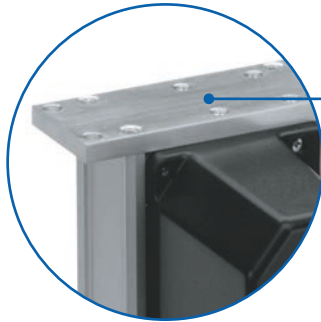


Multi-stage lifting columns

Powerful drive for height lifting forces

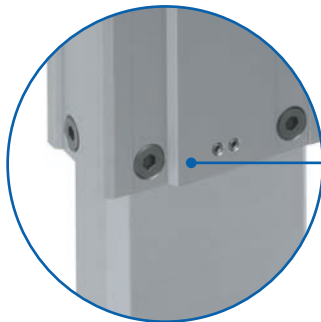


Connecting plate

- Simple connection/fixing



- For optimal integration in industry



Adjustable sliding elements

- For height adjustment with zero backlash for the total lifetime



Highlights / Features:

- High lifting force
- Can be installed in any position
- Guides set to minimum play
- Integrated limit switches
- Self-locking, even at max. load
- External control

Options:

- Other stroke lengths and installation heights on request
- Integrated potentiometer
- Optionally as 2000 N version with 20 mm/s
- Other forces and speeds available on request
- Can also be used wirelessly for mobile movement applications via MultiControl II duo accu



Table of contents

Versions	Lifting column	Lambda Colonne Page 118
Accessories	Fixing	RK Syncflex Page 120

Technical data

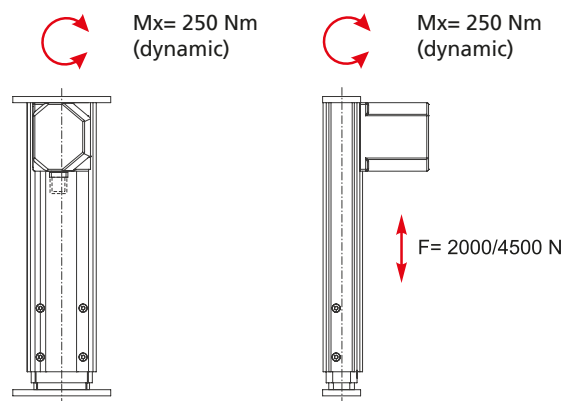
General information / operating conditions

Type	LAMBDA Colonne	Custom
Design	Rod-shaped lifting column	
Guide	Slide guides made of POM	
Installation position	Any position / Overhead mounting excluded!	
Push force	4500 N	
Pull force	4500 N	
Self-locking	Yes	
Max. travel speed	5 mm/s	
Max. stroke	600 mm	
Installation dimension	Stroke + 110 mm	
Voltage	36 V DC	
Current output	9 A	
Protection class	IP 40 (IP 54)	
Ambient temperature	-20°C to +60°C	
Displacement during synchronous operation	0 to 4 mm	
Duty cycle (Operation mode S3)	At nominal load 10% (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.

