

**R** RENOWNED  
KNOW-HOW  
Automation Technology

**RK ROSE+KRIEGER**  
A Phoenix Mecano Company

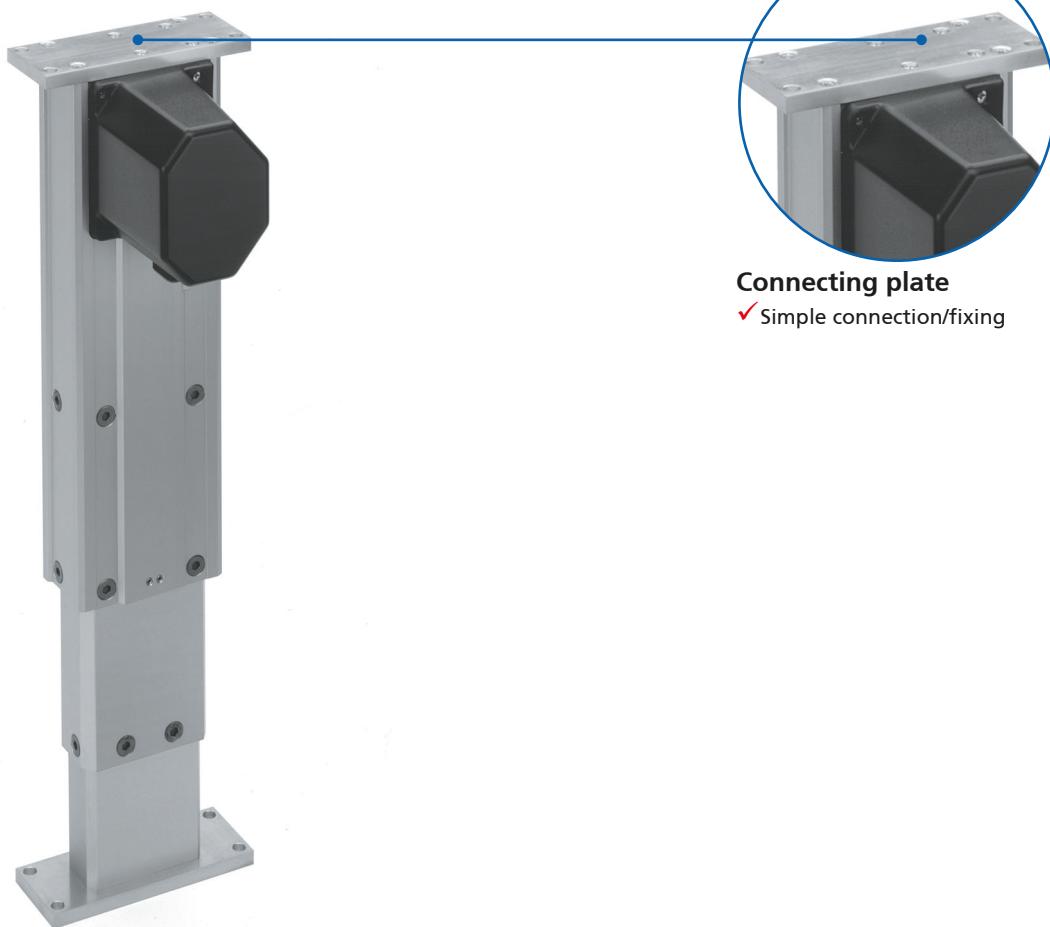


# LAMBDA Colonne

Multi-stage lifting columns

# Multi-stage lifting columns - LAMBDA Colonne

Powerful drive for height lifting forces



**Connecting plate**

✓ Simple connection/fixing

## Features:

- High lifting force
- Can be installed in any position
- Guides set to minimum play
- Integrated limit switches
- Self-locking, even at max. load
- With thermal motor protection
- Supports mono and synchronous applications

## Options:

- Special stroke lengths
- Longer duty cycle
- Integrated potentiometer for synchron operation

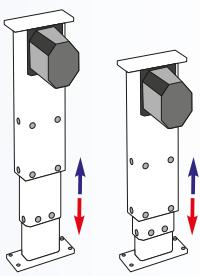
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# LAMBDA Colonne – Technical data

