Multilift
Two-stage lifting column
Two-stage lifting column - Multilift

Slimline design and an unbeatable price/performance ratio

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

Options:
- Version with manual drive via crank handle
- Special stroke lengths
- Quadro control enables control of up to 32 columns synchron
- Tested to EN 60601-1 3E

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General information/operating conditions

<table>
<thead>
<tr>
<th>Type</th>
<th>Multilift</th>
<th>Multilift S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Slim lifting column</td>
<td></td>
</tr>
<tr>
<td>Guide</td>
<td>Quadruple bearings with POM slide bearing shells</td>
<td></td>
</tr>
<tr>
<td>Installation position</td>
<td>Any position / suspended with drop protection provided by the customer</td>
<td></td>
</tr>
<tr>
<td>Push force*</td>
<td>3,000 N</td>
<td>1,000 N</td>
</tr>
<tr>
<td>Pull force*</td>
<td>1,000 N (only in conjunction with factory-mounted base plate)</td>
<td></td>
</tr>
<tr>
<td>Max. speed</td>
<td>8 ( \text{mm/s} )</td>
<td>16 ( \text{mm/s} )</td>
</tr>
<tr>
<td>Voltage</td>
<td>24 V DC</td>
<td></td>
</tr>
<tr>
<td>Power input</td>
<td>120 W</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 20 / IP10 for version B (with milled slot)</td>
<td></td>
</tr>
<tr>
<td>Self-locking</td>
<td>3,000 N</td>
<td>1,000 N</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>+5°C to +40°C</td>
<td></td>
</tr>
<tr>
<td>Displacement during synchronous operation</td>
<td>0-2 mm</td>
<td>0-4 mm</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>At nominal load, 10% (max. 2 mins operating time, 18 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 500 N and, in the case of the version with a travel speed of 8 \( \text{mm/s} \), the maximum push force of 2,000 N must not be exceeded.

Load data

**Speed/Force diagram**

![Speed/Force diagram](attachment:image)

**Current output/Force diagram**

![Current output/Force diagram](attachment:image)
Parallel operation

The standard version also supports parallel operation of two Multilifts (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 44) 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 8 mm/s version and max 4 mm on the 16 mm/s version. A memory function is also available.

Universal Table Ironing Machine
Multilift - Versions

Version A
without milled slot in the external profile

Version B
with milled slot in
the external profile

Installation height without base plate: \(H\)
Installation height with base plate: \(I, K, M\) (pull) + 8 mm

Installation height - 40 mm
Installation height - 10 mm

BLOCAN®-40 slot geometry
M8 / 40 deep

Helix cable
Length 0.5-1.2 m

Lateral receptacle output with synchronous control (cable length 2.5 m)

View “A”

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

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

Base plate (M) flush

Counterbore

Counterbore

Counterbore

Lifting columns
## Multilift – Versions

### Multilift Mono

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>max. push force [N]</th>
<th>max. pull force [N]</th>
<th>max. lifting speed [mm/s]</th>
<th>Total travel [mm]</th>
<th>Installation height without base plate [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAB13_G0_0355</td>
<td>Multilift 350</td>
<td>3,000 / 2,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>8</td>
<td>355</td>
<td>550</td>
<td>9.1</td>
</tr>
<tr>
<td>QAB13_G0_0400</td>
<td>Multilift 400</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>595</td>
<td>10.0</td>
</tr>
<tr>
<td>QAB13_G0_0450</td>
<td>Multilift 450</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>650</td>
<td>10.8</td>
</tr>
<tr>
<td>QAB13_G0_0500</td>
<td>Multilift 500</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>695</td>
<td>11.5</td>
</tr>
<tr>
<td>QAB26_G0_0355</td>
<td>Multilift 350 s</td>
<td>1,000 / 1,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>16</td>
<td>355</td>
<td>550</td>
<td>9.1</td>
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<tr>
<td>QAB26_G0_0400</td>
<td>Multilift 400 s</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>595</td>
<td>10.0</td>
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<tr>
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<td>Multilift 450 s</td>
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<td></td>
<td></td>
<td>452</td>
<td>650</td>
<td>10.8</td>
</tr>
<tr>
<td>QAB26_G0_0500</td>
<td>Multilift 500 s</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>695</td>
<td>11.5</td>
</tr>
</tbody>
</table>

