RKPowerlift
Two-stage lifting column
Two-stage lifting column - **RKPowerlift Z**

The power pack for high bending moments

**RKPowerlift version Z**
- For push force
- High moment capacity
- High lifting speed

**Features:**
- Three design versions available
- Withstands high torsional and bending moments
- Integrated motor
- Choice of internal or external control
- Four fixing slots in external profile
- Adjustable stroke length
- Optimum installation height/stroke length ratio
- Extremely quiet operation

**Options:**
- Quadro control enables synchronisation of up to 32 columns
- Version with manual drive via crank handle on request

Fixing
- Tapped hole for simple mounting

Fixing slot
- To accommodate clamping bars
- Fitted with cover profile
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### RKPowerlift Z – Technical data

#### General information/operating conditions

<table>
<thead>
<tr>
<th>Design</th>
<th>Rectangular lifting column in compact design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guide</td>
<td>Multiple roller/slide bearings</td>
</tr>
<tr>
<td>Installation position</td>
<td>External profile vertical to the floor stand surface, internal profile extending</td>
</tr>
<tr>
<td>Push force</td>
<td>Choice of 1,000 N, 2,000 N</td>
</tr>
<tr>
<td>Pull force</td>
<td>-</td>
</tr>
<tr>
<td>Voltage</td>
<td>36 V DC</td>
</tr>
<tr>
<td>Power input</td>
<td>120 W / 210 W</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 30</td>
</tr>
<tr>
<td>Self-locking</td>
<td>Yes</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>Max. displacement with synchronous operation</td>
<td>0-3 mm rack drive</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>At nominal load, 15% (max. 1.5 mins operating time, 10 mins rest time)</td>
</tr>
</tbody>
</table>

**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

**RKPowerlift Z**  
\[ M = 125 \text{ Nm (dynamic)} / 250 \text{ Nm (static)} \]

**RKPowerlift Z**  
\[ F_{\text{push}} = 1,000/2,000 \text{ N} \]
Parallel operation

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

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. 3 mm. A memory function is also available.
**RKPowerlift Z - Versions**

**RKPowerlift Z**
(for push force)

- with internal control

Power supply

Hand switch connection
RKPowerlift Z - Versions

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page

RKPowerlift classic
Top view with and without cap

RKPowerlift wave
Top view with and without cap

RKPowerlift technic
Top view with and without cap

<table>
<thead>
<tr>
<th>Type</th>
<th>Installation height</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke 350</td>
<td>490</td>
<td>465</td>
</tr>
<tr>
<td>Stroke 490</td>
<td>610</td>
<td>585</td>
</tr>
</tbody>
</table>

Hand switch connection

Installation height

A

Top view with and without cap

Top view with and without cap

Top view with and without cap

View “X” (only with technic design)

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page

RKPowerlift Z - Versions

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page

RKPowerlift classic
Top view with and without cap

RKPowerlift wave
Top view with and without cap

RKPowerlift technic
Top view with and without cap

<table>
<thead>
<tr>
<th>Type</th>
<th>Installation height</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke 350</td>
<td>490</td>
<td>465</td>
</tr>
<tr>
<td>Stroke 490</td>
<td>610</td>
<td>585</td>
</tr>
</tbody>
</table>

Hand switch connection

Installation height

A

Top view with and without cap

Top view with and without cap

Top view with and without cap

View “X” (only with technic design)

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page

RKPowerlift Z - Versions

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page

RKPowerlift classic
Top view with and without cap

RKPowerlift wave
Top view with and without cap

RKPowerlift technic
Top view with and without cap

<table>
<thead>
<tr>
<th>Type</th>
<th>Installation height</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke 350</td>
<td>490</td>
<td>465</td>
</tr>
<tr>
<td>Stroke 490</td>
<td>610</td>
<td>585</td>
</tr>
</tbody>
</table>

Hand switch connection

Installation height

A

Top view with and without cap

Top view with and without cap

Top view with and without cap

View “X” (only with technic design)

Hand switch connection

Power supply

Fixing slot (sealed with cover profile) to accommodate clamping bars.

