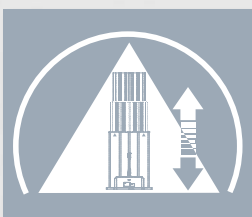


For any application the
best lifting column



Multilift II product line

The RK linear circle

Multilift II product line



Multilift II telescope

from page 20

Multilift II

from page 4

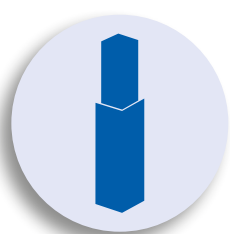
**Your application
takes
centre stage**

Controls & Accessories

from page 30

Features:

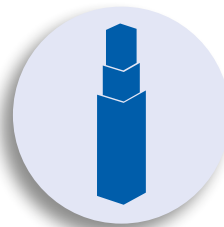
- ✓ Fully integrated technology / maintenance-free
- ✓ Self-locking, even under max. load
- ✓ Withstands torsional and bending moments
- ✓ Clear anodised aluminium profile surface
- ✓ Special versions available on request





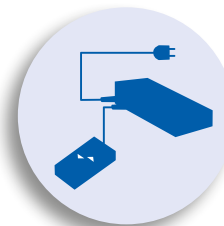
Features:

- ✓ Fully integrated technology / maintenance-free
- ✓ Self-locking, even under max. load
- ✓ Can be installed in any position
- ✓ Various speeds
- ✓ Optimum installation height/stroke length ratio
- ✓ Special versions available on request

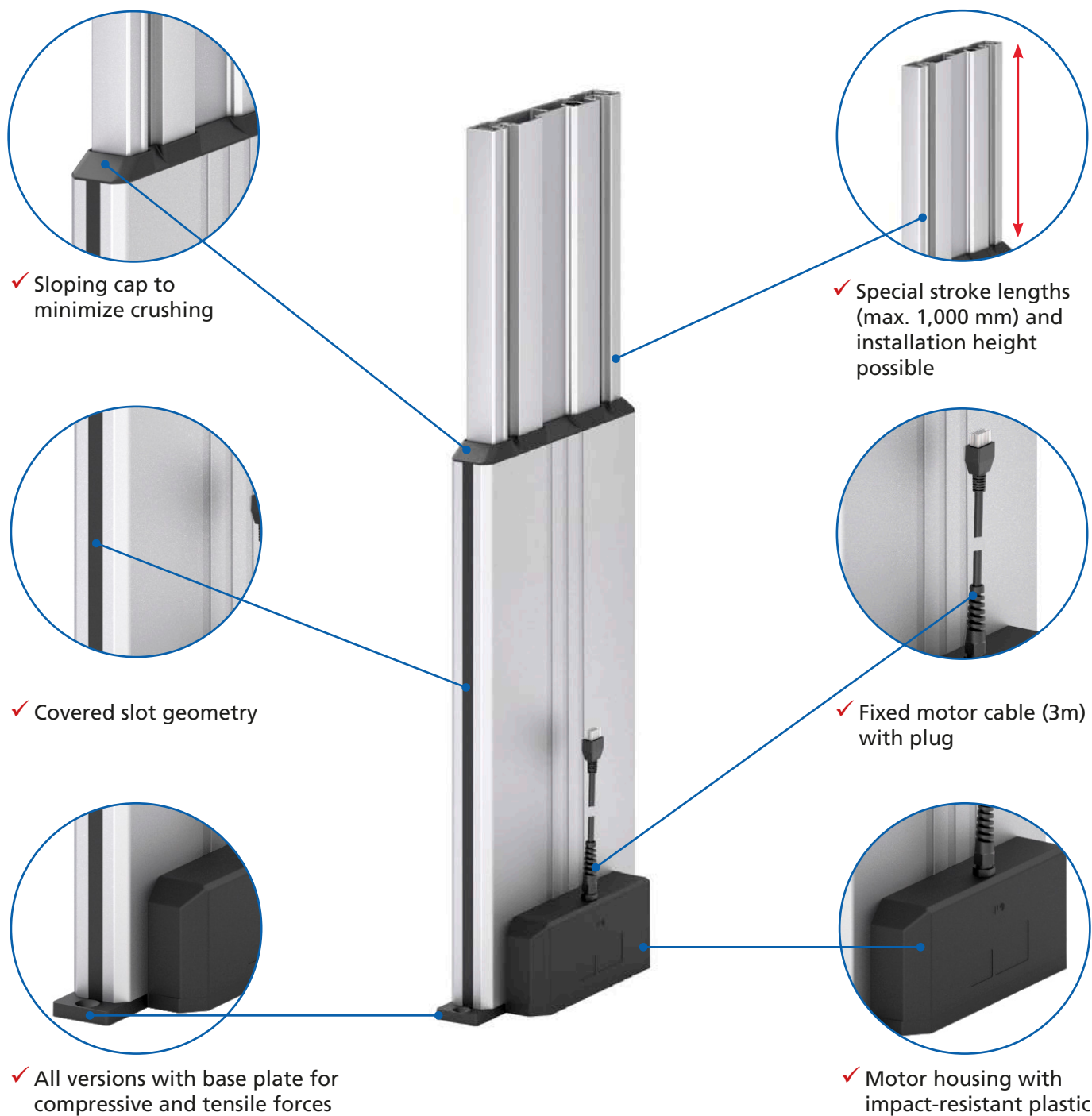


Features:

- ✓ Connection for up to 16 drives (BUS-system)
- ✓ Duty cycle, overcurrent and temperature monitoring for overload protection as standard
- ✓ Intuitive operation
- ✓ Simple connection to master control system
- ✓ Wide-range input



Multilift II



Highlights / Features:

- Integrated limit switches
- Self-locking, even at max. load
- Lateral fixing slot in external profile
- Position feedback by hall sensor

Options:

- Special stroke lengths and installation height available on request
- With synchronous control:
 - Cascading of several columns
- Customised solutions on request

Multilift II – Table of contents

Properties / Technical data		<ul style="list-style-type: none"> ■ General information/operating conditions .. Page 6 ■ Load data..... Page 6
Versions	Lifting columns	<ul style="list-style-type: none"> ■ Multilift II Page 8 ■ Set Multilift II Page 9 ■ Multilift II ESD Page 10 ■ Multilift II impact Page 12 ■ Multilift II safety..... Page 14
Accessories	Fixing	<ul style="list-style-type: none"> ■ RK SyncFlex..... Page 16 ■ Assembly plate Page 17 ■ Foot versions Page 18

Multilift II – Technical data

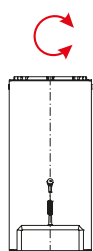
General information/operating conditions

Type	Multilift II	Multilift II ESD	Multilift II impact	Multilift II safety
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			hanging
Push force	3,000 N or 1.000 N		3,000 N	-
Pull force	3,000 N or 1.000 N		3,000 N	600 N
Self-locking	3,000 N			600 N
Max. speed	8 mm/s or 16 mm/s		8 mm/s	16 mm/s
Max. Stroke	500 mm			
Installation height	Stroke + 203 mm		Stroke + 212 mm	Stroke + 203 mm
Voltage	24 V DC			
Current output	4 A			
Protection class	IP 30			
Ambient temperature	+5°C to +40°C			
Displacement during synchronous operation	0–2 mm			no synchronous operation available
Duty cycle (Operation mode S 3)	At nominal load, 10% (2 min operating time, 18 mins rest time)			

Note:

All data refer to standard sizes.

Load data Multilift II



$M_x = 200 \text{ Nm}$
(dynamic)

Support torque load
300 Nm (static)



$M_y = 130 \text{ Nm}$
(dynamic)

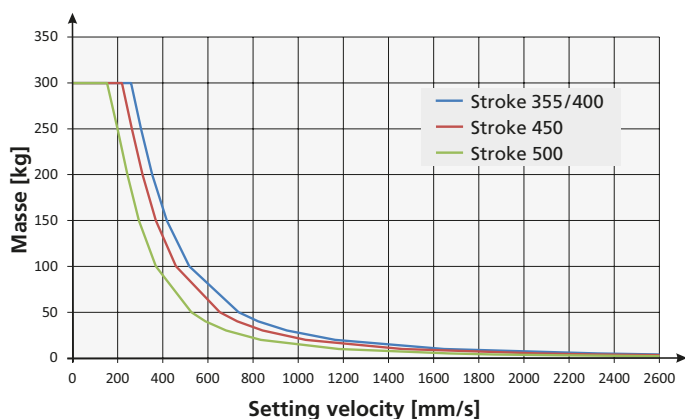
Support torque load
200 Nm (static)

Note:

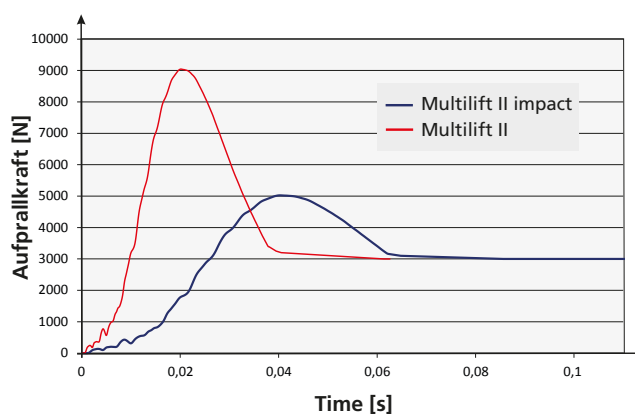
The Multilift II safety is only designed for centric load. In cases of eccentric load please contact RK Rose+Krieger.

