



RK ROSE+KRIEGER

A Phoenix Mecano Company

Multilift II product line

For any application
the best lifting column



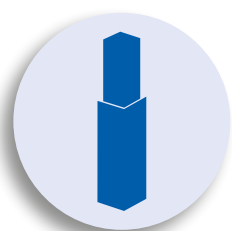
The RK linear circle

Multilift II product line



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



Multilift II
from page 4

Multilift II telescope
from page 34

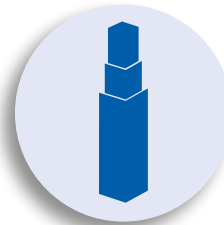
**Your application
takes
centre stage**

**Controls &
Accessories**
from page 48



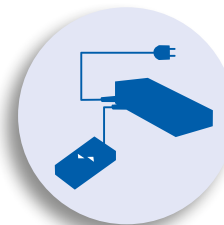
Features:

- ✓ 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



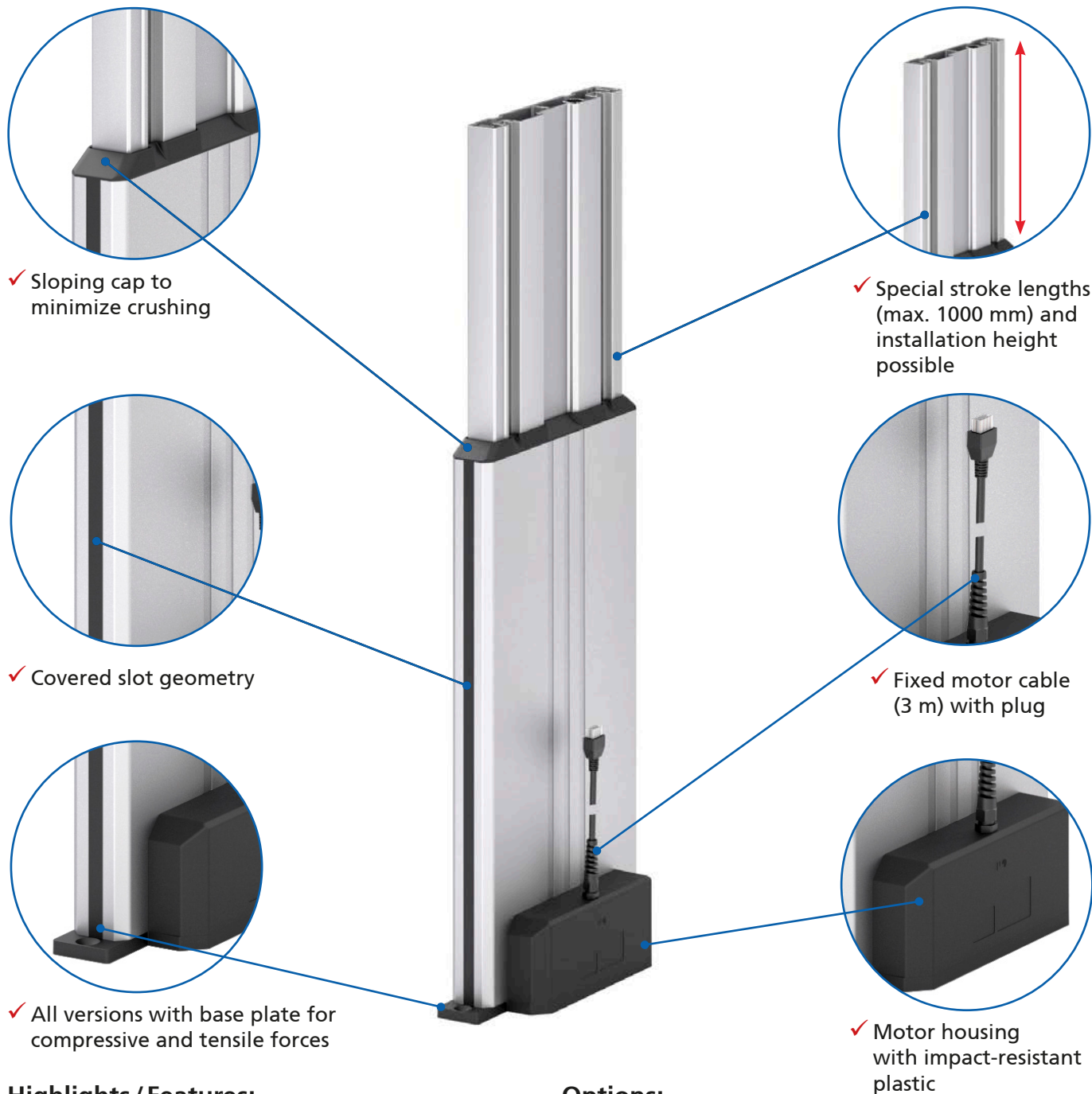
Features:

- ✓ Connection for up to 32 drives (bus system)
- ✓ Memory function
- ✓ Visual status indication
- ✓ Standardised Modbus (RTU) protocol
- ✓ Guided start-up
- ✓ Automatic BUS search





Slimline design makes for great versatility



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
- Tested to:
 - IEC 60601-1:2005
 - IEC 60601-1:2005/AMD1:2012
- With milled slot on request

Multilift II – Table of contents

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| Accessories | Fixing | <ul style="list-style-type: none">■ RK SyncFlex..... Page 19■ Assembly plates..... Page 21■ Support struts..... Page 21■ Foot versions Page 22 |

Multilift II – Technical data

General information/operating conditions

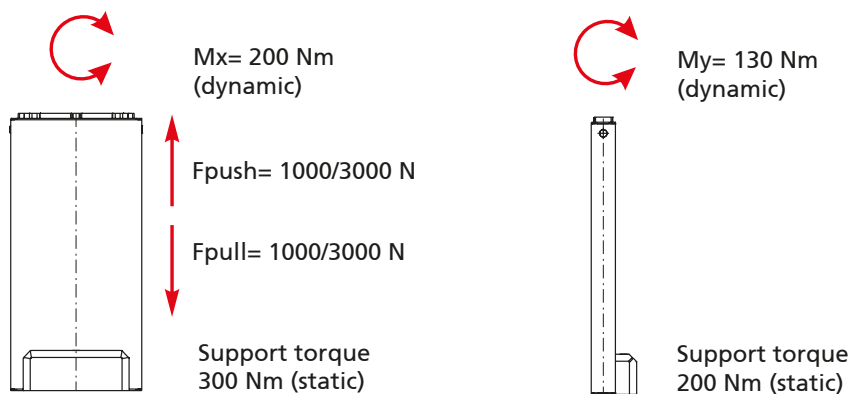
| Type | Multilift II | Multilift II ESD | Multilift II clean | Multilift II impact | Multilift II safety | Custom |
|---|---|------------------|--------------------|---------------------|------------------------------------|---------|
| Design | Slim lifting column | | | | | |
| Guide | POM slide bearings | | | | | |
| Installation position | Any position / hanging only with drop protection provided by the customer | | | | hanging | |
| Push force | 3000 N or 1000 N | | | 3000 N | – | |
| Pull force | 3000 N or 1000 N | | | 3000 N | 600 N | |
| Self-locking | Yes | | | | | |
| Max. travel speed | 8 mm/s or 16 mm/s | | | 8 mm/s | 16 mm/s | |
| Max. Stroke | 500 mm | | | | | 1000 mm |
| Installation dimension | Stroke + 203 mm | | | Stroke + 212 mm | Stroke + 203 mm | |
| Voltage | 28 V DC | | | | | |
| Current output | 4 A | | | | | |
| Protection class | IP 20 | | | | | |
| Ambient temperature | +5°C to +40°C | | | | | |
| Displacement during synchronous operation | 0 to 2 mm | | | | Synchronous operation not possible | |
| Duty cycle (Operation mode S3) | At nominal load, 10% (2 min operating time, 18 mins rest time) | | | | | |

Note:

All information refers to the standard sizes. All data of push/pull forces are referring to the individual lifting column, for combined applications a safety factor of up to 0,6 has to be considered.

In medical applications, the maximum pull force of 500 N and, in the case of the version with a travel speed of 8 mm/s, the maximum push force of 2500 N must not be exceeded.

Load data Multilift II



| Drive | Push force [N] | Travel speed [mm/s] | Number of assigned motor channels | | | |
|---------------------|----------------|---------------------|-----------------------------------|---|------------------------|-------------|
| | | | 1 | 2 | 3 | 4 |
| Multilift II | 1000 | 16 | ✓ | ✓ | ✓ | each 750 N |
| Multilift II | 3000 | 8 | ✓ | ✓ | each 2200 N | each 1500 N |
| Multilift II safety | 600 | 16 | ✓ | – | – | – |
| | | | MultiControl II duo | | MultiControl II quadro | |

Note:

If more than 2 drives are to be operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controllers is required.

The necessary accessories can be found on page 66.

The procedure for setting up BUS communication is described in detail in the operating manual.



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:

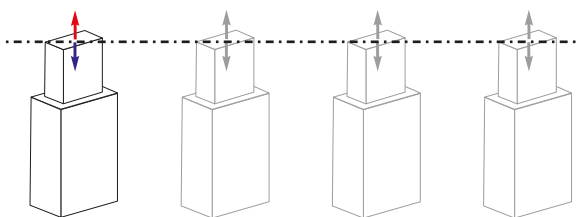
- Lateral fixing slots
- Captive plug connections
- Suitable for both tensile and compressive loads

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 50) and MultiControl II quadro (see page 58)

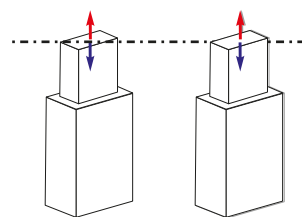


Features:

- Supports configuration of systems with up to 32 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 78)



Features:

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

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 dimension [mm] | Weight [kg] |
|-------------------|--------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM22B1C3C22CA0355 | Multilift II | 3000 / 2500 (med.) | 3000 / 500 (med.) | 8 | 355 | 558 | 10.5 |
| TM22B1C3C22CA0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C3C22CA0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C3C22CA0500 | | | | | 497 | 703 | 13.0 |
| TM22B1C2C22CA0355 | Multilift II | 1000 / 1000 (med.) | 1000 / 500 (med.) | 16 | 355 | 558 | 10.5 |
| TM22B1C2C22CA0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C2C22CA0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C2C22CA0500 | | | | | 497 | 703 | 13.0 |

System components

| Code No. | Accessories | |
|---------------|--|--------------|
| Controls | | |
| QST11H12AA000 | MultiControl II duo - Basic | Multilift II |
| QST11H12AA022 | MultiControl II duo - Premium | |
| QST11H14AA000 | MultiControl II quadro - Basic | Multilift II |
| QST11H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note: Further accessories (hand switches, connecting cables etc.) on page 66.

Set:

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

Scope of delivery:

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

Order instruction:

Please select mains cable and
hand switch separately
(see page 79)

| Code No. | Type | max. push force [N] | max. pull force [N] | max. lifting speed [mm/s] | Total travel [mm] | Installation dimension [mm] | Weight [kg] |
|-------------------|-----------------------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TS22B1C3C22CA0355 | Multilift II Set 230V AC | 3000 | 3000 | 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 | 1000 | 1000 | 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 ESD – 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:

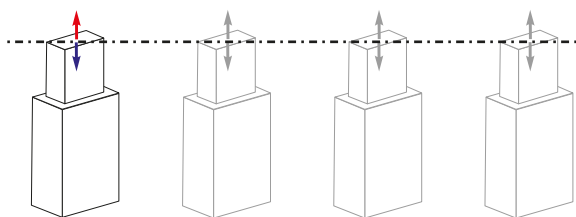
- Outer and inner profile electrically connected to each other

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 50) and MultiControl II quadro (see page 58).



Features:

- Supports configuration of systems with up to 32 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 dimension [mm] | Weight [kg] |
|-------------------|------------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM22B1C3C22CC0355 | Multilift II ESD | 3000 / 2500 (med.) | 3000 / 500 (med.) | 8 | 355 | 558 | 10.5 |
| TM22B1C3C22CC0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C3C22CC0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C3C22CC0500 | | | | | 497 | 703 | 13.0 |
| TM22B1C2C22CC0355 | Multilift II ESD | 1000 / 1000 (med.) | 1000 / 500 (med.) | 16 | 355 | 558 | 10.5 |
| TM22B1C2C22CC0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C2C22CC0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C2C22CC0500 | | | | | 497 | 703 | 13.0 |

System components

| Code No. | Accessories | |
|---------------|--|------------------|
| Controls | | |
| QST11H12AA000 | MultiControl II duo - Basic | Multilift II ESD |
| QST11H12AA022 | MultiControl II duo - Premium | |
| QST11H14AA000 | MultiControl II quadro - Basic | Multilift II ESD |
| QST11H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note: Further accessories (hand switches, connecting cables etc.) on page 66.

Multilift II impact – 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:

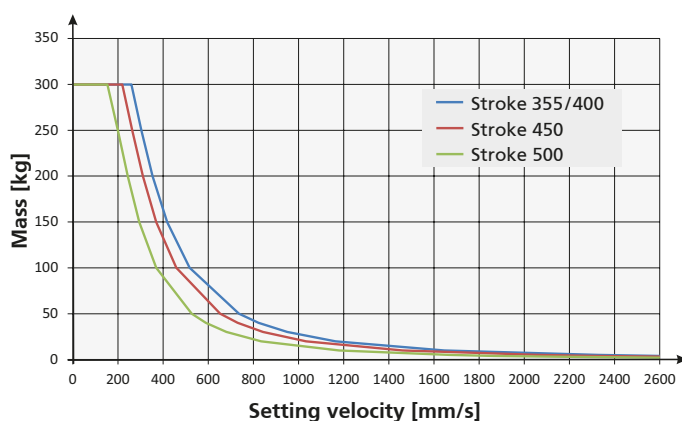
- Allows impact forces due to an internal damping system

Ideal area of application:

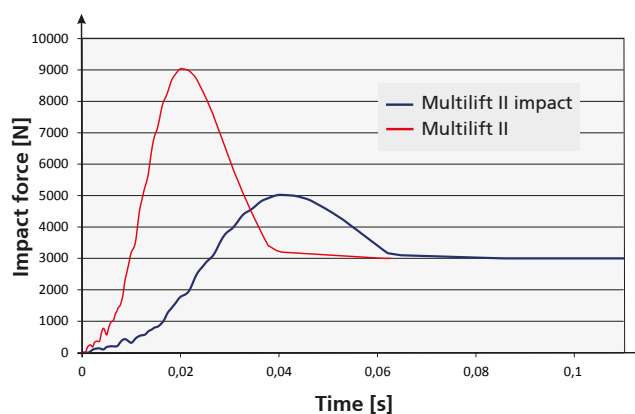
- ✓ Workplace ergonomics
- ✓ Industrial technology

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 $v = 260$ [mm/s] and $m = 300$ [Kg]



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 dimension [mm] | Weight [kg] |
|-------------------|------------------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM22B1C3C22CB0355 | Multilift II impact | 3000 / 2500 (med.) | 3,000 / 500 (med.) | 8 | 355 | 567 | 10.5 |
| TM22B1C3C22CB0400 | | | | | 400 | 612 | 11.5 |
| TM22B1C3C22CB0450 | | | | | 452 | 667 | 12.0 |
| TM22B1C3C22CB0500 | | | | | 497 | 712 | 13.0 |

System components

| Code No. | Accessories | |
|---------------|--|---------------------|
| Controls | | |
| QST13H12AA000 | MultiControl II duo - Basic | Multilift II impact |
| QST13H12AA022 | MultiControl II duo - Premium | |
| QST13H14AA000 | MultiControl II quadro - Basic | Multilift II impact |
| QST13H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note: Further accessories (hand switches, connecting cables etc.) on page 66.

Multilift II safety – 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



The Multilift II safety is only designed for centric load.



In cases of eccentric load
please contact RK Rose+Krieger.

<https://www.rk-rose-krieger.com/english/contact/>

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 dimension [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 |

Note: The Multilift II safety is not designed for synchronous applications.
This drive must only be used in stand-alone applications.

System components

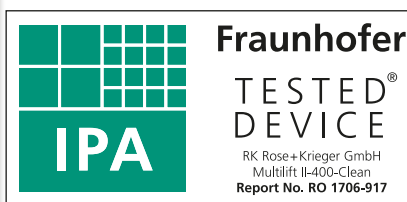
| Code No. | Accessories | |
|---------------|--|---------------------|
| Controls | | |
| QST11H12AA000 | MultiControl II duo - Basic | Multilift II safety |
| QST11H12AA022 | MultiControl II duo - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note: Further accessories (hand switches, connecting cables etc.) on page 66.

Multilift II clean – Versions

Multilift II clean – ideally suited to use in the clean room

The Multilift II clean has now been added to the range. It has been deliberately developed for use in the clean room. A special shroud for the DC motor with brushes of the lifting column means discharge of particles is kept to a minimum. To verify its suitability for use in clean rooms, the Fraunhofer Institute for Manufacturing Engineering and Automation IPA carried out a particle emissions test as per DIN EN ISO 14644-1 and certified the lifting column for use in clean rooms up to a globally valid class 4.



Special feature:

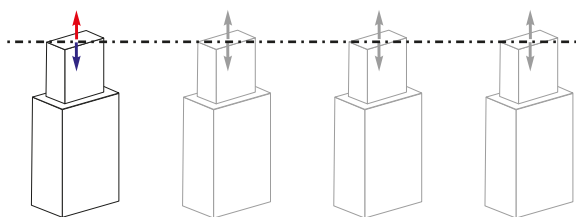
- Suitability according to EN ISO 14644 -1 for clean rooms

Ideal area of application:

- ✓ Assembly workstations for the use in clean rooms up to class 4

Lifting column and control as individual components:

Multilift II clean can be used exclusively in combination with MultiControl II duo (see page 50) and MultiControl II quadro (see page 58).