Dimensions of internal profile identical for all 3 versions

For order table, see next page
** RKPowerlift Z - Versions **

### RKPowerlift Z (for push load)

** RKPowerlift mono **

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>Push force [N]</th>
<th>Lifting speed [mm/s]</th>
<th>Stroke length [mm]</th>
<th>Installation height [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPL35BA_20350</td>
<td>RKPowerlift 35</td>
<td>1,000</td>
<td>35</td>
<td>350</td>
<td>490</td>
<td>~18</td>
</tr>
<tr>
<td>QPL35BA_20490</td>
<td>RKPowerlift 35</td>
<td>1,000</td>
<td>35</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
</tbody>
</table>

With internal control/standard (start and stop)

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>Push force [N]</th>
<th>Lifting speed [mm/s]</th>
<th>Stroke length [mm]</th>
<th>Installation height [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPL28BB_40490</td>
<td>RKPowerlift 28</td>
<td>2,000</td>
<td>28</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL35BA_40350</td>
<td>RKPowerlift 35</td>
<td>1,000</td>
<td>35</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL35BA_40490</td>
<td>RKPowerlift 35</td>
<td>1,000</td>
<td>35</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL50BA_40350</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>350</td>
<td>490</td>
<td>~18</td>
</tr>
<tr>
<td>QPL50BA_40490</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
</tbody>
</table>

With internal control/soft-control (soft start and braking)

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>Push force [N]</th>
<th>Lifting speed [mm/s]</th>
<th>Stroke length [mm]</th>
<th>Installation height [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPL28BB_60490</td>
<td>RKPowerlift 28</td>
<td>2,000</td>
<td>28</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL50BA_60350</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>350</td>
<td>490</td>
<td>~18</td>
</tr>
<tr>
<td>QPL50BA_60490</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
</tbody>
</table>

With internal control/memory (9 positions can be stored)

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>Push force [N]</th>
<th>Lifting speed [mm/s]</th>
<th>Stroke length [mm]</th>
<th>Installation height [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPL28BB_40490</td>
<td>RKPowerlift 28</td>
<td>2,000</td>
<td>28</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL50BA_60350</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>350</td>
<td>490</td>
<td>~18</td>
</tr>
<tr>
<td>QPL50BA_60490</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
</tbody>
</table>

** Design:**
- 3 = classic
- 4 = wave
- 5 = technic

Polishing machine
**RKPowerlift Z- Versions**

**RKPowerlift Z** (for push load)

![Diagram of RKPowerlift Z](image)

**RKPowerlift synchro**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>Push force [N]</th>
<th>Lifting speed [mm/s]</th>
<th>Stroke length [mm]</th>
<th>Installation height [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPL28BB_30490</td>
<td>RKPowerlift 28</td>
<td>2,000</td>
<td>28</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
<tr>
<td>QPL50BA_30350</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>350</td>
<td>490</td>
<td>~18</td>
</tr>
<tr>
<td>QPL50BA_30490</td>
<td>RKPowerlift 50</td>
<td>1,000</td>
<td>50</td>
<td>490</td>
<td>610</td>
<td>~21</td>
</tr>
</tbody>
</table>

**Code No. Connecting cable (bus cable)**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Connecting cable (bus cable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100093</td>
<td>For synchronisation up to 8 <em>RKPowerlifts,</em> 6 m</td>
</tr>
</tbody>
</table>

**Design:**
3 = classic
4 = wave
5 = technic

**RKPowerlift internal control**

![Diagram of RKPowerlift internal control](image)

**Note**
Preferred installation orientation:
External profile vertical to the floor stand surface, internal profile extending.
Other installation orientations are available on request.
**RKPowerlift Z – Fixing**

**Clamping bar**
- The clamping bar enables the fitting of attachments to the RKPowerlift. The bar is inserted in the fixing slot and fixed by means of a clamping screw. The tapped holes enable the screw connection of attachments.
- In the case of the “technic” design version, attachments can also be secured using accessories (slot stones, etc.) from the catalogue BLOCAN® Profile Systems.

**Material:**
St37-2 k, zinc plated

**Frame/fixing plate for table top**
- Our universal fixing plate and table frame provide two standard solutions for the attachment of table tops, brackets etc. to the lifting column without the need for any further modifications.
- In the case of the “technic” design version, attachments can also be secured using accessories (slot stones, etc.) from the catalogue BLOCAN® Profile Systems.

