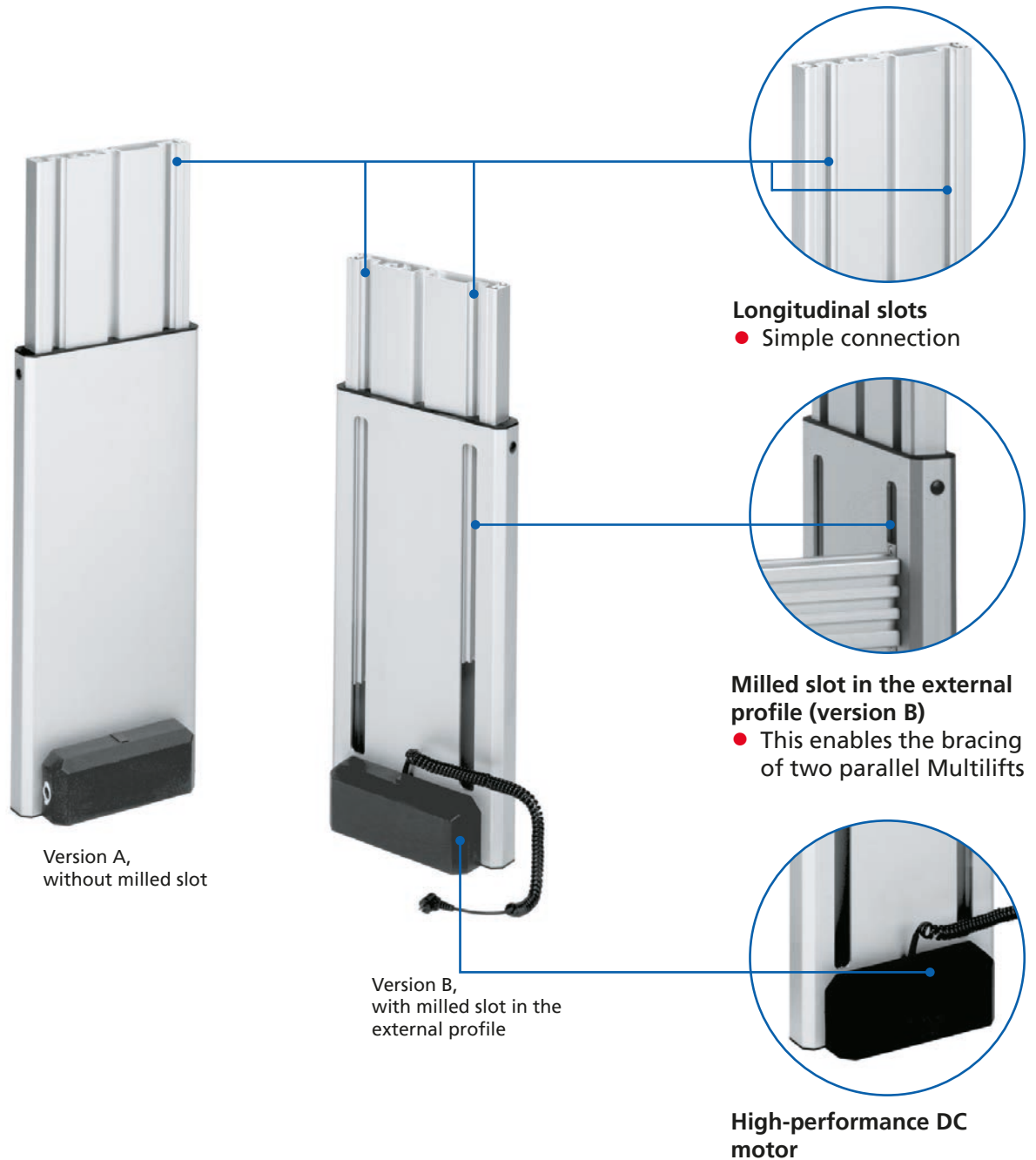




Slimline design and an unbeatable price/performance ratio



Highlights / Features:

