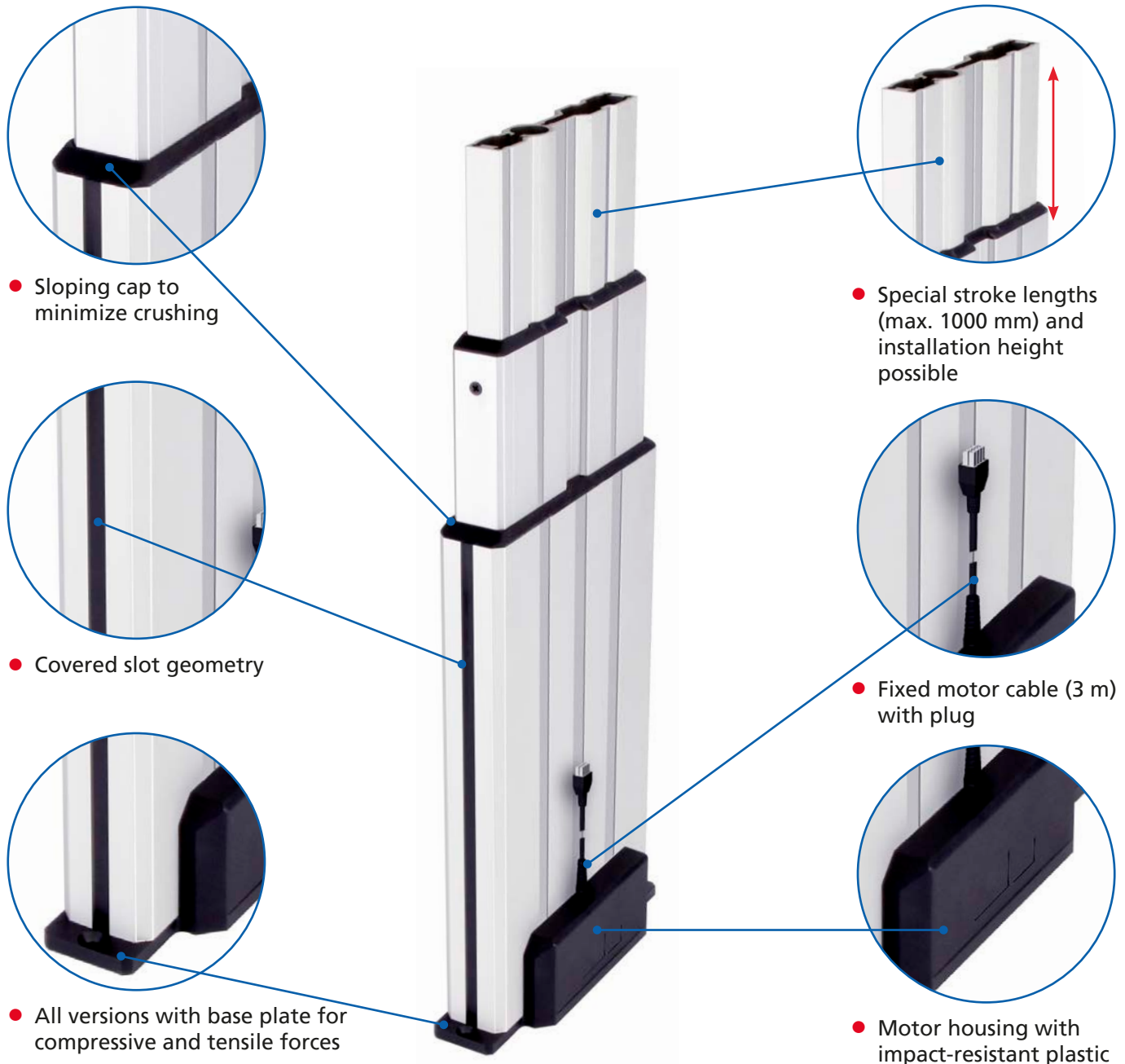


Multilift II telescope



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
- Can also be used cable free for mobile adjustment tasks with MultiControl II duo accu

Table of contents

Versions	Lifting columns	Multilift II telescope.....	Page 94
		Multilift II telescope ESD.....	Page 96
Accessories	Fixing	RK SyncFlex.....	Page 100
		Assembly plates.....	Page 101
		Support struts.....	Page 101
		Foot versions.....	Page 102

