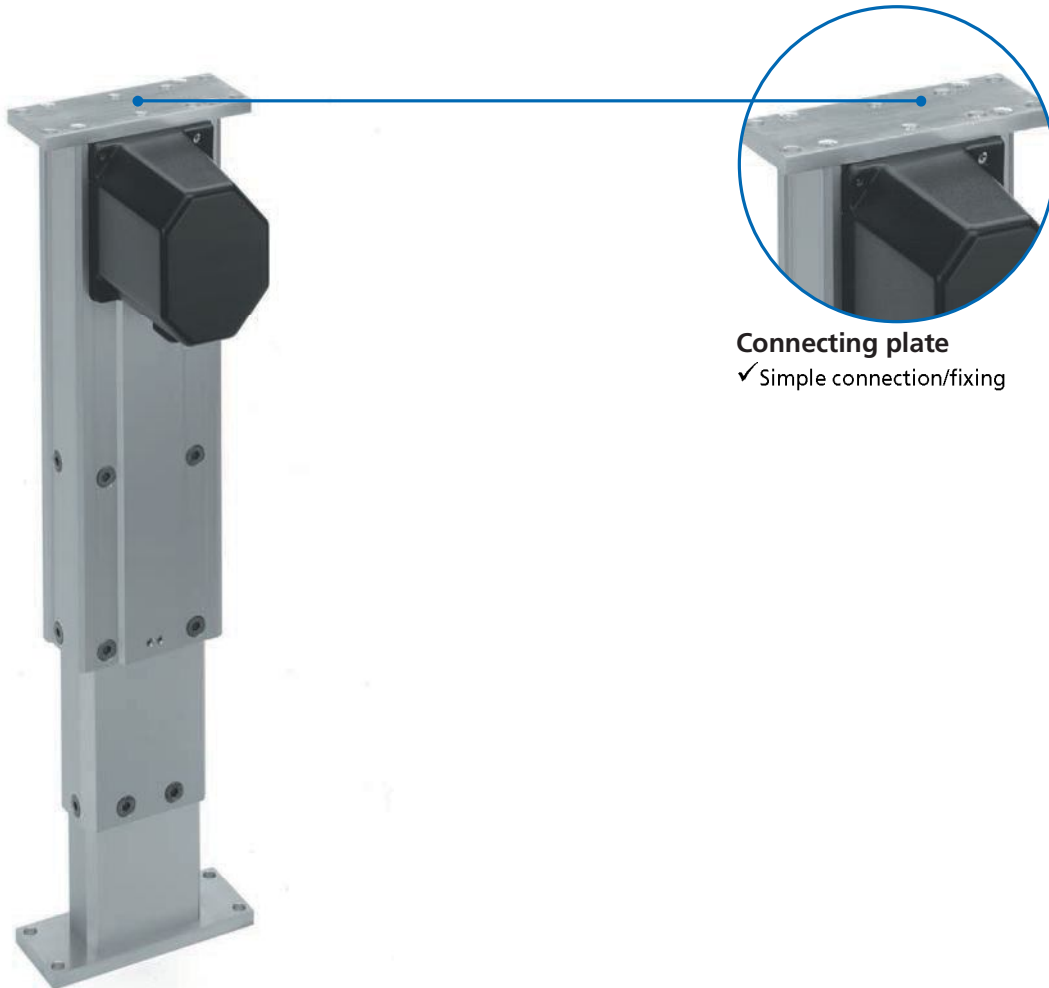


# Multi-stage lifting columns - LAMBDA Colonne

## 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
- Integrated potentiometer for synchron operation

### Options:

- Special stroke lengths
- Longer duty cycle

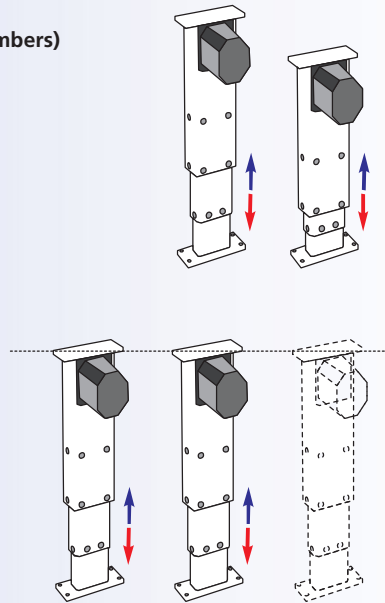
## LAMBDA Colonne - Table of contents

### Properties/Technical data

- General information/operating conditions.... Page 106
- Load data..... Page 106
- Parallel/synchronous operation..... Page 107