**Version:**
1 = B (with milled slot in the external profile)
2 = A (without milled slot in the external profile)

**Base plate (For dimensions, see page 34):**

- **H** = without base plate (not suitable for pull forces)
- **I** = with external fixing plates 4 counterbores
- **K** = with external fixing plates 2 counterbores
- **M** = base plate flush

### Multilift Synchro

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>max. push force [N]</th>
<th>max. pull force [N]</th>
<th>max. lifting speed [mm/s]</th>
<th>Total travel [mm]</th>
<th>Installation height incl. base plate [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAB13_G0_0355</td>
<td>Multilift 350</td>
<td>3,000 / 2,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>8</td>
<td>355</td>
<td>558</td>
<td>10.1</td>
</tr>
<tr>
<td>QAB13_G0_0400</td>
<td>Multilift 400</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>603</td>
<td>11.0</td>
</tr>
<tr>
<td>QAB13_G0_0450</td>
<td>Multilift 450</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>658</td>
<td>11.8</td>
</tr>
<tr>
<td>QAB13_G0_0500</td>
<td>Multilift 500</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>703</td>
<td>12.5</td>
</tr>
<tr>
<td>QAB26_G0_0355</td>
<td>Multilift 350 s</td>
<td>1,000 / 1,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>16</td>
<td>355</td>
<td>558</td>
<td>10.1</td>
</tr>
<tr>
<td>QAB26_G0_0400</td>
<td>Multilift 400 s</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>603</td>
<td>11.0</td>
</tr>
<tr>
<td>QAB26_G0_0450</td>
<td>Multilift 450 s</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>658</td>
<td>11.8</td>
</tr>
<tr>
<td>QAB26_G0_0500</td>
<td>Multilift 500 s</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>703</td>
<td>12.5</td>
</tr>
</tbody>
</table>

**Version:**
3 = B (with milled slot in the external profile)
4 = A (without milled slot in the external profile)

**Base plate (For dimensions, see page 34):**

- **I** = with external fixing plates 4 counterbores
- **K** = with external fixing plates 2 counterbores
- **M** = base plate flush
Multilift – Technical data - internal carriage

Load data
with internal carriage

Mx = 75 Nm
(dynamic)

Fpush = 1,000/3,000 N

Fpull = 1,000 N

Mx = 150 Nm
(static)

My = 50 Nm
(dynamic)

My = 100 Nm
(static)

BLOCAN®-40 slot geometry

Helix cable
Multilift Mono
Length 0.5-1.2 m

Installation height with base plate E (pull) + 8 mm
Installation height without base plate (H)

Counterbore

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

Base plate (M)
flush

View “A”

Lateral receptacle output with
synchronous control
(cable length 2.5 m)
# Multilift – Versions

## Multilift Mono

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>max. push force [N]</th>
<th>max. pull force [N]</th>
<th>max. lifting speed [mm/s]</th>
<th>Total travel [mm]</th>
<th>Installation height without base plate [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Multilift 350</td>
<td>3,000 / 2,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>8</td>
<td>355</td>
<td>557.5</td>
<td>6.4</td>
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<tr>
<td>QAB13_G070400</td>
<td>Multilift 400</td>
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<td></td>
<td></td>
<td>400</td>
<td>602.5</td>
<td>6.7</td>
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<tr>
<td>QAB13_G070450</td>
<td>Multilift 450</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>657.5</td>
<td>7.1</td>
</tr>
<tr>
<td>QAB13_G070500</td>
<td>Multilift 500</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>702.5</td>
<td>7.4</td>
</tr>
<tr>
<td>QAB26_G070355</td>
<td>Multilift 350 s</td>
<td>1,000 / 1,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>16</td>
<td>355</td>
<td>557.5</td>
<td>6.4</td>
</tr>
<tr>
<td>QAB26_G070400</td>
<td>Multilift 400 s</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>602.5</td>
<td>6.7</td>
</tr>
<tr>
<td>QAB26_G070450</td>
<td>Multilift 450 s</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>657.5</td>
<td>7.1</td>
</tr>
<tr>
<td>QAB26_G070500</td>
<td>Multilift 500 s</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>702.5</td>
<td>7.4</td>
</tr>
</tbody>
</table>