Performance diagram Multilift II impact

Possible setting velocity in relation to the weight of the workpiece in consideration of the different stroke lengths

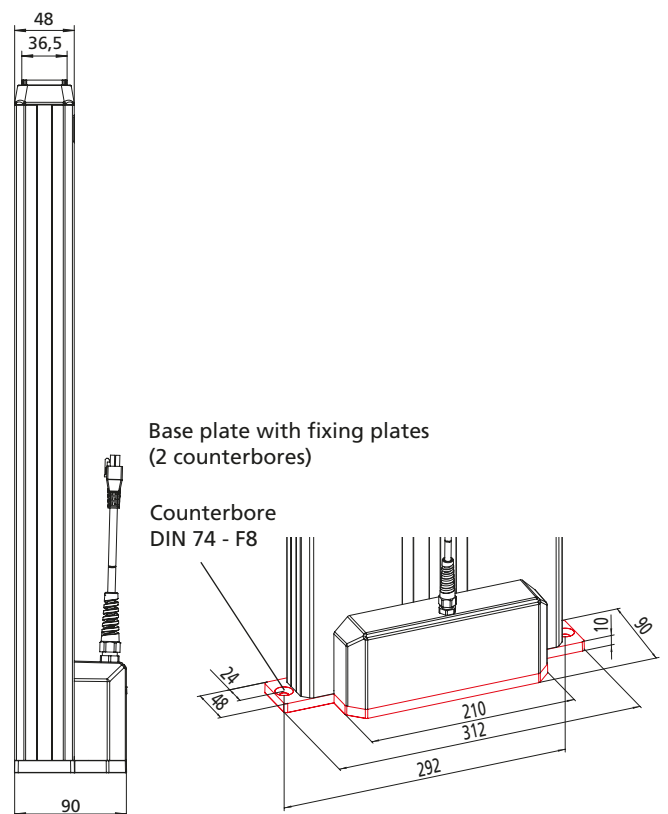
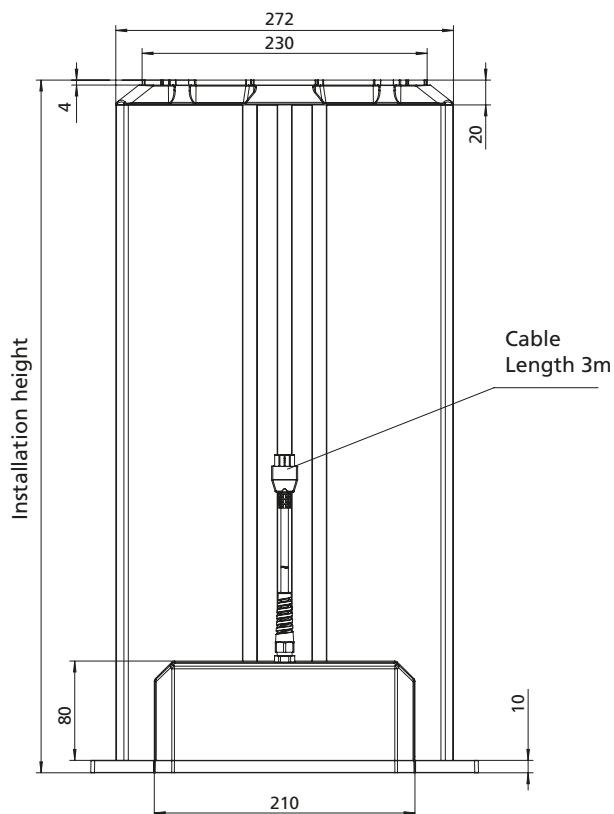
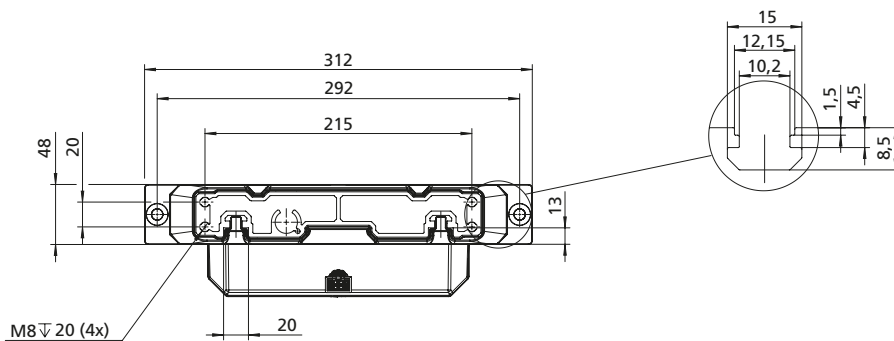


Exemplary force progression at an impact of a workpiece with $v = 260 \text{ [mm/s]}$ and $m = 300 \text{ [Kg]}$



Multilift II / ESD / impact / safety

- 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.



Multilift II – Versions

Multilift II – maximum versatility

Customer feedback formed the basis for a number of improvements to the design of the Multilift II. Our latest new feature is an assembly slot on both sides of the external profile of the electric lifting column, which is compatible with the RK Rose+Krieger aluminium profile system and can take corresponding slot stones. They allow additional attachments such as reinforcements, screening and so on to be mounted without any problems.



Special features:

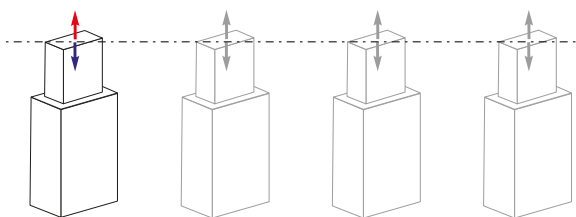
- Lateral fixing slots
- Captive plug connections
- Suitable for both tensile and compressive loads

Ideal area of application:

- ✓ Workplace ergonomics
- ✓ Industrial technology
- ✓ Media technology

Lifting column and control as individual components:

Multilift II can be used exclusively in combination with MultiControl II duo! (see page 32)

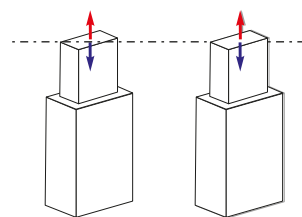


Features:

- Supports configuration of systems with up to 16 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Lifting column and control as pre-assembled set:

Multilift II can be used exclusively in combination with Compact-e-3-EU! (see page 38)



Features:

- Exclusively for a 2-column table system
- System is factory-initialised (Plug & Play)

Scope of delivery:

- 2 Multilifts II
- 1 Controller box Compact-e-3-EU
- 4 Cover profiles
- 4 Slot stones

Individual components:

Lifting column Multilift II

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TM22B1C3C22CA0355	Multilift II	3,000	3,000	8	355	558	10.5
TM22B1C3C22CA0400					400	603	11.5
TM22B1C3C22CA0450					452	658	12.0
TM22B1C3C22CA0500					497	703	13.0
TM22B1C2C22CA0355	Multilift II	1,000	1,000	16	355	558	10.5
TM22B1C2C22CA0400					400	603	11.5
TM22B1C2C22CA0450					452	658	12.0
TM22B1C2C22CA0500					497	703	13.0

Control MultiControl II duo



Order instruction:
Please select mains cable
and hand switch separately
(see page 34)

Code No.	Type	external control
QST11H12AA000	MultiControl II duo	synchronisation of up to 2 columns

Set:

Multilift II in combination with
Compact-e-3-EU control

Order instruction:
Please select mains cable
and hand switch separately
(see page 39)

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TS22B1C3C22CA0355	Multilift II Set 230V AC	3,000	3,000	8	355	558	21.5
TS22B1C3C22CA0400					400	603	23.5
TS22B1C3C22CA0450					452	658	24.5
TS22B1C3C22CA0500					497	703	26.5
TS22B1C2C22CA0355	Multilift II Set 230V AC	1,000	1,000	16	355	558	21.5
TS22B1C2C22CA0400					400	603	23.5
TS22B1C2C22CA0450					452	658	24.5
TS22B1C2C22CA0500					497	703	26.5

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 – Versions

Multilift II ESD – discharging voltages via the lifting column

In the electronics and semiconductor manufacturing industry, electrostatic discharges can impair the function of components being assembled, or even destroy them. With the Multilift II ESD, RK Rose+Krieger has developed a patented electric height adjustment system that is able to dissipate voltages.



Special feature:

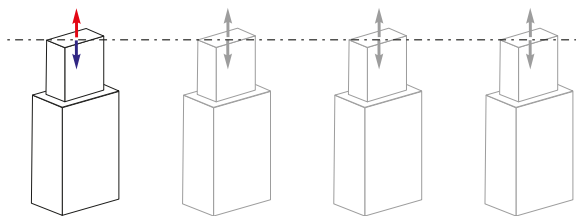
- Outer and inner profile electrically connected to each other

Ideal area of application:

- ✓ Assembly workstations for the manufacture of electronic components

Lifting column and control as individual components:

Multilift II ESD can be used exclusively in combination with MultiControl II duo! (see page 32)



Features:

- Supports configuration of systems with up to 16 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Individual components:

Lifting column Multilift II ESD

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TM22B1C3C22CC0355	Multilift II ESD	3,000	3,000	8	355	558	10.5
TM22B1C3C22CC0400					400	603	11.5
TM22B1C3C22CC0450					452	658	12.0
TM22B1C3C22CC0500					497	703	13.0
TM22B1C2C22CC0355	Multilift II ESD	1,000	1,000	16	355	558	10.5
TM22B1C2C22CC0400					400	603	11.5
TM22B1C2C22CC0450					452	658	12.0
TM22B1C2C22CC0500					497	703	13.0

Control MultiControl II duo



Order instruction:
Please select mains cable
and hand switch separately
(see page 34)

Code No.	Type	external control
QST11H12AA000	MultiControl II duo	synchronisation of up to 2 columns

Multilift II – Versions

Multilift II impact – integrated damping absorbs high impact forces

The slim electric height adjustment system has an integrated damping system that is able to absorb high impact forces, such as those that occur when unloading a workpiece.