- Quadruple bearings with POM slide bearing shells
- High-performance DC motor
- Integrated limit switches
- Self-locking, even under max. load

Options:

- Special stroke lengths
- Quadro control enables control of up to 32 columns synchron
- Tested to EN 60601-1 (3E)

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Accessories	Fixing	Adaptor bar	Page 40
		Assembly plate	Page 42
		RK SyncFlex	Page 43
		Foot	Page 44

Technical data

General information/operating conditions

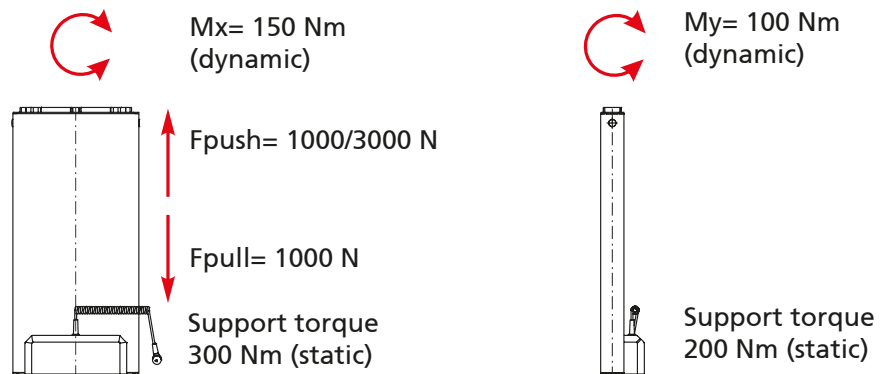
Type	Multilift	Custom
Design	Slim lifting column	
Guide	POM slide bearings	
Installation position	Any position / suspended with drop protection provided by the customer	
Push force*	3000 N or 1000 N	
Pull force*	1000 N (only in conjunction with factory-mounted base plate)	
Self-locking	Yes	
Max. travel speed	6 mm/s or 13 mm/s	
Max. stroke	498 mm	1200 mm
Installation dimension	Stroke + 206 mm (incl. base plate)	1600 mm
Voltage	24 V DC	
Current output	3 A or 4 A	
Protection class	IP 20 (in connection with the assembly plate)	
Ambient temperature	+5°C to +40°C	
Displacement during synchronous operation	0 to 4 mm	
Duty cycle	At nominal load, 10% (max. 2 mins 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 2000 N must not be exceeded.

Load data



Drive	Push force [N]	Travel speed [mm/s]	Number of assigned motor channels			
			1	2	3	4
Multilift	1000	13	✓	✓	✓	je 750 N
Multilift	3000	6	✓	✓	each 2200 N	each 1500 N