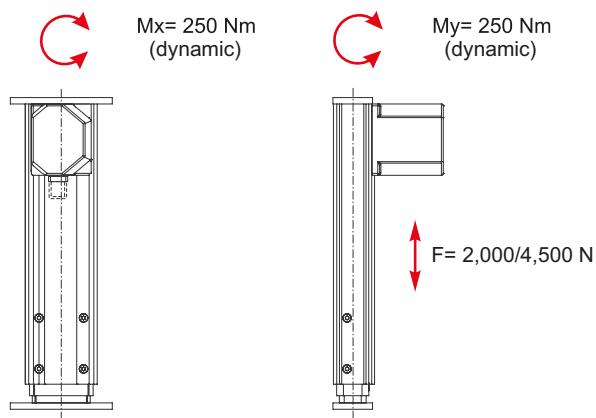
## General information/operating conditions

	Column	External control
Design	Lifting column with integrated DC motor	
Guide	Slide guides made of POM	
Installation position	Any position/suspended with drop protection provided by the customer	
Push force/pull force	Up to 4,500 N	
Self-locking	Up to 8,000 N	
Ambient temperature	-20°C to +60°C	
Duty cycle (at max. load)	10% at nominal load (max. 2 mins operating time, 18 mins rest time)	
Voltage	24 V DC	230 V AC
Current output	Max. 7 A	according to drive
Power input	Max. 180 W	according to drive
Protection class	IP 40 (IP 54)	IP 54

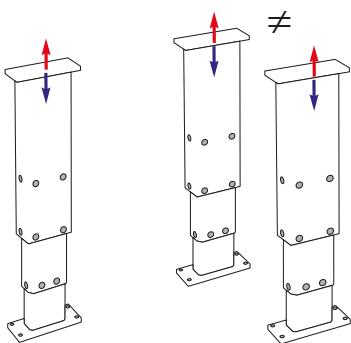
### Note:

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



## LAMBDA Colonne mono

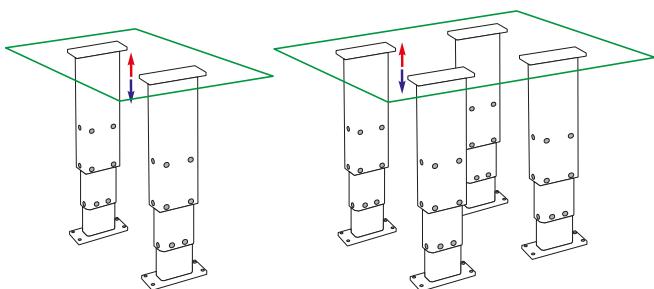


1-2 LAMBDA Colonnes in single or parallel operation

## Parallel operation

The standard version also supports parallel operation of two LAMBDA Colonnes (no synchronisation). This may produce different lifting positions during operation, which can be levelled out by moving to the end positions.