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

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD000075</td>
<td>Clamping bar</td>
</tr>
<tr>
<td>QZD100085</td>
<td>Frame for RKPowerlift, incl. fastenings</td>
</tr>
<tr>
<td>QZD100313</td>
<td>Fixing plate</td>
</tr>
<tr>
<td>QZD100337</td>
<td>Fixing set for fixing plate RKPowerlift,</td>
</tr>
<tr>
<td></td>
<td>M10 x 30 DIN 7984</td>
</tr>
</tbody>
</table>

**Fixing plate**

**Frame**

**Plug Inlet for hand switch**
**RKPowerlift Z- Fixing**

**Base plate**

**Material:** steel, black powder-coated RAL 9005, zinc plated fastenings  
**Scope of delivery:** complete with fastenings

---

**Code No.** | **Type** | **A** | **B**  
---|---|---|---  
QZD100092 | Base plate for *RKPowerlift* classic | 124 | 182  
QZD100084 | Base plate for *RKPowerlift* wave | 120 | 190  
QZD100090 | Base plate for *RKPowerlift* technic | 130 | 174
RK SyncFlex H

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

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

**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.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100455</td>
<td>RKPowerlift Z</td>
<td>200</td>
<td>250</td>
<td>36</td>
<td>180</td>
<td>230</td>
<td>M 10</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without pressure plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD100449</td>
<td>RKPowerlift Z-classic</td>
<td>200</td>
<td>250</td>
<td>-</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
<tr>
<td>QZD100450</td>
<td>RKPowerlift Z-wave</td>
<td>200</td>
<td>250</td>
<td>-</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
<tr>
<td>With pressure plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD100465</td>
<td>RKPowerlift Z-classic</td>
<td>200</td>
<td>250</td>
<td>15-20</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
<tr>
<td>QZD100466</td>
<td>RKPowerlift Z-wave</td>
<td>200</td>
<td>250</td>
<td>15-20</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
</tbody>
</table>

---

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

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

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

---

The horizontal compensation in the Z-axis enables the freedom of movement required when moving the lifting columns.
**PLC/PC data interface**

This interface enables actuation of the synchronous control system via different input devices (PLC, PC and hand switch).

You will find further product information on page 184.

---

**Hand switches/accessories**

**RKPowerlift mono**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Version</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZB00A00BC011</td>
<td>Membrane keyboard with 1 m spiral cable – 2 function keys</td>
<td>12</td>
</tr>
<tr>
<td>QZB02C01AE114GS</td>
<td>Foot switch – 2 function keys</td>
<td>13</td>
</tr>
<tr>
<td>QZB00D04AB041</td>
<td>Hand switch with 1 m spiral cable – 2 function keys</td>
<td>7</td>
</tr>
</tbody>
</table>

**RKPowerlift synchro**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Version</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZB00D04AD041</td>
<td>Hand switch with 1 m spiral cable – 6 function keys</td>
<td>8</td>
</tr>
</tbody>
</table>
The mini version of the RKPowerlift – the RKPowerlift M

**Features:**
- Withstands high torsional and bending moments
- Integrated motor
- Extremely quiet operation
- Choice of internal or external control
- Four fixing slots in external profile
- Power receptacle at top or bottom, as preferred
- Testet to: IEC 60601-1 (ed.3) EN 60601-1:2006/A1:2013

**Options:**
- Special stroke lengths available on request
- Special installation lengths available on request

**RKPowerlift M**
- Compressive forces to 3,000 N
- Tensile forces 1,500 N
- Lifting speed 13 mm/s

**Standard**
- Hand switch receptacle, power receptacle with integrated fuse

**Optional**
- Power supply/output versions

**Soft control versions are available with SMPS technology**
- Switched-Moded Power Supply technology
- Wide range input (100 - 240 V ± 50 / 60 Hz)
- Soft start and stop process
- Overcurrent-monitoring
- Temperature-monitoring
- Single-fault protection
- Energy-efficient
- Weight-optimised
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Position determination

Areas of application
Lifting columns
Electric cylinder
Controls & Accessories
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**RKPowerlift M – Technical data**