Features:

- Supports configuration of systems with up to 32 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Individual components:

Lifting column Multilift II clean

| Code No. | Type | max. push force [N] | max. pull force [N] | max. lifting speed [mm/s] | Total travel [mm] | Installation dimension [mm] | Weight [kg] |
|-------------------|--------------------|---------------------------|---------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM22B1C3C22CE0355 | Multilift II clean | 3000 | 3000 | 8 | 355 | 558 | 10.5 |
| TM22B1C3C22CE0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C3C22CE0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C3C22CE0500 | | | | | 497 | 703 | 13.0 |
| TM22B1C2C22CE0355 | Multilift II clean | 1000 | 1000 | 16 | 355 | 558 | 10.5 |
| TM22B1C2C22CE0400 | | | | | 400 | 603 | 11.5 |
| TM22B1C2C22CE0450 | | | | | 452 | 658 | 12.0 |
| TM22B1C2C22CE0500 | | | | | 497 | 703 | 13.0 |

System components

| Code No. | Accessories | |
|---------------|--|--------------------|
| Controls | | |
| QST11H12AA000 | MultiControl II duo - Basic | Multilift II clean |
| QST11H12AA022 | MultiControl II duo - Premium | |
| QST11H14AA000 | MultiControl II quadro - Basic | Multilift II clean |
| QST11H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

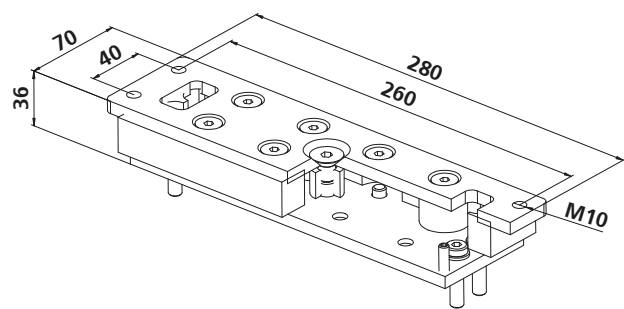
Note: Further accessories (hand switches, connecting cables etc.) on page 66.

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 | Max. load | Multilift II | |
|-----------|---------------------------|-----------|------------------|------------------|
| | | | Internal profile | External profile |
| QZD020471 | Multilift II product line | 3000 N | ● | |

RK SyncFlex V

Scope of delivery:

Adjuster plate, incl. fixing material

Option:

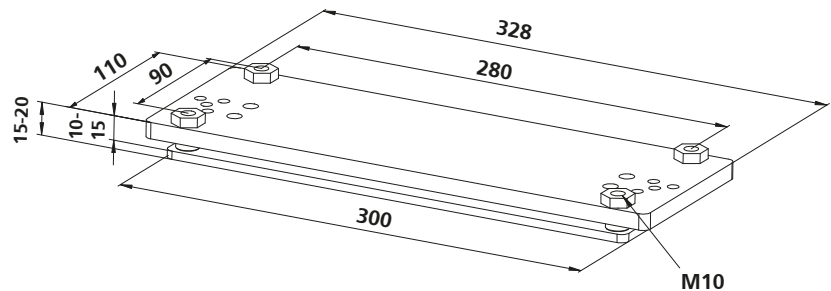
Pressure plate (see table) can be ordered separately

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 | Max. load | Multilift II | | |
| | | | Internal profile | External profile | |
| RK SyncFlex V Adjusting plate | | | | | |
| QZD020620 | Multilift II product line | 3000 N | ● * | ● | |
| Pressure Plate | | | | | |
| QZD020621 | Multilift II product line | 3000 N | | | |

●* = in connection with the assembly plate Type 2 (page 21)

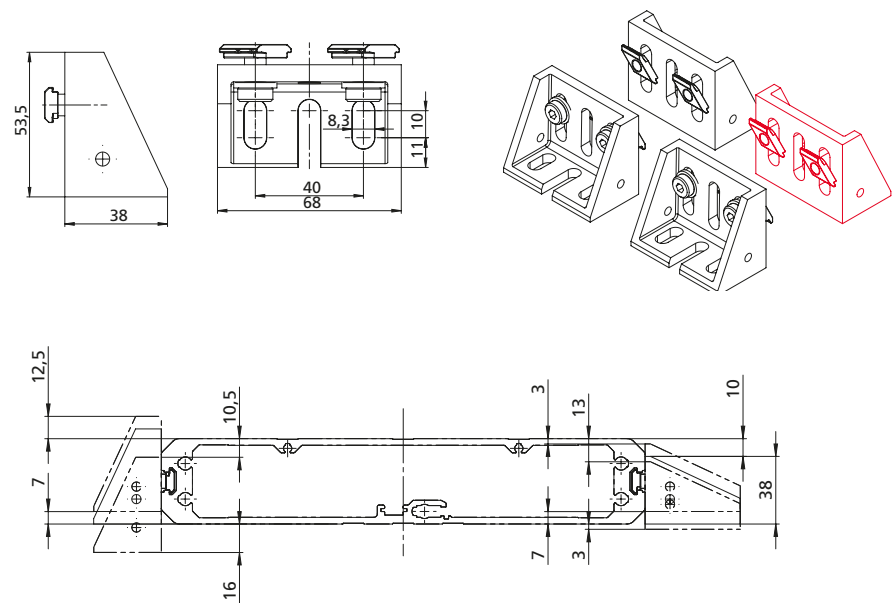
Mounting bracket for Multilift II



■ The mounting brackets are used to fix the lifting column horizontally or vertically by means of the fixing slots on the outer profile of the Multilift II. Also suitable for ESD applications.

Material:
Aluminium die cast

Scope of delivery:
One mounting bracket including mounting material



| Code No. | Type | Max. load | Multilift II | |
|-----------|-------------------------------|-----------|------------------|------------------|
| | | | Internal profile | External profile |
| QZD020745 | Multilift II mounting bracket | 3000 N | | ● |

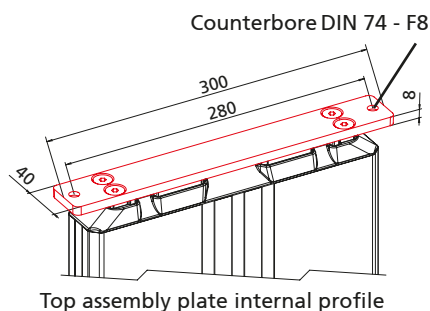
Assembly plates

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

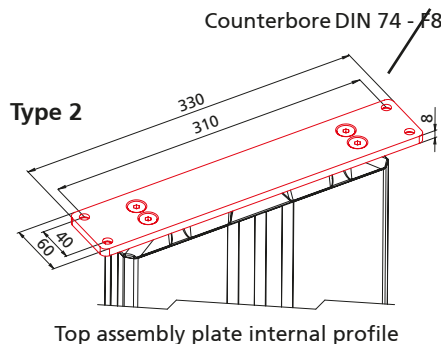
Material:

Option of black-powdered die cast zinc or black-powdered steel, zinc plated fixing set

Type 2



Type 3



Scope of delivery:

Plate with fixing set

| Code No. | Type | for drive | Material | Multilift II | |
|-----------|------|--------------------------------------|---------------|------------------|------------------|
| | | | | Internal profile | External profile |
| QZD020549 | 2 | Multilift II/ clean | Zinc die cast | ● | |
| QZD020671 | 2 | Multilift II ESD | Zinc die cast | ● | |
| QZD020552 | 3 | Multilift II/impact/safety/clean/ESD | Steel | ● | |

Support struts

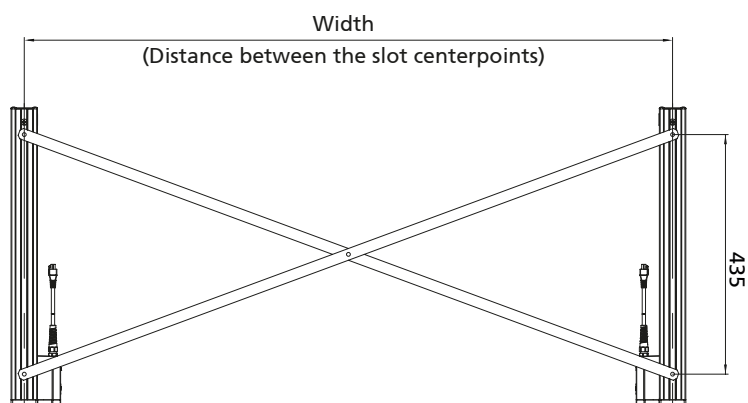
- For stabilisation of column structures.
- Available for all Multilift II / Multilift II telescope variants.

Material:

Aluminium not anodized

Scope of delivery:

Two support struts including fastenings



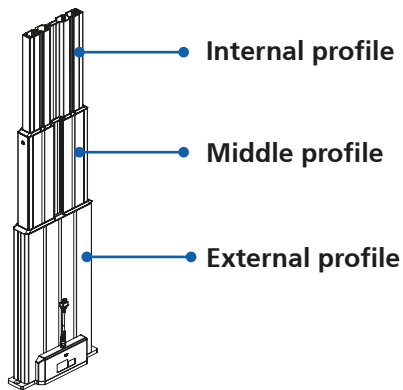
[mm]

| Code No. | Type | Width (min.) | Width (max.) | Multilift II | |
|-----------|--|--------------|--------------|------------------|------------------|
| | | | | Internal profile | External profile |
| QZD020734 | Support struts Multilift II product line | 750 mm | 2000 mm | | ● |

Distance between the slot centerpoints [mm]

Multilift II – Accessories

Foot versions



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

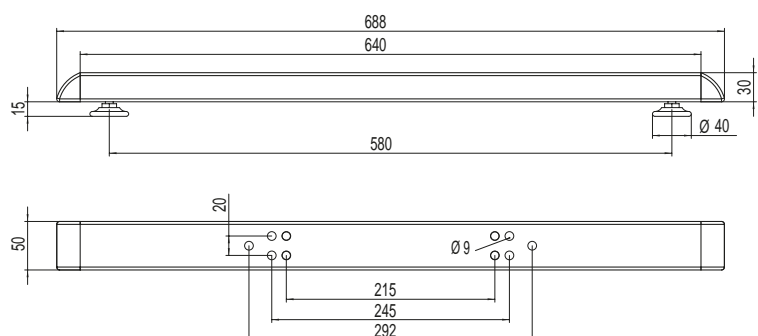
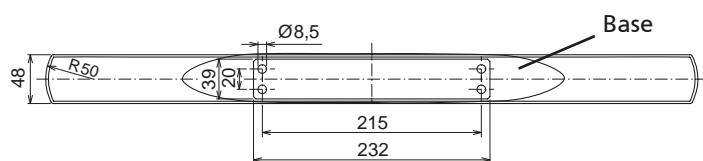
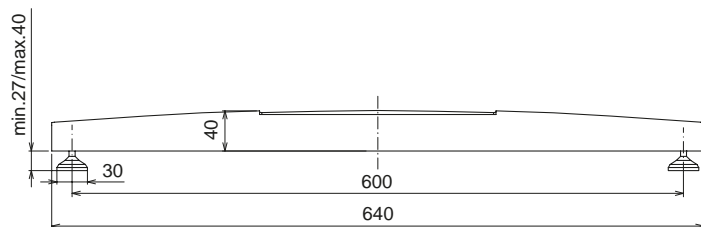
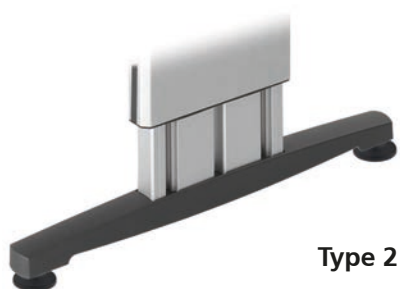
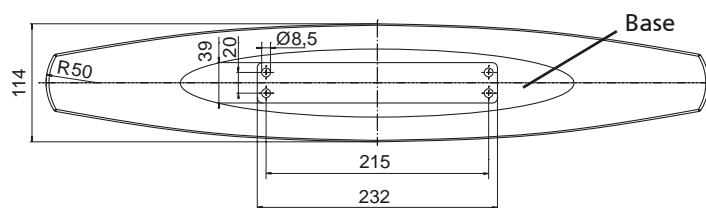
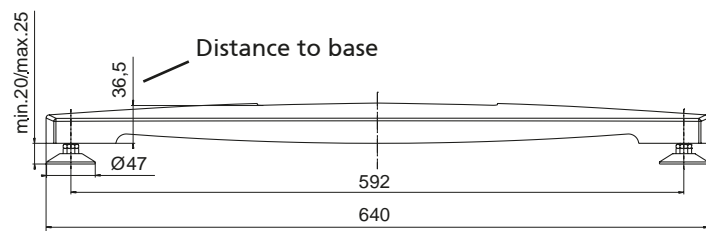
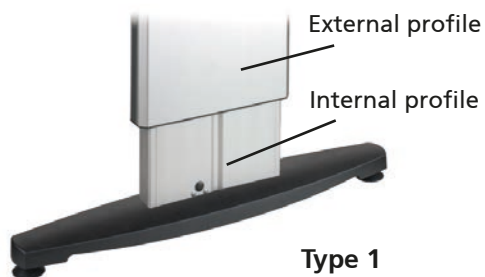
Material:

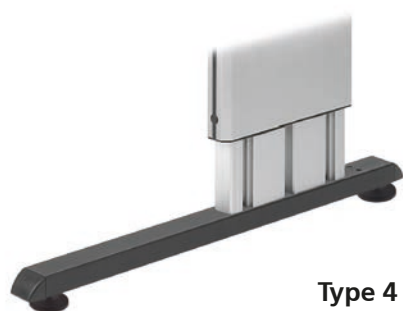
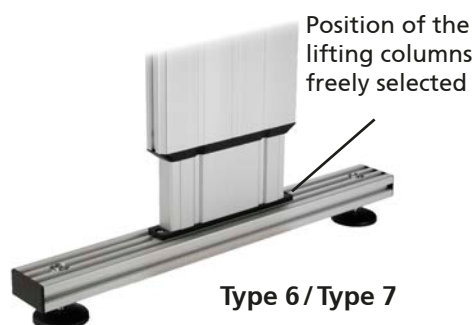
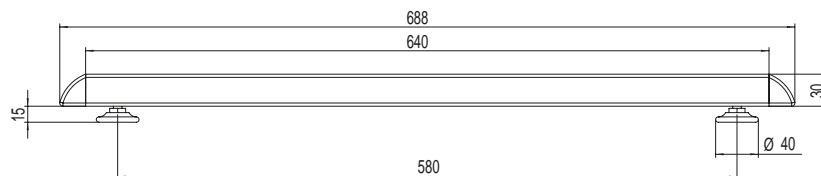
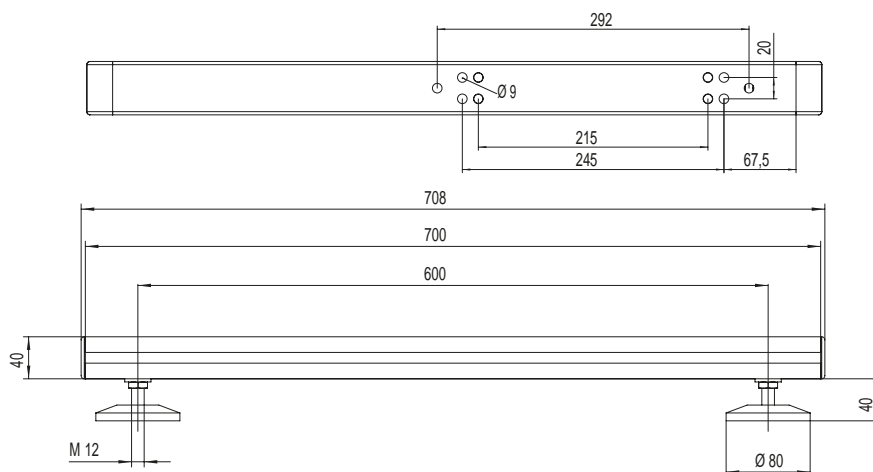
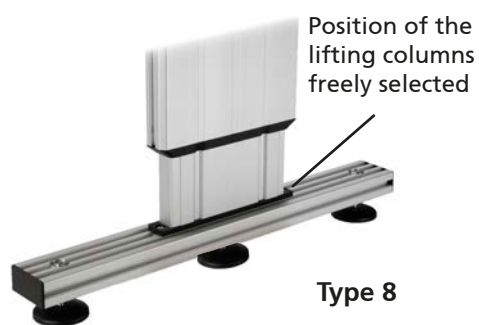
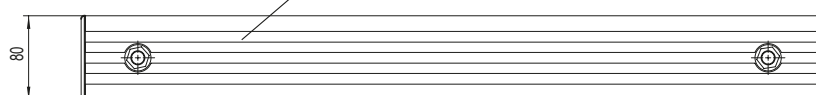
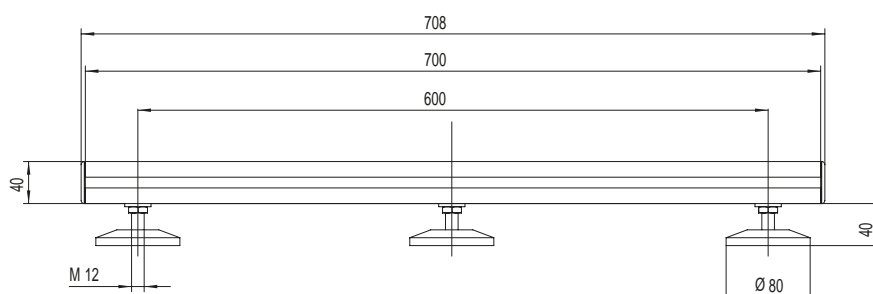
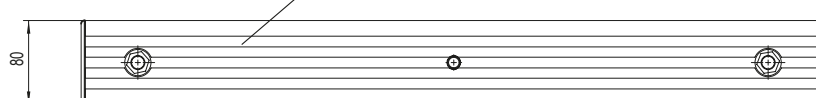
Type 1/2 GK-ALSi12/3.2583.02, black powder-coated

