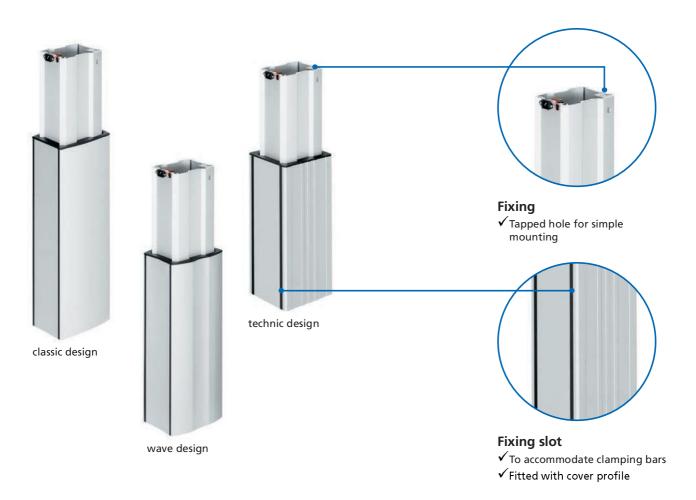
Two-stage lifting column - RKPowerlift

The power pack for high bending moments



RKPowerlift version Z:

- For push force
- High moment capacity
- High lifting speed

RKPowerlift version S:

- For push/pull forces
- Medium moment capacity
- Medium lifting speed

Features:

- Three design versions available
- Withstands high torsional and bending moments
- Integrated motor
- Choice of internal or external control
- Four fixing slots in external profile
- Adjustable stroke length
- Optimum installation height/ stroke length ratio
- Extremely quiet operation

Options:

- Special stroke lengths (screw drive)
- Quadro control enables synchronisation of up to 32 columns
- Version with manual drive via crank handle on request

RK ROSE+KRIEGER

RKPowerlift - Table of contents

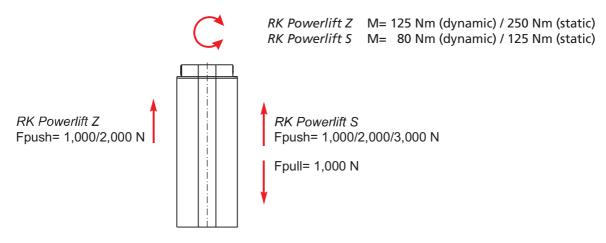
Properties/Technical	data	■ General information/operating conditions Page 60
		■ Load dataPage 60
		■ Parallel and synchronous operation Page 61
Versions (Dimensions, order numbers)		■ <i>RKPowerlift</i> Page 62
	or 2	■ RK Power lift Z monoPage 64
		■ RKPowerlift Z synchroPage 65
	1 or 2	■ RKPowerlift S monoPage 66
		■ RKPowerlift S synchroPage 67
Accessories	<u>.</u>	
Accessories	Fixing	■ Clamping bar
		■ Frame/fixing platePage 68 ■ Base platePage 69
		■ RK SyncFlexPage 70
	Position determination	■ ControlsPage 66
		■ PLC/PC data interfacePage 71
		■ Hand switchPage 71

RKPowerlift – Technical data

General information/operating conditions

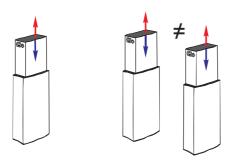
Design	Rectangular lifting column in compact design				
Guide	Multiple roller/slide bearings				
Installation position	Defined (any version s)/suspended with drop protection provided by the customer				
Push force	Choice of 1,000 N, 2,000 N, 3,000 N				
Pull force (Version S)	max. 1,000 N				
Voltage	36 V DC				
Power input	120 W / 210 W				
Protection class	IP 30				
Self-locking	Yes				
Ambient temperature	+5°C to +40°C				
Max. displacement with synchronous operation	0-3 mm rack drive/0-1.5 mm screw drive				
Duty cycle	At nominal load, 15% (max. 1.5 mins operating time, 10 mins rest time)				

Load data





RKPowerlift Mono

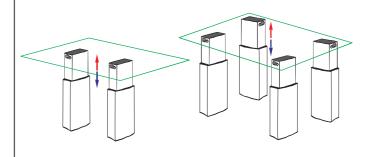


1-2 **RKPowerlifts** in single or parallel operation

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 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 146) 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. 3 mm for the version with rack drive or max. 1.5 mm for the version with screw drive. A memory function is also available.



Conveyer adjustment

RKPowerlift - Versions

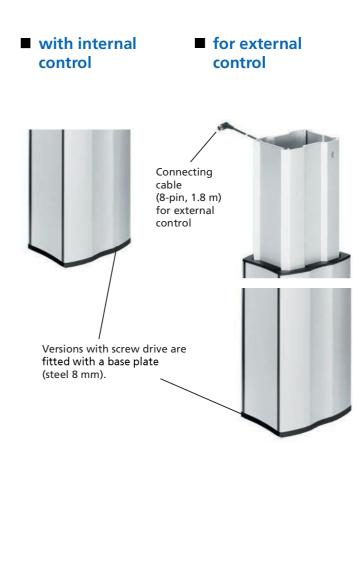
RKPowerlift Z (for push force)