**Base plate (For dimensions, see page 36):**

- **H** = without base plate
  - (not suitable for pull forces)
- **I** = with external fixing plates
  - 4 counterbores
- **M** = base plate flush

## Multilift Synchro

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>max. push force [N]</th>
<th>max. pull force [N]</th>
<th>max. lifting speed [mm/s]</th>
<th>Total travel [mm]</th>
<th>Installation height incl. base plate [mm]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAB13_G080355</td>
<td>Multilift 350</td>
<td>3,000 / 2,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>8</td>
<td>355</td>
<td>565.5</td>
<td>6.4</td>
</tr>
<tr>
<td>QAB13_G080400</td>
<td>Multilift 400</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>610.5</td>
<td>6.7</td>
</tr>
<tr>
<td>QAB13_G080450</td>
<td>Multilift 450</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>665.5</td>
<td>7.1</td>
</tr>
<tr>
<td>QAB13_G080500</td>
<td>Multilift 500</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>710.5</td>
<td>7.4</td>
</tr>
<tr>
<td>QAB26_G080355</td>
<td>Multilift 350 s</td>
<td>1,000 / 1,000 (med.)</td>
<td>1,000 / 500 (med.)</td>
<td>16</td>
<td>355</td>
<td>565.5</td>
<td>6.4</td>
</tr>
<tr>
<td>QAB26_G080400</td>
<td>Multilift 400 s</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>610.5</td>
<td>6.7</td>
</tr>
<tr>
<td>QAB26_G080450</td>
<td>Multilift 450 s</td>
<td></td>
<td></td>
<td></td>
<td>452</td>
<td>665.5</td>
<td>7.1</td>
</tr>
<tr>
<td>QAB26_G080500</td>
<td>Multilift 500 s</td>
<td></td>
<td></td>
<td></td>
<td>498</td>
<td>710.5</td>
<td>7.4</td>
</tr>
</tbody>
</table>

**Base plate (For dimensions, see page 36):**

- **I** = with external fixing plates
  - 4 counterbores
- **M** = base plate flush
**Multilift – Synchronous package**

*Buying made simple – the complete plug and play system*

**Synchronous package comprises of:**
- Two Multilifts (without milled slot – version A/ with milled slot – version B)
- MultiControl duo
- 6-key hand switch (memory)
- Drawer for hand switch
- Plug & play (factory-initialised)

**Multiliftsystem Synchro**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
<th>max. push force [N]</th>
<th>max. pull force [N]</th>
<th>max. lifting speed [mm/s]</th>
<th>Total travel</th>
<th>Installation height incl. base plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>QBB13_G0_0355</td>
<td>Multiliftsystem Synchro</td>
<td>3,000</td>
<td>1,000</td>
<td>8</td>
<td>355</td>
<td>558</td>
</tr>
<tr>
<td>QBB13_G0_0400</td>
<td>Multiliftsystem Synchro</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>603</td>
</tr>
</tbody>
</table>

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

**Base plate:**
- I = with external fixing plates
- 4 counterbores
- M = base plate flush
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, galvanised

Scope of delivery:
2x adaptor bars, fixing set

Adaptor bar

Slot stones, -L- M6
4046204

BLOCAN®-Profile F 30x60 as cross strut

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q2D020020</td>
<td>Adaptor bar for BLOCAN® profiles</td>
</tr>
<tr>
<td>4285000</td>
<td>Profile* F-40 x 80-L, can be cut to specification</td>
</tr>
</tbody>
</table>

Length (clear width between the Multilifts -2 mm)

* For dimensions of the profiles, please refer to the catalogue BLOCAN PROFILE TECHNOLOGY
Multilift assembly plates / compression plate

The “top” and “bottom” assembly plates facilitate the installation of the Multilift in the customer application (no pull force).