**General information/operating conditions**

<table>
<thead>
<tr>
<th></th>
<th>RKPowerlift M for external control</th>
<th>RKPowerlift M for internal control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design</strong></td>
<td>Rectangular lifting column in compact design</td>
<td></td>
</tr>
<tr>
<td><strong>Guide</strong></td>
<td>16 POM slide bearings</td>
<td></td>
</tr>
<tr>
<td><strong>Installation position</strong></td>
<td>Any position/suspended with drop protection provided by the customer</td>
<td></td>
</tr>
<tr>
<td><strong>Push force</strong></td>
<td>3,000 N</td>
<td></td>
</tr>
<tr>
<td><strong>Pull force</strong></td>
<td>1,500 N</td>
<td></td>
</tr>
<tr>
<td><strong>Max. speed</strong></td>
<td>13 mm/s</td>
<td></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>24 V DC / 230 V AC / 100 - 240 V AC</td>
<td></td>
</tr>
<tr>
<td><strong>Power input</strong></td>
<td>120 W</td>
<td>150 W</td>
</tr>
<tr>
<td><strong>Protection class</strong></td>
<td>IP 30</td>
<td></td>
</tr>
<tr>
<td><strong>Self-locking</strong></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>+5°C to +40°C</td>
<td></td>
</tr>
<tr>
<td><strong>Max. displacement with synchronous operation</strong></td>
<td>0.2 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Duty cycle</strong></td>
<td>At nominal load, 15% (max. 1.5 mins operating time, 8.5 mins rest time)</td>
<td></td>
</tr>
</tbody>
</table>

*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 750 N must not be exceeded.

**Load data**

\[ M = 200 \text{ Nm} \text{ (dynamic)} \]

\[ F_{\text{push}} = 1,500 \text{ N} / 3000 \text{ N} \]
\[ F_{\text{pull}} = 1,500 \text{ N} \]

Support torque
400 Nm (static)

**Speed/Force diagram**

**RKPowerlift M for external control**

**Speed/Force diagram**

**RKPowerlift M, with internal control**

**Current output/Force diagram**

**RKPowerlift M, for external control**

**Current output/Force diagram**

**RKPowerlift M, with internal control**

24 V*1 determined with a transformer control 120 VA — 36 V*2 determined with a MultiControl duo
**Parallel operation**

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

**Synchronous operation**

Synchronous operation of two or more columns. In conjunction with the integrated sensors, the control (page 148) ensures synchronisation, and this constant alignment of all the columns in both directions of travel, even if subject to different loads. The synchronous operation tolerance is max. 2 mm. A memory function is also available.
**RKPowerlift M - Versions**

**Versions**
- with internal control
- for external control

- Hand switch connection
- Power supply
- Power output (optional)
- Connecting cable (8-pin, 1.8 m) for an external control

---

**Lifting columns**
**RK Powerlift M - Versions**

**Areas of application**

**Lifting columns**

**Electric cylinder**

**Controls & Accessories**

**Appendix**

**Installation height**

- **Einbauhöhe**: 37 mm

**Hand switch connection**

(for internal control)

**Fixing slot (sealed with cover profile)**

to accommodate square nuts (see page 79)

**Power supply (for internal control) with integrated fuse**

(can be replaced externally)

**Power supply - versions:**

- **Type 0**: Standard, Power supply, top
- **Type 1** (cable feedthrough): Power supply, top / power output, bottom
- **Type 3** (cable feedthrough): Power supply, bottom / power output, top
- **Type 4**: Power supply, bottom

**Power supply - versions:**

- **Type 0**: Standard, Power supply, top
- **Type 1** (cable feedthrough): Power supply, top / power output, bottom
- **Type 3** (cable feedthrough): Power supply, bottom / power output, top
- **Type 4**: Power supply, bottom

- **230 V AC**

**Installation height**: 37 mm
**RKPowerlift M - Versions**

**RKPowerlift M mono**

1-2 single or parallel operation

*Order information:*
Soft control versions are now available with SMPS technology.
Only for Soft-Control-Versions please select IEC cable separately (page 83).

### Code No. | Type | Push force [N] | Pull force [N] | Lifting speed [mm/s] | Stroke length [mm] | Installation height [mm] | Weight [kg]
--- | --- | --- | --- | --- | --- | --- | ---
| **With internal control / SNT mono – Soft Control**|
| QPM08DE42_300 | RKPowerlift M | 3000 / 3000 (med.) | 1500 / 750 (med.) | 9 | 300 | 510 | -11,0 |
| QPM08DE42_400 |  |  |  |  | 400 | 610 | -12,5 |
| QPM13DC42_300 | 1500 / 1500 (med.) | 1500 / 750 (med.) | 13 | 300 | 510 | -11,0 |
| QPM13DC42_400 |  |  |  |  | 400 | 610 | -12,5 |
| QPM13DC42_500 |  |  |  |  | 500 | 710 | -14,0 |

With internal control/memory (9 positions can be stored)