with internal control

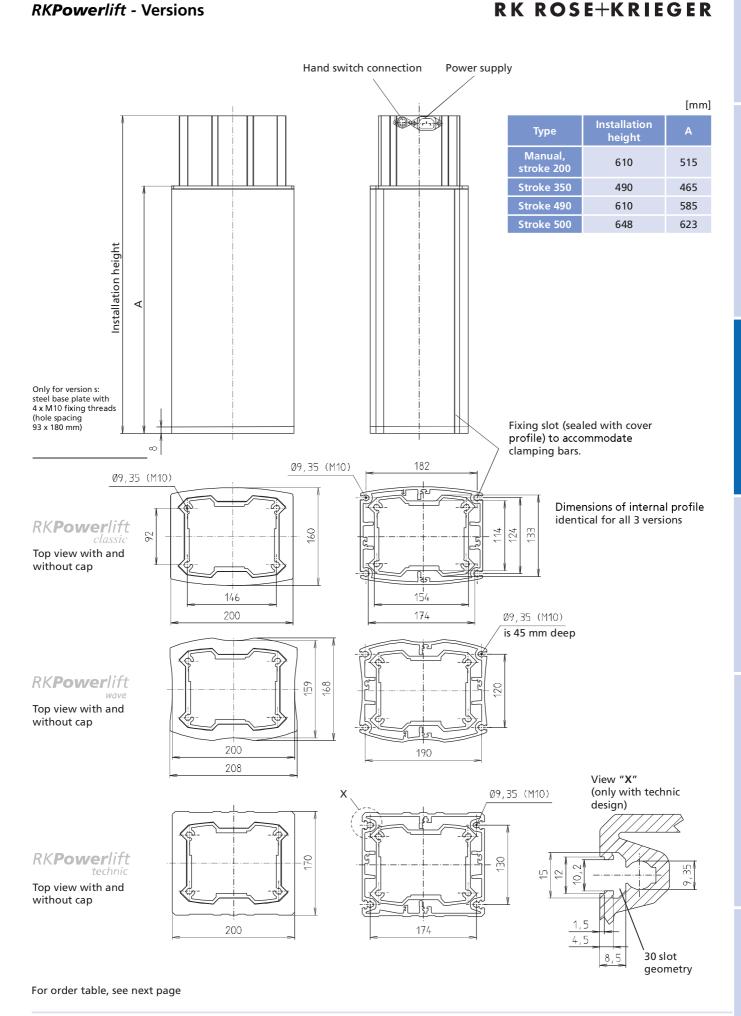




RKPowerlift S (for push and pull forces)



RK ROSE+KRIEGER



RKPowerlift - Versions

RKPowerlift Z (for push load)



RKPowerlift mono

Code No.	Туре	Push force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
	١	With internal conti	ol/standard (start and sto	pp)		
QPL35BA_20350	RK Power lift 35	1,000	35	350	490	~18
QPL35BA_20490	RK Power lift 35	1,000	35	490	610	~21
	With i	nternal control/so	ft-control (soft start and b	oraking)		
QPL28BB_40490	RK Power lift 28	2,000	28	490	610	~21
QPL35BA_40350	RK Power lift 35	1,000	35	350	490	~18
QPL35BA_40490	RK Power lift 35	1,000	35	490	610	~21
QPL50BA_40350	RK Power lift 50	1,000	50	350	490	~18
QPL50BA_40490	RK Power lift 50	1,000	50	490	610	~21
	With i	nternal control/m	emory (9 positions can be	stored)		
QPL28BB_60490	RK Power lift 28	2,000	28	490	610	~21
QPL50BA_60350	RK Power lift 50	1,000	50	350	490	~18
QPL50BA_60490	RK Power lift 50	1,000	50	490	610	~21

Design:

3 = classic 4 = wave

5 = technic





Polishing machine



RKPowerlift Z (for push load)



RKPowerlift synchro

RKPowerlift - Versions

Code No.	Туре	Push force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
With internal control/synchro memory (9 positions can be stored)						
QPL28BB_30490	RK Power lift 28	2,000	28	490	610	~21
QPL50BA_30350	RK Power lift 50	1,000	50	350	490	~18
QPL50BA_30490	RK Power lift 50	1,000	50	490	610	~21

Design:

3 = classic

4 = wave

5 = technic

Code No.	Connecting cable (bus cable)
QZD100093	For synchronisation up to 8 RKPowerlifts, 6 m

RKPowerlift internal control



RKPowerlift - Versions

RKPowerlift S (for push and pull force)



RKPowerlift mono

Code No.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
		With inter	nal control/st	andard (start and stop)			
QPL25BA_S0500	RK Power lift 25	1,000	1,000	25	500	648	~19
QPL18BB_S0500	RK Power lift 18	2,000	1,000	18	500	648	~19
QPL10BC_S0500	RK Power lift 10	3,000	1,000	10	500	648	~19
	Wi	th internal co	ontrol/memor	y (9 positions can be sto	red)		
QPL25BA_T0500	RK Power lift 25	1,000	1,000	25	500	648	~19
QPL18BB_T0500	RK Power lift 18	2,000	1,000	18	500	648	~19
QPL10BC_T0500	RK Power lift 10	3,000	1,000	10	500	648	~19

Design:

3 = classic

4 = wave

5 = technic

Code No.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
For external control							
QPL25EA_V0500	RK Power lift 25	1,000	1,000	25	500	648	~17
QPL18EB_V0500	RK Power lift 18	2,000	1,000	18	500	648	~17
QPL10EC_V0500	RK Power lift 10	3,000	1,000	10	500	648	~17

Design:

3 = classic

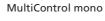
4 = wave

5 = technic

Transformer control 120 VA



approx. 24 V DC





Code No.	External control	
QZA09C13BH031	Transformer control 120 VA connection C, up to 1,000 N total lifting force, controls 1 drive	Controls 1 drive
QSTACCA1AA000	MultiControl mono connection C, up to max. I= 12 A current output, 36 V DC	Controls up to 2 drives
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 S (for push and pull loads)



RKPowerlift Synchro

Code No.	Туре	Pushe force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]	
	With internal control/ synchro memory (9 positions can be stored)							
QPL25BA_U0500	RK Power lift 25	1,000	1,000	25	500	648	~19	
QPL18BB_U0500	RK Power lift 18	2,000	1,000	18	500	648	~19	
QPL10BC_U0500	RK Power lift 10	3,000	1,000	10	500	648	~19	

Design:

- 3 = classic
- 4 = wave
- 5 = technic

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

Code No.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
For external control							
QPL25EA_V0500	RK Power lift 25	1,000	1,000	25	500	648	~17
QPL18EB_V0500	RK Power lift 18	2,000	1,000	18	500	648	~17
QPL10EC_V0500	RK Power lift 10	3,000	1,000	10	500	648	~17

Design:

- 3 = classic
- 4 = wave
- 5 = technic

MultiControl duo



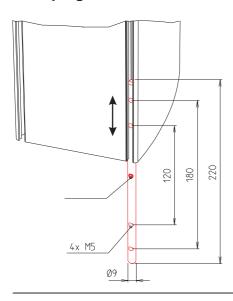
MultiControl quadro



Code No.	External control	
QST42C02AA000	MultiControl duo connection C, up to max. I= 12 A current output	For synchronous control of 1-2 drives
QST42C04AA000	MultiControl quadro connection C, up to max. I= 12 A current output	For synchronous control of 1-4 drives
	Accessories	
QZD070526	Extension cable 2,5 m drive for connector C/8-pin DIN socket	

RKPowerlift – Fixing

Clamping bar



■The clamping bar enables the fitting of attachments to the RKPowerlift. The bar is inserted in the fixing slot and fixed by means of a clamping screw. The tapped holes enable the screw connection of attachments.



■ In the case of the "technic" design version, attachments can also be secured using accessories (slot stones, etc.) from the catalogue BLOCAN® Profile Systems.

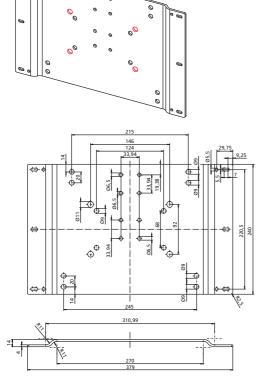
Material: St37-2 k, galvanised

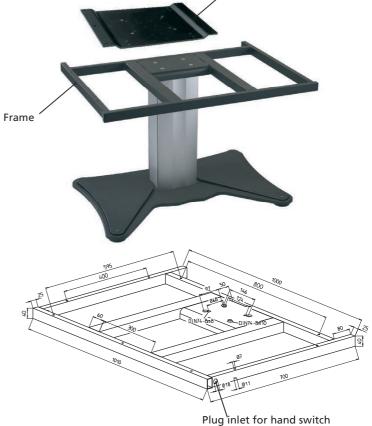
Code No.	Туре
QZD000075	Clamping bar

Frame/fixing plate for table top

Our universal fixing plate and table frame provide two standard solutions for the attachment of table tops, brackets etc. to the lifting column without the need for any further modifications. Material: steel, black powder-coated (RAL 9005), galvanised fastenings

Fixing plate





Code No.	Туре
QZD100085	Frame for <i>RKPowerlift</i> , incl. fastenings
QZD100313	Fixing plate
QZD100337	Fixing set for fixing plate <i>RKPowerlift</i> , M10 x 30 DIN 7984

RKPowerlift - Fixing



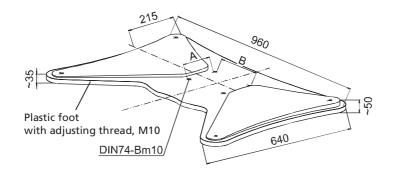
Base plate

Material: steel, black powder-coated RAL 9005, Galvanised fastenings

Scope of delivery: complete with

fastenings





[mm]

Code No.	Туре	Α	В
for RKPowerlift Z			
QZD100092	Base plate for RKPowerlift classic	124	182
QZD100084	Base plate for RK Power lift wave	120	190
QZD100090	Base plate for RKPowerlift technic	130	174
for <i>RKPowerlift</i> S			
QZD100257	Base plate for <i>RKPowerlift</i>	93	180

RKPowerlift - Fixing

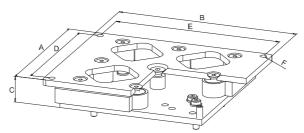
RK SyncFlex H

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.	Туре	А	В	C	D	Е	F
QZD100455	Powerlift S / Z	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)