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:**

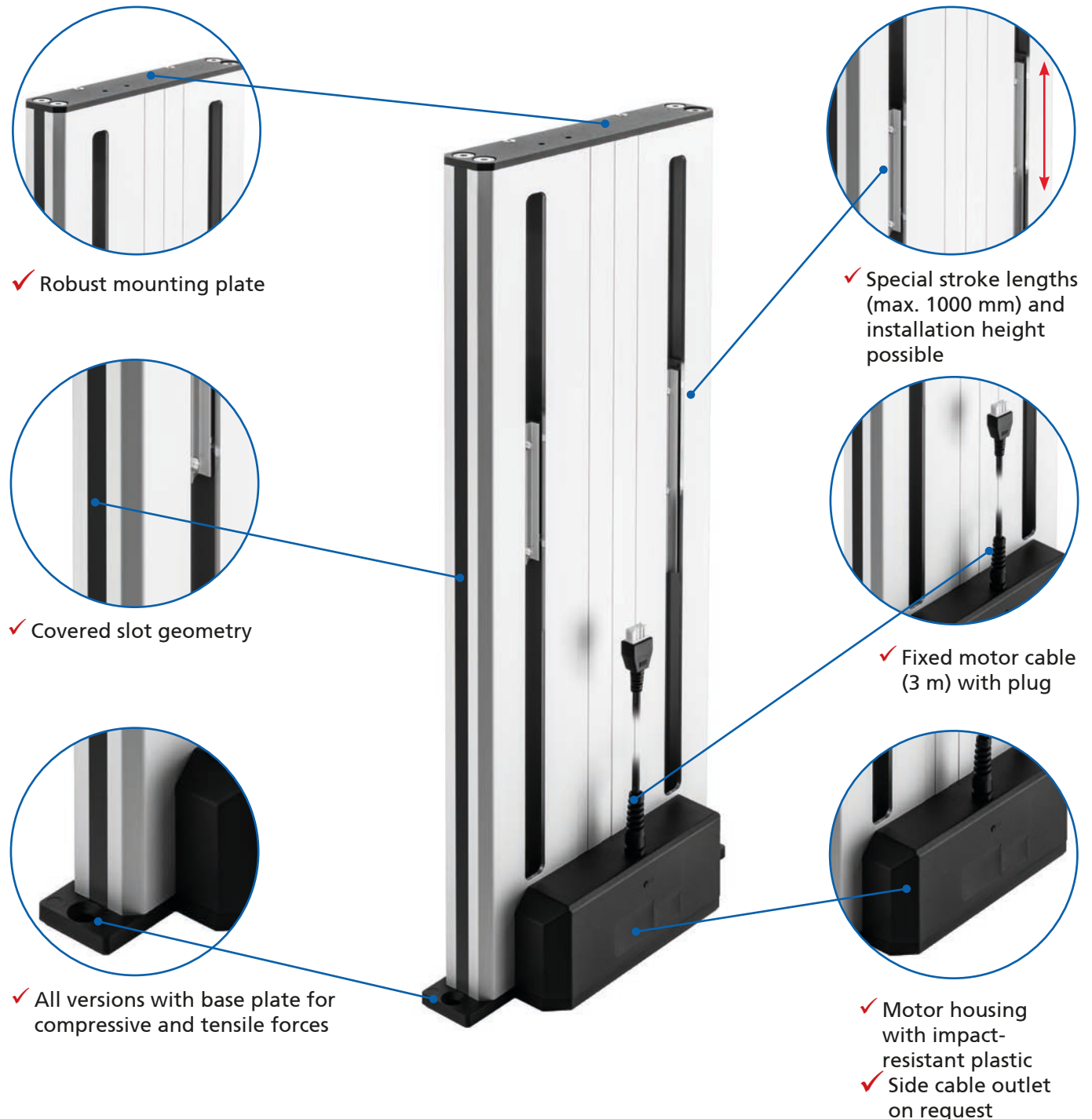
The application example shown – internal profile mounted on Type 6, 7, 8 – is only in combination with an assembly plate possible (see page 21)

| Code No. | Type | Max. load | Multilift II / Multilift II clean | | Multilift II ESD | | Multilift II impact | |
|-----------|------|-----------|-----------------------------------|------------------|------------------|------------------|---------------------|------------------|
| | | | Internal profile | External profile | Internal profile | External profile | Internal profile | External profile |
| QZD020252 | 1 | 1000 N | ● | | | | | |
| QZD020253 | 2 | 1000 N | ● | | | | | |
| QZD020254 | 3 | 1000 N | ● | ● | | | | |
| QZD020255 | 4 | 1000 N | ● | ● | | | | |
| QZD020256 | 6 | 3000 N | ●* | ● | | | | |
| QZD020257 | 7 | 3000 N | | | ●* | ● | | |
| QZD020258 | 8 | 3000 N | | | | | ●* | ● |

Multilift II with internal carriage

Slimline design makes for great versatility

NEW



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

| | | |
|--------------------|------------------------|---|
| Versions | Lifting columns | <ul style="list-style-type: none">■ Multilift II with internal carriage Page 26 |
| Accessories | Fixing | <ul style="list-style-type: none">■ RK SyncFlex..... Page 30■ Mounting bracket Page 29■ Support struts..... Page 31■ Foot versions Page 32 |

Multilift II with internal carriage – Technical data

General information/operating conditions

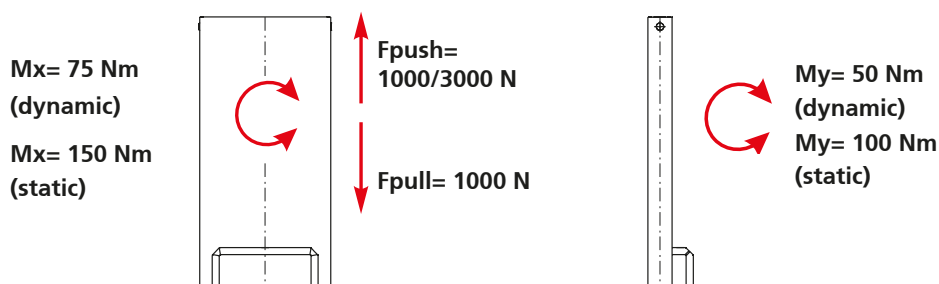
| Type | Multilift II with internal carriage | Custom |
|---|---|---------|
| Design | Slim lifting column | |
| Guide | POM slide bearings | |
| Installation position | Any position / hanging only with drop protection provided by the customer | |
| Push force | 3000 N or 1000 N | |
| Pull force | 3000 N or 1000 N | |
| Self-locking | Yes | |
| Max. travel speed | 8 mm/s or 16 mm/s | |
| Max. Stroke | 500 mm | 1000 mm |
| Installation dimension | Stroke + 210 mm | |
| Voltage | 28 V DC | |
| Current output | 4 A | |
| Protection class | IP 10 | |
| Ambient temperature | +5°C to +40°C | |
| Displacement during synchronous operation | 0 to 2 mm | |
| Duty cycle (Operation mode S3) | At nominal load, 10% (2 min operating time, 18 mins rest time) | |

Note:

All information refers to the standard sizes. All data of push/pull forces are referring to the individual lifting column, for combined applications a safety factor of up to 0,6 has to be considered.

In medical applications, the maximum pull force of 500 N and, in the case of the version with a travel speed of 8 mm/s, the maximum push force of 2500 N must not be exceeded.

Load data Multilift II with internal carriage



| Drive | Push force [N] | Travel speed [mm/s] | Number of assigned motor channels | | | |
|-------------------------------------|----------------|---------------------|-----------------------------------|---|------------------------|-------------|
| | | | 1 | 2 | 3 | 4 |
| Multilift II with internal carriage | 1000 | 16 | ✓ | ✓ | ✓ | each 750 N |
| Multilift II with internal carriage | 3000 | 8 | ✓ | ✓ | each 2200 N | each 1500 N |
| | | | MultiControl II duo | | MultiControl II quadro | |

Note:

If more than 2 drives are to be operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controllers is required.

The necessary accessories can be found on page 66

The procedure for setting up BUS communication is described in detail in the operating manual.



Multilift II with internal carriage – Versions

Multilift II with internal carriage – 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:

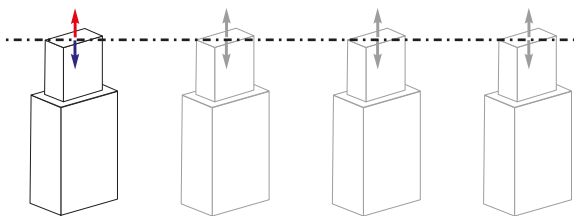
- Lateral fixing slots
- Captive plug connections
- Suitable for both tensile and compressive loads
- Internal carriage

Ideal area of application:

- ✓ Workplace ergonomics
- ✓ Industrial technology
- ✓ Media technology
- ✓ Materials handling

Lifting column and control as individual components:

Multilift II can be used exclusively in combination with MultiControl II duo (see page 50) and MultiControl II quadro (see page 58).



Features:

- Supports configuration of systems with up to 32 drives
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Individual components:

Multilift II with internal carriage



| Code No. | Type | max. push force [N] | max. pull force [N] | max. lifting speed [mm/s] | Total travel [mm] | Installation dimension [mm] | Weight [kg] |
|-------------------|--|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM24B1C3C22CF0362 | Multilift II with internal carriage | 3000 / 2500 (med.) | 3000 / 500 (med.) | 8 | 362,5 | 573 | 9,2 |
| TM24B1C3C22CF0407 | | | | | 407,5 | 618 | 9,6 |
| TM24B1C3C22CF0460 | | | | | 460 | 670 | 10 |
| TM24B1C3C22CF0505 | | | | | 505 | 715 | 10,5 |
| TM24B1C2C22CF0362 | Multilift II with internal carriage | 1000 / 1000 (med.) | 1000 / 500 (med.) | 16 | 362,5 | 573 | 9,2 |
| TM24B1C2C22CF0407 | | | | | 407,5 | 618 | 9,6 |
| TM24B1C2C22CF0460 | | | | | 460 | 670 | 10 |
| TM24B1C2C22CF0505 | | | | | 505 | 715 | 10,5 |

System components

| Code No. | Accessories | |
|---------------|--|--|
| Controls | | |
| QST11H12AA000 | MultiControl II duo - Basic | Multilift II / Multilift II with internal carriage |
| QST11H12AA022 | MultiControl II duo - Premium | |
| QST11H14AA000 | MultiControl II quadro - Basic | Multilift II / Multilift II with internal carriage |
| QST11H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note: Further accessories (hand switches, connecting cables etc.) can be found in the chapter „Controls and accessories“ starting on page 66.

Multilift II – Accessories

RK SyncFlex V

Scope of delivery:

Adjuster plate, incl. fixing material

Option:

Pressure plate (see table) can be ordered separately

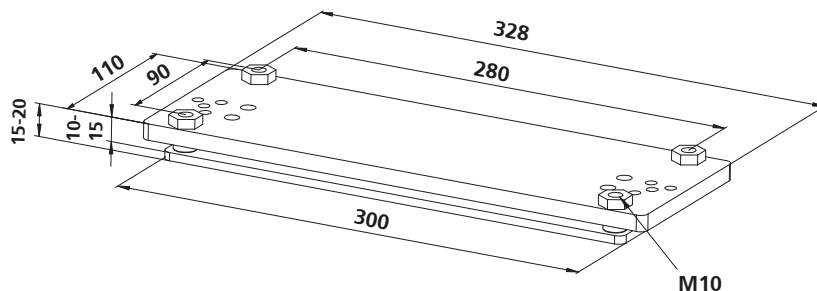


Vertical alignment

- 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 | Max. load | Multilift II | |
|-------------------------------|---------------------------|-----------|------------------|------------------|
| | | | Internal profile | External profile |
| RK SyncFlex V Adjusting plate | | | | |
| QZD020620 | Multilift II product line | 3000 N | ● * | ● |
| Pressure Plate | | | | |
| QZD020621 | Multilift II product line | 3000 N | | |

Adaptor bar

- Cross struts from the BLOCAN® Profile Assembly System are used to increase the stability of two version Multilift II with internal carriage. The adaptor bar is suitable for F profile 40 x 80 L and F 30x60.

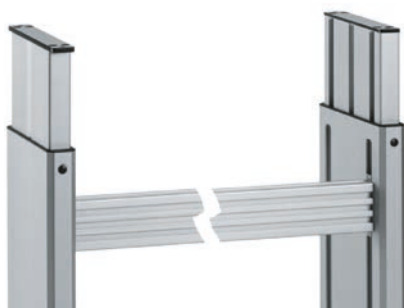
Material:

AlMgSi 0,5

Fixing set, zinc plated

Scope of delivery:

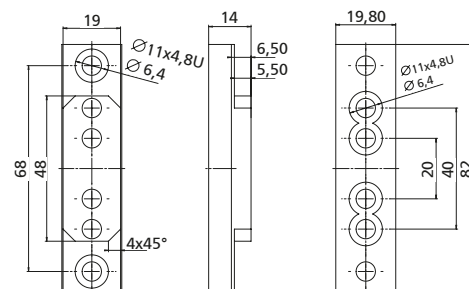
2x adaptor bars, fixing set



BLOCAN®-Profile F 30x60 as cross strut

Slot stones, -L- M6 4046204

Adaptor bar



| Code No. | Version |
|-----------|---|
| QZD020020 | Adaptor bar for BLOCAN® profiles |
| 4285000 | Profile* F-40 x 80-L, can be cut to specification |



Length (clear width between the Multilifts -2 mm)

* For dimensions of the profiles, please refer to the catalogue BLOCAN PROFILE TECHNOLOGY

Mounting bracket for Multilift II



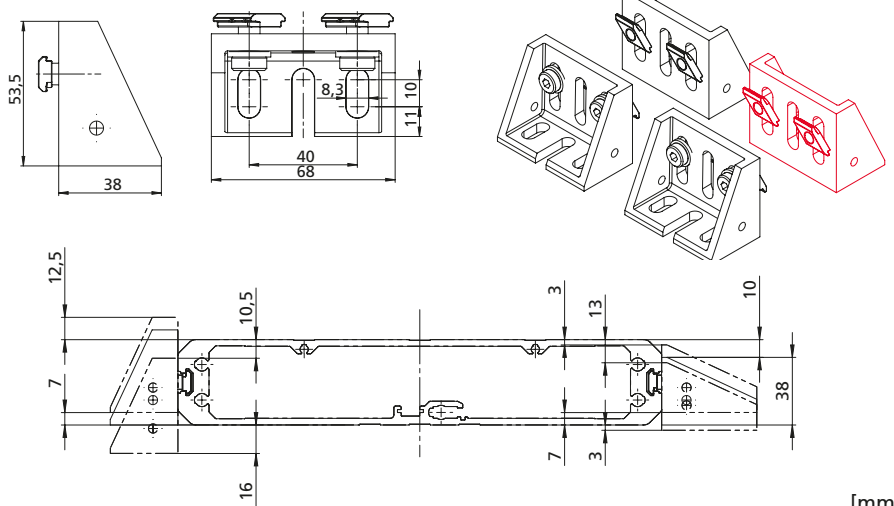
- The mounting brackets are used to fix the lifting column horizontally or vertically by means of the fixing slots on the outer profile of the Multilift II. Also suitable for ESD applications.

Material:

Aluminium die cast

Scope of delivery:

One mounting bracket including mounting material



[mm]

| Code No. | Type | Max. load | Multilift II | |
|-----------|-------------------------------|-----------|------------------|------------------|
| | | | Internal profile | External profile |
| QZD020745 | Multilift II mounting bracket | 3000 N | | ● |

Support struts

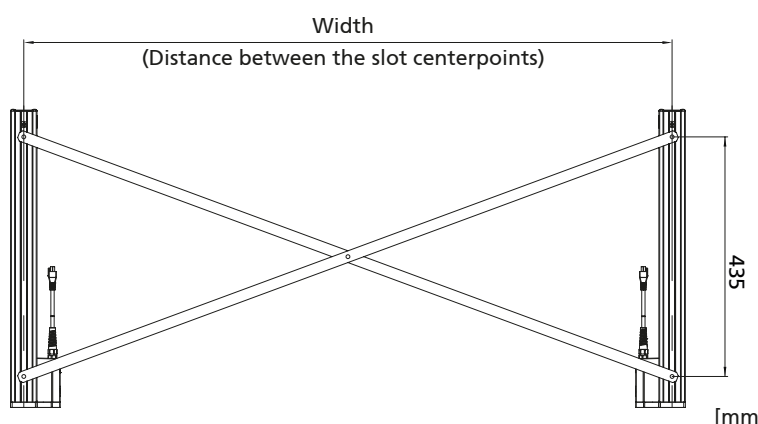
- For stabilisation of column structures.
- Available for all Multilift II / Multilift II telescope variants.