--- | --- | --- | --- | --- | --- | --- | ---
| QPM13BC46_300 | RKPowerlift M | 1500 | 1500 | 13 | 300 | 510 | -12,0 |
| QPM13BC46_400 |  |  |  |  | 400 | 610 | -13,5 |
| QPM13BC46_500 |  |  |  |  | 500 | 710 | -15,0 |

For mains supply versions see page 75
0 = Standard
1 = Type 1
3 = Type 3
4 = Type 4

### Code No. | Type | Push force [N] | Pull force [N] | Lifting speed [mm/s] | Stroke length [mm] | Installation height [mm] | Weight [kg]
--- | --- | --- | --- | --- | --- | --- | ---
| **For external control**|
| QPM08EE480300 | RKPowerlift M | 3000 / 3000 (med.) | 1500 / 750 (med.) | 9 | 300 | 510 | -12,0 |
| QPM08EE480400 |  |  |  |  | 400 | 610 | -13,5 |
| QPM13EC480300 | 1500 / 1500 (med.) | 1500 / 750 (med.) | 13 | 300 | 510 | -12,0 |
| QPM13EC480400 |  |  |  |  | 400 | 610 | -13,5 |
| QPM13EC480500 |  |  |  |  | 500 | 710 | -15,0 |

**Order information:**
Observe the current output of the drives when selecting the control.

| Code No. | External control mono |
--- | ---|
| QZA09C13H031 | Transformer control 120 VA connection C, up to max. I= 3 A, 24 V DC Controls up to 1 drives |
| QSTACCA1AA000 | MultiControl mono connection C, up to max. I= 12 A current output, 36 V DC Controls up to 2 drives |
**RKPowerlift M - Versions**

**RKPowerlift M synchro**

2-4 in synchronous operation

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>QPM13BC47_300</td>
<td>RKPowerlift M</td>
<td>1500</td>
<td>1500</td>
<td>13</td>
<td>300</td>
<td>510</td>
<td>-12,0</td>
</tr>
<tr>
<td>QPM13BC47_400</td>
<td></td>
<td>400</td>
<td>610</td>
<td></td>
<td>500</td>
<td>710</td>
<td>-15,0</td>
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<tr>
<td>QPM13BC47_500</td>
<td></td>
<td>500</td>
<td>710</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For mains supply versions see page 75
0 = Standard
1 = Type 1
3 = Type 3
4 = Type 4

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>QPM08EE480300</td>
<td>RKPowerlift M</td>
<td>3000 / 3000 (med.)</td>
<td>1500 / 750 (med.)</td>
<td>9</td>
<td>300</td>
<td>510</td>
<td>-12,0</td>
</tr>
<tr>
<td>QPM08EE480400</td>
<td></td>
<td>400</td>
<td>610</td>
<td></td>
<td>500</td>
<td>710</td>
<td>-15,0</td>
</tr>
<tr>
<td>QPM13EC480300</td>
<td></td>
<td>1500 / 1500 (med.)</td>
<td>1500 / 750 (med.)</td>
<td>13</td>
<td>300</td>
<td>510</td>
<td>-12,0</td>
</tr>
<tr>
<td>QPM13EC480400</td>
<td></td>
<td>400</td>
<td>610</td>
<td></td>
<td>500</td>
<td>710</td>
<td>-15,0</td>
</tr>
<tr>
<td>QPM13EC480500</td>
<td></td>
<td>500</td>
<td>710</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For external control

Order information: Observe the current output of the drives when selecting the control.

<table>
<thead>
<tr>
<th>Code No.</th>
<th>External control synchro</th>
</tr>
</thead>
<tbody>
<tr>
<td>QST44C02AA000</td>
<td>MultiControl duo connection C, up to max. I = 12 A current output, 36 V DC for synchronous control up to 2 drives</td>
</tr>
<tr>
<td>QST44C04AA000</td>
<td>MultiControl quadro connection C, up to max. I = 12 A current output, 36 V DC for synchronous control up to 4 drives</td>
</tr>
</tbody>
</table>
Assembly plate

These mounting plates are fitted using the mounting kits supplied and fixed directly into the screw channels in the Powerlift „M“. A further 4 holes, in the mounting plate, allow easy connection, to brackets or corresponding fixture assembly work etc.