Load data

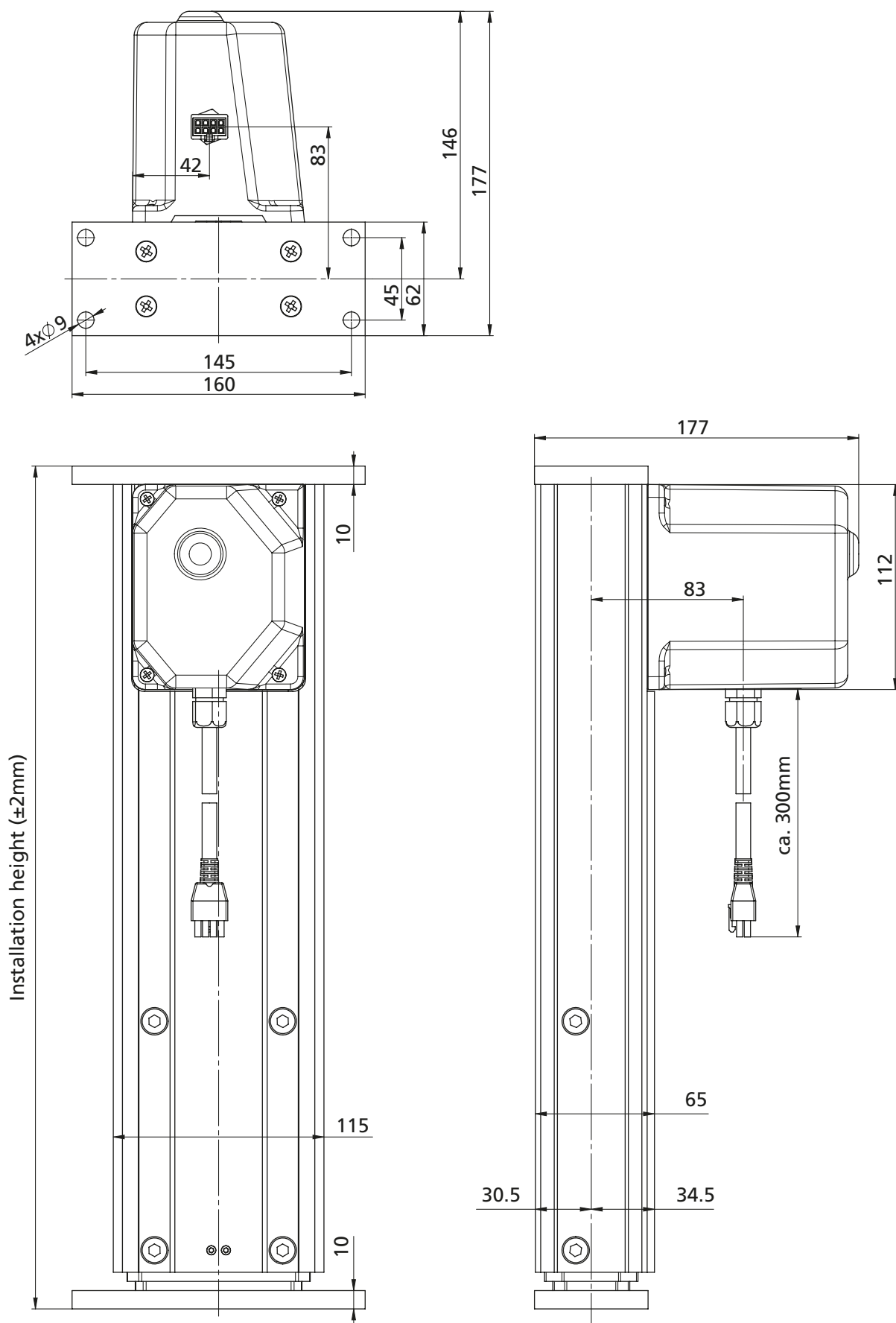


Drive	Push force [N]	Travel speed [mm/s]	Number of assigned motor channels			
			1	2	3	4
Lambda Colonne	4500	8	✓	–	–	–
			MultiControl II duo		MultiControl II quadro	

Note:

The performance level of the drive means that two motor channels of the MultiControl II synchronous controls are required per drive. A suitable Y cable is included with the control, and does not have to be purchased separately.

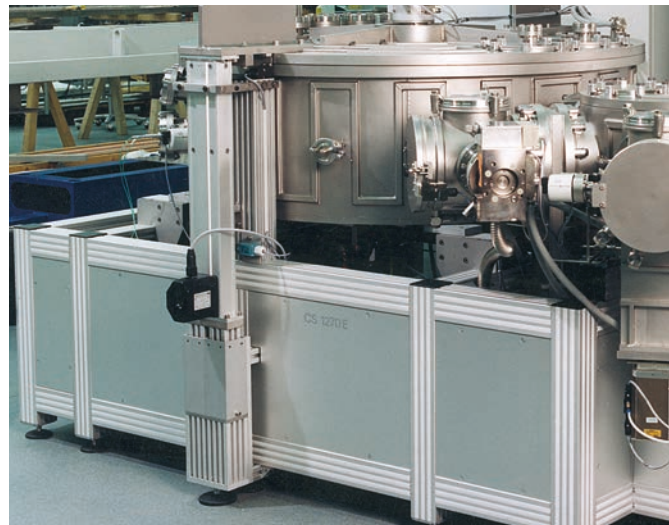




Versions

LAMBDA Colonne – Powerful drive for height lifting forces

The LAMBDA Colonne lifting column is a telescopic drive that can be used in a wide range of lifting and lowering applications, either individually or in pairs. It can be operated with a compressive force of 4500 N and a maximum stroke of 600 mm.



