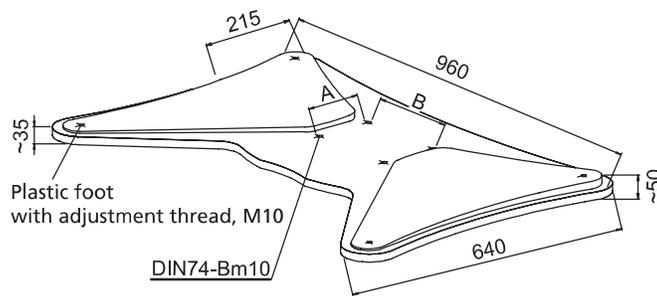
# RKPowerlift telescope - Fixing

**RK ROSE+KRIEGER**

## Base plate

**Material:** steel, matt black  
RAL 9005,  
Galvanised fastenings  
Plastic cover made of ABS,  
pigeon blue

**Scope of delivery:**  
complete with fastenings



Code No.	Type	[mm]	
		A	B
QZD100257	Base plate for <i>RKPowerlift</i> telescope	93	180

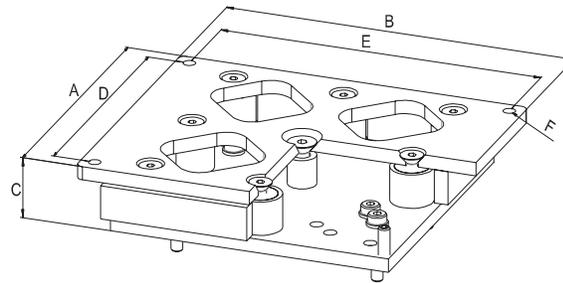
# RK Powerlift telescope – Fixing

## 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 loose bearings supplement the application.
- The horizontal compensation in the Z-axis enables the freedom of movement required when moving the lifting columns.



[mm]

Code No.	Type	A	B	C	D	E	F
QZD100453	Powerlift telescope	200	250	36	230	180	M 10

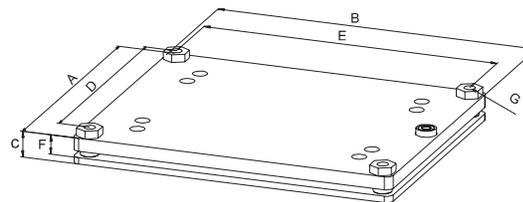
## RK SyncFlex V

**Scope of delivery:**  
Adjuster plate, incl. fixing material

**Option:**  
Optionally available with or without pressure plate (see table)

### 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, and this 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.



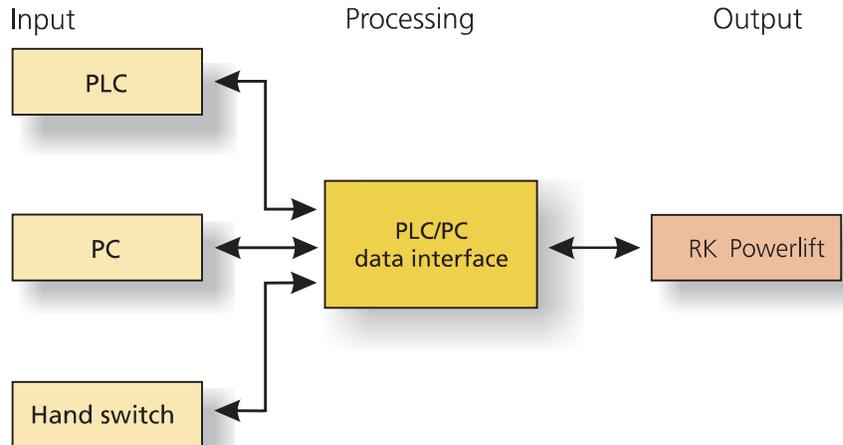
[mm]

Code No.	Type	A	B	C	D	E	F	G
<b>Without pressure plate</b>								
QZD100447	Powerlift telescope	200	250	-	180	230	10-15	M 10
<b>With pressure plate</b>								
QZD100464	Powerlift telescope	200	250	15-20	180	230	10-15	M 10

**PLC/PCdata interface**

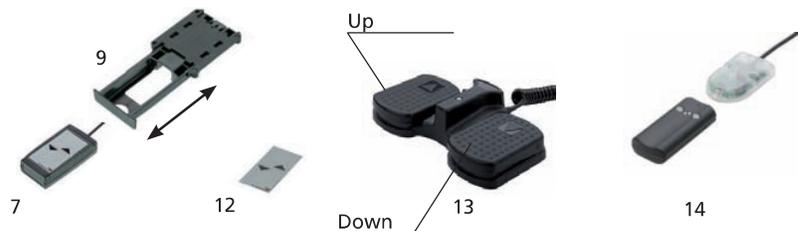
- This interface enables actuation of the synchronous control system via different input devices (PLC, PC and hand switch)

You will find further product information on page 662



Code No.	Type
QZD100108	PLC/PC data interface
QZD100110	Wall strap for mounting in a control cabinet

**Hand switches/accessories**  
(internal control  
*RKPowerlift telescope mono*)



Code No.	Version	Fig.
<b>Hand switch for <i>RKPowerlift telescope mono</i></b>		
QZB00A00BC011	Membrane keyboard with 1 m spiral cable – 2 function keys	12
QZB02C01AE114GS	Foot switch – 2 function keys	13
QZB00D04AB041	Hand switch with 1 m spiral cable – 2 function keys	7
<b>Hand switch for <i>RKPowerlift telescope mono</i> (Start and Stop)</b>		
QZB00D07BK141	Wireless hand switch – 2 function keys	14
<b>Accessories for hand switches</b>		
QZD000074	Drawer for hand switch	9

**Hand switches/accessories**  
(external control  
*RKPowerlift telescope synchro*)



Code No.	Version	Fig.
<b>Hand switch for <i>RKPowerlift telescope synchro</i></b>		
QZB00D04AD041	Hand switch with 1 m spiral cable – 6 function keys	8