Roller Guides for Lift Engineering
ACLA-Roller Guides are distinguished by a thought-out design

The ACLA-Roller Guide program consisting of many roller guides and roller sliding guides is designed for high-speed electric and hydraulic lifts.

With the roller guides the construction principle of eccentrically adjustable king pins and oblong holes enable a correct adaption to the existing rail. Depending on type of roller guide an infinitely variable adjustment to rail widths from 4 to 36 mm is possible in an easy way by means of a fixed spanner or socket wrench.

The base supports of special alloy and steel used assure an excellent stability of the complete roller guide units.

Exact dimensioning of the rollers used

The experience of ACLA-WERKE in lift engineering for many years and the know-how as manufacturer of high-quality polyurethane elastomers enable our technicians to achieve an exact dimensioning of the rollers used for the individual application.

In combination with the choice of the appropriate polyurethane elastomer the ACLA rollers proved successful in roller guide units with excellent load values on a worldwide scale.

ACLA-Roller Guides are deliverable with roller dia. from 40 to 200 mm

Rollers of ACLATHAN®

The premounted rollers of the high-quality polyurethane elastomer ACLATHAN for the lift industry offer the following advantages for the application:

- low rolling resistance
- high loading capacity
- excellent abrasion and wear resistance
- low oscillation on account of high concentricity
- silent running
- maintenance-free
- oil-resistant
- minimum compression set (flattening) after temporary standstill

ACLA-Roller Guides are deliverable with roller dia. from 40 to 200 mm

ACLA-Roller Guides for Lift Engineering
Roller Guide AR 0.1
ø 40 x 15

Design Details
- Infinitely adjustable to rail width from 4 to 19 mm in no time. A gap between roller and rail of 0.1 to 0.5 mm has to be considered.
- King pins adjustable in the oblong holes, SW 19
- The breaking limit of the base support is ca. 10 kN

Roller Guide AR 1
ø 80 x 25 to ø 125 x 25

Design Details
- Infinitely adjustable to rail width from 6 to 16 mm in no time. A gap between roller and rail of 0.1 to 0.5 mm has to be considered.
- Excentrically adjustable king pins, SW 41
- The breaking limit of the base support is ca. 40 kN

Roller Guide AR 0
ø 50 x 18 to ø 70 x 18

Design Details
- Infinitely adjustable to rail width from 5 to 25 mm in no time. A gap between roller and rail of 0.1 to 0.5 mm has to be considered.
- Excentrically adjustable king pins, SW 30
- The breaking limit of the base support is ca. 30 kN

Roller Guide AR 1B
ø 125 x 30 side rollers
ø 120 x 30 central roller

Design Details
- Infinitely adjustable to rail width from 6 to 16 mm in no time. A gap between roller and rail of 0.1 to 0.5 mm has to be considered.
- Excentrically adjustable king pins, SW 41
- The breaking limit of the base support is ca. 40 kN

*Information as to load: The load of the central roller decreases depending on the relation between rails and roller width.
ACLA roller guides: well conceived construction to the detail
### Roller Guide AR 3

**ø 150 x 40 to ø 200 x 40**

- **Design Details**
  - Infinitely adjustable to rail width from 4 to 36 mm in no time.
  - A gap between roller and rail of 0.1 to 0.5 mm has to be considered.
  - Eccentrically adjustable kingpins, SW 41.
  - The breaking limit of the base support is approx. 40 kN.

### Spring Loaded Roller Guide AR 1F

**ø 100 x 25**

- **Design Details**
  - Infinitely adjustable to rail width from 5 to 13 mm in no time.
  - Spring stroke and emergency stops are adjustable.
  - A wide range of springs is applicable (see table below).
  - Due to the execution in steel casting the breaking load of the support is considerably higher than for the Aluminium die cast supports.
  - Each roller is equipped with two ball bearings.

### Angled Roller Guide ARW 2

**ø 80 x 20**

- **Design Details**
  - For angled rails and rondles.

### Spring Loaded Roller Guide AR 3F

**ø 148 x 20**

- **Design Details**
  - Infinitely adjustable to rail width from 5 to 21 mm in no time.
  - Spring stroke and emergency stops are adjustable.
  - A wide range of springs is applicable (see table below).
  - Due to the execution in steel casting the breaking load of the support is considerably higher than for the Aluminium die cast supports.
  - Each roller is equipped with two ball bearings.