## LAMBDA Colonne synchro



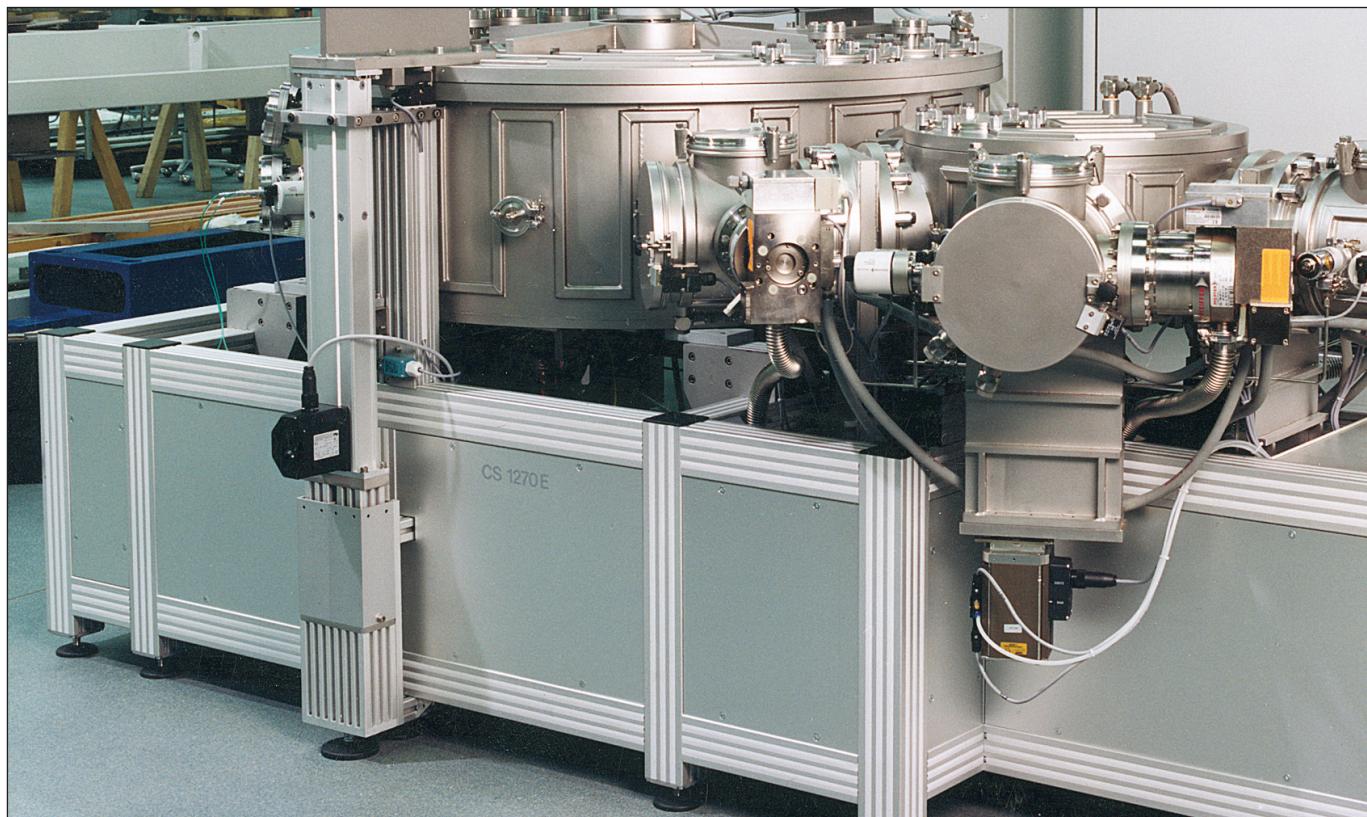
2 LAMBDA Colonnes in synchronous operation

**Note:**

3-4 LAMBDA Colonnes in synchronous operation available on request.

## Synchronous operation

Synchronous operation of two or more columns. In conjunction with the integrated sensors, the control (MultiControl II see catalogue Lifting columns and electric cylinders II) 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.



# LAMBDA Colonne – Fixing

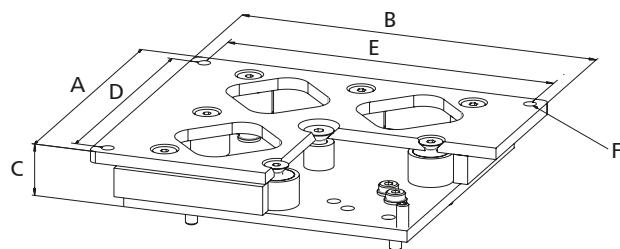
## RK SyncFlex H

### 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.

**Scope of delivery:**  
Adjuster plate,  
incl. fixing material



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

**RK SyncFlex V****Vertikale Ausrichtung**

- 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.

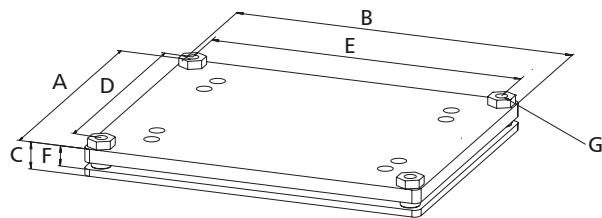
- The lifting columns can be aligned via the vertical adjustment around the X-Y axes.