Special features:

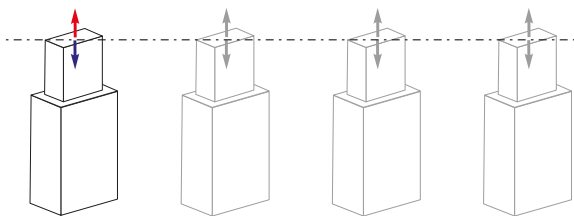
- High lifting force
- Can be installed in any position

Ideal areas of application:

- Especially sitting and standing assembly workstations for production
- LEAN workstations

Lifting column and control as a single component:

LAMBDA Colonne exclusively in combination with MultiControl II duo (see page 156)



Features:

- Supports configuration of systems with up to 8 drives via BUS communication
- Wide-range input
- High duty cycle
- Simple connection to master control system
- Intuitive operation

Important:

If more than 1 drive are operated synchronously at nominal load, BUS communication between two or more MultiControl II duo controls 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.

Individual components:

Lifting column LAMBDA Colonne

Code No.	Type	Max. compressive force [N]	Max. tensile force [N]	Max. lifting speed [mm/s]	Total travel [mm]	Installation dimension [mm]	Weight [kg]
QKL10BBIC0200	LAMBDA Colonne	4500	4500	8	200	410	5.2
QKL10BBIC0300					300	460	5.6
QKL10BBIC0400					400	510	6
QKL10BBIC0500					500	610	7
QKL10BBIC0600					600	710	8

Cable for connecting LAMBDA and LAMBDA Colonne to MultiControl II duo



Code No.		Interface	Fig.
QZD070749	Extension cable for drives to MultiControl II – 3 m straight	Motor connector	1

System components

Code No.	Accessories	
Controls		
QST81H12AA000	MultiControl II duo - Basic	LAMBDA Colonne
QST81H12AA022	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.) can be found in the chapter „Controls and accessories“ starting on page 172. The LAMBDA drives require a Y cable, which is included in the controls.

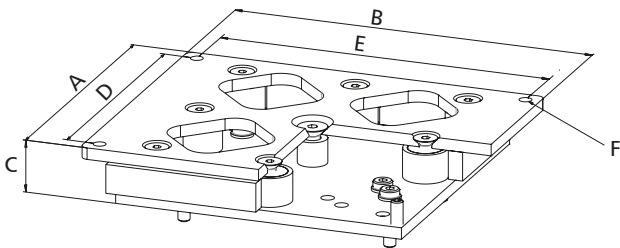
Fastening

RK SyncFlex H

Horizontal alignment

- To prevent distortions around the horizontal axis in over-determined systems (more than one fixed bearing). RK SyncFlex H incorporates defined floating bearings in the application.
- Horizontal compensation in the Z-axis enables the freedom of movement required when moving the lifting columns.

Scope of delivery:
Adjuster plate,
incl. fixing material



[mm]

Code No.	Type	A	B	C	D	E	F
QZD130731	LAMBDA Colonne	70	220	36	40	200	M 10

RK SyncFlex V

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 compensation of any unevenness in the mounting environment.

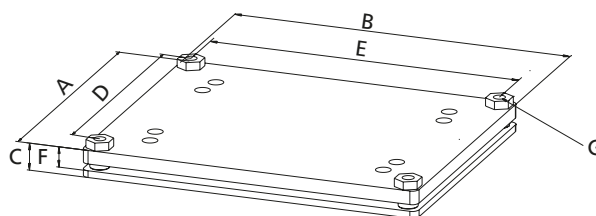
- The lifting columns can be aligned via vertical adjustment around the X-Y axes.

Scope of delivery:

Adjuster plate,
incl. fixing material

Option:

Available with or without pressure plate (see table)



[mm]

Code No.	Type	A	B	C	D	E	F	G
Without pressure plate								
QZD130732	LAMBDA Colonne	70	220	-	50	200	10-15	M 10
With pressure plate								
QZD130733	LAMBDA Colonne	70	220	15-20	50	200	10-15	M 10