Material:

Aluminium not anodized

Scope of delivery:

Two support struts including fastenings



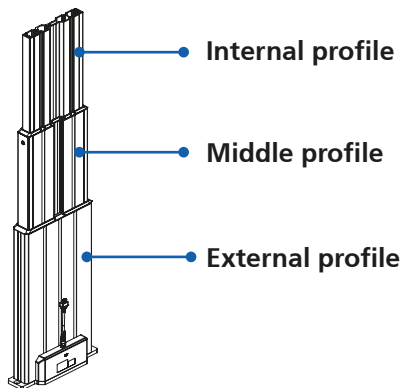
[mm]

| Code No. | Type | Width (min.) | Width (max.) | Multilift II | |
|-----------|--|--------------|--------------|------------------|------------------|
| | | | | Internal profile | External profile |
| QZD020734 | Support struts Multilift II product line | 750 mm | 2000 mm | | ● |

Distance between the slot centerpoints [mm]

Multilift II – Accessories

Foot versions



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

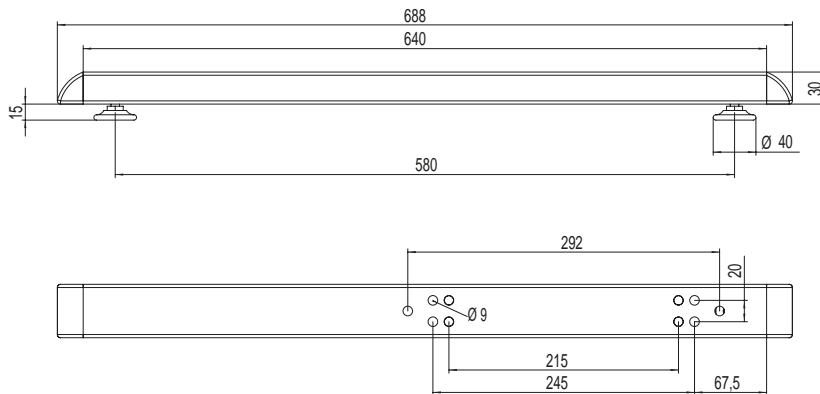
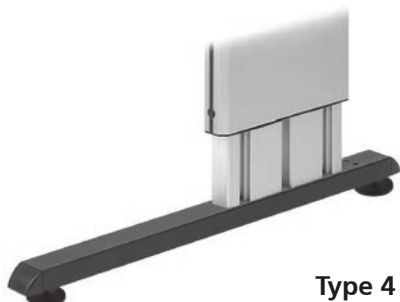
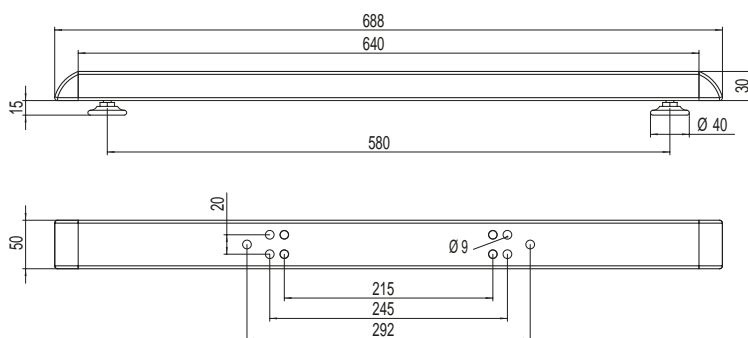
Material:

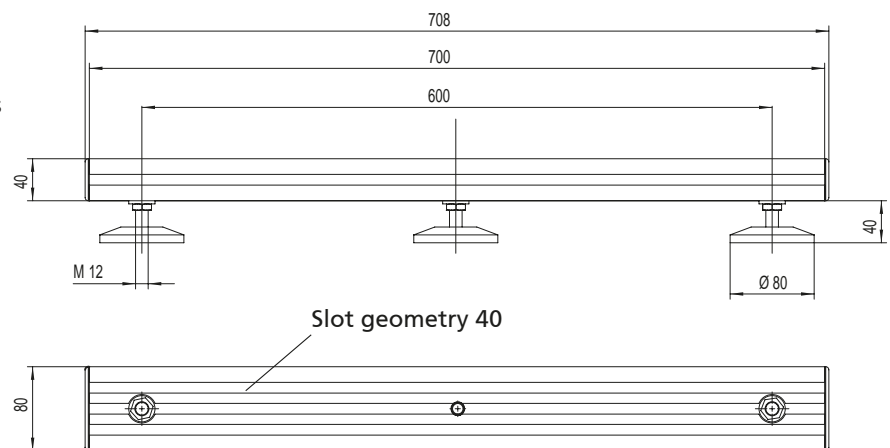
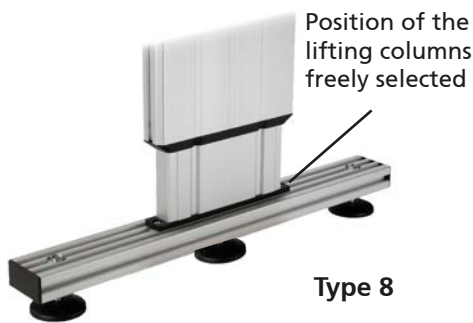
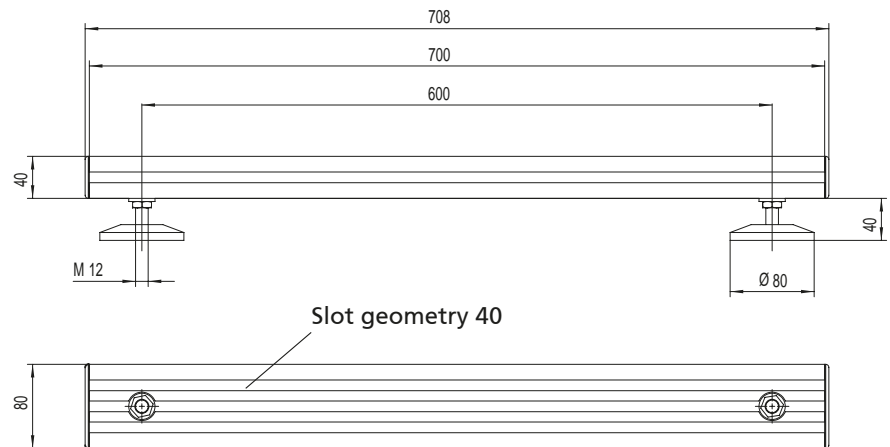
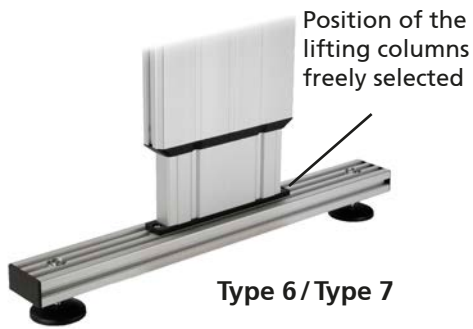
Type 1/2 GK-ALSi12/3.2583.02, black powder-coated

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

Scope of delivery:

one foot with fixing set



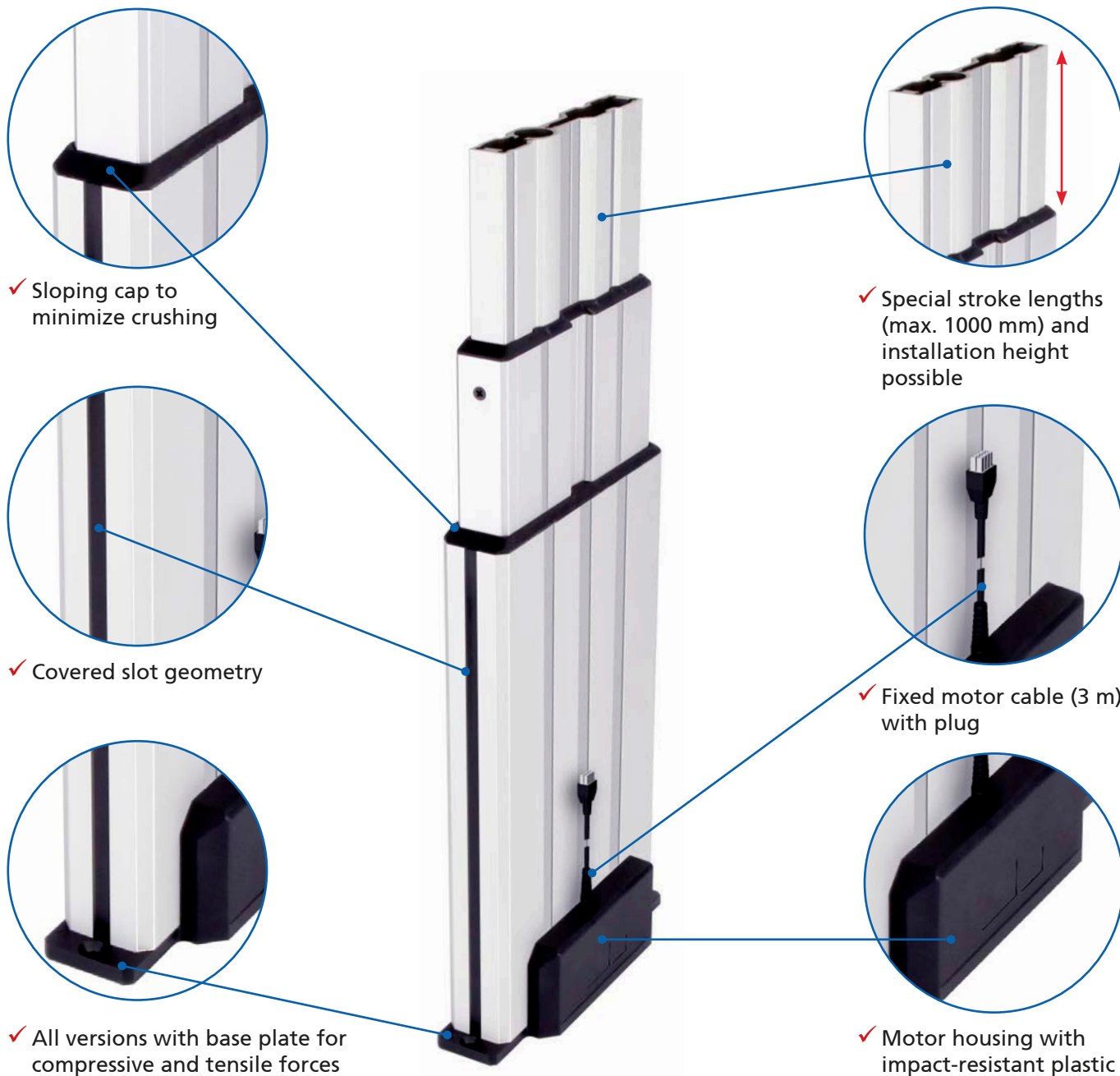


| Multilift II with internal carriage | Type | Max. load | Multilift II with internal carriage | | |
|-------------------------------------|------|-----------|-------------------------------------|------------------|-----------------|
| | | | Internal profile | External profile | Properties |
| QZD020254 | 3 | 1000 N | | ● | |
| QZD020255 | 4 | 1000 N | | ● | |
| QZD020256 | 6 | 3000 N | | ● | |
| QZD020257 | 7 | 3000 N | | ● | For ESD-Version |
| QZD020258 | 8 | 3000 N | | ● | |

Multilift II telescope



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



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
- Specific solutions on request
- Tested to: IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012

Multilift II telescope – Table of contents

| | | |
|--------------------|------------------------|---|
| Versions | Lifting columns | <ul style="list-style-type: none">■ Multilift II telescope..... Page 36■ Multilift II telescope ESD Page 40 |
| Accessories | Fixing | <ul style="list-style-type: none">■ RK SyncFlex..... Page 42■ Assembly plates..... Page 45■ Support struts..... Page 45■ Foot versions Page 46 |

Multilift II telescope – Technical data

General information/operating conditions

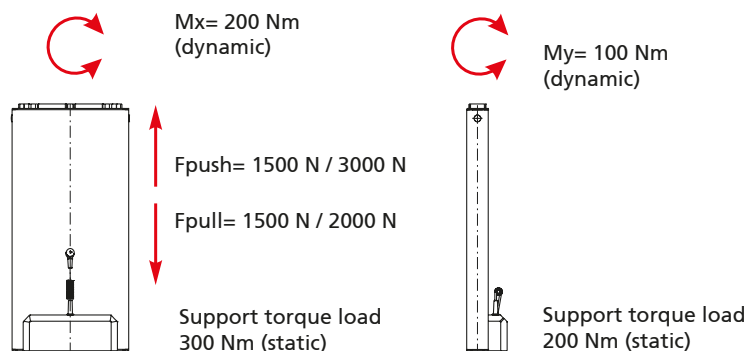
| Type | Multilift II telescope | Multilift II telescope ESD | Custom |
|---|---|----------------------------|----------|
| Design | Slim lifting column | | |
| Guide | POM slide bearings | | |
| Installation position | Any position / hanging only with drop protection provided by the customer | | |
| Push force | 3000 N or 1000 N | | |
| Pull force | 2000 N or 1000 N | | |
| Self-locking | Yes | | |
| Max. travel speed | 8 mm/s or 16 mm/s | | |
| Max. Stroke | 650 mm | | 1000 mm |
| Installation dimension | 560 mm | | 732,5 mm |
| Voltage | 28 V DC | | |
| Current output | 4 A | | |
| Protection class | IP 30 | | |
| Ambient temperature | +5°C to +40°C | | |
| Displacement during synchronous operation | 0 to 2 mm | | |
| Duty cycle (Operation mode S3) | At nominal load, 10% (2 min operating time, 18 mins rest time) | | |

Note:

All information refers to the standard sizes. All data of push/pull forces are referring to the individual lifting column, for combined applications a safety factor of up to 0,6 has to be considered.

In medical applications, the maximum pull force of 500 N and, in the case of the version with a travel speed of 8 mm/s, the maximum push force of 1500 N must not be exceeded.

Load data Multilift II telescope



| Drive | Push force [N] | Travel speed [mm/s] | Number of assigned motor channels | | | |
|------------------------|----------------|---------------------|-----------------------------------|---|------------------------|-------------|
| | | | 1 | 2 | 3 | 4 |
| Multilift II telescope | 1000 | 16 | ✓ | ✓ | each 850 N | each 500 N |
| Multilift II telescope | 3000 | 8 | ✓ | ✓ | each 1800 N | each 1000 N |
| | | | MultiControl II duo | | MultiControl II quadro | |

Note:

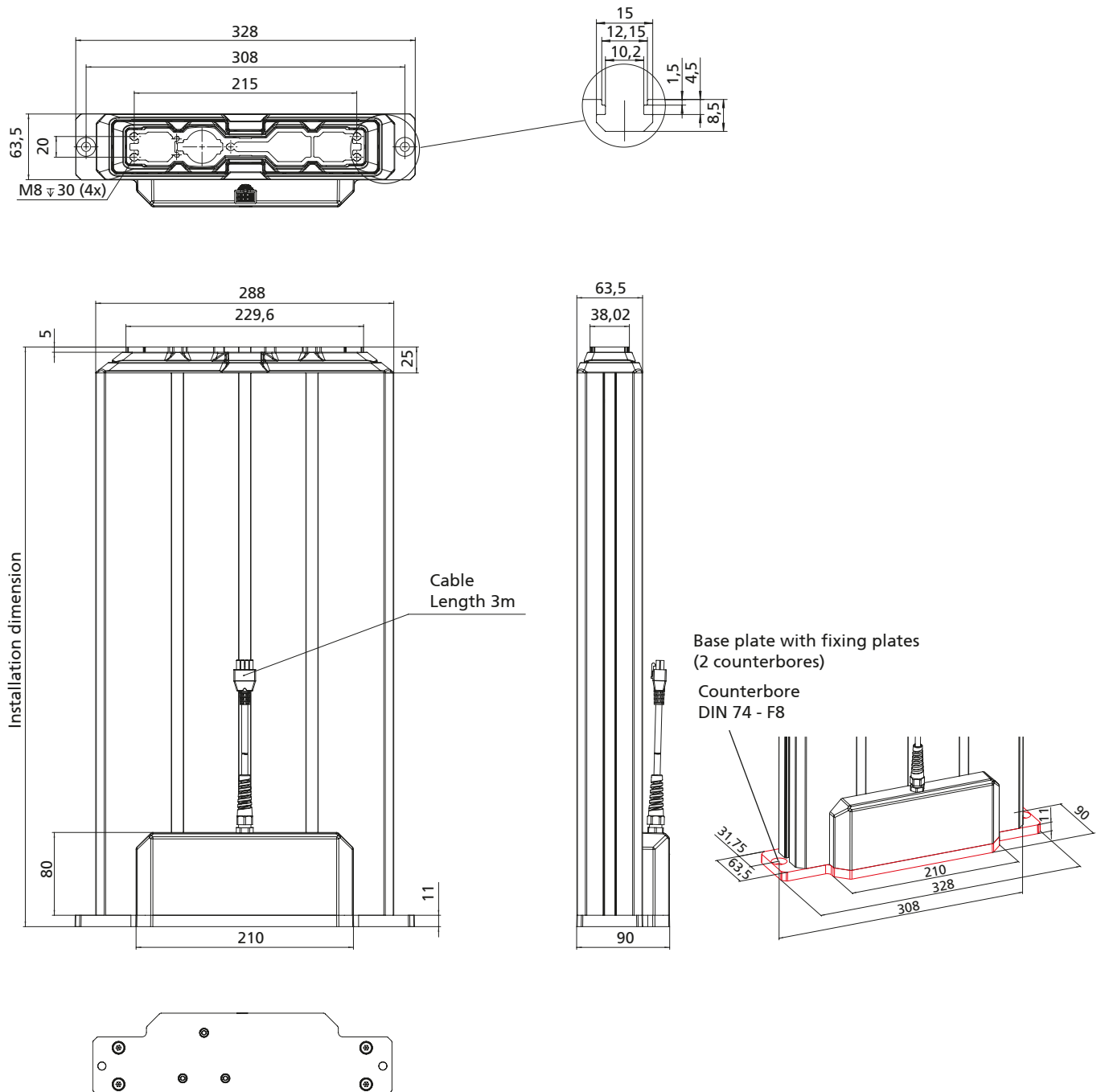
If more than 2 drives are to be operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controllers is required.

The necessary accessories can be found on page 66.

The procedure for setting up BUS communication is described in detail in the operating manual.



Multilift II telescope

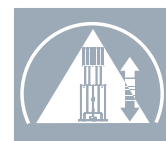


The fixing slots on the side allow an easy attachment of accessories. For example, a screen, CPU bracket or system reinforcements can be fixed to the lifting columns by using slot stones. The 30 slot geometry is also compatible with the RK BLOCAN® aluminium profile system.

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 (Custom 1000 mm) with a maximum lifting force of up to 3000 N per drive.



Special feature:

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

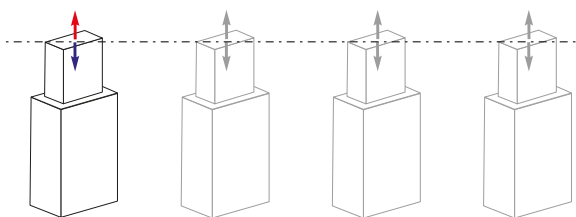
Ideal area of application:

- ✓ 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 50) and MultiControl II quadro (see page 58).