Technical data

General information/operating conditions

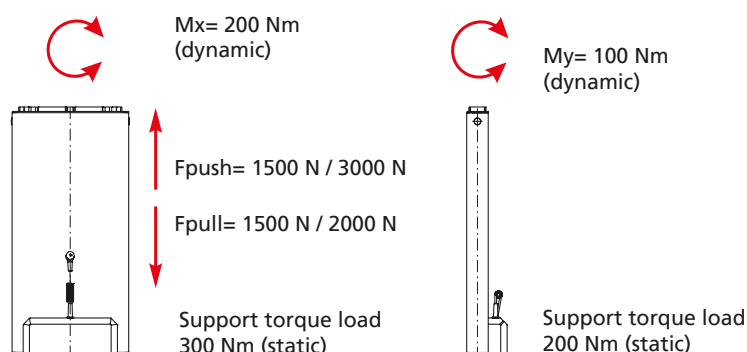
Type	Multilift II telescope	Multilift II telescope ESD	Custom
Design	Slim lifting column		
Guide	POM slide bearings		
Installation position	Any position / hanging only with drop protection provided by the customer		
Push force	3000 N or 1000 N		
Pull force	2000 N or 1000 N		
Self-locking	Yes		
Max. travel 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 (in connection with the assembly plate)		
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:

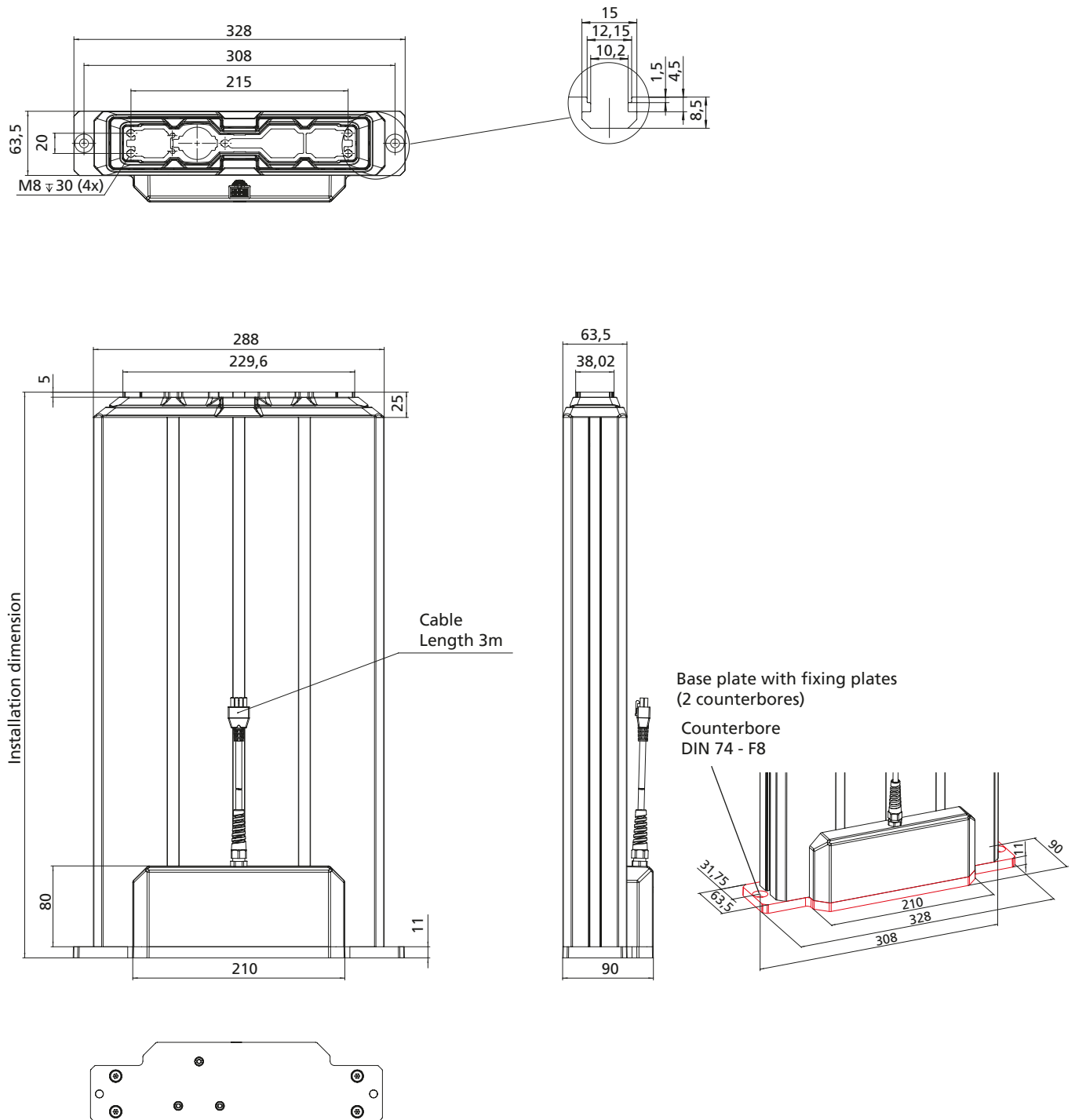
If more than 2 drives are to be operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controllers is required.