The compression plate (or bottom assembly plate) is required if the floor cannot absorb the push forces (no pull force).

Material: Die-cast, black powder-coated galvanised fixing set

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

Note:
The “bottom” 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. These versions are defined by the Code No. (Page 35/37)

The supporting surfaces for fixing the internal and external profile must be flat. Since the drive motor is supported by the plastic housing, the entire surface of the Multilift must rest on a stable substructure. This can be achieved by using the “top” and “bottom” assembly plates, which are specially designed for this purpose, or by full-surface fixing to a solid floor.

The M8 fixing screws are bolted into the screw channels. A minimum depth bolted of 20 mm in the internal and external profile must be ensured.

In the case of repeated installation, a minimum depth of approx. 40 mm is recommended!

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>QZD020023</td>
<td>Bottom assembly plate with 4 counterbores</td>
</tr>
<tr>
<td>QZD020024</td>
<td>Bottom assembly plate with 2 counterbores</td>
</tr>
<tr>
<td>QZD020025</td>
<td>Compression plate</td>
</tr>
<tr>
<td>QZD020549</td>
<td>Top assembly plate</td>
</tr>
</tbody>
</table>

* DIN 74 - F8
Multilift – Fixing

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

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.

<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>QZD020471</td>
<td>MultiLift</td>
<td>70</td>
<td>280</td>
<td>36</td>
<td>40</td>
<td>260</td>
<td>M 10</td>
</tr>
</tbody>
</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>
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<tr>
<td>QZD020472</td>
<td>MultiLift</td>
<td>110</td>
<td>300</td>
<td>-</td>
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<td>280</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>
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<td></td>
</tr>
<tr>
<td>QZD020462</td>
<td>MultiLift</td>
<td>110</td>
<td>300</td>
<td>15-20</td>
<td>90</td>
<td>280</td>
<td>10-15</td>
<td>M 10</td>
</tr>
</tbody>
</table>
Foot

- Different foot versions for the Multilift
- No modifications to the Multilift required
- Max. load 1,000 N

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

External profile
Internal profile

Type 1

Type 5

Type 2

Distance to base

Base

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 - Fixing

### Type 3
Multilift centrally mounted (choice of internal or external profile)

### Type 4
Multilift mounted off-centre (choice of internal or external profile)

### Table: Code Numbers and Types

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
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<td>QZD020253</td>
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<td>QZD020343</td>
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</table>
### Controls

- **Transformer control 120 VA**
  - Input voltage: 230 V AC
  - Output voltage: 24 V DC
  - Approx. 24 V DC

- **MultiControl**
  - Transformer control 120 VA connection A, up to max. 3 A current output, 24 V DC
  - MultiControl mono connection A, up to max. I= 10 A current output, 24 V DC
  - MultiControl duo connection C, up to max. 12 A current output, 36 V DC
  - MultiControl quadro connection C, up to max. 12 A current output, 36 V DC
  - Approx. 36 V DC

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

### Accessories

- **Fixing plate 120 VA**, control is pushed onto the plate
- **6 m bus cable for the networking of up to 8 synchronous controls**
- **Straight connecting cable (4 m) with 5-pin connector and open cable end**
- **Extension cable 2.5 m drive for connector A/2-pin DIN socket**
- **Extension cable 2.5 m drive for connector C/8-pin DIN socket**

*for the connection of a parallel hand switch or an external potentiometer (in the case of the MultiControl mono)

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For dimensions and other technical data, please refer to the chapter „Motors and controls“
Multiplying columns

Introduction

Lifting columns

Electric cylinder

Controls & Accessories

Appendix

Areas of application

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 182.

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 182.

Note:

For further hand switch versions, please refer to the chapter "Controls" on page 146.

**Hand switches/accessories**

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<td>PLC/PC data interface</td>
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<td>QZD100110</td>
<td>Fixing plate for mounting in a control cabinet</td>
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**Code No.**

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</table>

**Accessories for hand switches**

- Bracket for hand switch: Fig. 1 + 2
- Hand switch drawer: Fig. 7 + 8
We say what we do - and do what we say!
We also say what we can’t do - and don’t do it!