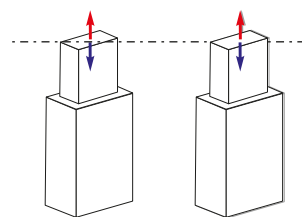


Features:

- Supports configuration of systems with up to 32 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 78)



Features:

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

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 dimension [mm] | Weight [kg] |
|-------------------|------------------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM13B1C3C22CA0650 | Multilift II telescope | 3000 / 1500 (med.) | 2000 / 500 (med.) | 8 | 650 | 560 | 15.0 |
| TM13B1C2C22CA0650 | Multilift II telescope | 1000 / 1000 (med.) | 1000 / 500 (med.) | 16 | 650 | 560 | 15.0 |

System components

| Code No. | Accessories | |
|---------------|--|------------------------|
| Controls | | |
| QST44H12AA000 | MultiControl II duo - Basic | Multilift II telescope |
| QST44H12AA022 | MultiControl II duo - Premium | |
| QST44H13AA000 | MultiControl II quadro - Basic | Multilift II telescope |
| QST44H13AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note:

Further accessories (hand switches, connecting cables etc.) can be found in the chapter „Controls and accessories“ starting on page 52

Set:

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

Scope of delivery:

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

Order instruction:

Please select mains cable and hand switch separately (see page 79)

| Code No. | Type | max. push force [N] | max. pull force [N] | max. lifting speed [N] | Total travel [mm] | Installation dimension [mm] | Weight [kg] |
|-------------------|---------------------------------------|---------------------------|---------------------------|------------------------------|----------------------|-----------------------------------|----------------|
| TS13B1C3C22CA0650 | Multilift II telescope Set 230V AC | 3000 | 2000 | 8 | 650 | 560 | 31.0 |
| TS13B1C2C22CA0650 | Multilift II telescope Set 230V AC | 1000 | 1000 | 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 ESD

Multilift II telescope 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 telescope 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

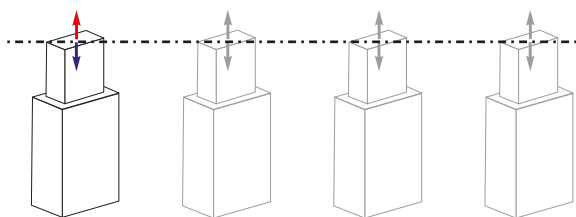
Ideal area of application:

- ✓ Assembly workstations for the manufacture of electronic components



Lifting column and control as individual components:

Multilift II telescope ESD can be used exclusively in combination with MultiControl II duo (see page 50) and MultiControl II quadro (see page 58).



Features:

- Supports configuration of systems with up to 32 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 dimension [mm] | Weight [kg] |
|-------------------|----------------------------|------------------------|------------------------|---------------------------------|----------------------|-----------------------------------|----------------|
| TM13B1C3C22CC0650 | Multilift II telescope ESD | 3000 / 1500 (med.) | 2,000 / 500 (med.) | 8 | 650 | 560 | 15.0 |
| TM13B1C2C22CC0650 | Multilift II telescope ESD | 1000 / 1000 (med.) | 1,000 / 500 (med.) | 16 | 650 | 560 | 15.0 |

System components

| Code No. | Accessories | |
|---------------|--|----------------------------|
| Controls | | |
| QST12H12AA000 | MultiControl II duo - Basic | Multilift II telescope ESD |
| QST12H12AA022 | MultiControl II duo - Premium | |
| QST12H14AA000 | MultiControl II quadro - Basic | Multilift II telescope ESD |
| QST12H14AA022 | MultiControl II quadro - Premium | |
| Hand switches | | |
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable lenth | |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable lenth | |
| QZD000074 | Hand switch drawer for hand switch with 6 and 2 function keys | |
| IEC connector | | |
| QZD070618 | IEC cable (Europe version, earthed plug) | |

Note:

Further accessories (hand switches, connecting cables etc.) can be found in the chapter „Controls and accessories“ starting on page 66.

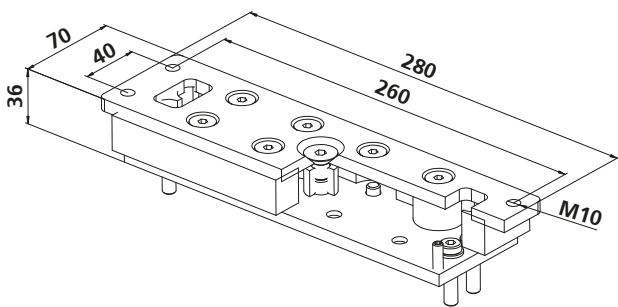
Multilift II telescope – Accessories

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 | Max. load | Multilift II telescope | |
| | | | Internal profile | External profile |
| QZD020471 | Multilift II product line | 3000 N | ● | |

RK SyncFlex V

Scope of delivery:

Adjuster plate, incl. fixing material

Option:

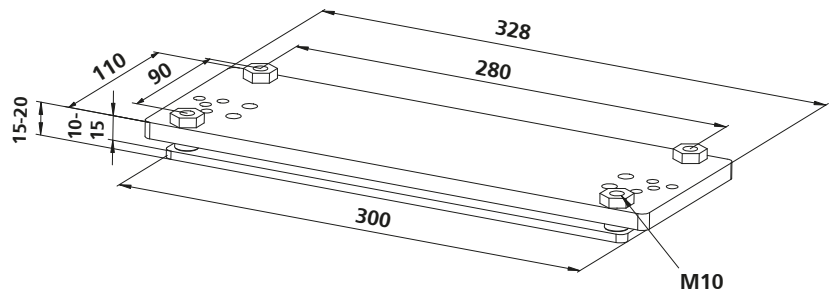
Pressure plate (see table) can be ordered separately

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 | Max. load | Multilift II telescope | | |
| | | | Internal profile | External profile | |
| RK SyncFlex Adjusting plate | | | | | |
| QZD020620 | Multilift II Produktlinie | 3000 N | ● * | ● | |
| Abdrückplatte | | | | | |
| QZD020621 | Multilift II Produktlinie | 3000 N | | | |

•* = in connection with the assembly plate Type 2 (page 45)

Multilift II telescope – Accessories

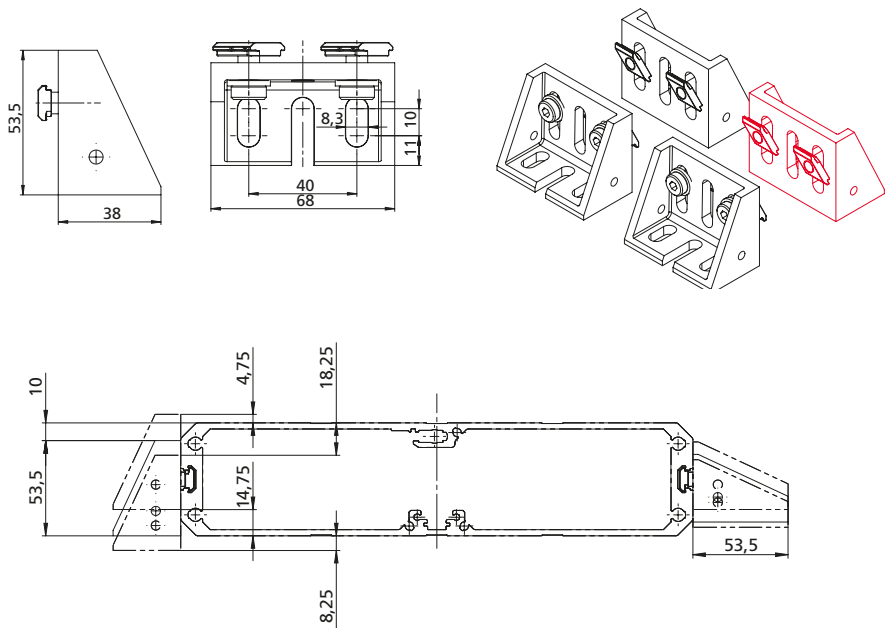
Mounting bracket for Multilift II



■ The mounting brackets are used to to fix the lifting column horizontally or vertically by means of the fixing slots on the outer profile of the Multilift II. Also suitable for ESD applications.

Material:
Aluminium die cast

Scope of delivery:
One mounting bracket including mounting material



[mm]

| Code No. | Type | Max. load | Multilift II | |
|-----------|-------------------------------|-----------|------------------|------------------|
| | | | Internal profile | External profile |
| QZD020745 | Multilift II mounting bracket | 3000 N | | ● |

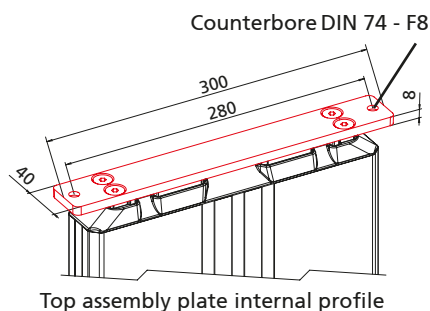
Assembly plates

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

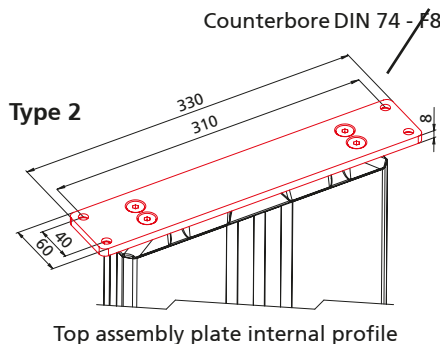
Material:

Option of black-powdered die cast zinc or black-powdered steel, zinc plated fixing set

Type 2



Type 3



Scope of delivery:

Plate with fixing set

| Code No. | Type | for drive | Material | Multilift II telescope | |
|-----------|------|------------------------|---------------|------------------------|------------------|
| | | | | Internal profile | External profile |
| QZD020549 | 2 | Multilift II telescope | Zinc die cast | ● | |
| QZD020552 | 3 | Multilift II telescope | Steel | ● | |

Support struts

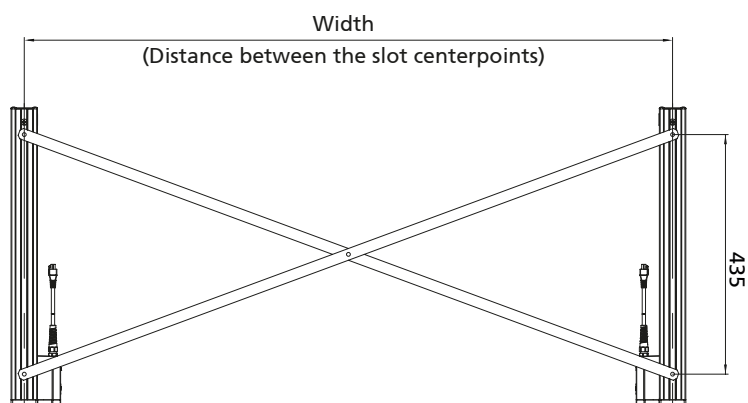
- For stabilisation of column structures.
- Available for all Multilift II / Multilift II telescope variants.

Material:

Aluminium not anodized

Scope of delivery:

Two support struts including fastenings



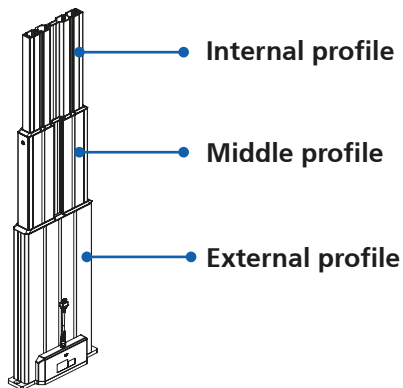
[mm]

| Code No. | Type | Width (min.) | Width (max.) | Multilift II | |
|-----------|---|--------------|--------------|------------------|------------------|
| | | | | Internal profile | External profile |
| QZD020734 | Support struts Multilift II product line | 750 mm | 2000 mm | | ● |

Distance between the slot centerpoints [mm]

Multilift II telescope – Accessories

Foot versions



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

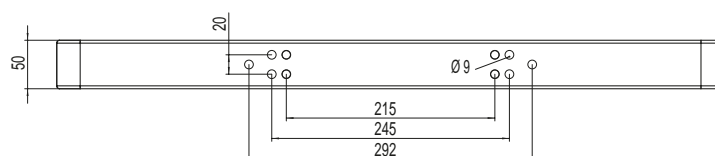
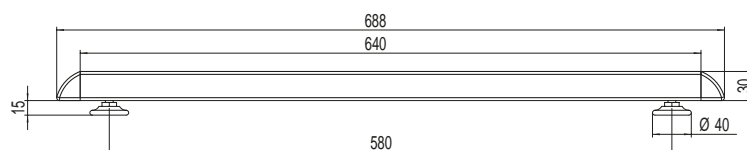
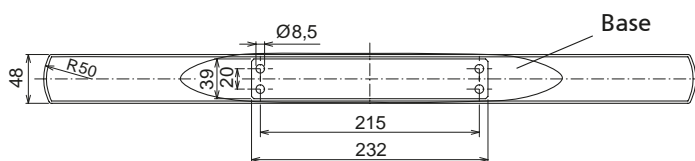
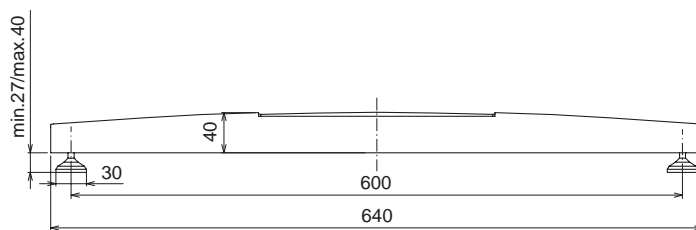
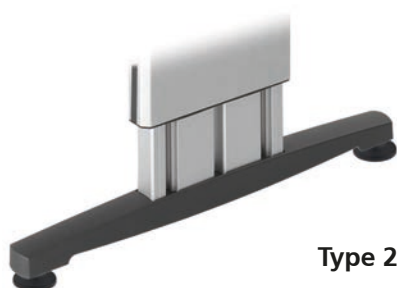
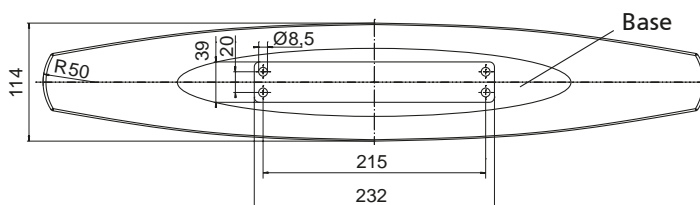
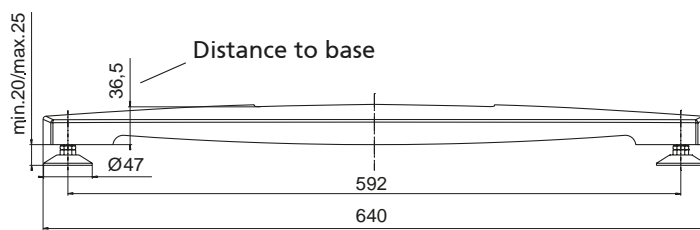
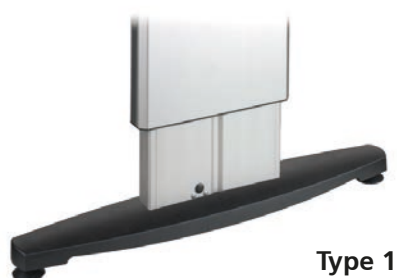
Material:

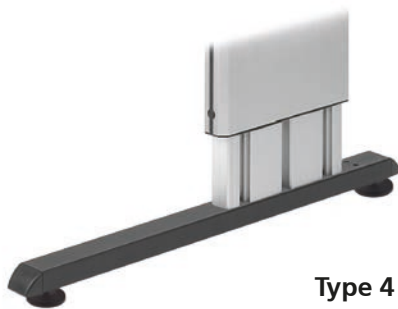
Type 1/2 GK-ALSi12/3.2583.02, black powder-coated

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

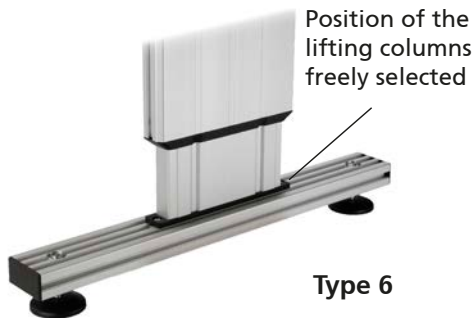
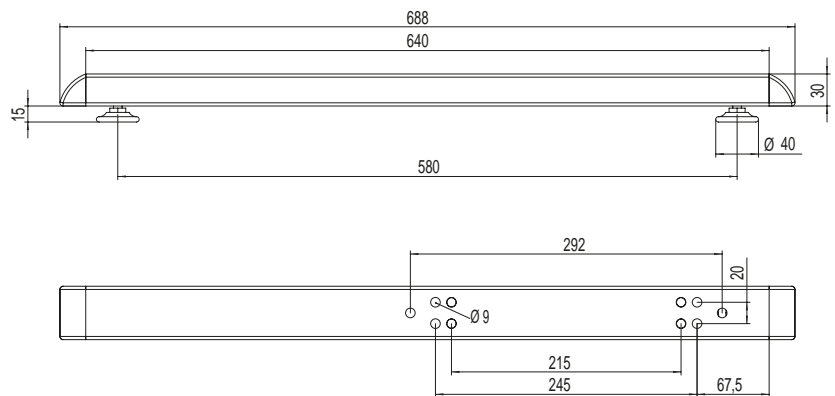
Scope of delivery:

one foot with fixing set

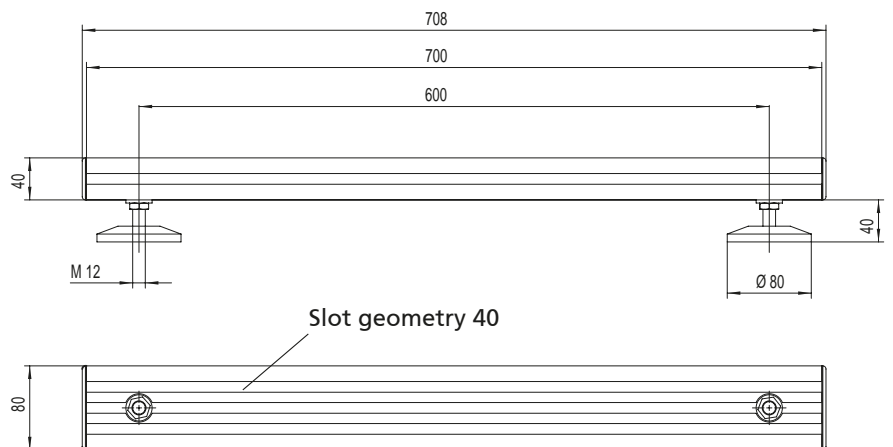




Type 4



Type 6



*Order instruction: The application example shown – internal profile mounted on Type 6 – is only in combination with an assembly plate possible (see page 45)

| Code No. | Type | Max. load | Multilift II telescope | | Multilift II telescope ESD | |
|-----------|------|-----------|------------------------|------------------|----------------------------|------------------|
| | | | Internal profile | External profile | Internal profile | External profile |
| QZD020252 | 1 | 1000 N | ● | | | |
| QZD020253 | 2 | 1000 N | ● | | | |
| QZD020254 | 3 | 1000 N | ● | | | |
| QZD020255 | 4 | 1000 N | ● | | | |
| QZD020256 | 6 | 3000 N | ●* | ● | | |
| QZD020257 | 7 | 3000 N | | | ●* | ● |