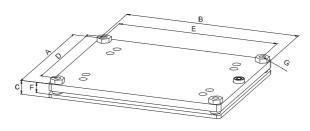


Vertical alignment

■ 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.	Туре	Α	В	С	D	E	F	G
Without pressure plate								
QZD100447	Powerlift S	200	250	-	180	230	10-15	M 10
QZD100449	Powerlift Z-classic	200	250	-	180	230	10-15	M 10
QZD100450	Powerlift Z-wave	200	250	-	180	230	10-15	M 10
With pressure plate								
QZD100464	Powerlift S	200	250	15-20	180	230	10-15	M 10
QZD100465	Powerlift Z-classic	200	250	15-20	180	230	10-15	M 10
QZD100466	Powerlift Z-wave	200	250	15-20	180	230	10-15	M 10

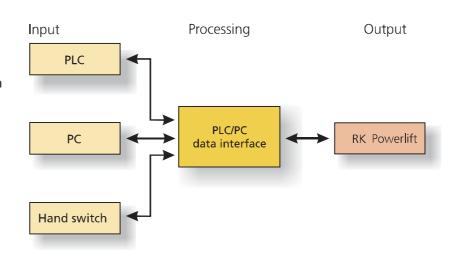
RKPowerlift - Position determination

RK ROSE+KRIEGER

PLC/PCdata interface

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

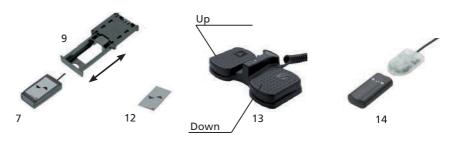
You will find further product information on page 182





Code No.	Туре
QZD100108	PLC/PC data interface
QZD100110	Fixing plate for mounting in a control cabinet

Hand switches/accessories RKPowerlift mono



Code No.	Version	Fig.				
	Hand switch for <i>RKPowerlift</i> mono					
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				
Hand	switch for <i>RKPowerlift</i> Standard (Start and Stop)					
QZB00D07BK141	Wireless hand switch – 2 function keys	14				
	Accessories for hand switches					
QZD000074	Hand switch drawer: Fig. 7 + 8	9				

RKPowerlift synchro



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

Two-stage lifting column - RKPowerlift M

The mini version of the RKPowerlift – the RKPowerlift M



RKPowerlift M

- Push and pull forces 1,500 N
- Lifting speed 13 mm/s

Features:

- Withstands high torsional and bending moments
- Integrated motor
- Extremely quiet operation
- Choice of internal or external control
- Four fixing slots in external profile
- Power receptacle at top or bottom, as preferred
- Tested to IEC 60601-1

Options:

- Special stroke lengths available on request
- Special installation lengths available on request
- Higher push forces available on request



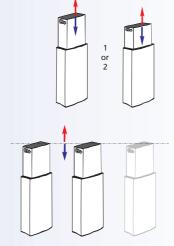
RKPowerlift M - Table of contents

Prop	erti	es/T	echr	nical	da	ta
op	CI CI	C 3/ I	CCIII	ca	au	-

- General information/operating conditions... Page 74
- Load data.....Page 74
- Parallel and synchronous operation Page 75

Versions

(Dimensions, order numbers)



- RKPowerlift M.....Page 76
- RKPowerlift M mono......Page 78
- RKPowerlift M synchro......Page 79

Accessories

Fixing

- Assembly platePage 80
- Base platePage 81
- Square nut......Page 82
- RK SyncFlex......Page 82

Position determination

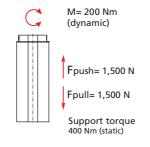
- ControlsPage 78
- PLC/PC data interface......Page 83
- Hand switchesPage 83

RKPowerlift M - Technical data

General information/operating conditions

Туре	<i>RKPowerlift M</i> for external control	<i>RKPowerlift M</i> for internal control						
Design	Rectangular lifting colu	Rectangular lifting column in compact design						
Guide	16 POM slide bearings							
Installation position	Any position/suspended with drop p	Any position/suspended with drop protection provided by the customer						
Push force*	1,500 N (3,000 N on request)							
Pull force*	1,500 N							
Max. speed	13 ^{mm} /s							
Voltage	24 V DC							
Power input	120) W						
Protection class	IP	30						
Self-locking	Y	es						
Ambient temperature	+5°C to +40°C							
Max. displacement with synchronous operation	0-2 mm							
Duty cycle	At nominal load, 15% (max. 1.5 min	s operating time, 8.5 mins rest time)						

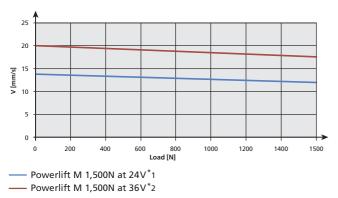
Load data



^{*} In medical applications, the maximum pull force of 750 N and the maximum push force of 1,500 N must not be exceeded.