The necessary accessories can be found on page 172.

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



Multilift II telescope

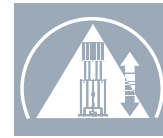


The fixing slots on the side allow an easy attachment of accessories. For example, a screen, CPU bracket or system reinforcements can be fixed to the lifting columns by using slot stones. The 30 slot geometry is also compatible with the RK BLOCAN® aluminium profile system.

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)

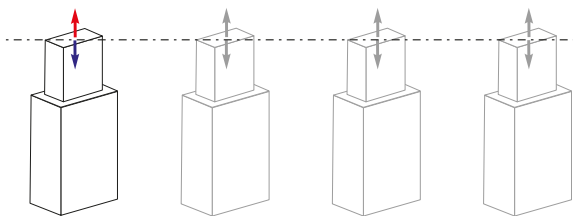
Ideal area of application:

- 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 156) and MultiControl II quadro (see page 164).

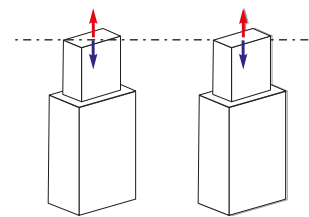


Features:

- 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 200)



Features:

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

Scope of delivery::

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

Individual components:

Lifting column Multilift II telescope



Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation dimension [mm]	Weight [kg]
TM13B-1C3C22CA0650	Multilift II telescope	3000 / 1500 (med.)	2000 / 500 (med.)	8	650	560	15.0
TM13B-1C2C22CA0650	Multilift II telescope	1000 / 1000 (med.)	1000 / 500 (med.)	16	650	560	15.0

System components

Code No.	Accessories	
Controls		
QST12H12AA000	MultiControl II duo - Basic	Multilift II telescope
QST12H12AA022	MultiControl II duo - Premium	
QST12H14AA000	MultiControl II quadro - Basic	Multilift II telescope
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 152

Set:

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

Order instruction:

Please select mains cable and hand switch separately (see page 201)

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

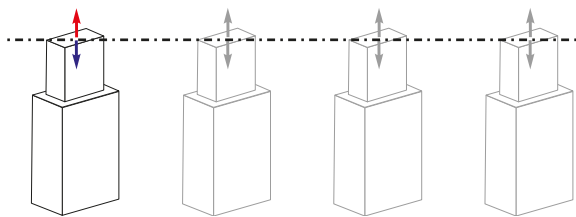
Ideal area of application:

- 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 156) and MultiControl II quadro (see page 164).



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]
TM13B- 1C3C22CC0650	Multilift II telescope ESD	3000 / 1500 (med.)	2,000 / 500 (med.)	8	650	560	15.0
TM13B- 1C2C22CC0650	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 152

Accessories

RK SyncFlex H

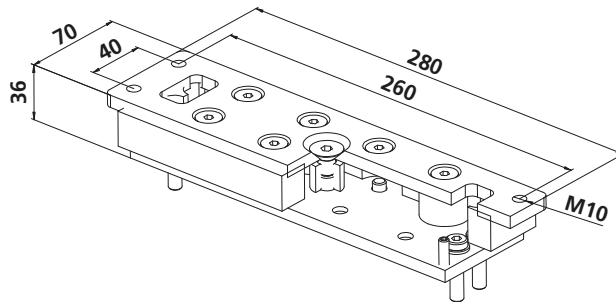
Scope of delivery:
Adjuster plate, incl. fixing material