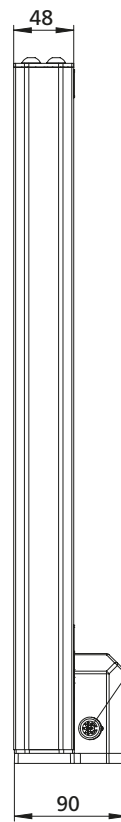
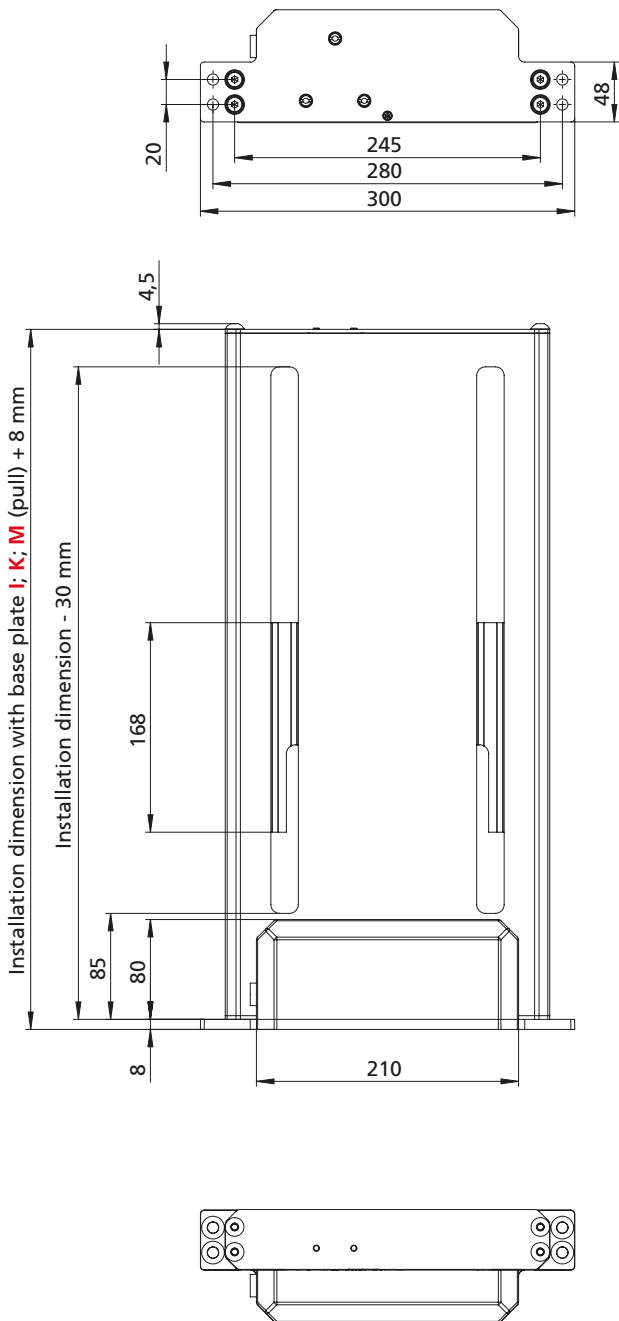
Note:

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.





Versions

Multilift

The Multilift is used for continuously variable height adjustment of tables, assembly workstations and equipment etc. The lifting column can be operated individually or in synchronously as a pair. With lifting forces of up to 3000 N and a maximum stroke of 498 mm in the standard range, this lifting column is suitable for a wide range of applications. A version of the Multilift with milled slots in the inner profile is also available. They can be used, for instance, for connecting accessories and for stabilising table attachments.



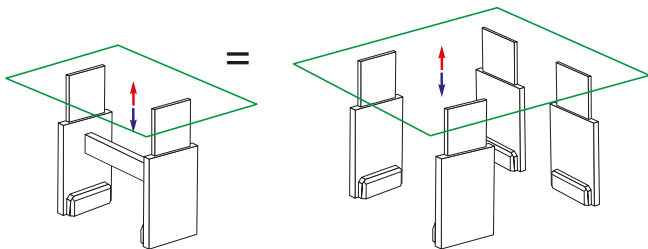
Special features:

- High-performance DC motor
- Integrated limit switches
- Self-locking, even under max. load
- Special stroke lengths available on request

Ideal areas of application:

- Workplace ergonomics
- Industrial technology
- Media technology

Multilift Synchro



2-4 Multilifts in synchronous operation

Synchronous operation

Synchronous operation of two or more columns. In conjunction with the integrated sensors, the control (see page 156) ensures synchronisation, and thus constant alignment of all the columns in both directions of travel, even if subject to different loads. The synchronous operation tolerance depends on the lifting speed and is max 2 mm on the 6 mm/s version and max 4 mm on the 13 mm/s version. A memory function is also available.