### Versions

(Dimensions, order numbers)



- LAMBDA Colonne mono ..... Page 108
- LAMBDA Colonne synchro ..... Page 108

### Accessories

#### Position determination

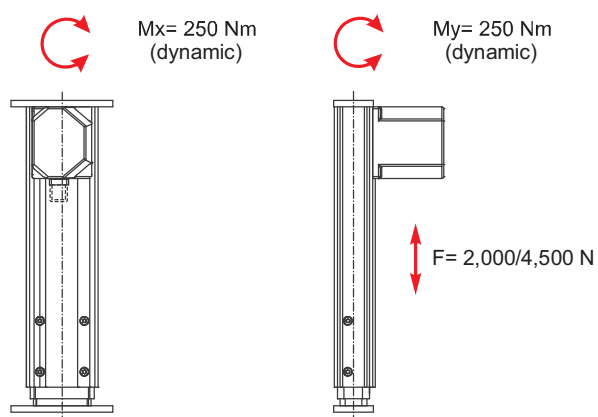
- Controls ..... Page 109
- Hand switches ..... Page 109

# LAMBDA Colonne – Technical data

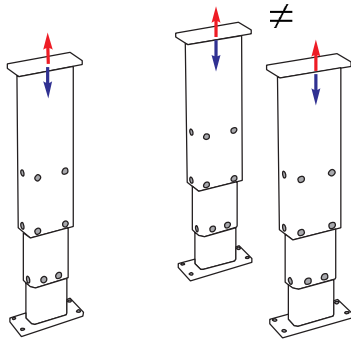
## General information/operating conditions

|                           | 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              |