Special feature:

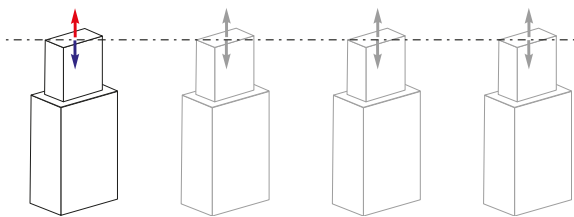
- Allows impact forces due to an internal damping system

Ideal area of applicatio:

- ✓ Workplace ergonomics
- ✓ Industrial technology

Lifting column and control as individual components:

Multilift II impact can be used exclusively in combination with MultiControl II duo! (see page 32)



Features:

- Supports configuration of systems with up to 16 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Individual components:

Lifting column Multilift II impact

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TM22B1C3C22CB0355	Multilift II impact	3,000	3,000	8	355	567	10.5
TM22B1C3C22CB0400					400	612	11.5
TM22B1C3C22CB0450					452	667	12.0
TM22B1C3C22CB0500					497	712	13.0

Control MultiControl II duo



Order instruction:
Please select mains cable
and hand switch separately
(see page 34)

Code No.	Type	external control
QST13H12AA000	MultiControl II duo	synchronisation of up to 2 columns

Multilift II – Versions

Multilift II safety – turning things on their head

RK Rose+Krieger has developed this column specially for overhead applications in media technology. Its uses include the correct positioning of projectors and monitors, whereby the lifting column is mounted upside down on the ceiling.



Special feature:

- Integrated fall protection

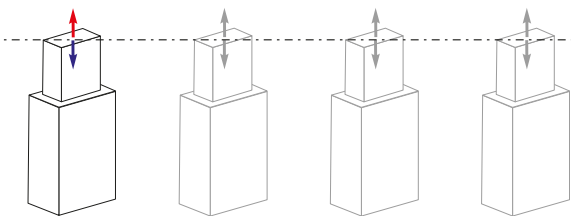
Ideal area of application:

- ✓ Media technology



Lifting column and control as individual components:

Multilift II safety can be used exclusively in combination with MultiControl II duo! (see page 32)



Features:

- Supports configuration of systems with up to 16 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Individual components:

Lifting column Multilift II safety

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TM22B1C2C22CD0355	Multilift II safety	–	600	16	355	558	11.5
TM22B1C2C22CD0400					400	603	12.0
TM22B1C2C22CD0450					452	658	13.0
TM22B1C2C22CD0500					497	703	13.5

Control MultiControl II duo



Order instruction:
Please select mains cable
and hand switch separately
(see page 34)

Code No.	Type	external control
QST11H12AA000	MultiControl II duo	synchronisation of up to 2 columns

Multilift II – Accessories

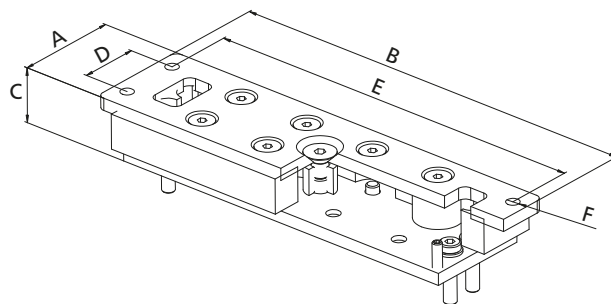
RK SyncFlex H

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.



[mm]

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

RK SyncFlex V

Scope of delivery:
Adjuster plate, incl. fixing material

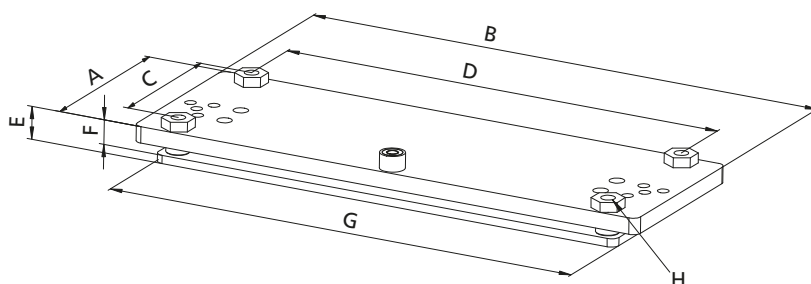
Option:
Pressure plate (see table) can be ordered separately

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.



[mm]

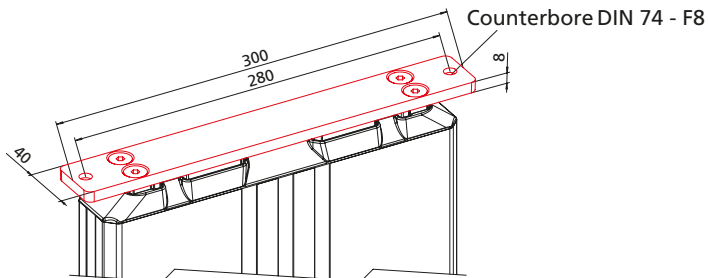
Code No.	Type	A	B	C	D	E	F	G	H
RK SyncFlex V Adjusting plate									
QZD020620	Multilift II product line	110	328	90	280	–	10-15	–	M10
Pressure Plate									
QZD020621	Multilift II product line	110	–	90	280	15-20	–	300	–

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 for internal profile

Code No.	for drive
QZD020549	Multilift II/impact/safety
QZD020671	Multilift II ESD



Multilift II – Accessories

Foot versions

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

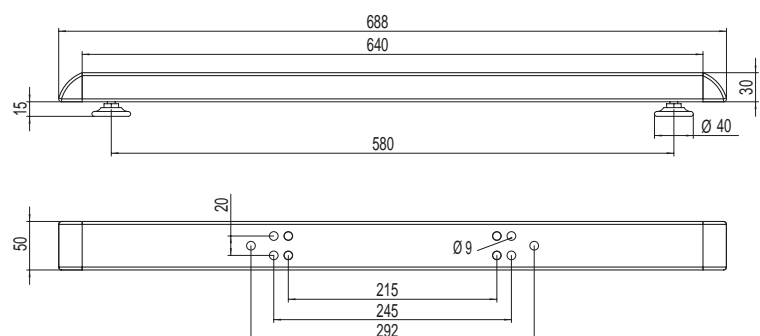
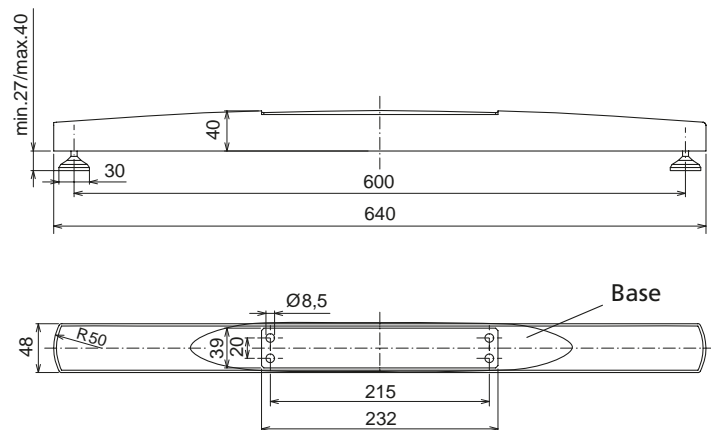
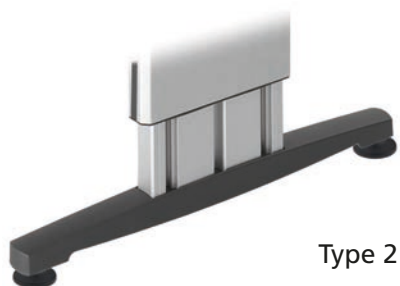
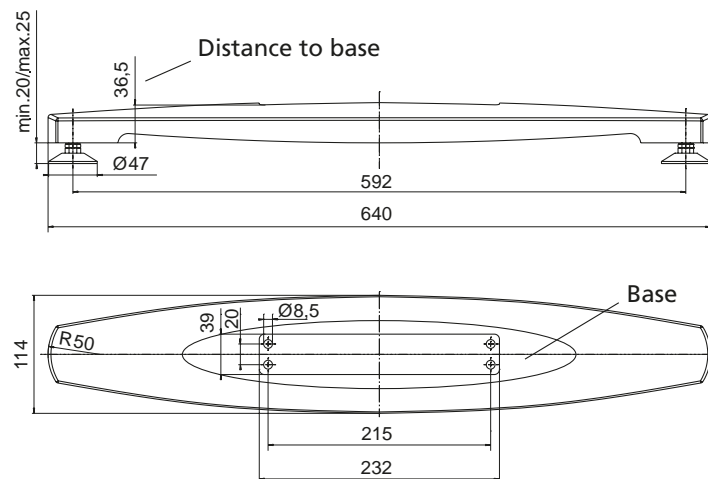
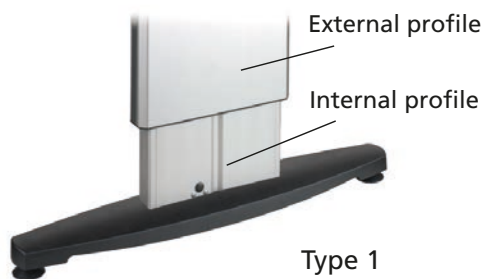
Material:

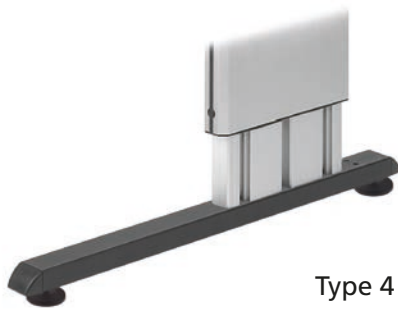
Type 1/2 GK-ALSi12/3.2583.02,
black powder-coated

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

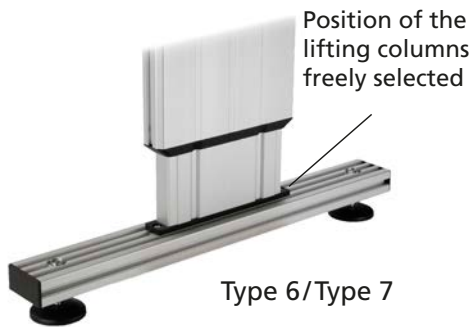
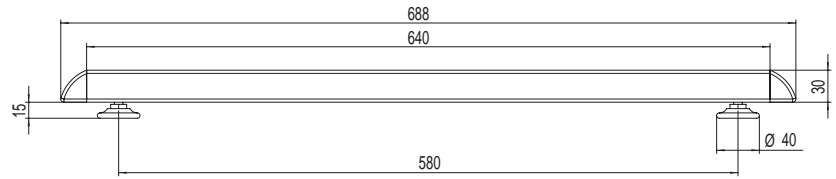
Scope of delivery:

one foot with fixing set

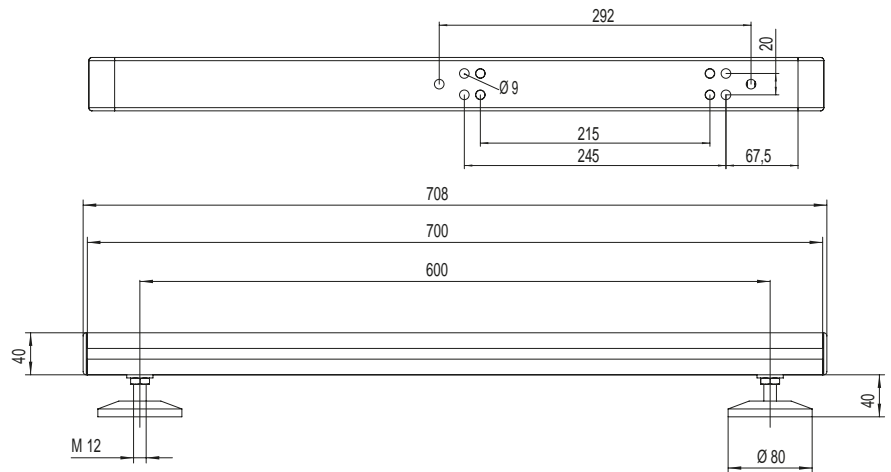




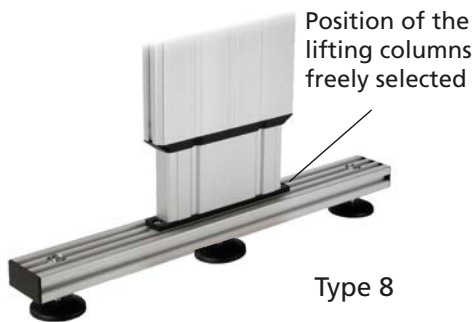
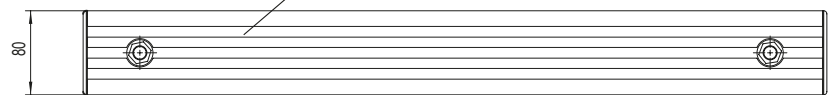
Type 4



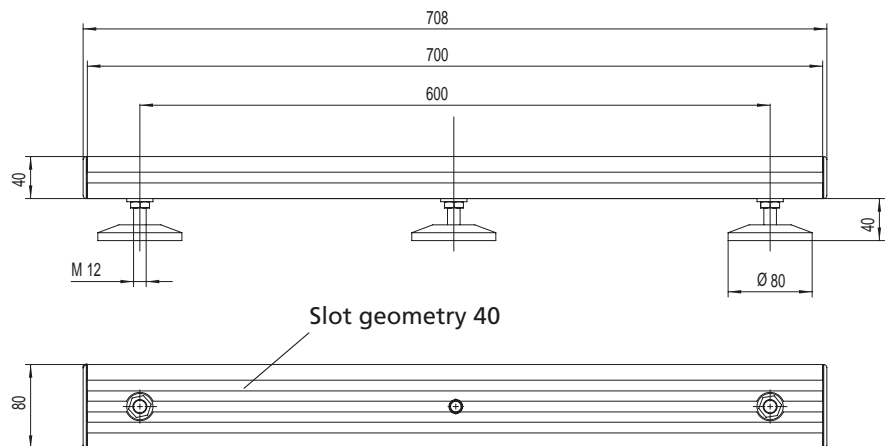
Type 6/Type 7



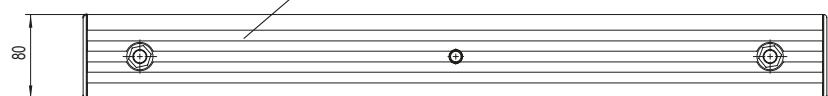
Slot geometry 40



Type 8



Slot geometry 40

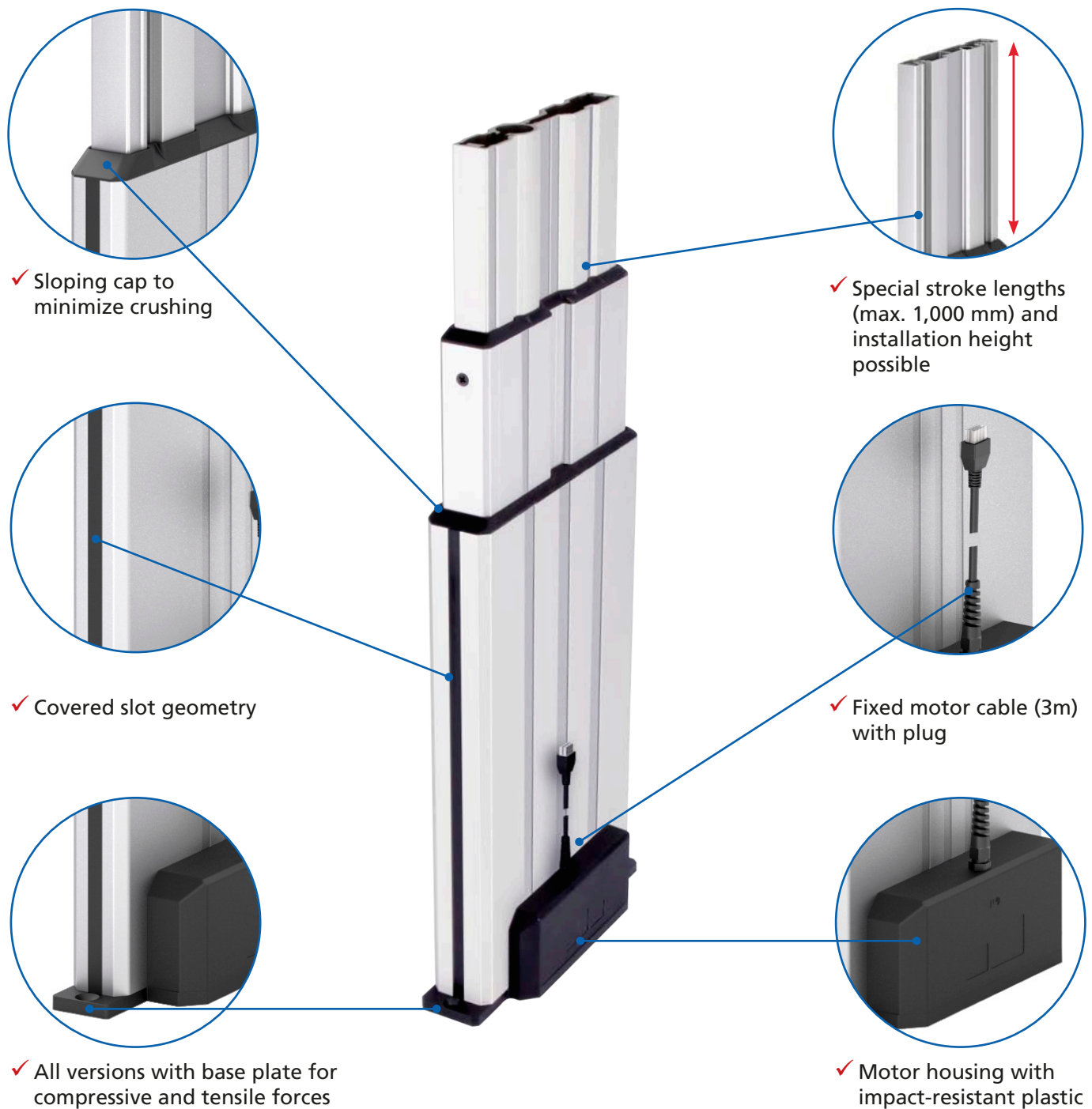


***Order instruction:**

The application example shown—internal profile mounted on Type 6, 7, 8 – is only in combination with an assembly plate possible (see page 17)