Universal Table Ironing Machine

Version A
without milled slot in
the external profile



Version B
with milled slot in
the external profile

**Note:**

A separate adapter cable is required to use the Multilift on the MultiControl II. This can be found on 173

Code No.	Type	max. push force [N]	max. pull force [N]	max. lifting speed [mm/s]	Total travel [mm]	Installation dimension incl. base plate [mm]	Weight [kg]
QAB13_G0_0355	Multilift 350	3000 / 2000 (med.)	1000 / 500 (med.)	6	355	558	10.1
QAB13_G0_0400	Multilift 400				400	603	11.0
QAB13_G0_0450	Multilift 450				452	658	11.8
QAB13_G0_0500	Multilift 500				498	703	12.5
QAB26_G0_0355	Multilift 350 s	1000 / 1000 (med.)	1000 / 500 (med.)	13	355	558	10.1
QAB26_G0_0400	Multilift 400 s				400	603	11.0
QAB26_G0_0450	Multilift 450 s				452	658	11.8
QAB26_G0_0500	Multilift 500 s				498	703	12.5

Version:

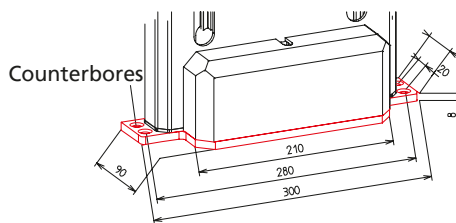
- 3 = B (with milled slot in the external profile)
4 = A (without milled slot in the external profile)

Base plate (For dimensions, see below):

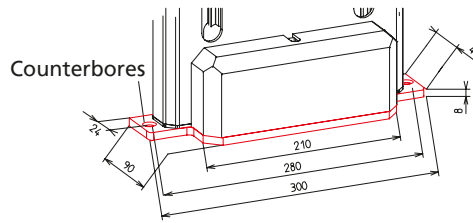
- I** = with external fixing plates
4 counterbores
K = with external fixing plates
2 counterbores
M = base plate flush

Dimension base plate

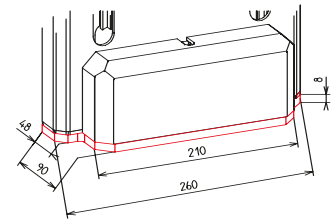
Base plate (**I**) with
fixing plates
(4 counterbores)



Base plate (**K**) with
fixing plates
(2 counterbores)



Base plate (**M**)
flush

**System components**

Code No.	Accessories	
Controls		
QST10H12AA000	MultiControl II duo - Basic	Multilift
QST10H14AA000	MultiControl II quadro - Basic	
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)	

Code No.	Length [mm]	Adapter cable
QZD020722	200	Adapter cable Multilift I on MultiControl II 0,2 m
QZD020711	2500	Connecting cable Multilift I on MultiControl II 2,5 m



Note: Further accessories (hand switches, connecting cables etc.) can be found in the chapter „Controls and accessories“ starting on page 152

Multilift

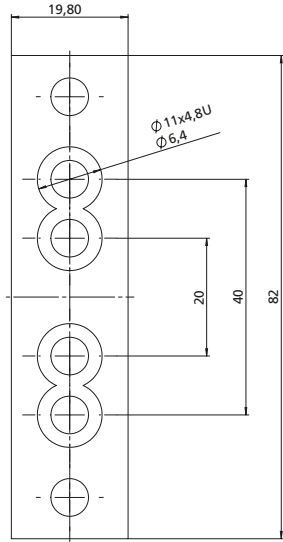
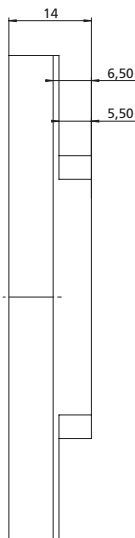
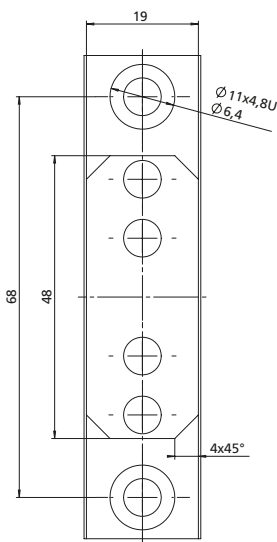
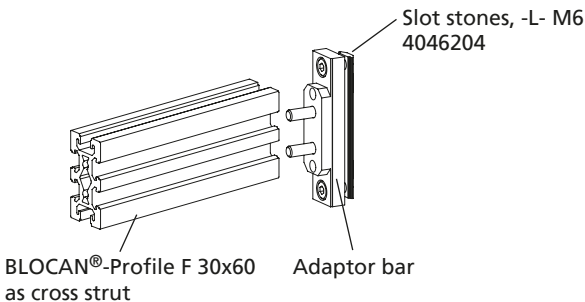
Accessories