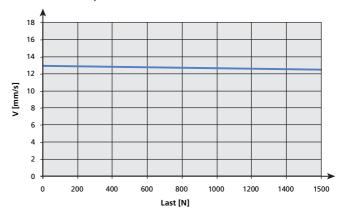
Speed/Force diagram

RKPowerlift M for external control



Speed/Force diagram

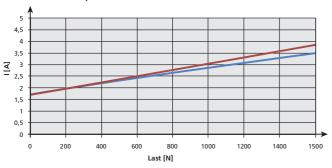
RKPowerlift M, for internal control



— Powerlift M 1,500N internal control

Current output/Force diagram

RKPowerlift M, for external control



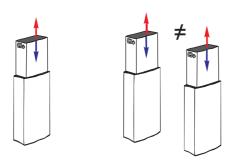
— Powerlift M 1,500N at 24V*1

Powerlift M 1,500N at 36V*2

24 V*1 determined with a transformer control 120 VA 36 V*2 determined with a MultiControl duo

RK ROSE+KRIEGER

RKPowerlift M Mono

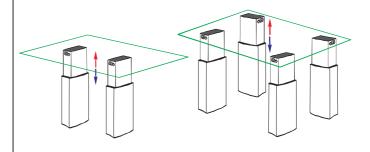


1-2 **RKPowerlifts** in single or parallel operation

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 M 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 146) 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 is max. 2 mm. A memory function is also available.

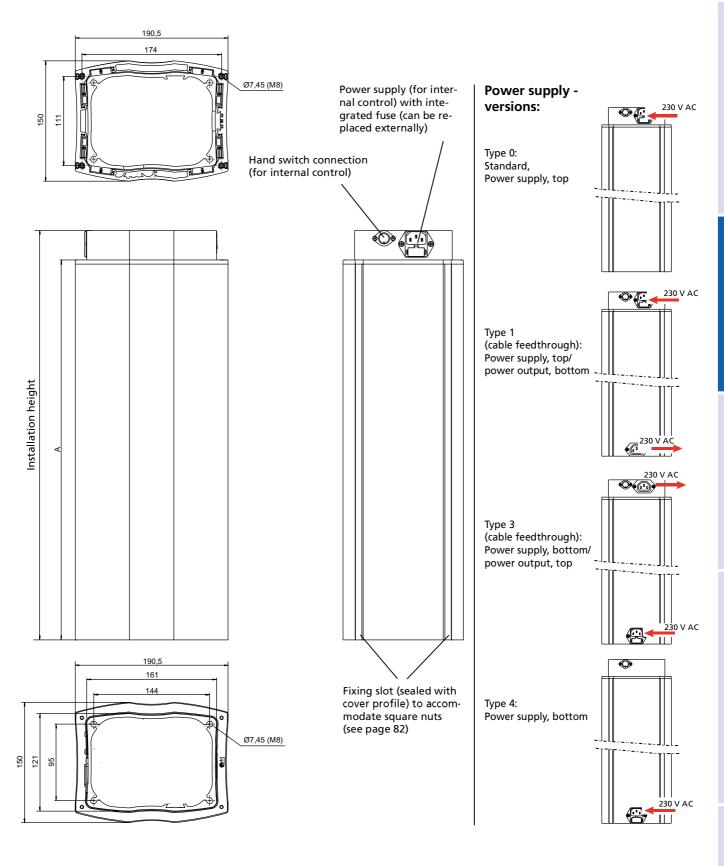


adjustment of measuring equipment via EPX/PL linear actuator

RKPowerlift M - Versions

■ with internal for external **Versions** control control Hand switch Connecting cable connection (8-pin, 1.8 m) for an external control Power supply

Power output (optional)



RKPowerlift M - Versions

RKPowerlift M mono



1-2 single or parallel operation

Code No.	Туре	Push force [N]	Pull force (med) [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	A [mm]	Weight [kg]
		With inte	rnal control/st	andard (start a	nd stop)			
QPM13BC42_300	RK Power lift M	1,500	1,500	13	300	510	473	~12.0
QPM13BC42_400	RK Power lift M	1,500	1,500	13	400	610	573	~13.5
QPM13BC42_500	RK Power lift M	1,500	1,500	13	500	710	673	~15.0
		With internal of	control/memor	y (9 positions o	an be stored)			
QPM13BC46_300	RK Power lift M	1,500	1,500	13	300	510	473	~12.0
QPM13BC46_400	RK Power lift M	1,500	1,500	13	400	610	573	~13.5
QPM13BC46_500	RK Power lift M	1,500	1,500	13	500	710	673	~15.0

For mains supply versions see page 77

0 = Standard

1 = Type 1 3 = Type 3 4 = Type 4

Code No.	Туре	Push force [N]	Pull force (med) [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	A [mm]	Weight [kg]
	For external control							
QPM13EC480300	RK Power lift M	1,500	1,500	13	300	510	473	~12.0
QPM13EC480400	RK Power lift M	1,500	1,500	13	400	610	573	~13.5
QPM13EC480500	RK Power lift M	1,500	1,500	13	500	710	673	~15.0

Transformer control 120 VA



approx. 24 V DC

MultiControl mono



Order information:

Observe the current output of the drives when selecting the control.