Code No.	Type	Max. load	Multilift II		Multilift II ESD		Multilift II impact	
			Internal profile	External profile	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	●*	●				
QZD020257	7	3,000 N			●*	●		
QZD020258	8	3,000 N					●*	●

Multilift II telescope



Highlights / Features:

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

Options:

- Special stroke lengths and installation height available on request
- With synchronous control:
 - Cascading of several columns
- Customised solutions on request

Multilift II telescope – Table of contents

Properties / Technical data		<ul style="list-style-type: none">■ General information/operating conditions.....Page 22■ Load data.....Page 22
Versions	Lifting columns	<ul style="list-style-type: none">■ Multilift II telescope.....Page 24■ Set Multilift II telescope.....Page 25
Accessories	Fixing	<ul style="list-style-type: none">■ RK SyncFlex.....Page 26■ Assembly platePage 27■ Foot versionsPage 28

Multilift II telescope – Technical data

General information/operating conditions

Type	Multilift II telescope
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	3,000 N or 1,000 N
Pull force	2,000 N or 1,000 N
Self-locking	3,000 N
Max. speed	8 mm/s or 16 mm/s
Max. Stroke	650 mm
Installation height	560 mm
Voltage	24 V DC
Current output	4 A
Protection class	IP 30
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)

Note:

All data refer to standard sizes.

Load data Multilift II telescope



$M_x = 200 \text{ Nm}$
(dynamic)

Support torque load
300 Nm (static)

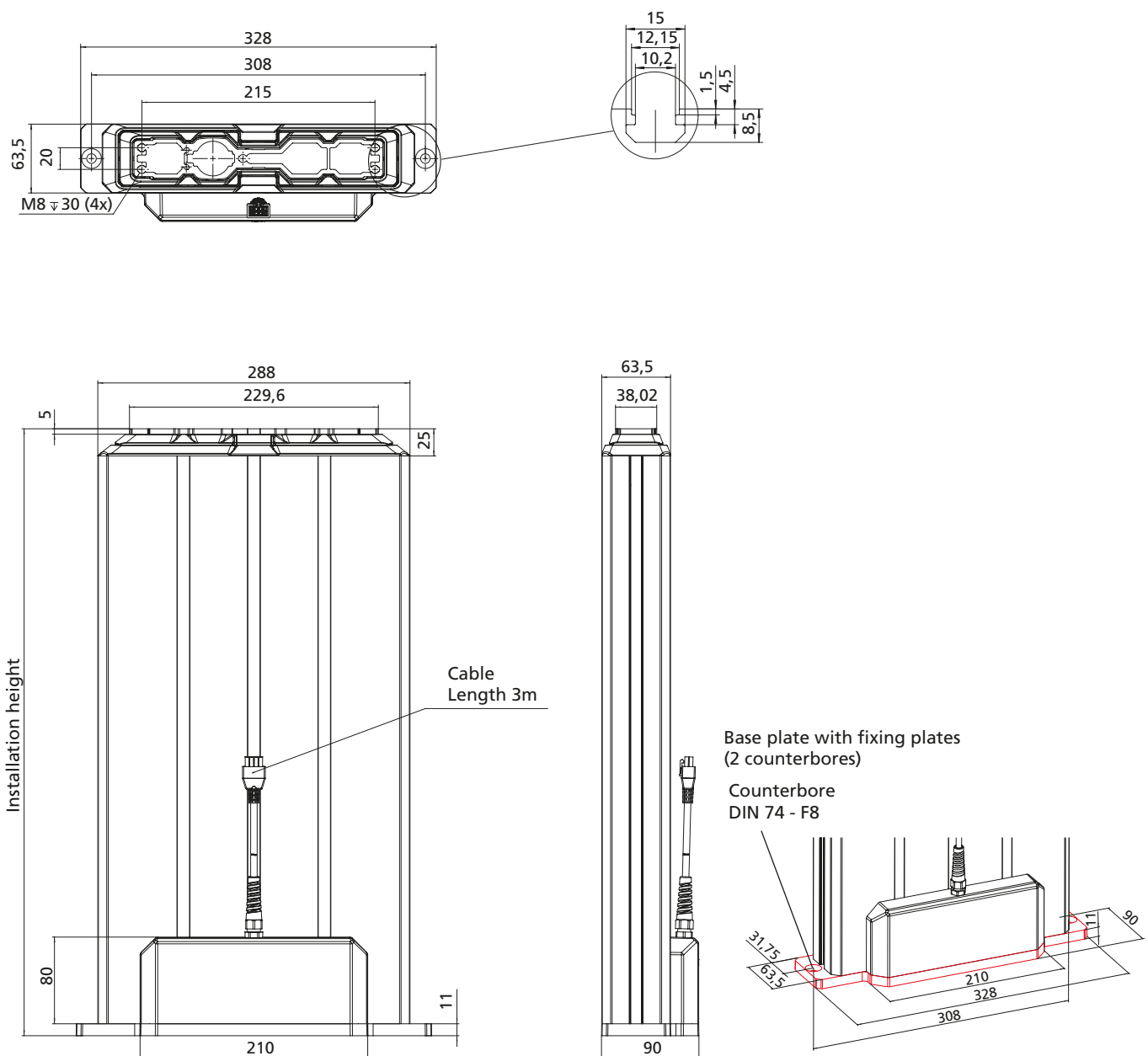


$M_y = 130 \text{ Nm}$
(dynamic)

Support torque load
150 Nm (static)

Multilift II telescope

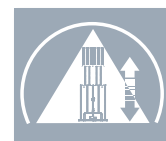
- The fixing slots on the side allow an easy attachment of accessories. For example, a screen, CPU bracket or system reinforcements can be fixed to the lifting columns by using slot stones. The 30 slot geometry is also compatible with the RK BLOCAN® aluminium profile system.



Multilift II telescope – Versions

Multilift II telescope – unique installation height / stroke ratio

The three-stage lifting column conforms to the ergonomics standard for workbenches (DIN EN 527-1:2011) and features an optimum height / stroke length ratio: the installation dimension in a retracted position is just 560 mm. The maximum stroke is 650 mm with a maximum lifting force of up to 3,000 N per drive.



Special feature:

- Optimised height / stroke length ratio conforms to the ergonomic standard for workbenches (DIN EN 527-1:2011)

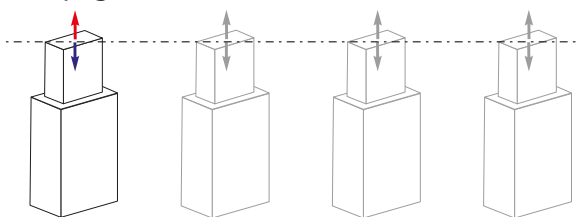
Ideal area of application:

- ✓ Especially for seated and standing workplaces in the production
- ✓ LEAN-Workplaces



Lifting column and control as individual components:

Multilift II telescope can be used exclusively in combination with MultiControl II duo! (see page 32)

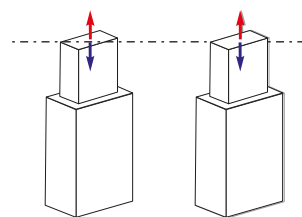


Features:

- Supports configuration of systems with up to 16 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Lifting column and control as pre-assembled set:

Multilift II telescope can be used exclusively in combination with Compact-e-3-EU! (see page 38)



Features:

- Exclusively for a 2-column table system
- System is factory-initialised (Plug & Play)

Scope of delivery:

- 2 Multilifts II
- 1 Controller box Compact-e-3-EU
- 4 Cover profiles
- 4 Slot stones

Individual components:

Lifting column Multilift II telescope

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation height [mm]	Weight [kg]
TM13B1C3C22CA0650	Multilift II telescope	3,000	2,000	8	650	560	15.0
TM13B1C2C22CA0650	Multilift II telescope	1,000	1,000	16	650	560	15.0

Control MultiControl II duo



Order instruction:
Please select mains cable
and hand switch separately
(see page 34)

Code No.	Type	external control
QST12H12AA000	MultiControl II duo	synchronisation of up to 2 columns

Set:

Multilift II telescope in combination
with Compact-e-3-EU control

Order instruction:
Please select mains cable
and hand switch separately
(see page 39)

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [N]	Total travel [mm]	Installation height [mm]	Weight [kg]
TS13B1C3C22CA0650	Multilift II telescope Set 230V AC	3,000	2,000	8	650	560	31.0
TS13B1C2C22CA0650	Multilift II telescope Set 230V AC	1,000	1,000	16	650	560	31.0

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 – Accessories

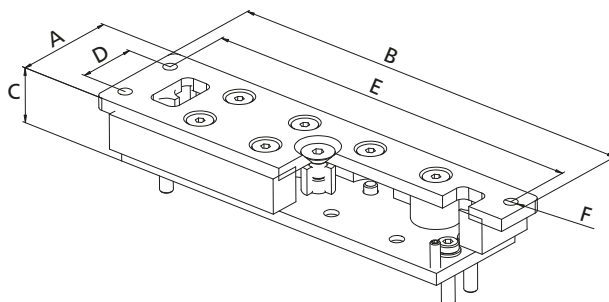
RK SyncFlex H

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.