Adaptor bar

- Cross struts from the BLOCAN® Profile Assembly System are used to increase the stability of two version B Multilifts (see page 34). 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



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



Fixing

Multilift assembly plates / compression plate

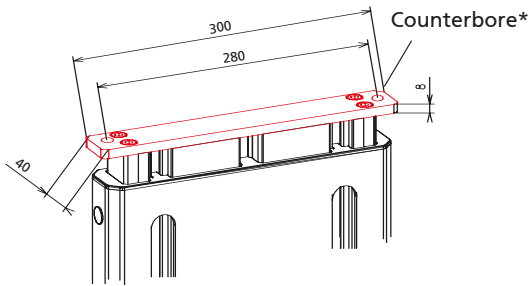
Material: Die-cast, black powder-coated zinc plated fixing set

Scope of delivery: 1x assembly or thrust compression plate fixing set

Note:

The "top" assembly plates listed here and the thrust compression plate are only suitable for push loads. For applications involving pull force and in synchronised groups, a base plate – factory-mounted on the Multilift – must be used.

You will find further information in the operating manual



Top assembly plate

* DIN 74 - F8

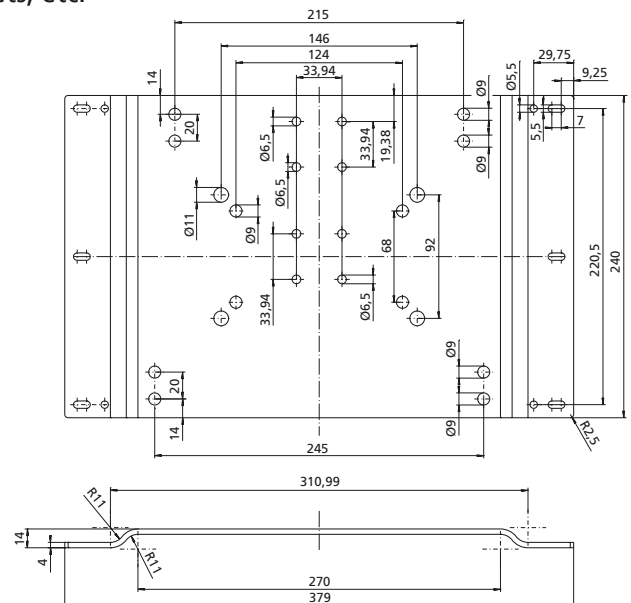
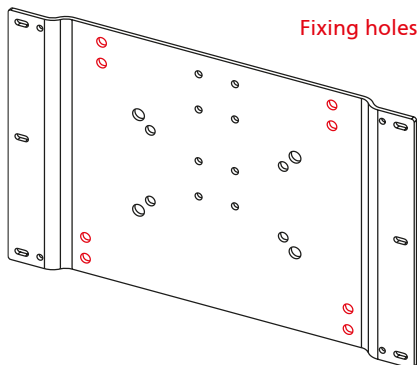
Code No.	Version	Multilift	
		Internal profile	External profile
QZD020549	Top assembly plate	•	

Fixing plate



- This universal plate can be bolted directly into the screw channel of the lifting column using a fixing set. The numerous pre-drilled holes in the metal make it easy to attach table tops, brackets, etc.