## Load data



### LAMBDA Colonne mono

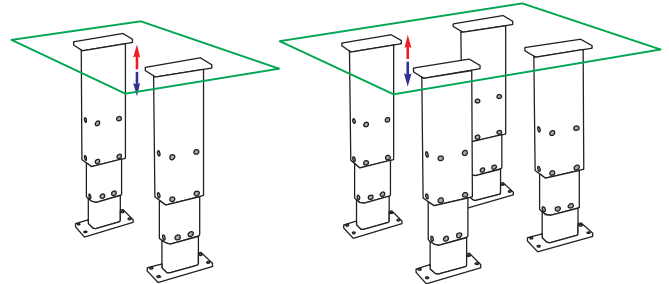


1-2 LAMBDA Colonne in single or parallel operation

### Parallel operation

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

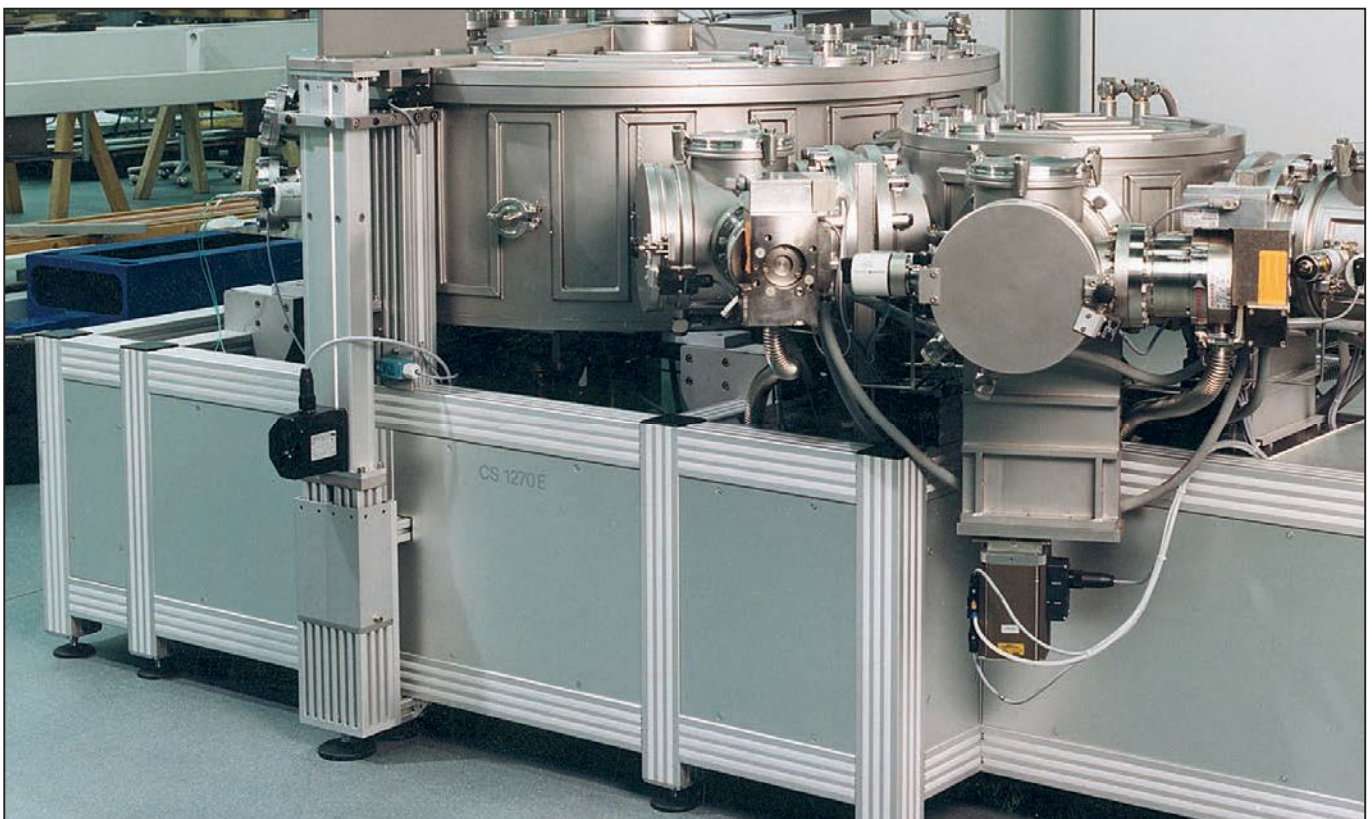
### LAMBDA Colonne synchro



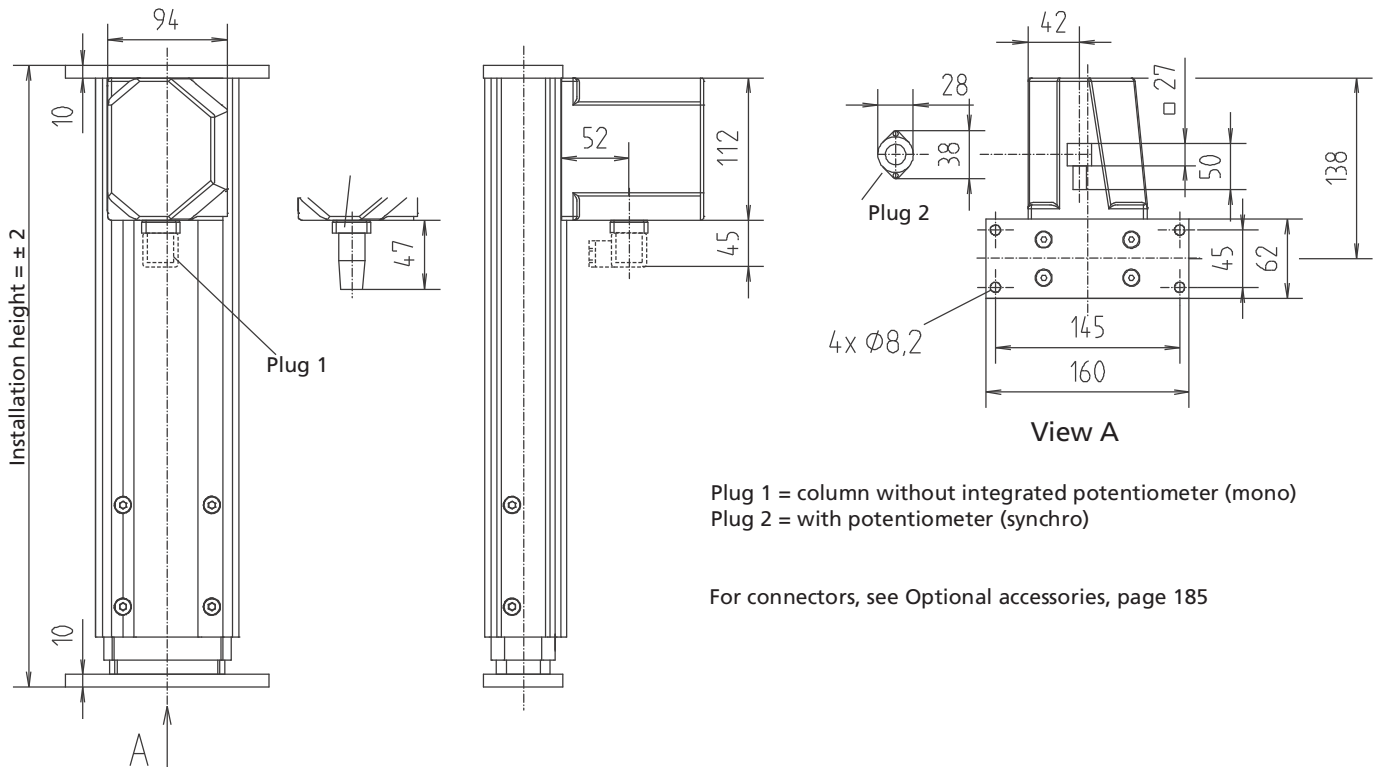
2-4 LAMBDA Colonne in synchronous operation