[mm]

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

RK SyncFlex V

Scope of delivery:
Adjuster plate, incl. fixing material

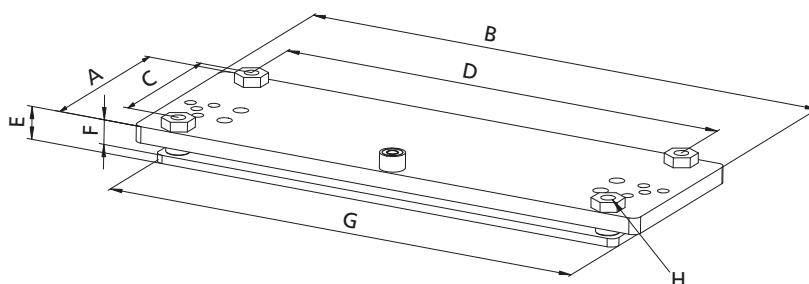
Option:
Pressure plate (see table) can be ordered separately

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.



[mm]

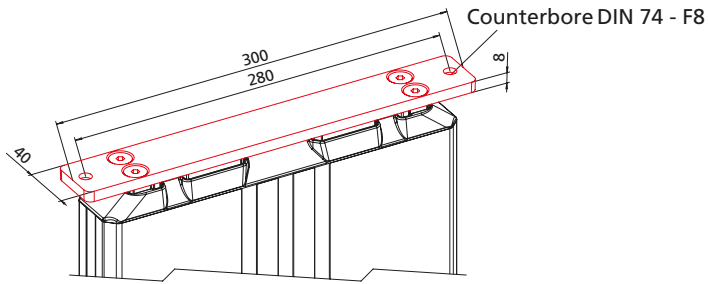
Code No.	Type	A	B	C	D	E	F	G	H
RK SyncFlex V Adjusting plate									
QZD020620	Multilift II product line	110	328	90	280	–	10-15	–	M10
Pressure Plate									
QZD020621	Multilift II product line	110	–	90	280	15-20	–	300	–

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 for internal profile

Code No.	for drive
QZD020549	Multilift II telescope



Multilift II telescope – Accessories

Foot versions

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

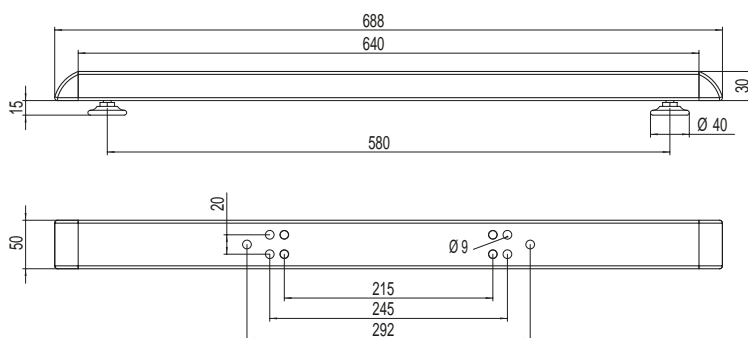
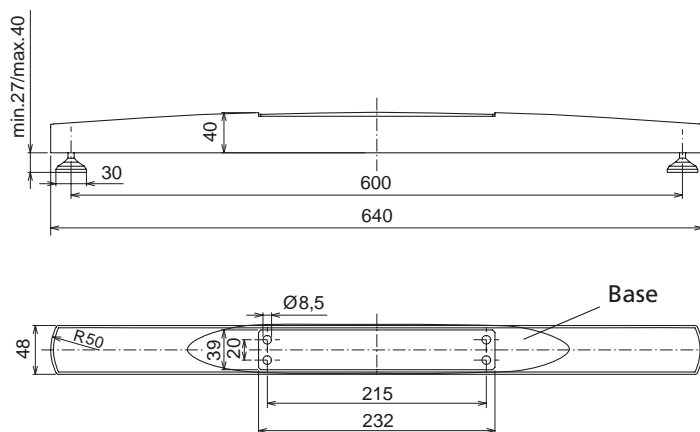
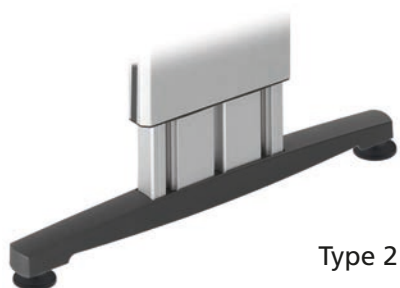
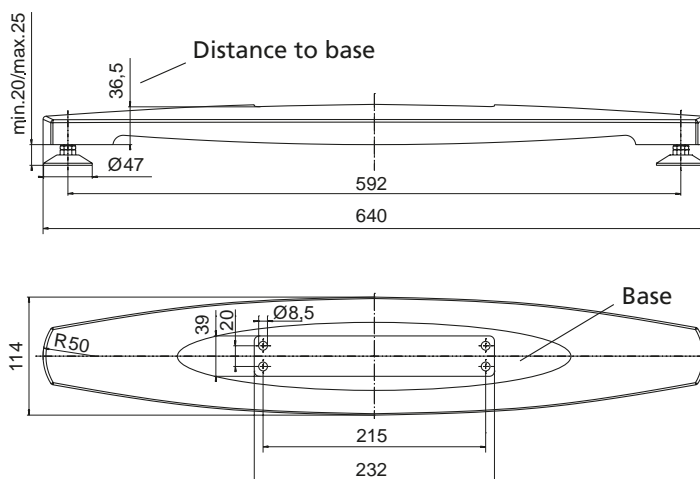
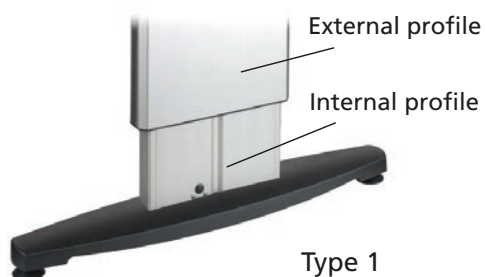
Material:

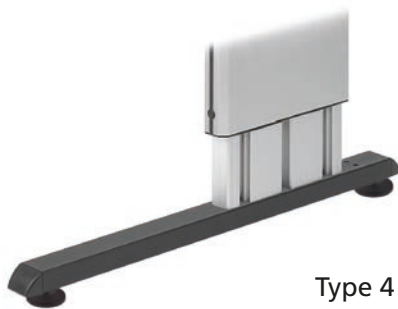
Type 1/2 GK-ALSi12/3.2583.02,
black powder-coated

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

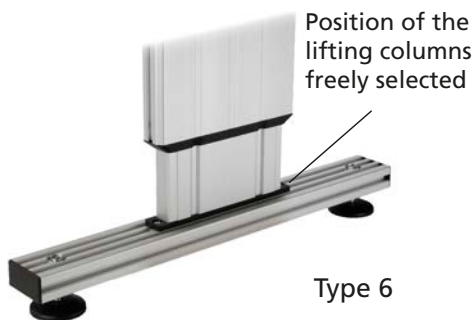
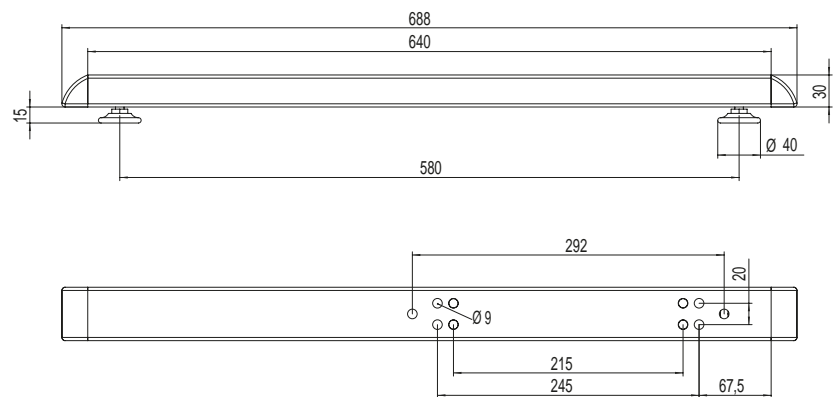
Scope of delivery:

one foot with fixing set



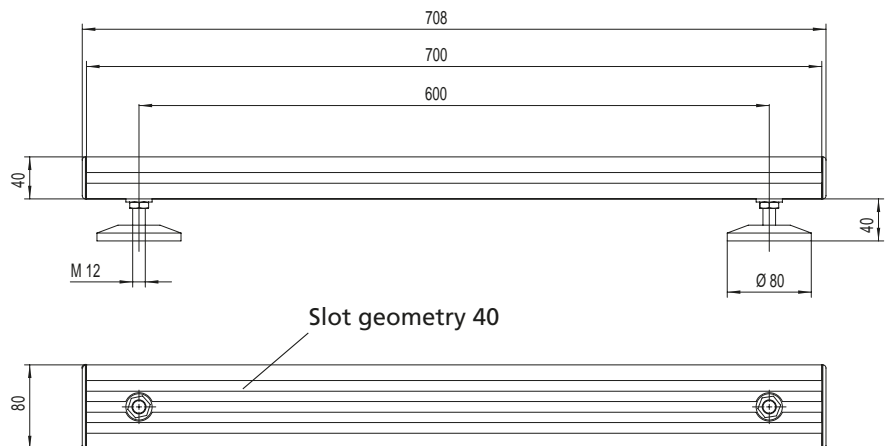


Type 4



Type 6

Position of the
lifting columns
freely selected



***Order instruction:**

The application example shown—internal profile mounted on Type 6 – is only in combination with an assembly plate possible (see page 27)

Code No.	Type	Max. load	Multilift II telescope	
			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	●*	●

Controls and Accessories

Find the right accessory for your application

Find accessories that match your technical and aesthetic requirements.