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

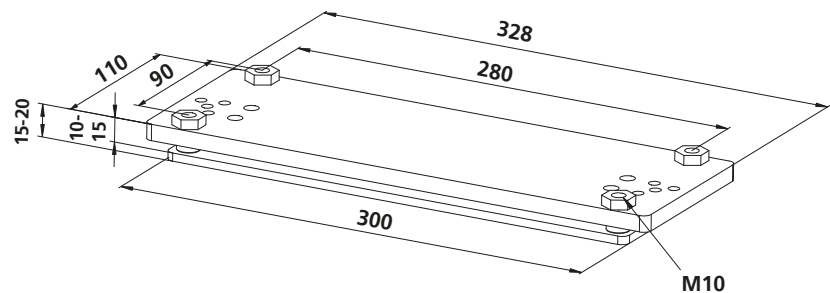


Vertical alignment

- 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 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 101)

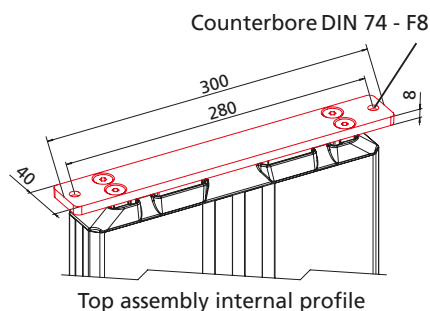
Assembly plates

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

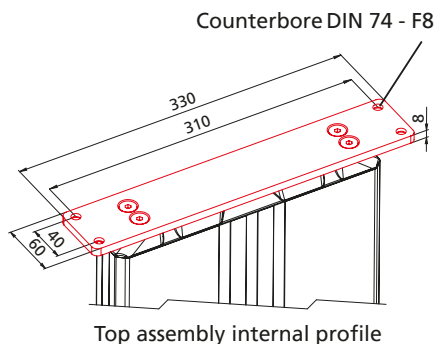
Material:

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

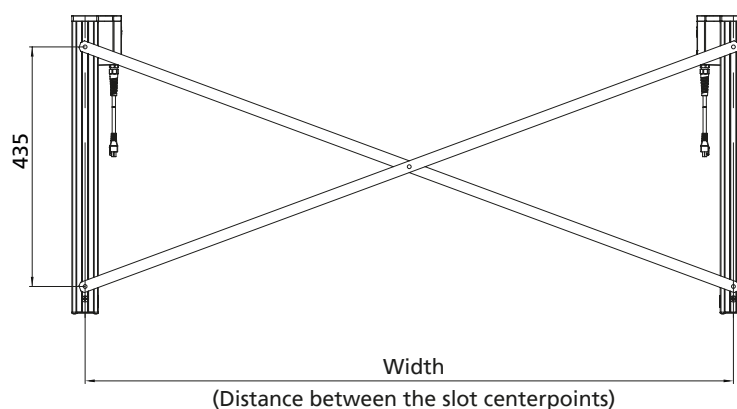
- For stabilisation of column structures.
- Available for all Multilift II / Multilift II telescope variants.

Material:

Aluminium not anodized

Scope of delivery:

Two support struts including fastenings

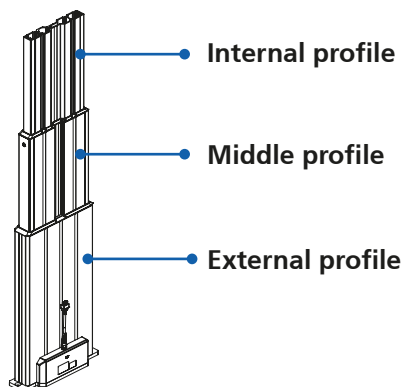


Code No.	Type	Width (min.)	Width (max.)	Multilift II telescope	
				Internal profile	External profile
QZD020734	Support struts Multilift II product line	750 mm	2000 mm		•

Distance between the slot centerpoints [mm]

Accessories

Foot versions



- Different foot versions for the Multilift
- No modifications of the Multilift required
- Other lengths available upon request