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### Spring Configuration

**Spring hardness**

- SWB 25-30: extremely hard
- SWW 25-30: hard
- SWM 25-30: middle
- SWL 25-31: soft
- SWF 25-32: extremely soft

**Color**

- brown
- green
- red
- blue
- yellow

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### Table: Roller Guide AR 3

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Ø D x b</th>
<th>Complete Weight</th>
<th>No. of Ball Bearings</th>
<th>Max. Load [N] per Roller with v nominal [m/s]</th>
<th>Mounting Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>142 836.04</td>
<td>150 x 40</td>
<td>12</td>
<td>2</td>
<td>5.48</td>
<td>1.44</td>
</tr>
<tr>
<td>142 389.04</td>
<td>200 x 40</td>
<td>16</td>
<td>2</td>
<td>6.30</td>
<td>6.09</td>
</tr>
</tbody>
</table>

*Information as to load: The load of the central roller decreases depending on the relation between rails and roller width.*
Focus on quality in ACLA production processes

Roller Sliding Guide HSM RG
with roller ø 80 x 20

<table>
<thead>
<tr>
<th>art. no.</th>
<th>rollers</th>
<th>complete weight</th>
<th>max. load [N] per roller with v nom. [m/s]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ø D x b</td>
<td>ca. kg</td>
</tr>
<tr>
<td>142 988.04</td>
<td>16</td>
<td>80 x 20</td>
<td>1.1</td>
</tr>
<tr>
<td>142 988.05</td>
<td>9</td>
<td>80 x 20</td>
<td>1.1</td>
</tr>
<tr>
<td>142 988.06</td>
<td>5</td>
<td>80 x 20</td>
<td>1.1</td>
</tr>
</tbody>
</table>

Mounting instruction: Dimension roller/sliding guide and rail a gap of 0.1 to 0.5 mm to be considered.

Design details
- Aluminium guide shoe with half a guide shoe insert of ACLASYN GR as sliding guide
- For rail widths from 5 to 16 mm

Roller Sliding Guide HSML RG
with roller ø 100 x 30 or ø 125 x 30

<table>
<thead>
<tr>
<th>art. no.</th>
<th>rollers</th>
<th>complete weight</th>
<th>max. load [N] per roller with v nom. [m/s]</th>
<th>mounting dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ø D x b</td>
<td>ca. kg</td>
<td>0.63</td>
</tr>
<tr>
<td>142 987.04</td>
<td>100 x 30</td>
<td>2.1</td>
<td>2.730</td>
<td>max. 195</td>
</tr>
<tr>
<td>142 786.04</td>
<td>125 x 30</td>
<td>2.3</td>
<td>3.800</td>
<td>max. 182.5</td>
</tr>
</tbody>
</table>

Mounting instruction: Dimension roller/sliding guide and rail a gap of 0.1 to 0.5 mm to be considered.

Design details
- Aluminium guide shoe with half a guide shoe insert of ACLASYN GR as sliding guide
- For rail widths from 5 to 19 mm

Rail width [mm] max. load [N] per roller with v nom. [m/s]

Roller Sliding Guide HSM RG
with roller ø 80 x 20

<table>
<thead>
<tr>
<th>roller ø 80 x 20</th>
<th>max. load [N] per roller with v nom. [m/s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.580</td>
<td>1.370</td>
</tr>
<tr>
<td>1.050</td>
<td>1.050</td>
</tr>
</tbody>
</table>

Mounting instruction: Dimension roller/sliding guide and rail a gap of 0.1 to 0.5 mm to be considered.
Dimensions in mm. We reserve the right to change sizes. Further dimensions and special types on request.

Our verbal or written recommendations for any application as well as tests are carried out to the best of our knowledge. They are without engagement also as far as patent rights of third parties are concerned, and do not exempt you from checking the products supplied by us for their suitability for the intended procedure and purpose. Application, use and processing of the products are outside our control, and are exclusively the responsibility of the customer. Moreover our general sales conditions apply.