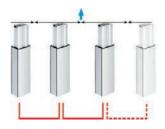
Code No.	External control					
QZA09C13BH031	Transformer control 120 VA connection C, up to max. I= 3 A, 24 V DC	Controls up to 2 drives				
QSTACCA1AA000	MultiControl mono connection C, up to max. I= 12 A current output, 36 V DC	Controls up to 2 drives				
	Accessories					
QZD0702844000*	Straight connecting 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 M - Versions



RKPowerlift M synchro



2-4 in synchronous operation

Code No.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	A [mm]	Weight [kg]
	With internal control/synchro memory (9 positions can be stored)							
QPM13BC47_300	RK Power lift M	1,500	1,500	13	300	510	473	~12.0
QPM13BC47_400	RK Power lift M	1,500	1,500	13	400	610	573	~13.5
QPM13BC47_500	RK Power lift M	1,500	1,500	13	500	710	673	~15.0

For mains supply versions see page 77

- 0 = Standard
- 1 = Type 1 3 = Type 3
- 4 = Type 4

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

	Code No.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	A [mm]	Weight [kg]
	For external control								
QP	M13EC480300	RK Power lift M	1,500	1,500	13	300	510	473	~12.0
QP	M13EC480400	RK Power lift M	1,500	1,500	13	400	610	573	~13.5
QP	M13EC480500	RK Power lift M	1,500	1,500	13	500	710	673	~15.0

MultiControl duo



MultiControl quadro



Order information:

Observe the current output of the drives when selecting the control.

Code No.	External control					
QST44C02AA000	MultiControl duo connection C, up to max. I = 12 A current output, 36 V DC	for synchronous control up to 2 drives				
QST44C04AA000	MultiControl quadro connection C, up to max. I = 12 A current output, 36 V DC	for synchronous control up to 4 drives				
	Accessories					
QZD070526 Extension cable 2,5 m drive for connector C/8-pin DIN socket						

RKPowerlift M - Fixing

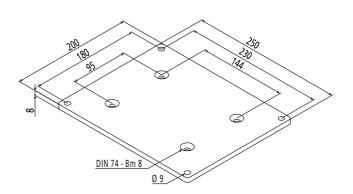
Assembly plate

■These mounting plates are fitted using the mounting kits supplied and fixed directly into the screw channels in the Powerlift "M". A further 4 holes, in the mounting plate, allow easy connection, to brackets or corresponding fixture assembly work etc.

Material: S 235 JR, black powder-coated, galvanised fixing set

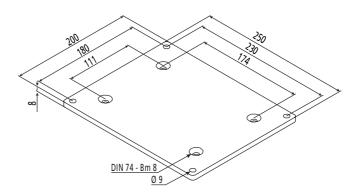
Scope of delivery: Plate, incl. fixing set





Code No.	Туре		
QZD100541	Top assembly plate		





Code No.	Туре
QZD100542	Bottom assembly plate

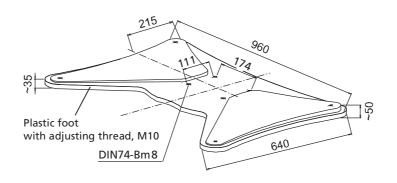
RKPowerlift M - Fixing



Base plate

Material: steel, black powder-coated (RAL 9005), Galvanised fastenings **Scope of delivery:** complete with fastenings





Code No.	Туре
QZD100546	Base plate for RK Power lift M

RKPowerlift M - Fixing

Square nut

■ For connecting accessories to the external profile



Code No.	Туре
QZD100326	Square nut M4, DIN 562, pack of 10

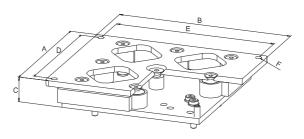
RK SyncFlex H

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.

Scope of delivery: Adjuster plate, incl. fixing material





[mm]

Code No.	Туре	Α	В	C	D	E	F	ı
QZD100453	Powerlift M	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)

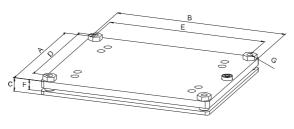
Vertikale Ausrichtung

■ 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.	Туре	Α	В	С	D	E	F	G
		Without p	essure plate	9				
QZD100446	Powerlift M	200	250	-	180	230	10-15	M 10
With pressure plate								
QZD100463	Powerlift M	200	250	15-20	180	230	10-15	M 10

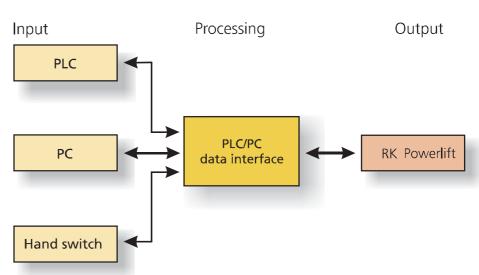
RKPowerlift M - Position determination

RK ROSE+KRIEGER

PLC/PC data interface

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

You will find further productinformation on page 182

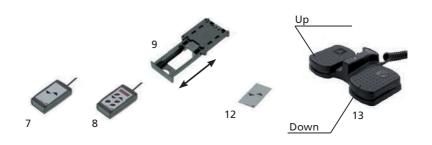




Code No.	Туре
QZD100108	PLC/PC data interface
QZD100110	Fixing plate for mounting in a control cabinet

Hand switches/accessories

(internal control RKPowerlift M mono)



Code No.	Version	Fig.
	Hand switch for <i>RKPowerlift M</i> mono	
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
	Hand switch for RK Power lift M synchro	
QZB00D04AD041	Hand switch with 1 m spiral cable – 6 function keys	8
	Accessories for hand switches	
QZD000074	Drawer for hand switch	9

Note:

For further hand switch versions, please refer to the chapter "Controls" on page 146 ff.