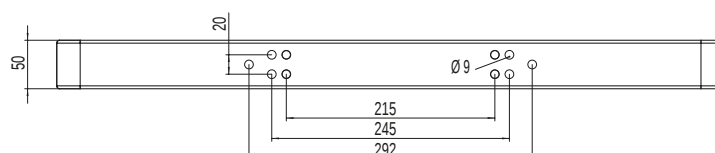
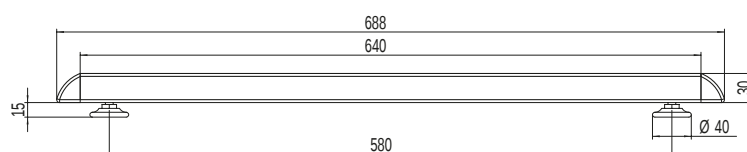
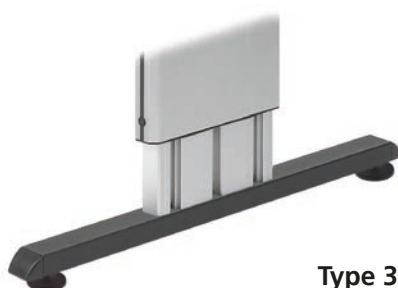
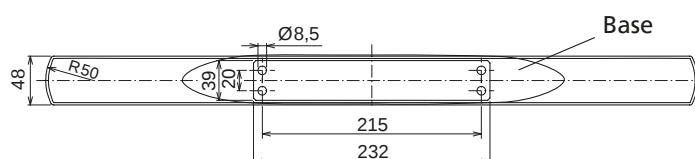
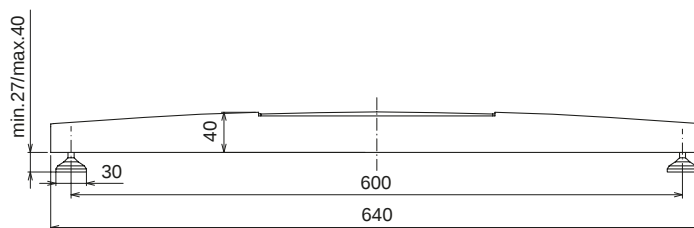
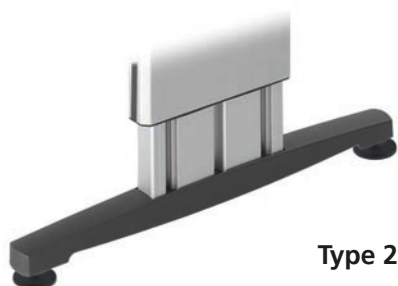
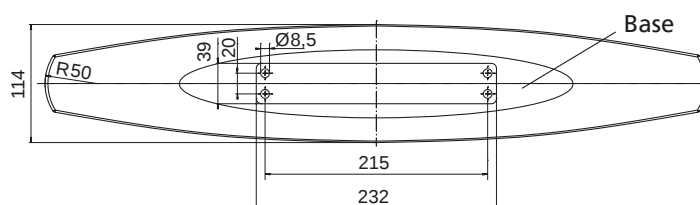
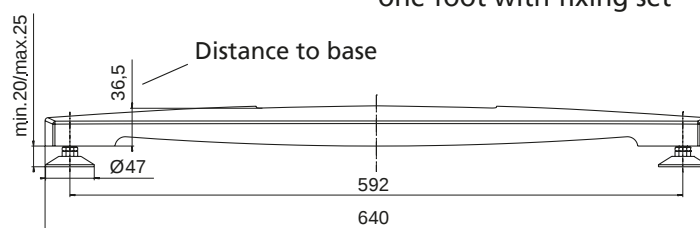
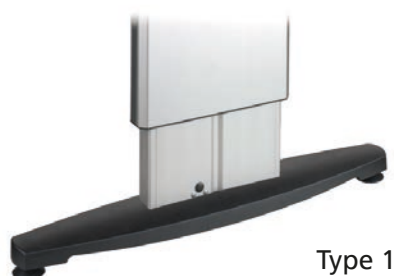
Material:

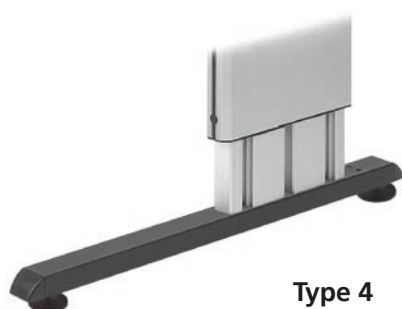
Type 1/2 GK-ALSi12/3.2583.02, black powder-coated