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



Code No.	Version	Multilift	
		Internal profile	External profile
QZD100313	Fixing plate	•	
QZD120336	Fixing set, 4x M6 x 14, DIN 7984		

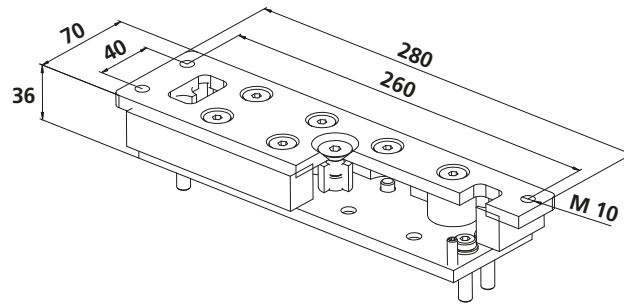
RK SyncFlex H

Scope of delivery:
Adjuster plate, incl. fixing material

Horizontal alignment

- To prevent locked-up stress in mechanically overdefined bearing systems (more than one fixed bearing) around the horizontal axis.
With RK SyncFlex H defined loose bearings supplement the application.

- The horizontal compensation in the Z-axis enables the freedom of movement required when moving the lifting columns.



[mm]

Code No.	Type	Max. load	Multilift	
			Internal profile	External profile
QZD020471	Multilift	3000 N	•	

RK SyncFlex V

Scope of delivery:
Adjuster plate, incl. fixing material

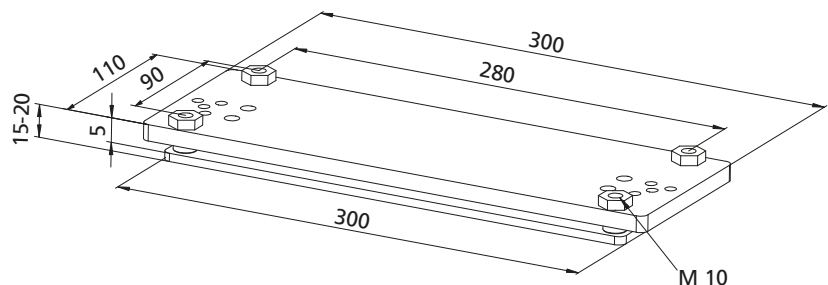
Option:
Optionally available with or without pressure plate (see table)

Vertical alignment

- If the lifting columns are not parallel, the distance between the two upper fixing points will change during the movement. However, a rigid connection keeps this distance constant, and this means that the lifting columns are subject to very strong forces.

RK SyncFlex V enables the compensation of unevenness in the mounting environment.

- The lifting columns can be aligned via the vertical adjustment around the X-Y axes.



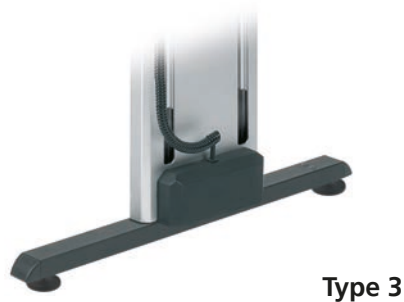
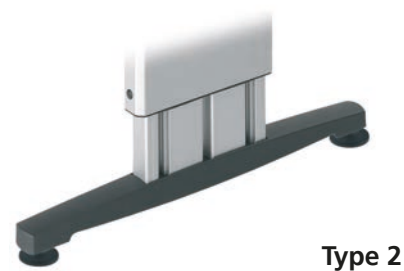
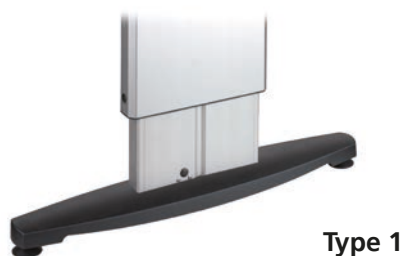
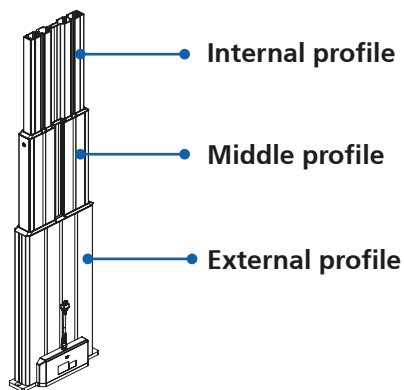
[mm]