Multi-stage lifting column - RKPowerlift telescope

The RKPowerlift with optimised installation height/stroke ratio



RKPowerlift telescope:

- Push forces 800 N / 1,600 N Pull force 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:

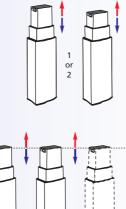
- Special stroke lengths available on request
- Quadro control enables synchronisation of up to 32 columns

RKPowerlift telescope - Table of content

Properties/Technical data

- Load data......Page 86
- Parallel and synchronous operation Page 87

Versions (Dimensions, order numbers)



■ RK Power lift telescope	Page 88
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- RKPowerlift telescope mono......Page 90
- RKPowerlift telescope synchro......Page 91

Accessories

Fixing

- Fixing platee......Page 92
- Base platePage 93
- RK SyncFlex.....Page 94

Position determination

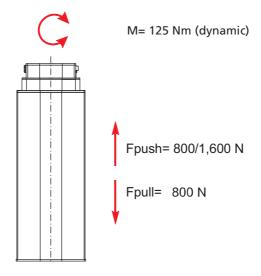
- ControlsPage 90
- PLC/PC data interface......Page 95
- Hand switchesPage 95

RKPowerlift telescope – Technical data

General information/operating conditions

Design	Rectangular lifting column in compact design			
Guide	Multiple roller/slide bearings			
Installation position	Any position/ suspended with drop protection provided by the customer			
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)			

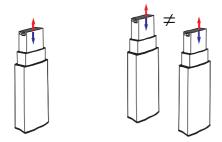
Load data



Support torque 200 Nm (static)



RKPowerlift telescope Mono

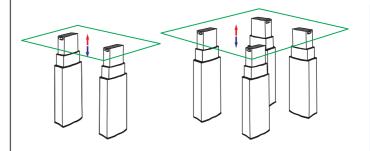


1-2 RKPowerlifts in single or parallel operation

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 146) 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.

Versions

with internal control

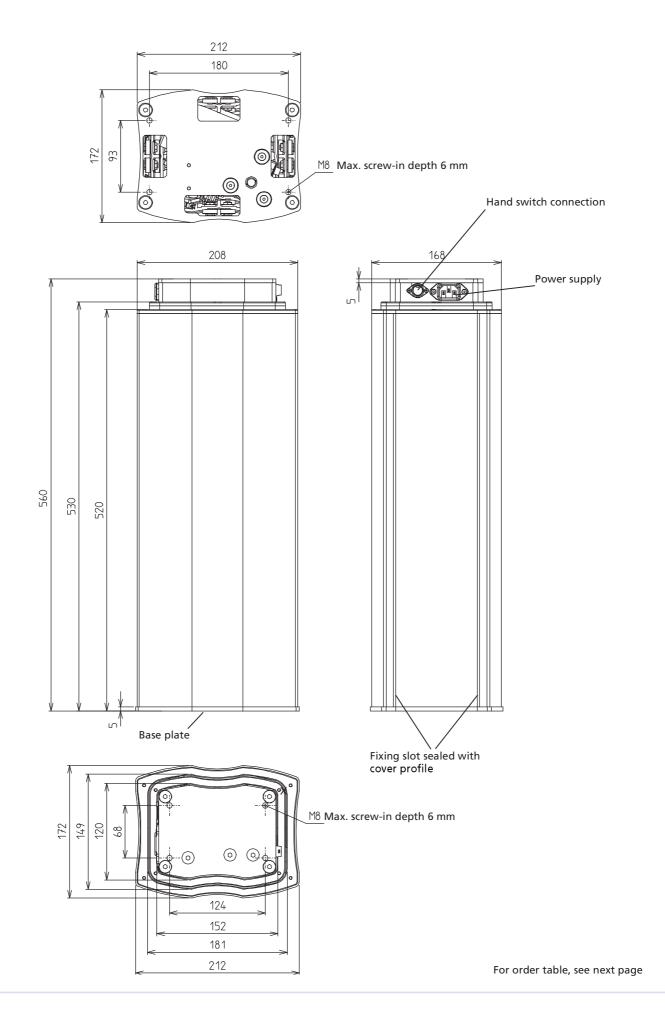
for external control

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









RKPowerlift telescope mono



1-2 single or parallel operation

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

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

Transformer control 120 VA



approx. 24 V DC



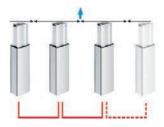


Code No.	External control for telescopic screw drive	
QZA09C13BH031	Transformer control 120 VA connection C	Controls 1 drive
QSTACCA1AA000	MultiControl mono connection C, up to max. I= 12 A current output, 36 V DC	Controls up to 2 drives
	Accessories	
QZD0702844000*	Straight connecting cable (4 m) with 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.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installa- tion height [mm]	Weight [kg]
	With internal c	ontrol/synd	chro memor	y (9 positions can be sto	red)		
QPT30BC470650	RK Power lift telescope 30	800	800	30	650	560	~18
QPT15BE470650	RK Power lift telescope 15	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.	Туре	Push force [N]	Pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installa- tion height [mm]	Weight [kg]
	For external control						
QPT30EC480650	RK Power lift telescope 30	800	800	30	650	560	~17
QPT15EE480650	RK Power lift telescope 15	1,600	800	15	650	560	~17