**Scope of delivery:**

Adjuster plate,  
incl. fixing material

**Option:**

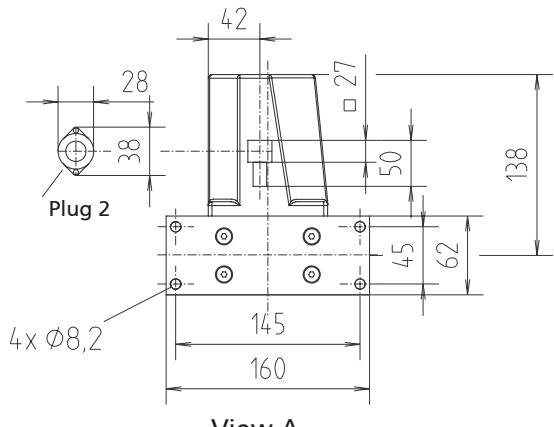
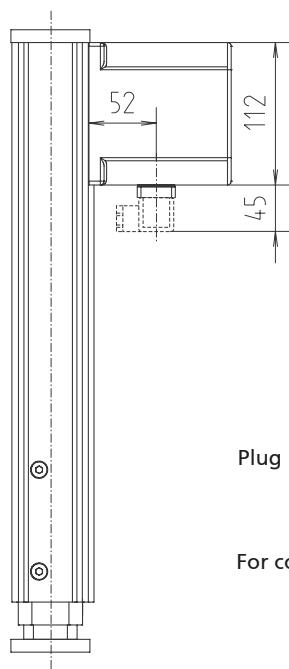
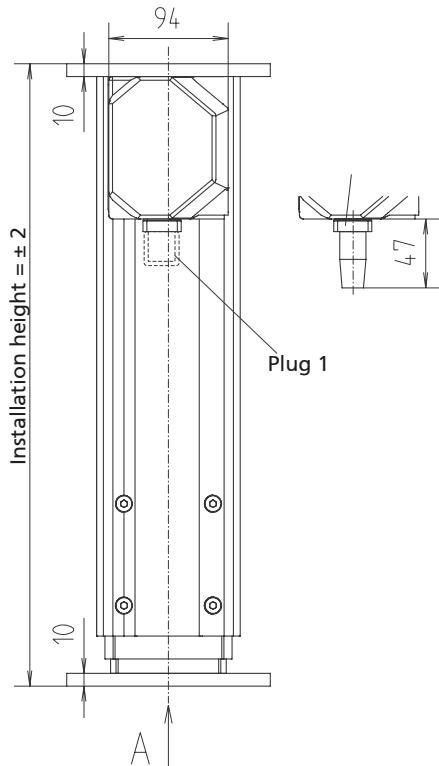
Optionally available with  
or without pressure plate  
(see table)



[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

# LAMBDA Colonne - Versions



Plug 1 = column without integrated potentiometer (mono)

For connectors, see Optional accessories, page 177

## LAMBDA Colonne mono

Code No.	Type	Push force/pull force [N]	Lifting speed [mm/s]	Stroke length [mm]	Installation height [mm]	Weight [kg]
LAMBDA mono without potentiometer, plug 1						
QKL20BA020200	LBC 12	2,000	20	200	410	~5.2
QKL20BA020300	LBC 13	2,000	20	300	460	~5.6
QKL20BA020400	LBC 14	2,000	20	400	510	~6.0
QKL20BA020500	LBC 15	2,000	20	500	610	~7.0
QKL20BA020600	LBC 16	2,000	20	600	710	~8.0
QKL10BB020200	LBC 112	4,500	8	200	410	~5.2
QKL10BB020300	LBC 113	4,500	8	300	460	~5.6
QKL10BB020400	LBC 114	4,500	8	400	510	~6.0
QKL10BB020500	LBC 115	4,500	8	500	610	~7.0
QKL10BB020600	LBC 116	4,500	8	600	710	~8.0

Further versions can be found in the catalogue Multilift II product line

## Controls

- Input voltage 230 V AC
- Output voltage 24 V DC

### Transformer control



Code No.	Version	Fig.
<b>Controls for Lambda Colonne mono</b>		
QZA01C04AD011	Controls up to 1 drive	1
QZA01C04AE011	Controls up to 2 drives	2
QZA01C04AF011	Controls up to 3 drives	3

For dimensions and additional technical data, please refer to the chapter "Controls" on page 148 ff.

Further versions can be found in the catalogue lifting columns and electric cylinders II

## Hand switches / Accessories



Code No.	Version	Fig.
QZB03C02AD031	control of up to 3 drives	2
QZD000072	Bracket for hand switch	3

We say what we do - and do what we say!  
We also say what we can't do - and don't do it!



A Phoenix Mecano Company

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**Connecting and positioning systems**

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