Code No.	Type	Max. load	Multilift	
			Internal profile	External profile
Without pressure plate				
QZD020472	Multilift	3000 N	● *	●
With pressure plate				
QZD020462	Multilift	3000 N		

• * = in connection with the assembly plate (page 42)

Accessories

Foot



Multilift centrally mounted (choice of internal or external profile)

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

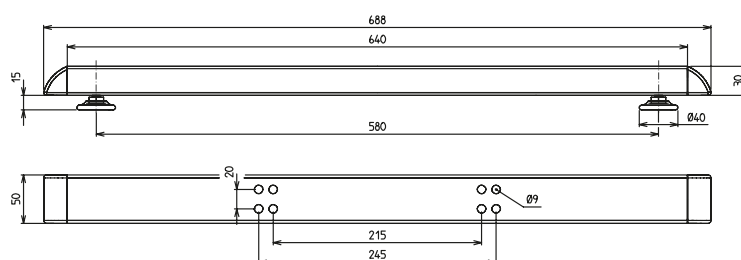
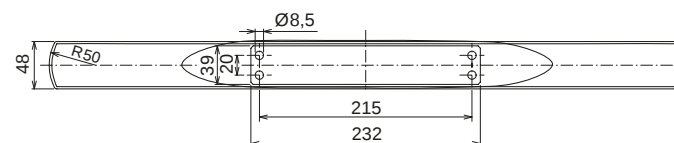
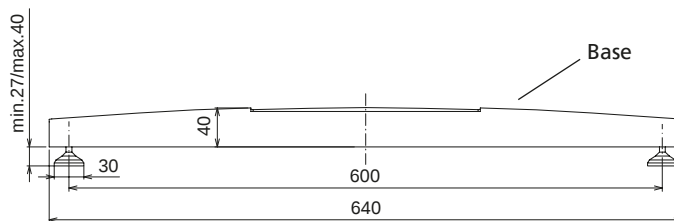
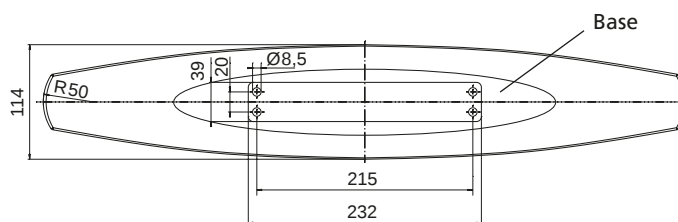
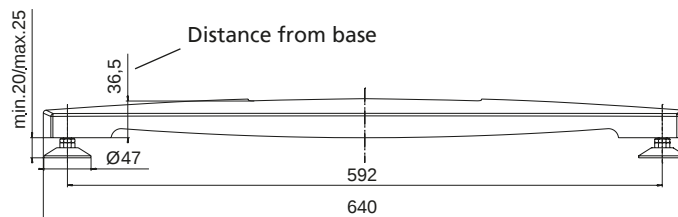
Material:

Type 1/2/5 GK-ALSi12/3.2583.02, black powder-coating

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

Scope of delivery:

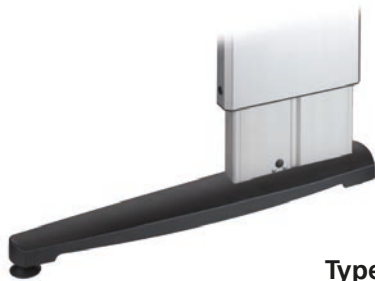
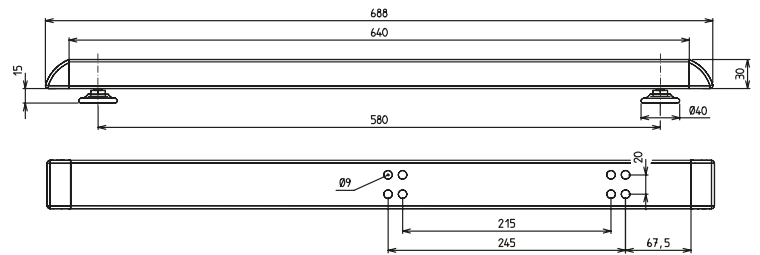
one foot with fixing set



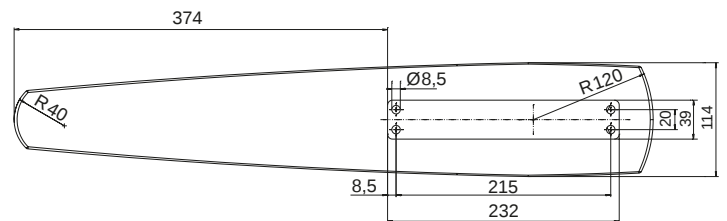
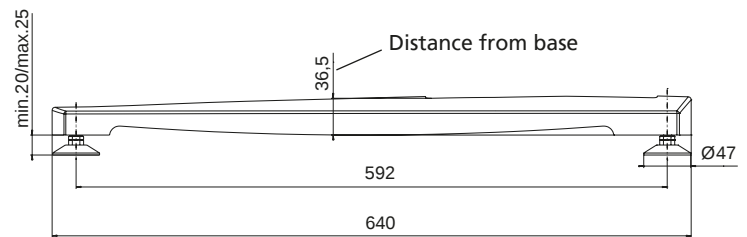
Multilift mounted off-centre (choice of internal or external profile)



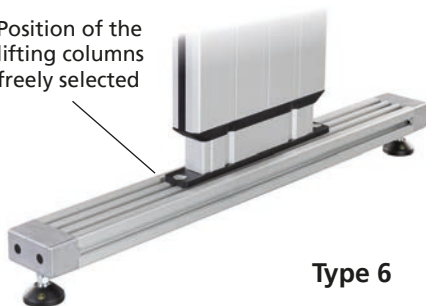
Type 4



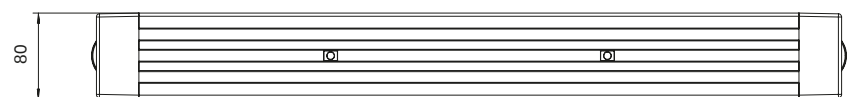
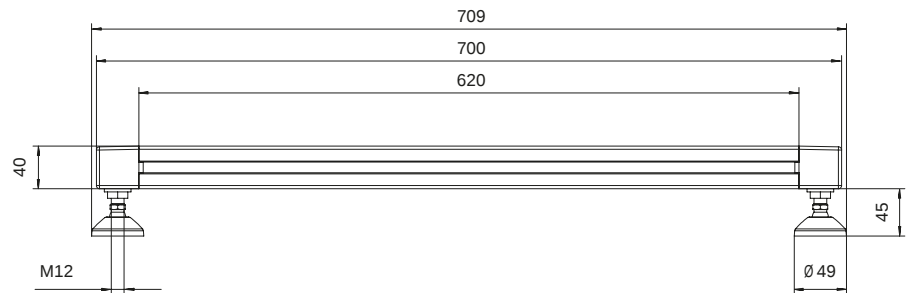
Type 5



Position of the lifting columns freely selected



Type 6



Code No.	Type	max. load	Multilift	
			Internal profile	External profile
QZD020252	1	1000 N	●	
QZD020253	2	1000 N	●	
QZD020254	3	1000 N	●	●
QZD020255	4	1000 N	●	●
QZD020343	5	1000 N	●	
QZD0207950700	6	3000 N	●	●