MultiControl (duo und quadro)



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
	Accessories	
QZD070526	Extension cable 2,5 m drive for connector C/8-pin DIN socket	

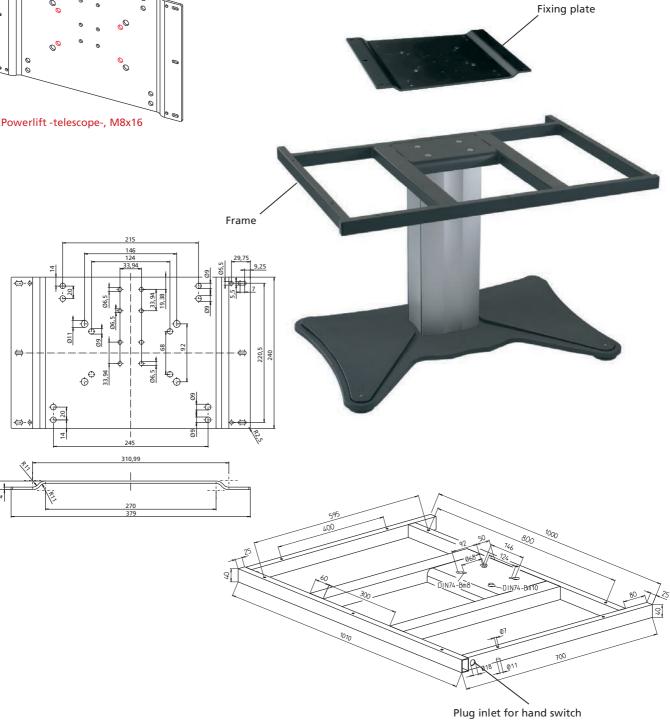
RKPowerlift telescope – Fixing

Frame/fixing plate for table top

RKPowerlift -telescope-, M8x16

■ Our universal fixing plate and table frame provide two standard solutions for the attachment of table tops, brackets etc. to the lifting column without the need for any further modifications.

Material: steel, black powder-coated (RAL 9005) Galvanised fastenings



Туре
Frame for RKPowerlift telescope, incl. fastenings
Fixing plate
Fixing set for fixing plate RK Power lift telescope, M8 x 16 DIN 7984

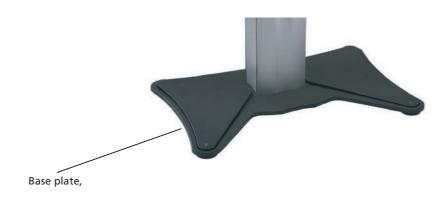
RKPowerlift telescope - Fixing

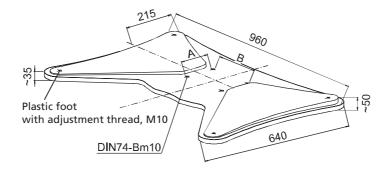


Base plate

Material: steel, black powder-coated (RAL 9005) Galvanised fastenings

Scope of delivery: complete with fastenings





			[mm]
Code No.	Туре	Α	В
QZD100257	Base plate for RK Power lift telescope	93	180

RKPowerlift telescope – Fixing

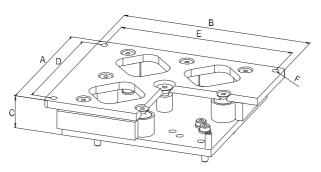
RK SyncFlex H

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.	Туре	А	В	C	D	Е	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)

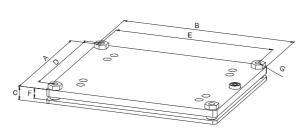
Vertical alignment

■ 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.	Туре	Α	В	С	D	E	F	G
Without pressure plate								
QZD100447	Powerlift telescope	200	250	-	180	230	10-15	M 10
With pressure plate								
QZD100464	Powerlift telescope	200	250	15-20	180	230	10-15	M 10

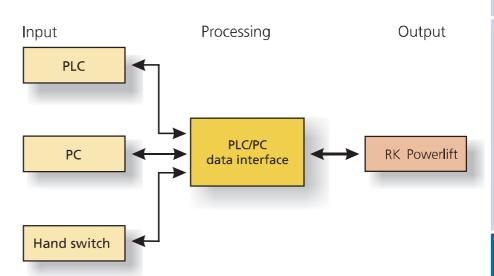
RKPowerlift telescope - Position determination



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 182





Code No.	Туре
QZD100108	PLC/PC data interface
QZD100110	Fixing plate for mounting in a control cabinet

Hand switches / accessories (internal control RKPowerlift telescope mono)



Code No.	Version	Fig.			
Hand switch for RK Power lift telescope mono					
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				
Hand switch for RK Power lift telescope mono (Start and Stop)					
QZB00D07BK141	Wireless hand switch – 2 function keys	14			
Accessories for hand switches					
QZD000074	Drawer for hand switch	9			

Hand switches/accessories (external control RKPowerlift telescope synchro)



Code No.	Version					
Hand switch for RKPowerlift telescope synchro						
QZB00D04AD041	Hand switch with 1 m spiral cable – 6 function keys	8				