MultiControl II duo



Synchronous control for up to **2 drives**
(16 in bus combination)

MultiControl II quadro



Synchronous control for up to **4 drives**
(32 in bus combination)

The MultiControl II duo and MultiControl II quadro each have a 10 A power output. If the drives require more than 10 amps for the particular application, multiple MultiControl II duo controls have to be used in a bus combination. The necessary accessories can be found on page „MultiControl II – Accessories“ on page 66. The procedure for setting up BUS communication is described in detail in the operating manual.



| Drive | | Push force [N] | Travel speed [mm/s] | Number of assigned motor channels | | | |
|-----------------|-----------------------------|----------------|---------------------|-----------------------------------|---|------------------------|-------------|
| | | | | 1 | 2 | 3 | 4 |
| Lifting columns | Multilift | 1000 | 13 | ✓ | ✓ | ✓ | each 750 N |
| | Multilift | 3000 | 6 | ✓ | ✓ | each 2200 N | each 1500 N |
| | Multilift interior carriage | 1000 | 13 | ✓ | ✓ | ✓ | each 750 N |
| | Multilift interior carriage | 3000 | 6 | ✓ | ✓ | each 2200 N | each 1500 N |
| | Multilift II | 1000 | 16 | ✓ | ✓ | ✓ | each 750 N |
| | Multilift II | 3000 | 8 | ✓ | ✓ | each 2200 N | each 1500 N |
| | Multilift II safety | 600 | 16 | ✓ | – | – | – |
| | Multilift II telescope | 1000 | 16 | ✓ | ✓ | each 850 N | each 500 N |
| | Multilift II telescope | 3000 | 8 | ✓ | ✓ | each 1800 N | each 1000 N |
| | | | | MultiControl II duo | | MultiControl II quadro | |

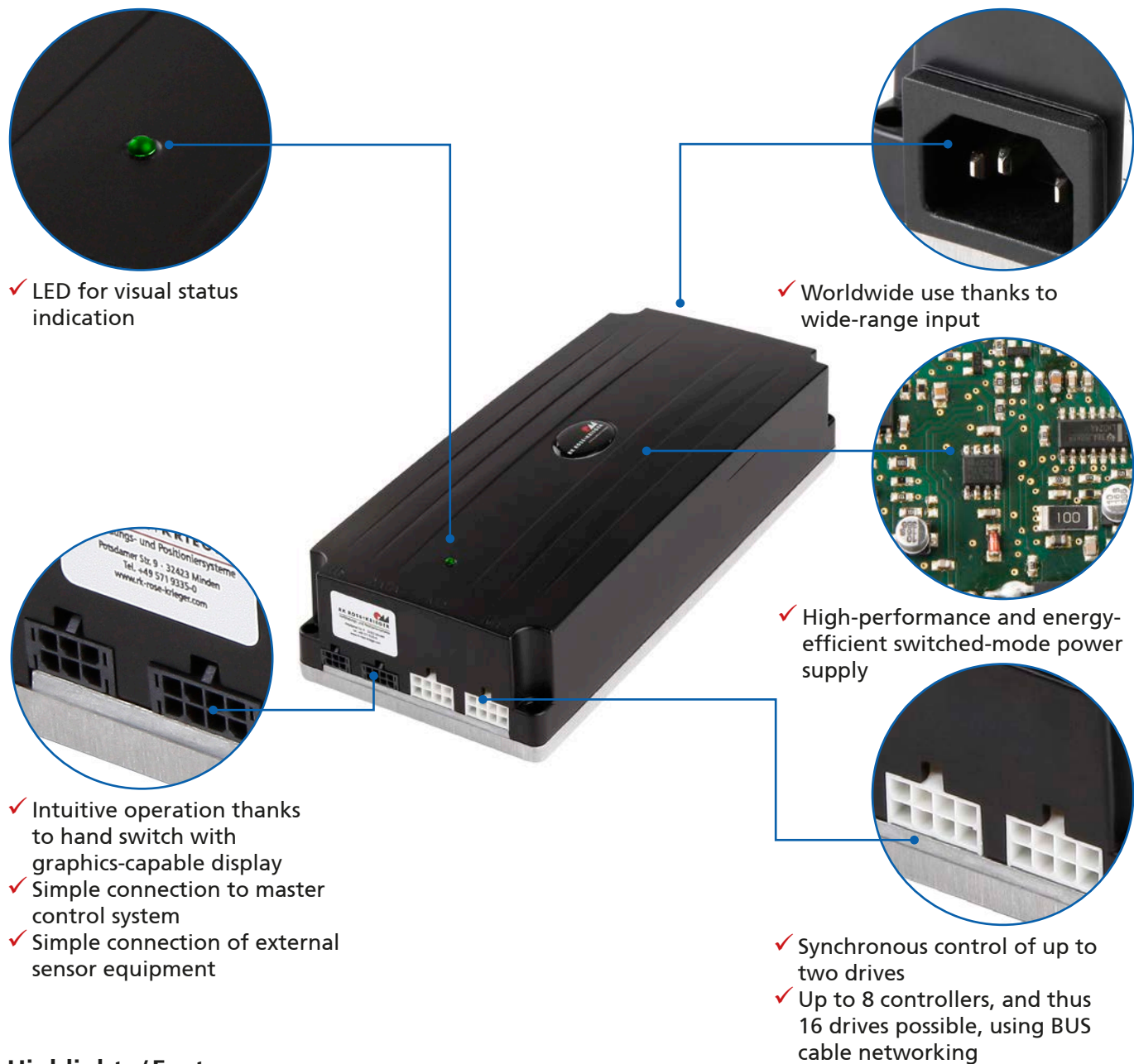
Note:

If more than 2 drives are to be operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controllers is required.

The required accessories can be found on page 62. The procedure for setting up BUS communication is described in detail in the operating manual.



MultiControl II duo



Highlights / Features:

- Dynamic duty cycle calculation
- Duty cycle, overcurrent and temperature monitoring for overload protection as standard
- Intuitive operation thanks to hand switch with graphics-capable display
- The hand switch with 6 function keys can be used to perform multiple functions, such as the storage of intermediate positions or user changeovers
- Simple connection to the master control system level using serial interface (RS-485) and standardised bus protocol (Modbus RTU)
- Energy-efficient overall system (control incl. hand switch) thanks to switched-mode power supply with wide-range input (standby consumption < 1 watts)
- Controller available in Basic and Premium versions
- Certified control according to NRTL (UL 61010-1; CAN/CSA C22.2 No. 61010-1) and FCC Part 15

Option:

- Special functions available on request
- CB report as per 61010-1
- Versions as per DNV GL (e.g. CG 0339)
- High-performance version on request



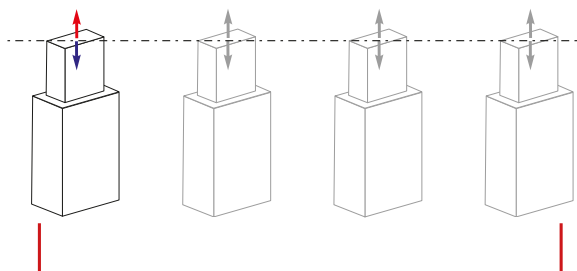
MultiControl II duo – Table of contents

| | | |
|--------------------|----------------------------|---|
| Controls | MultiControl II duo | <ul style="list-style-type: none">■ General information Page 52■ MultiControl II duo Basic Page 54■ MultiControl II duo Premium Page 54 |
| Accessories | | <ul style="list-style-type: none">■ IEC cable Page 66■ Cabel Page 66■ Hand switch Page 68■ Hand switch drawer Page 68■ I/O - Interface..... Page 72 |

MultiControl II duo – Technical data

General information / operating conditions

| Type | MultiControl II duo |
|--|---|
| Compatible | Multilift, Slimlift, Multilift II, Multilift II telescope, Powerlift M, LZ 60 |
| 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) |

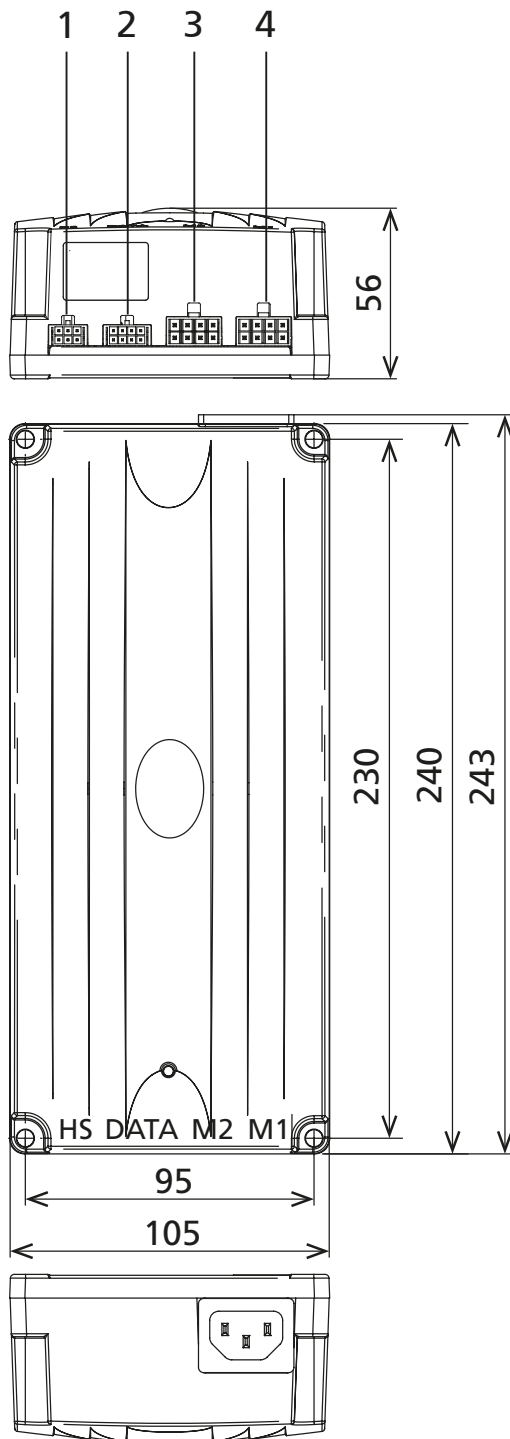


Supports configuration of systems with up to 16 drives

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



MultiControl II duo – Versions

MultiControl II duo basic/premium

The MultiControl II duo controller is available in a Basic and a Premium version.

The Premium version includes three additional software functions compared to the Basic version. These are described on the following pages.

| Feature/software function | Basic | Premium |
|--|-------|---------|
| Low standby consumption | • | • |
| Wide-range input | • | • |
| Dynamic duty cycle calculation | • | • |
| Temperature monitoring | • | • |
| Visual status indication | • | • |
| Networking of multiple controllers* | • | • |
| Stroke limitation* | • | • |
| Memory positions* | • | • |
| Change/set stroke display/base height* | • | • |
| View error history | • | • |
| View current consumption of drives | • | • |
| Transfer parameter settings to other systems* | • | • |
| Serial interface (RS-485) | • | • |
| Standardised bus protocol (Modbus RTU) | • | • |
| I/O interface compatibility | • | • |
| Connection of external sensor equipment (e.g. safety edge) | • | • |
| Integrated collision detection (SPP) | | • |
| Absolute positioning* | | • |
| Relative positioning* | | • |

*Note: Hand switch with 6 function keys required for functionality

Controls

| Code No. | Softwareversion | for drive |
|---------------|-----------------|---|
| QST11H12AA000 | Basic | Multilift II, Multilift II ESD, Multilift II safety, Multilift II clean, Multilift II with internal carriage |
| QST11H12AA022 | Premium | |
| QST12H12AA000 | Basic | Multilift II telescope, Multilift II telescope ESD |
| QST12H12AA022 | Premium | |
| QST13H12AA000 | Basic | Multilift II impact |
| QST13H12AA022 | Premium | |
| QST10H12AA000 | Basic | Multilift |

SPP – Smart Product Protection (integrated collision detection)

Function description

The Premium version of the MultiControl II control unit includes RK Rose+Krieger GmbH's own in-house developed SPP technology. This technology makes for a considerable reduction of the risk of product damage in the customer's application. In the process, protection is not just provided for the connected drives, but also for the connecting construction as a whole.

When adjusting the height of tables or machine frames, for instance, there is a latent risk of collisions as a result of the raising and lowering of a load. If they occur, these collisions can cause hitches and damage to drives (reduction of the service life, possible complete failure) and even to the connecting construction.

SPP is a software-based solution for collision detection. A major benefit is the fact that the technology is fully integrated into the control system. This way, it is not necessary to equip the customer application with additional external sensor equipment.

A further special feature is the option of the user to adjust the sensitivity of the system (triggering force when a collision is detected) specifically to the application. The following is a further summary of the significant benefits of integrated collision detection.



Highlights / Features:

- Higher product safety – SPP detects obstacles, both during upward and downward movement
- No external obstructing contour – the technology is fully integrated into the control system and works with all compatible drives
- High process reliability – SPP functions regardless of the load or other ambient parameters, e.g. ambient temperature
- Plug & Play – no further installation steps are required for the collision protection thanks to integration into the control system
- Flexibility – sensitivity can be adjusted using the hand switch with 6 function keys

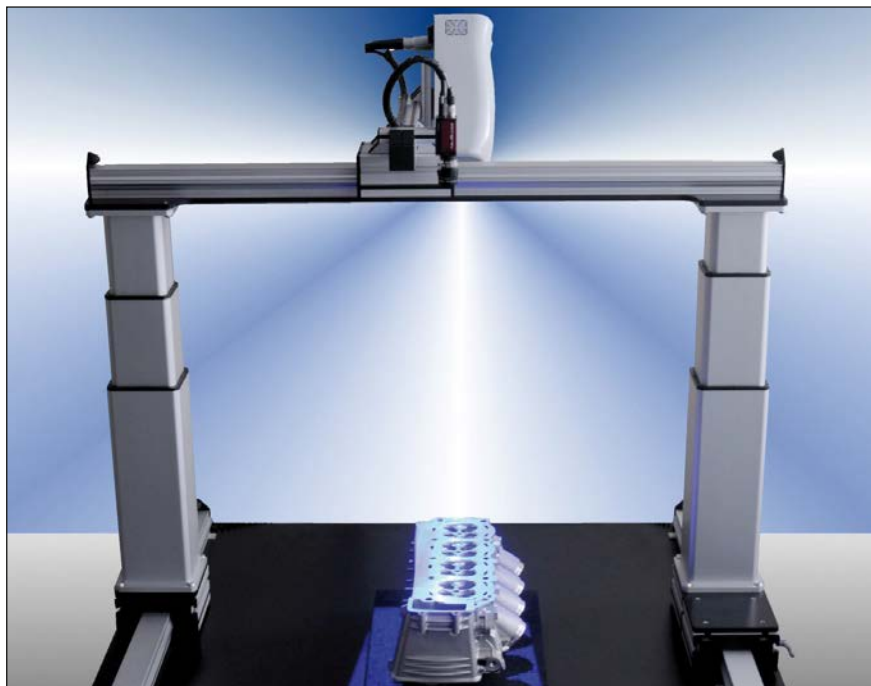
Relative and absolute positioning

Alongside the integrated collision detection (SPP), the Premium version has two further functions which relate to the type of drive positioning.

In addition to moving to previously stored memory positions, it is also possible to carry out relative or absolute positioning. The first variant refers to positioning relative to the current position of the lifting column.

This way, the operating control can be used to set a defined value (e.g. 30% or 30 mm) by which the drive further retracts or extends.

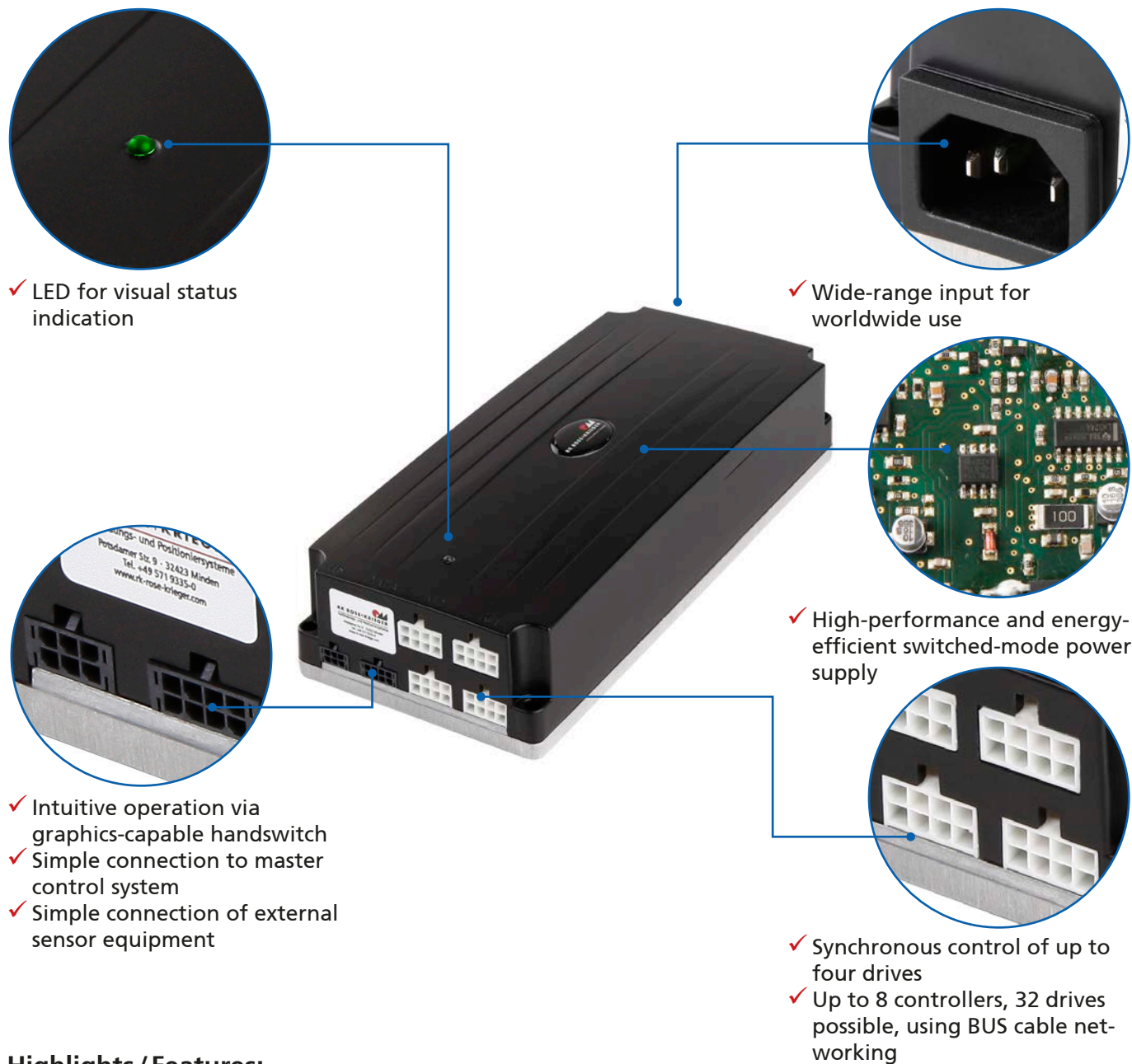
Absolute positioning, on the other hand, refers to the complete scale of the adjustment range. Thus it is also possible to use the operating control to move the drive precisely to a predefined position. This function can be very significant, for instance, for applications in which components are measured.