Material: S 235 JR, black powder-coated, zinc plated fixing set

Scope of delivery:
Plate, incl. fixing set

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100541</td>
<td>Top assembly plate</td>
</tr>
</tbody>
</table>

For internal profile

For external profile

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100542</td>
<td>Bottom assembly plate</td>
</tr>
</tbody>
</table>
**RKPowerlift M - Fixing**

**Base plate**

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

Scope of delivery: complete with fastenings

Order information: Base plate only in combination with “Type 0” possible (see page 75)

Base plate, plastic foot with adjusting thread, M10 DIN 74-Bm8

**Code No.** | **Type**
--- | ---
QZD100546 | Base plate for RKPowerlift M

**Order instruction square nut:**

- Purchase only in lot sizes and a multiple of that, see product table below

**Square nut**

For connecting accessories to the external profile

**Code No.** | **lot sizes** | **Type**
--- | --- | ---
qzd1003261 | 10, 20, 30... pcs | Square nut M4, DIN 562
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

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100453</td>
<td>RKPowerlift M</td>
<td>200</td>
<td>250</td>
<td>36</td>
<td>180</td>
<td>230</td>
<td>M 10</td>
</tr>
</tbody>
</table>
RK Powerlift M - Fixing

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)

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without pressure plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD100446</td>
<td>RK Powerlift M</td>
<td>200</td>
<td>250</td>
<td>-</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
<tr>
<td>With pressure plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD100463</td>
<td>RK Powerlift M</td>
<td>200</td>
<td>250</td>
<td>15-20</td>
<td>180</td>
<td>230</td>
<td>10-15</td>
<td>M 10</td>
</tr>
</tbody>
</table>
**Hand switches/accessories**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Version</th>
<th>For internal control</th>
<th>For external control</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZB02C03AB031</td>
<td>Hand switch 2 function keys – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>QZB00D04AB041</td>
<td>Hand switch 2 function keys – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>QZB00D04AD041</td>
<td>Hand switch 6 function keys / display – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>QZB02A03AB041</td>
<td>Hand switch 2 function keys – 1 m cable –</td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>QZB00A00AB051</td>
<td>Table hand switch 2 function keys – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>QZB00A00BC011</td>
<td>Membrane keyboard 2 function keys – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>QZB02C01AE114GS</td>
<td>Foot switch – 2 function keys – 2 m cable –</td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>QZB00D07BK141</td>
<td>Wireless hand switch – 2 function keys – 1 m spiral cable –</td>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Accessories</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD000072</td>
<td>Bracket for hand switch</td>
<td>3</td>
</tr>
<tr>
<td>QZD000074</td>
<td>Drawer for hand switch</td>
<td>9</td>
</tr>
</tbody>
</table>

**Optional accessories**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Versions</th>
<th>For internal control</th>
<th>For external control</th>
<th>Fig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD100093</td>
<td>Bus cable for networking of up to 8 synchronous control with 6 m cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD070308*</td>
<td>Hand switch cable / open cable end with helix cable 1m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QZD0702844000*</td>
<td>Connecting cable with 5- pin connector and open cable end with 4 m cable</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>QZD070526</td>
<td>Extension cable drive for connector C / 8 - pin DIN - socket with cable</td>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

*for the connection of customer’s hand switch or an external potentiometer (in the case of the MultiControl mono)
**IEC cable**

- Only for Soft-Control-Versions please select IEC cable separately

<table>
<thead>
<tr>
<th>Code No</th>
<th>Version</th>
<th>Type</th>
<th>Cable length</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD070618</td>
<td>IEC cable (Europe version, earthed plug)</td>
<td>F</td>
<td>1.80 m</td>
</tr>
<tr>
<td>QZD020159</td>
<td>IEC cable (Switzerland version, earthed plug)</td>
<td>J</td>
<td>1.80 m</td>
</tr>
<tr>
<td>QZD070619</td>
<td>IEC cable (Great Britain version, earthed plug)</td>
<td>G</td>
<td>1.80 m</td>
</tr>
<tr>
<td>QZD070631</td>
<td>IEC cable (Japan version, earthed plug)</td>
<td>B</td>
<td>1.80 m</td>
</tr>
<tr>
<td>QZD070622</td>
<td>IEC cable (USA version, earthed plug)</td>
<td>B</td>
<td>2.00 m</td>
</tr>
</tbody>
</table>

**PLC/PC data interface**

- This interface enables actuation of the synchronous control system via different input devices (PLC, PC and hand switch)

For detailed information, please look in our catalogue, “Linear Technology Lifting columns and electric cylinders” (page 184)

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**Appendix**

**Areas of application**

---

**Lifting columns**

---

**Controls & Accessories**

---

**Electric cylinder**

---

**Appendix**