If you have any questions, please do not hesitate to contact one of our product consultants.

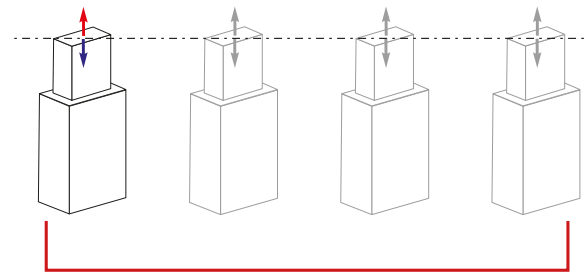
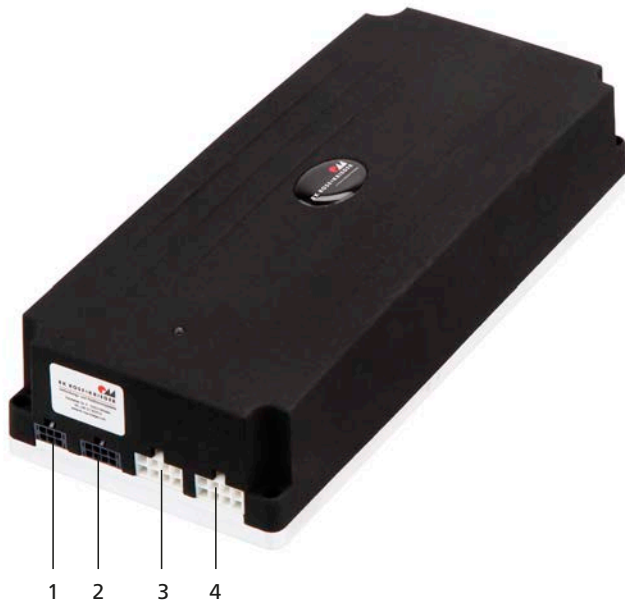
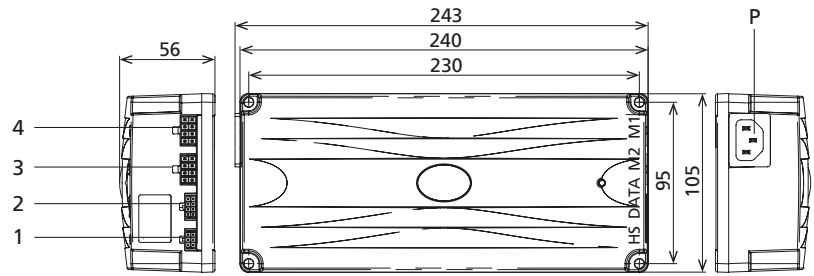


Controls and Accessories – Table of contents

Controls	MultiControl II duo	■ Control.....	Page 32
		■ Accessories.....	Page 34
	Compact-e-3-EU	■ Control.....	Page 38
		■ Accessories.....	Page 39

Control MultiControl II duo

- 1 HS = Hand switch connector
- 2 DATA = Interface for sensors
(e.g. safety edge and synchronisation bus)
- 3 M2 = Motor connector 2
- 4 M1 = Motor connector 1
(must always be assigned)
- P = Power socket



Supports configuration of systems with up to 16 drives

Features:

- Synchronous control of up to two drives
- Duty cycle, overcurrent and temperature monitoring for overload protection as standard
- Intuitive operation via hand switch with graphics-capable display
- The hand switch can be used to realise multiple functions, such as the storage of intermediate positions or user-changeovers.
- Simple connection to the master control system via serial interface (RS-485) and standardised bus protocols (Modbus ASCII)
- Bus cable enables the networking of up to 8 controls
- Energy-efficient overall system (control incl. hand switch) thanks to switched-mode power supply with wide-range input (standby consumption < 0.5 watts)
- Visual status indication via LED display
- Connection of external sensors

General information / operating conditions

Type	MultiControl II duo
Compatible	All versions of Multilift II product line
Input voltage	100 – 240 V ~ 50 / 60 Hz
Output voltage	28 V DC
Current output	max. 10 A
Power	285 VA
Standby-power	≤ 0,5 W
Ambient temperature	+5 °C to +40 °C
Relative humidity (for operation)	30 % to 75 %
Protection class (with earth terminal)	I
Protection class	IP 20
Dimensions (L, B, H) [mm]	240 x 105 x 56
Weight	880 g
Duty cycle (Operation mode S 3)	At nominal load, 20% (4 min operating time, 16 mins rest time)

Controls

Code No.	for drive
QST11H12AA000	Multilift II, Multilift II ESD, Multilift II safety
QST12H12AA000	Multilift II telescope
QST13H12AA000	Multilift II impact

IEC cable



F
(Europe)



J
(Switzerland)



G
(Great Britain)

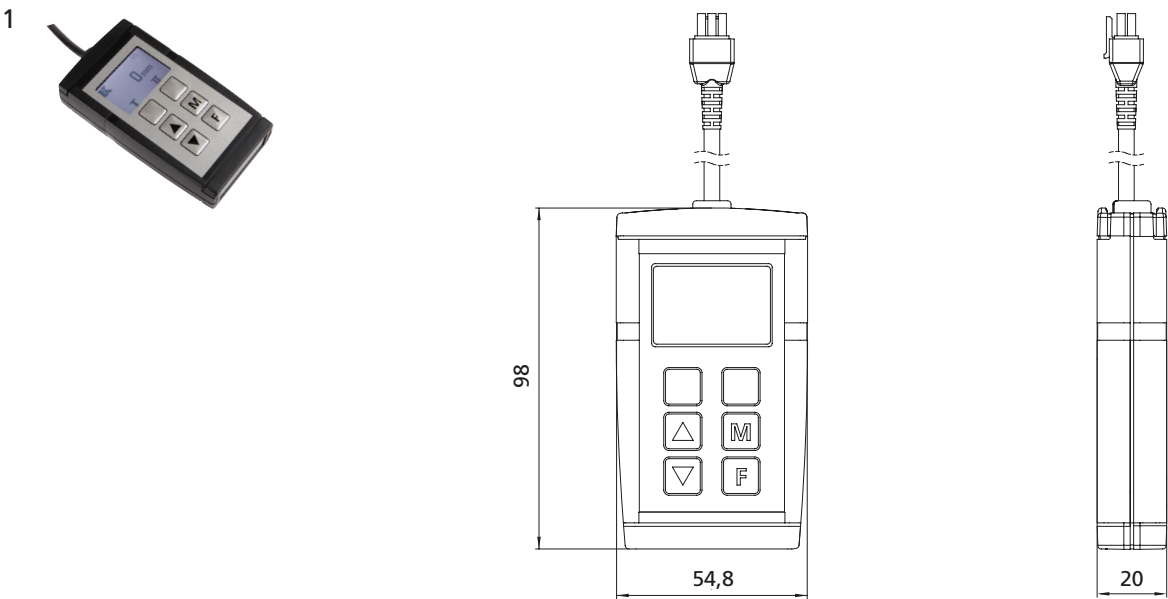


B
(Japan, USA)

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
QZD070631	IEC cable (Japan, version earthed plug)	B	1.80 m
QZD070622	IEC cable (USA, version earthed plug)	B	2.00 m

Control MultiControl II duo

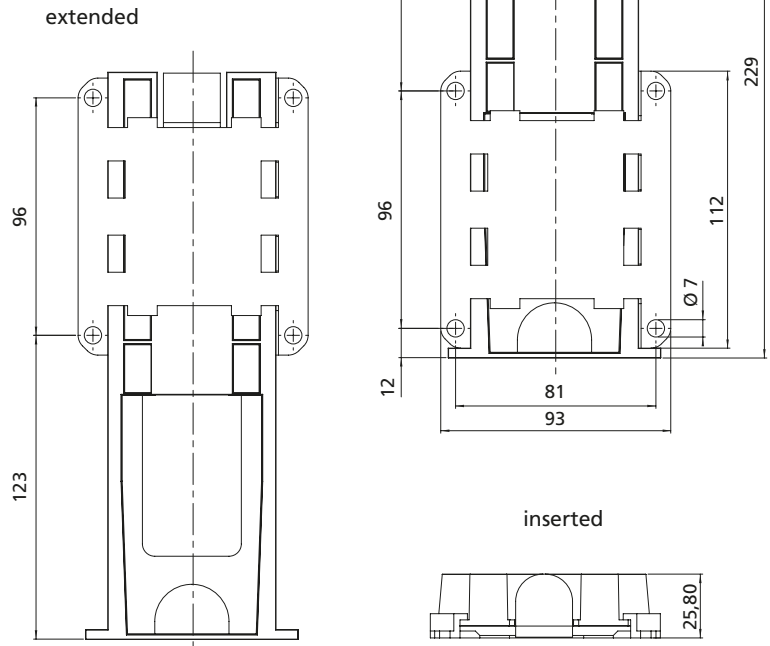
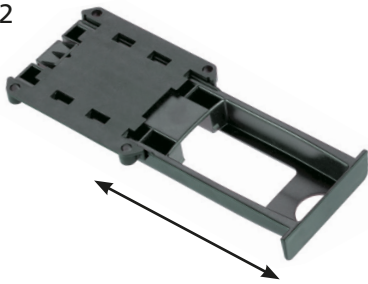
Hand switches