Highlights / Features:

- Absolute positioning – precise positioning to a defined position in relation to the complete adjustment range of the drive
- Relative positioning – gradual positioning in relation to the current position of the drive
- Positioning accuracy – both software functions allow positioning to predefined positions which is accurate to the millimetre

MultiControl II quadro



Highlights / Features:

- Dynamic duty cycle calculation
- Duty cycle, overcurrent and temperature monitoring for overload protection as standard
- Intuitive operation thanks to hand switch with graphics-capable display
- The hand switch with 6 function keys can be used to perform multiple functions, such as the storage of intermediate positions or user changeovers
- Simple connection to the master control system level using serial interface (RS-485) and standardised bus protocol (Modbus RTU)
- Energy-efficient overall system (control incl. hand switch) thanks to switched-mode power supply with wide-range input (standby consumption < 1 watts)
- Controller available in Basic and Premium versions
- Certified control according to NRTL (UL 61010-1; CAN/CSA C22.2 No. 61010-1) and FCC Part 15

Option:

- Special functions available on request
- CB report as per 61010-1
- Versions as per DNV GL (e.g. CG 0339)
- High-performance version on request



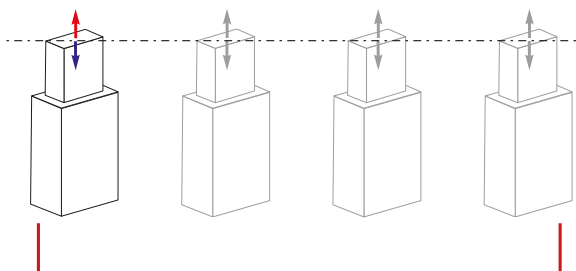
MultiControl II quadro – Table of contents

| | | |
|--------------------|------------------------|---|
| Controls | MultiControl II quadro | <ul style="list-style-type: none">■ General information Page 60■ MultiControl II quadro basic Page 62■ MultiControl II quadro premium Page 62 |
| Accessories | | <ul style="list-style-type: none">■ IEC cable Page 66■ Cabel Page 66■ Hand switch Page 68■ Hand switch drawer Page 68■ I/O - Interface..... Page 72 |

MultiControl II quadro – Technical data

General information / operating conditions

| Type | MultiControl II quadro |
|--|---|
| Compatible | Multilift, Slimlift, Multilift II, Multilift II telescope, Powerlift M, LZ 60 |
| Input voltage | 100 – 240 V ~ 50 / 60 Hz |
| Output voltage | 28 V DC |
| Current output | max. 10 A |
| Power | 285 VA |
| Standby-power | ≤ 1 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 | ca. 1000g |
| Duty cycle (Operation mode S 3) | At nominal load, 20% (4 min operating time, 16 mins rest time) |

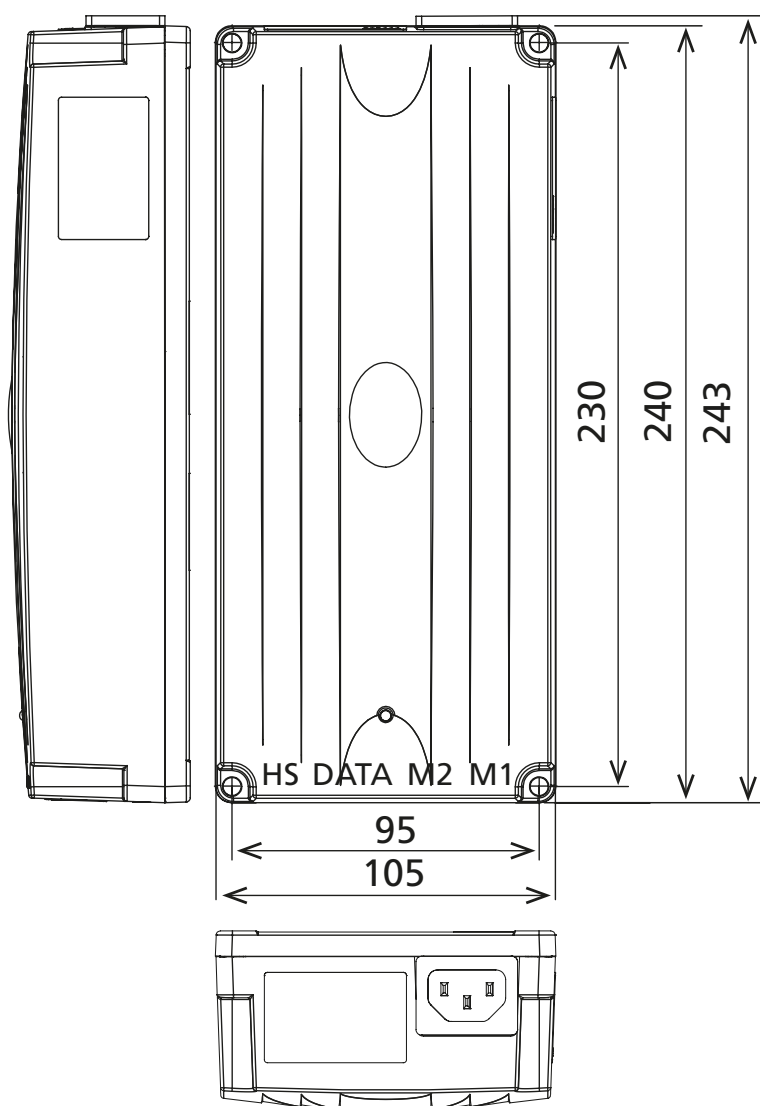
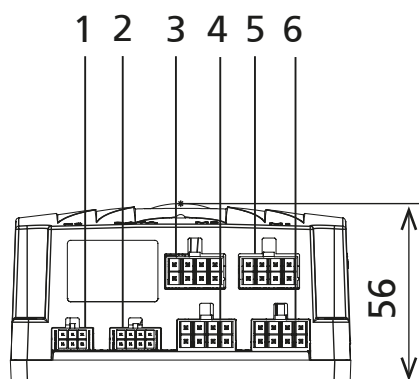


Supports configuration of systems with up to 32 drives

MultiControl II quadro



- 1 HS = Hand switch connector
- 2 DATA = Interface for sensors
(e.g. safety edge and
synchronisation bus)
- 3 M4 = Motor connector 4
- 4 M2 = Motor connector 2
- 5 M3 = Motor connector 3
- 6 M1 = Motor connector 1
- P = Power socket



MultiControl II quadro – Versions

MultiControl II quadro basic/premium

The MultiControl II duo controller is available in a Basic and a Premium version.

The Premium version includes three additional software functions compared to the Basic version. These are described on the following pages.

| Feature/software function | Basic | Premium |
|--|-------|---------|
| Low standby consumption | • | • |
| Wide-range input | • | • |
| Dynamic duty cycle calculation | • | • |
| Temperature monitoring | • | • |
| Visual status indication | • | • |
| Networking of multiple controllers* | • | • |
| Stroke limitation* | • | • |
| Memory positions* | • | • |
| Change/set stroke display/base height* | • | • |
| View error history* | • | • |
| View current consumption of drives* | • | • |
| Transfer parameter settings to other systems* | • | • |
| Serial interface (RS-485) | • | • |
| Standardised bus protocol (Modbus RTU) | • | • |
| I/O interface compatibility | • | • |
| Connection of external sensor equipment (e.g. safety edge) | • | • |
| Integrated collision detection (SPP) | | • |
| Absolute positioning* | | • |
| Relative positioning* | | • |
| Key Lock* | | • |
| Drive group management* | | • |

*Note: Hand switch with 6 function keys required for functionality

Controls

| Code No. | Softwareversion | for drive |
|---------------|-----------------|---|
| QST11H14AA000 | Basic | Multilift II, Multilift II ESD, Multilift II safety, Multilift II clean, Multilift II with internal carriage |
| QST11H14AA022 | Premium | |
| QST12H14AA000 | Basic | Multilift II telescope, Multilift II telescope ESD |
| QST12H14AA022 | Premium | |
| QST13H14AA000 | Basic | Multilift II impact |
| QST13H14AA022 | Premium | |
| QST10H14AA000 | Basic | Multilift |

Drive group management (DGM)

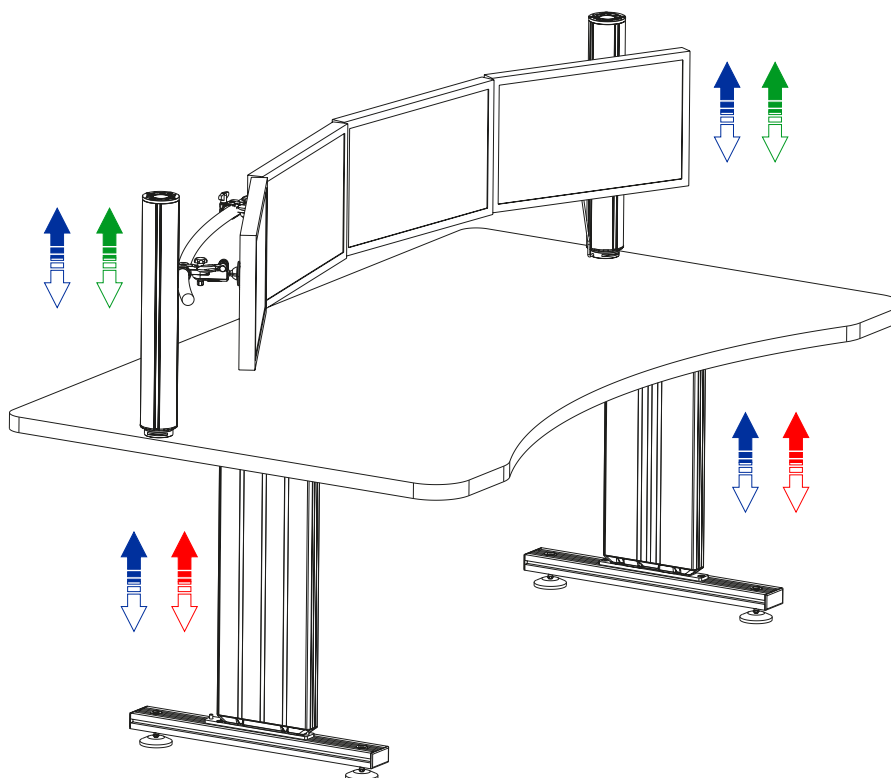
Function description

The basic version of the MultiControl II quadro allows you to position four drives synchronously. Those for whom this functionality is not sufficient can opt for the premium version of the control unit.

Alongside the renowned collision detection (SPP), it also has drive group management. The function, which was developed by RK Rose+Krieger in-house, allows different drive groups to be freely configured (2+2, 2+1, 1+2 and 1+1). In the process, up to two different drive types (e.g. RK Slimlift and Multilift II) can be combined with each other or positioned individually, in parallel or synchronously.

Furthermore, when drive group management is activated, the numerous further premium functions can be used. The second drive group, for example, can be positioned independently of the first either absolutely or relatively, and memory positions can also be assumed independently.

The integrated collision detection can also be freely configured for each group in the upwards and downwards movement. These benefits, combined with the intuitive menu navigation of the MultiControl II family, facilitate a number of new applications. The following is a summary of the essential benefits of drive group management.



Highlights/features:

- Freely configurable motor groups (2+2, 2+1, 1+2, 1+1)
- Plug & play – thanks to integration in the control. No need for a bus connection with four drives
- The full range of premium functions are also available for activation
- Flexibility – Free selection of combinable drives underneath the motor groups



MultiControl II – Accessories

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 |



1



2



3



4

| Code No. | Accessories | Interface | Fig. |
|-----------|--|---------------|------|
| QZD070731 | BUS cable 6 m for networking of up to 8 synchronous control | DATA | 1 |
| QZD070694 | Terminating resistor (only necessary when more than 2 synchronous controls are connected) * | BUS-cabel 6 m | 2 |
| QZD070730 | BUS cable 1 m for networking of 2 synchronous control | DATA | 3 |
| QZD070718 | Interface cable (open cable end) – 4 m straight | DATA | 4 |

***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.

Connecting cable for Multilift I to MultiControl II family



| Code No. | Multilift I to MultiControl II* | Interface | Fig. |
|-----------|---|-----------------|------|
| QZD020711 | Connecting cable with locking mechanism, Multilift I to MultiControl II - 2.5 m | Motor connector | 5 |
| QZD020722 | Adapterkabel Multilift I an MultiControl II - 0,2 m | Motor connector | 6 |

***Note:** For the compatibility of the Multilift I lifting column, you require one of the adapter cables shown.



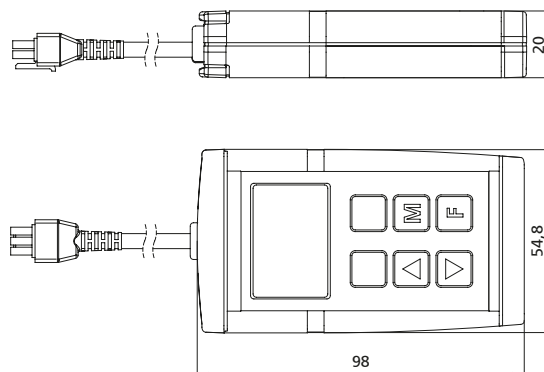
| Code No. | Accessories | Interface | Fig. |
|-----------|---|-----------------|------|
| QZD070700 | Hand switch extension cable – 2.5 m straight | HS | 7 |
| QZD070710 | Hand switch cable (open cable end) – 4 m straight | HS | 8 |
| QZD070712 | Extension cable for drives to Multilift II - 3 m straight | Motor connector | 9 |

***Note:** When using the 3 m extension cable for drives (QZD070712), lag error E11 / E12 may occur due to the increased line resistance. In this case it is necessary to reduce the travel speed, for which you require the hand switch with 6 function keys and display.

MultiControl II – Accessories

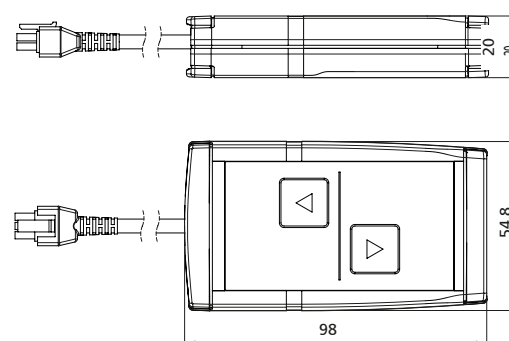
Hand switches with 6 function keys

1



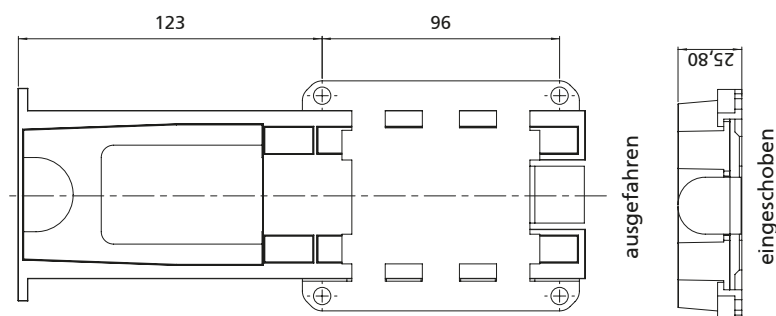
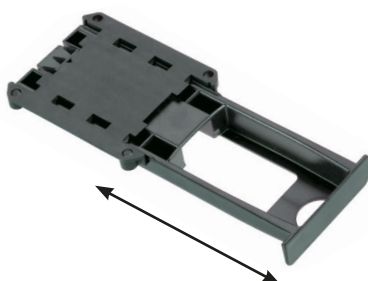
Hand switches with 2 function keys

2



Hand switch drawer

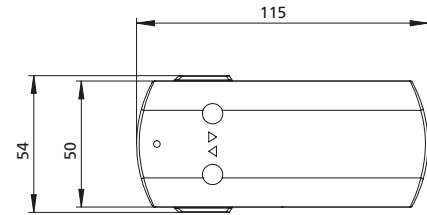
3



| Code No. | Version | Fig. |
|---------------|---|------|
| QZB11G07AV041 | Hand switch with 6 function keys and display – 1 m cable length | 1 |
| QZB11G07AB041 | Hand switch with 2 function keys – 1 m cable length | 2 |
| QZD000074 | Hand switch drawer for hand switches with 6 and 2 function keys | 3 |

Remote hand switch with 2 function keys

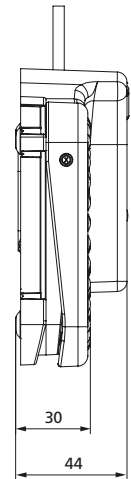
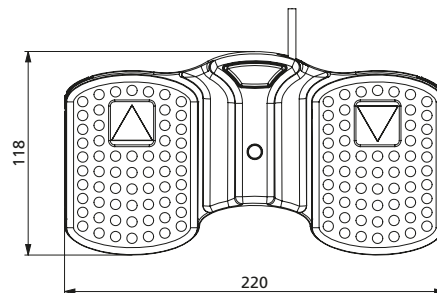
4



*Please note the ordering information below!