### Synchronous operation

Synchronous operation of two or more columns. In conjunction with the integrated sensors, the control (see page 146) 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. 6 mm.



# LAMBDA Colonne - Versions



Plug 1 = column without integrated potentiometer (mono)  
 Plug 2 = with potentiometer (synchro)

For connectors, see Optional accessories, page 185

## 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        |

## LAMBDA Colonne synchro

| Code No.                                  | Type    | Push force/pull force [N] | Lifting speed [mm/s] | Stroke length [mm] | Installation height [mm] | Weight [kg] |
|---|---------|---------------------------|----------------------|--------------------|--------------------------|-------------|
| LAMBDA synchro with potentiometer, plug 2 |         |                           |                      |                    |                          |             |
| QKL20BA010200                             | LBC 22  | 2,000                     | 20                   | 200                | 410                      | ~5.2        |
| QKL20BA010300                             | LBC 23  | 2,000                     | 20                   | 300                | 460                      | ~5.6        |
| QKL20BA010400                             | LBC 24  | 2,000                     | 20                   | 400                | 510                      | ~6.0        |
| QKL20BA010500                             | LBC 25  | 2,000                     | 20                   | 500                | 610                      | ~7.0        |
| QKL20BA010600                             | LBC 26  | 2,000                     | 20                   | 600                | 710                      | ~8.0        |
| QKL10BB010200                             | LBC 122 | 4,500                     | 8                    | 200                | 410                      | ~5.2        |
| QKL10BB010300                             | LBC 123 | 4,500                     | 8                    | 300                | 460                      | ~5.6        |
| QKL10BB010400                             | LBC 124 | 4,500                     | 8                    | 400                | 510                      | ~6.0        |
| QKL10BB010500                             | LBC 125 | 4,500                     | 8                    | 500                | 610                      | ~7.0        |
| QKL10BB010600                             | LBC 126 | 4,500                     | 8                    | 600                | 710                      | ~8.0        |

Controls

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

Transformer control



Synchronous control



| Code No.                                   | Version                     |   | Fig. |
|--|-----------------------------|---|------|
| <b>Controls for Lambda Colonne mono</b>    |                             |   |      |
| QZA01C04AD011                              | LBG 1 transformer control   | Controls up to 1 drive  | 1    |
| QZA01C04AE011                              | LBG 2 transformer control   | Controls up to 2 drives                                       | 2    |
| QZA01C04AF011                              | LBG 3 transformer control   | Controls up to 3 drives                                       | 3    |
| <b>Controls for Lambda Colonne synchro</b> |                             |   |      |
| QZA10C01AG011                              | LBS 2 synchronous control   | 2 drives, synchronous   | 4    |
| QZA10C01AH011                              | LBS 2+1 synchronous control | Controls up to 3 drives, 2 x synchronous + 1 additional drive | 5    |

For dimensions and additional technical data, please refer to the chapter "Controls" on page 146 ff.

Hand switches / Accessories



| Code No.      | Version  |                           | Fig. |
|---------------|--|---------------------------|------|
| QZB03C02AD031 | LAMBDA-hand switch with fixing clip, 6 function keys | control of up to 3 drives | 2    |
| QZD000072     | Bracket for hand switch                              |                           | 3    |