Code No.	Version	Fig.
QZB11G07AV041	Hand switch with 6 function keys and display – 1 m cable lenth	1
QZB11G07AB041	Hand switch with 2 function keys – 1 m cable lenth	

Hand switch drawer

2



Code No.	Accessories	Fig.
QZD000074	Hand switch drawer for hand switches with 6 and 2 function keys	2

3



BUS-cabel

4



Terminating resistor

Code No.	Accessories	Fig.
QZD070693	BUS cable 6 m for networking of up to 8 synchronous control	3
QZD070694	Terminating resistor (only necessary when more than 2 synchronous controls are connected) *	4
QZD070700	Hand switch extension cable – 2.5 m straight – Available from march 2018	

*** Note:**

If there are more than two connected controllers, the overall system always requires two terminating resistors at the beginning and end of the BUS system.

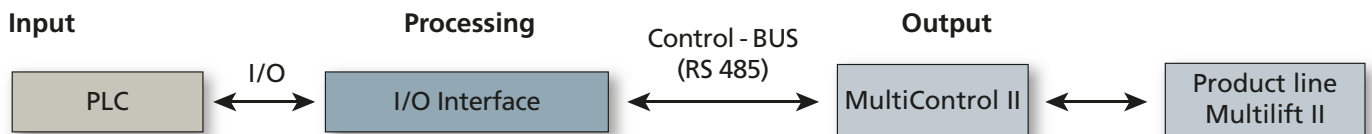
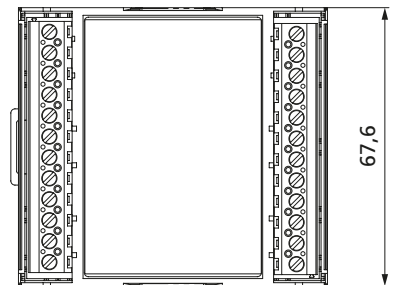
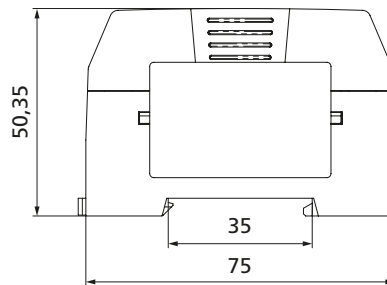
Control MultiControl II duo

I/O - Interface

Available from february 2018

The RK Rose + Krieger lifting column range supports a wide range of workflows in a wide range of assembly and manufacturing processes. A special data interface has now been developed in order to further optimise these workflows and increase the level of automation.

A lifting column for userfriendly setting up, for instance, can be operated using a hand switch. The ongoing production process is then controlled by PLC.



Features:

- An interface for the connection to a master control system (e.g. PLC)
- Quick and easy installation in the control cabinet thanks to support rail housing (TS35)
- Bidirectional communication between controller and master control system via 16 digital inputs and outputs
- Standard functions reduce and simplify the programming requirement

Standard functions of digital inputs:

- ✓ Up/Down
- ✓ Initialisation
- ✓ Memory positions
- ✓ Selection of travel speed
- ✓ Acknowledgement of status messages

Standard functions of digital outputs:

- ✓ Status message
- ✓ Initialisation complete
- ✓ Memory position reached
- ✓ Movement active
- ✓ Retracted status
- ✓ Encoder simulation

Options:

- Quick and easy storage and assumption of memory positions using hand switch with 6 function keys

Connection of a PLC

The I/O interface is used to activate the MultiControl II via digital inputs and outputs (e.g. of a PLC). For this purpose the module forwards the digital inputs to the MultiControl II as commands. The feedback signals from the controller are in turn transferred via the digital outputs.

The I/O interface thus transmits the serial RS485 interface of the MultiControl II to the digital inputs and outputs bidirectionally. All the inputs and outputs of the module are configured with standard functions. Thus the digital inputs 4, 5 and 6, for instance, are intended for saving the memory positions of the lifting column.

It is important to mention that the hand switch with 6 function keys simplifies the saving of memory positions considerably. It can be used to save and assume memory positions.

Please refer to the installation instructions for detailed information on the I/O interface.

General information/operating conditions

The voltage supply for the logic of the I/O module	is provided by connecting the MultiControl II control system
Voltage supply for the digital inputs	High level: 5 V DC – 30 V DC Low level: 0 V DC – 2 V DC
Voltage supply for the digital outputs	10-30 V DC, max. 4 A
Protection class	III
Ambient temperature	0 °C to +50°C
Protection class	IP20
Dimensions	B x H x L: 67 x 50 x 75 mm

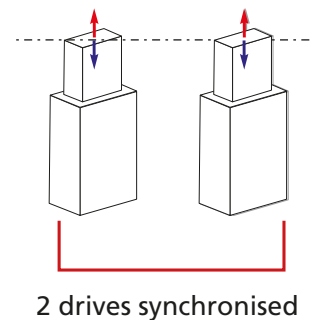
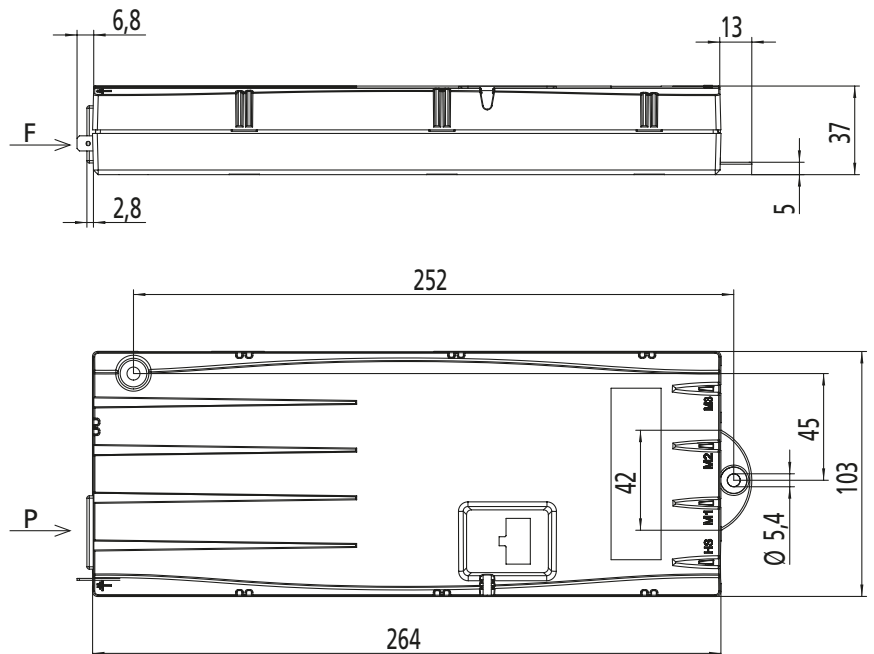
Scope of delivery:

- Data interface with housing
- Connecting cable to control
- Documentation

Code No.	Type	Version
QZD070690	I/O - Interface	for MultiControl II duo

Control Compact-e-3-EU

- 1 HS = Hand switch connector
- 2 M1 = Motor connector 1
- 3 M2 = Motor connector 2
- 4 M3 = Motor connector 3
- 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-EU
Compatible	Set Multilift II/Set Multilift II telescope
Input voltage	EU: 230V / 50Hz US: 120V / 60Hz (on request) / JP: 100V / 60 Hz (on request)
Output voltage	33 V
Current output	7 A
Power	231 VA
Standby-power	0,5 W
Ambient temperature	0 °C to +30 °C
Relative humidity (for operation)	5 to 90% (non-condensing)
Protection class (with earth terminal)	I
Protection class	IP 20
Dimensions (L, B, H) [mm]	264 x 103 x 37
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



HSU-OD-2



HSU-MDF-4M2



TOUCHbasic UD



TOUCH UD

Code No.	Vesion	Description / information	Additional functions (see page 34)	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
- 2 Up-/Down function
- 3- digit display
- Membrane key pad slim design

TOUCHbasic UD



- 2 Up-/Down function
- Large keys

TOUCH UD



- Up to 4 memory positions
- 2 Up-/Down function
- 4- digit display for „inch“ or „cm“

TOUCH UD (retractable)



- Key Lock
- Mounting under table top
- Ultra-flat design

R RENOWNED
KNOW-HOW



RK ROSE+KRIEGER

A Phoenix Mecano Company

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



FAX reply form

☒ Yes, I would like to know more about
RK linear technology, please:

☐ send me the linear technology lifting columns
and electric cylinders catalogue

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

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Company: _____

Contact partner: _____

Department: _____

Address: _____

Tel. + Fax: _____

E-mail: _____



RK ROSE+KRIEGER

A Phoenix Mecano Company

Connecting and positioning systems

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