Foot switch with 2 function keys

5



*Please note the ordering information below!

Adapter cable

6

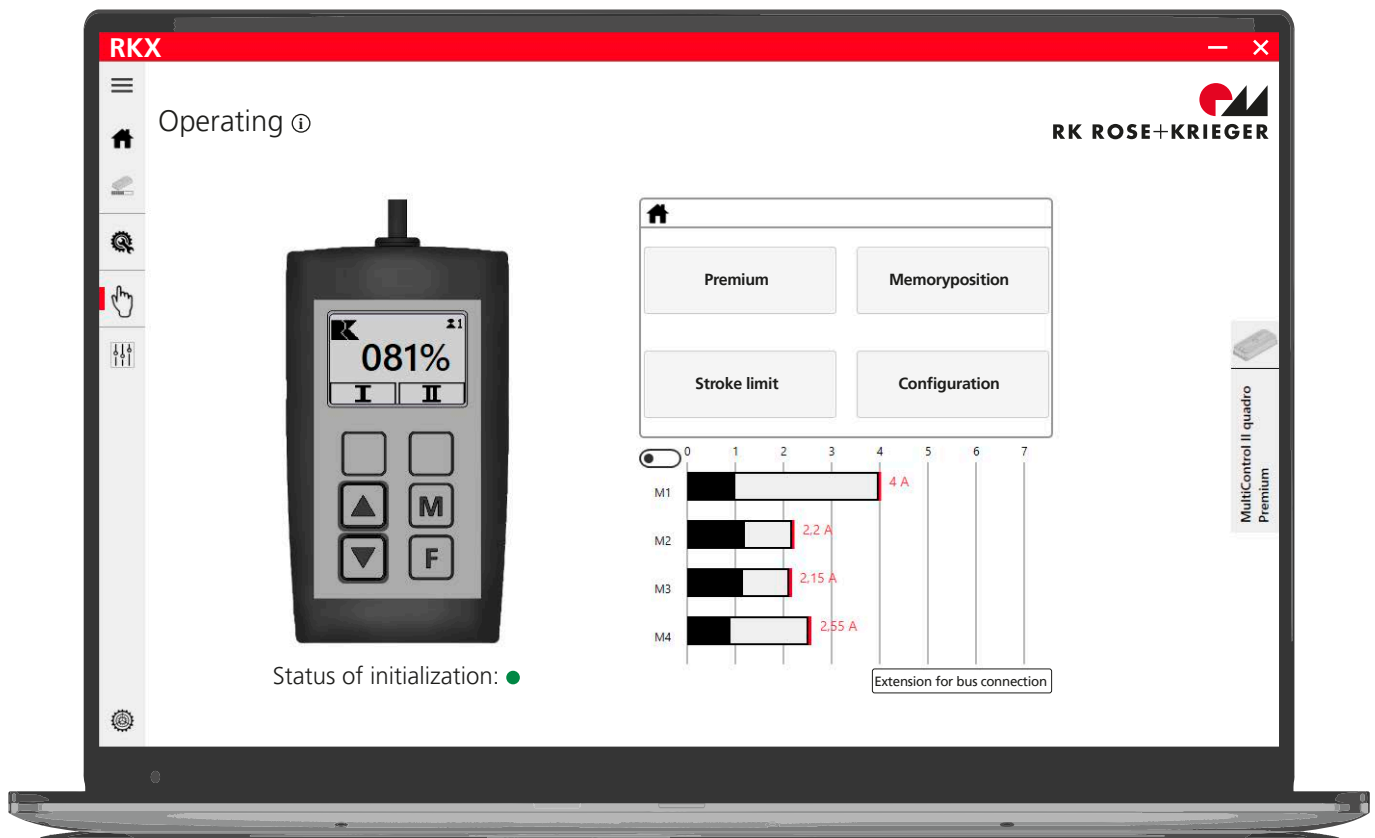


| Code No. | Version | Fig. |
|---------------|---|------|
| QZB00D07BK141 | Remote hand switch – 2 function keys | 4 |
| QZB02C01AE114 | Foot switch – 2 function keys | 5 |
| QZD070699 | Adapter cable DIN 7-pin to Molex 6-pin (Hand switch to MultiControl II) – 0.2 m | 6 |

***Order instruction:** When using a foot switch with 2 function keys and remote hand switch with 2 function keys, the adapter cable is essential.

MultiControl II – Accessories

One interface, countless possibilities



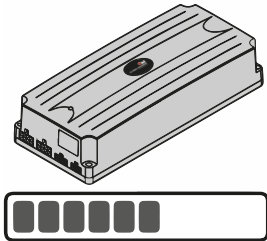
Highlights / Features:

- Easy detection of tension or an overloaded system
- Visualisation of motor current for up to 32 drives
- Storage of your requirements in configuration profiles
- Guided start-up of the system
- Software update
- System configuration
- System operation
- Read-out and export of fault history for detailed analysis

| Code No. | Version |
|-----------|---------------------|
| QZD070748 | RKX Interface – 2 m |

The **RKX** (Windows software), in conjunction with the **RKX**-interface (Cable), provides you with numerous different options for interaction with your controller. Alongside the main functions explained in the following, you can also view the prior run time, the current temperature of the controller, the number of positioning movements completed and much more.

Update



Using the **RKX** you can update the Multi Control II controllers with a new software version and thus access new functions.

Also, in the event of a replacement delivery to your end customer you can restore the individual factory settings (e.g. preactivated functions, certain software version etc.) so that integration into your customer's overall system works smoothly.

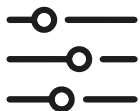
Software profiles which have been individually adapted to you or your customer by RK Rose+Krieger can also be transferred to the controller.

Service



The **RKX** also provides you with access to the fault history of your MultiControl II. This feature can be used to read out the most recent 20 reports from the controller. The entries can be used to draw conclusions relating to one-off or recurring faults, e.g. constructional distortions, faults in the voltage supply or overloaded drives. This data can be used to define further measures for optimisation of the service life and to reduce downtimes on your overall system.

Configuration



This menu item is used to configure various (pre) settings for the MultiControl II in accordance with your individual requirements. The start-up procedure for the entire system and the various premium functions can also be performed intuitively.

Moreover, the set options can be saved as (customer) profiles, allowing you to guarantee consistent functionality for your end customers

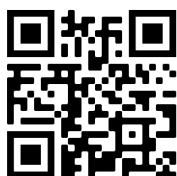
Operating



In order to check the settings made previously and determine the current motor current of your application, for instance, the drives can also be moved using the **RKX**. In addition to many further options, you can also set the premium functions (collision detection (SPP), drive group management, and relative and absolute positioning), memory positions and stroke limitation.

That way, nothing stands between you and problem-free set-up of your or your customer's application.

RKX-Software



More information

More information on our RK Rose+Krieger website.
Simply scan the QR code to find out more about our **RKX**-Software.

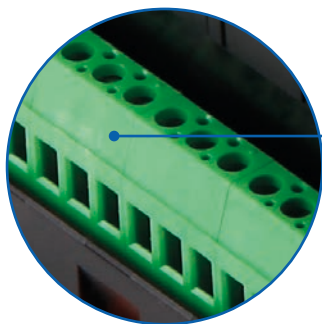
I/O - Interface



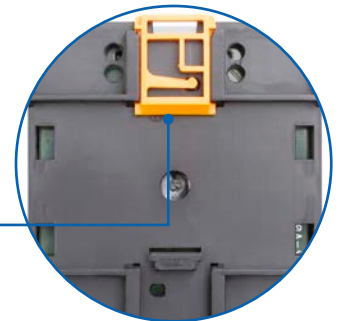
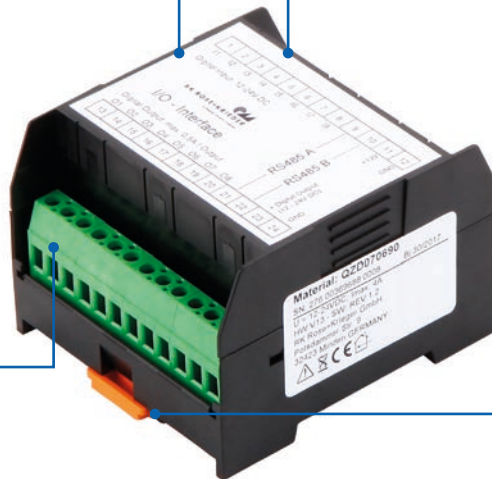
- ✓ Compatible with the MultiControl II product family



- ✓ Receives digital signals (e.g. from a PLC) as commands



- ✓ Forwards feedback from the controller to digital outputs



- ✓ Quick and easy installation in the control cabinet with mounting rail housing (TS35)

Highlights/features:

- Connecting element from MultiControl II to master control system
- Bidirectional communication between controller and master control system via 16 digital inputs and outputs
- Storing and moving to up to 7 memory positions
- Starting up the initialisation sequence
- Adjustable travel speed
- Enables resetting of errors
- Feedback to master control system (e.g. movement active, position reached, error status etc.)
- Encoder simulation A/B delivers a signal which simulates a 2-channel encoder and represents the position of motor 1.

Standard functions mean quicker and simpler programming.
- **Standard functions of the digital inputs:**
 - ✓ Status indication
 - ✓ Initialisation complete
 - ✓ Memory position reached
 - ✓ Movement active
 - ✓ Retracted status
 - ✓ Encoder simulation

Option:

- Special functions available on request
- Quick and easy storage and moving to memory positions using hand switch with 6 function keys

I/O - Interface – Table of contents

| | |
|--------------------|--|
| Versions | <ul style="list-style-type: none">■ I/O - Interface..... Page 74 |
| Accessories | <ul style="list-style-type: none">■ Hand switch..... Page 79■ Hand switch drawer..... Page 79 |

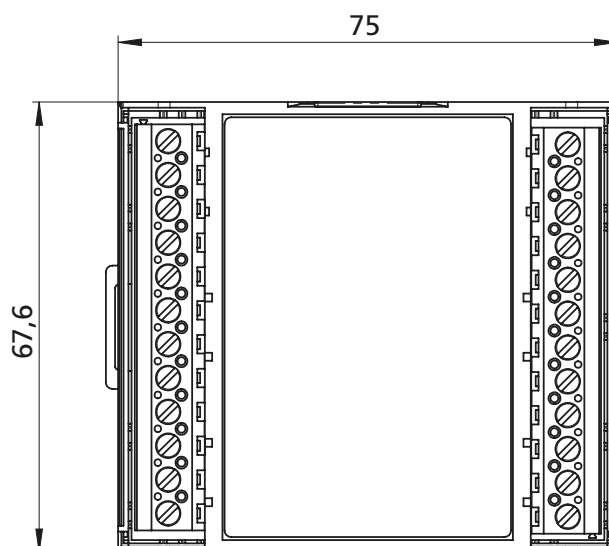
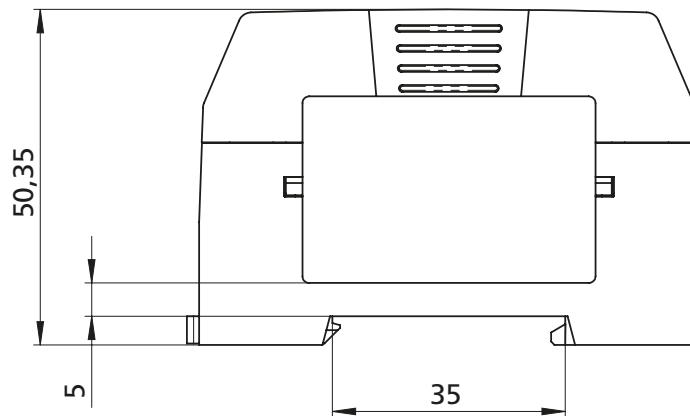
General information/operating conditions

| | |
|--|--|
| 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 |

| Input | Standard function |
|-----------------------------------|--|
| Input voltage (input 1 - input 8) | High: 5 VDC – 30 VDC Low: 0 VDC – 2 VDC |
| Input impedance | 10 k Ohm |
| 1 | UP |
| 2 | DOWN |
| 3 | Action enabled from 3-bit mask (input 4 – 6) |
| 4, 5, 6 | 3 bit mask for memory position |
| 7 | Speed (s / l) |
| 8 | Reset error |

| Output | Standard function | Logic level |
|--------------------------------------|--|-------------|
| Output voltage level O1 – O 8 | High: as voltage on terminal 23 Low: GND | – |
| RS485 A/B | A/B | – |
| Power supply for the digital outputs | + Digital output: 10 – 30 VDC, max. 4 A GND | – |
| 1 | Error status | High active |
| 2 | Initialised | High active |
| 3 | Position reached | High active |
| 4 | Movement active | High active |
| 5 | N/A | – |
| 6 | Zero position | Low active |
| 7 | Encoder simulation A | High/Low |
| 8 | Encoder simulation B | High/Low |

I/O - Interface



I/O - Interface – Versions

I/O - Interface

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.

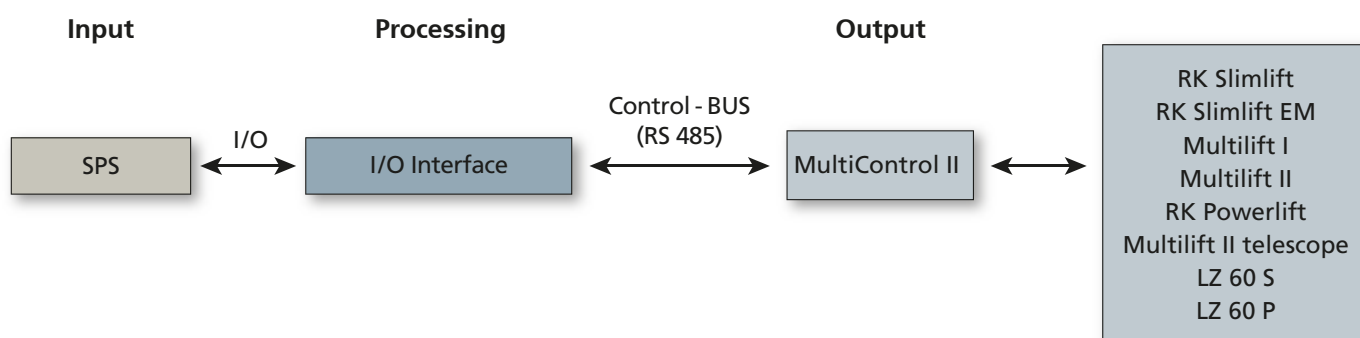
A lifting column for userfriendly setting up, for instance, can be operated using a hand switch. The ongoing production process is then controlled by PLC.



Scope of delivery:
Data interface with housing,
Connecting cable to control
(4 Meter), Documentation



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



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.

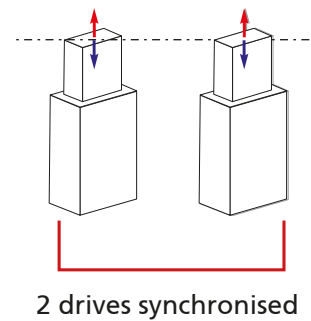
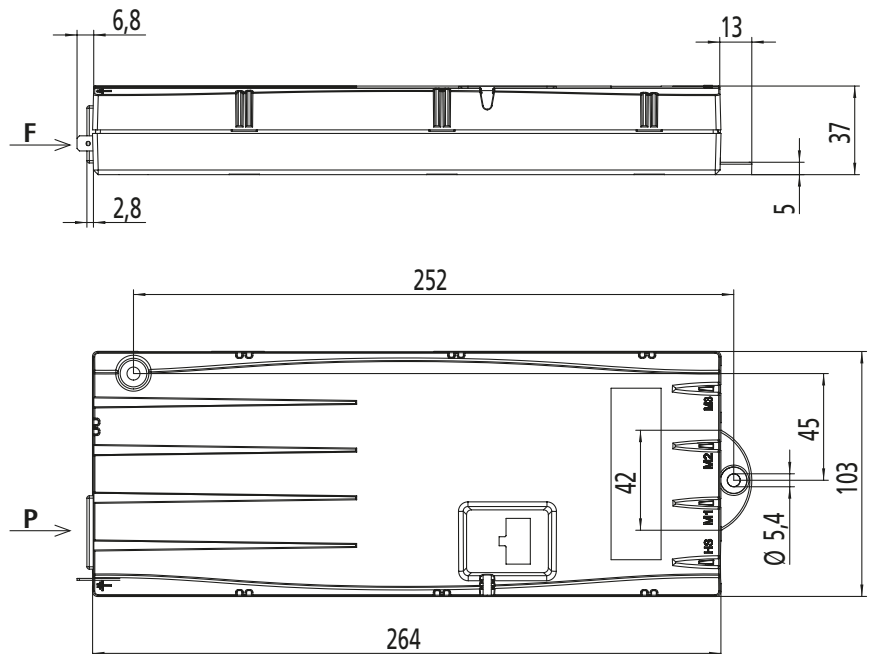
It is important to mention that the hand switch with 6 function keys simplifies the saving of memory positions considerably. It can be used to save and assume memory positions.

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



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-MDF-4M2



TOUCHbasic UD



TOUCH UD

| Code No. | Vesion | Description / information | Additional functions (see page 78) | Cable length | Fig. |
|---------------|---------------|----------------------------------|------------------------------------|--------------|------|
| QZB30E07BR126 | HSU-MDF-4M2 | Up to 4 memory positions/Display | • | 1.90 m | 1 |
| QZB30E07BN126 | TOUCHbasic UD | 2 Up-/Down function | | 1.80 m | 2 |
| QZB30E07BP126 | TOUCH UD | Up to 4 memory positions/Display | • | 2.00 m | 3 |

Features:

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“
- Key Lock

TOUCH UD (retractable)



- Mounting under table top
- Ultra-flat design

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More Information
Multilift II product line