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

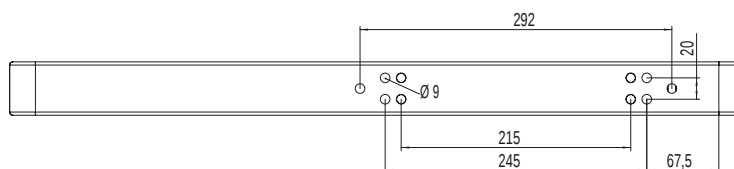
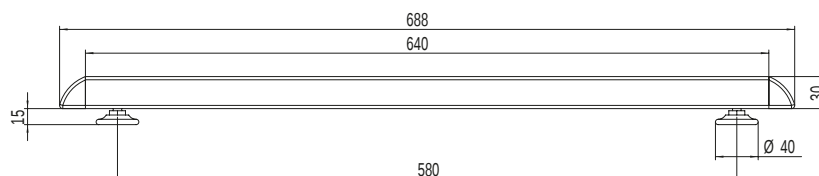
Scope of delivery:

one foot with fixing set

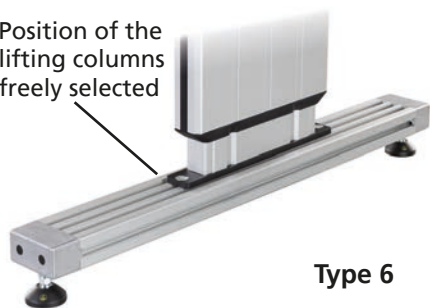




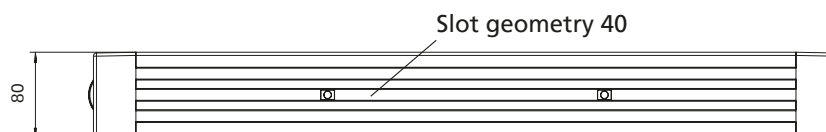
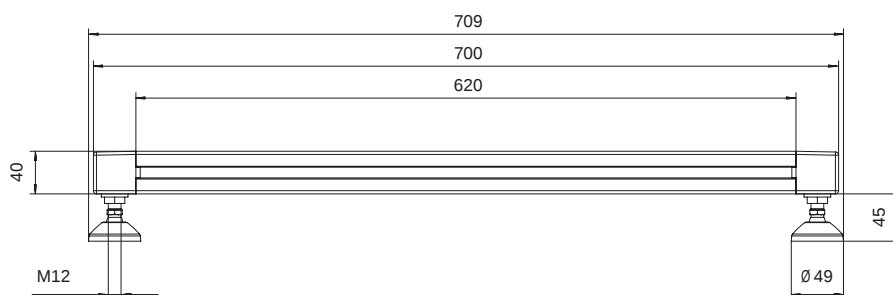
Type 4



Position of the
lifting columns
freely selected



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 101)

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	●			
QZD0207950700	6	3000 N	●*	●	●	●

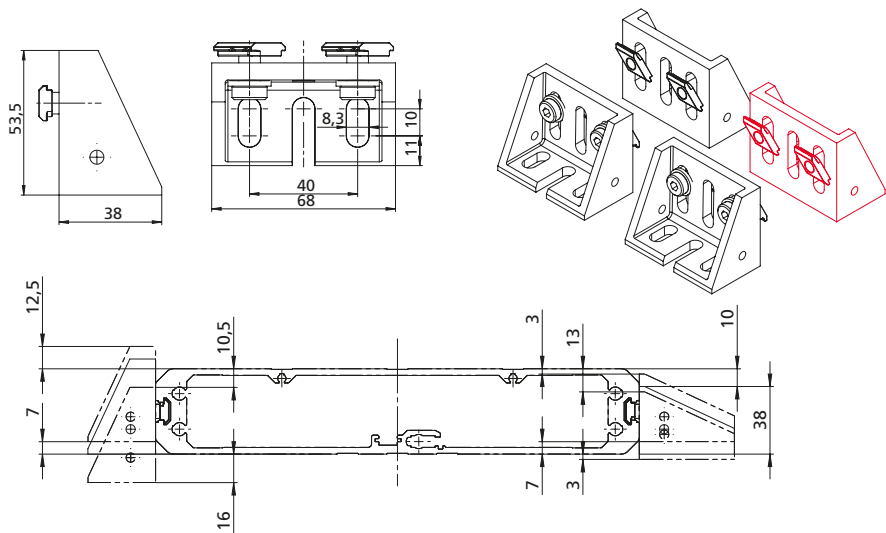
Accessories

Mounting bracket
for Multilift II



- The mounting brackets are used to to fix the lifting column horizontally or vertically 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		●



VIDEO
How it works
Cabinet installation