**Product Description**

- Exceptionally low-noise operation
  - Polyamide or POM drive heads (alternatively made of steel)
- Replaceable drive heads for fixed and friction drives
- Fixed bearing housing for attachable drive heads
- Weight-dependent accumulation pressure and weight-dependent conveyance
  - Radial friction coupling in the conveyor roller
- Comprehensive drive versions
  - Toothed and flat belts; chain drive 1/2" Z9, Z11, Z14
- Accumulation operation with gentle accumulation pressure of medium-heavy materials to be conveyed
- Drums, tyres, boxes
- Sealed precision ball bearing (6002 2RZ)
- Series 3800 based on Series 1700
- Platform 1700

**Technical Data**

**General technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. load capacity</td>
<td>500 N</td>
</tr>
<tr>
<td>Max. conveyor speed</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-5 to +40 °C</td>
</tr>
</tbody>
</table>

**Materials**

- Bearing housing: Polyamide
- Drive head: Polyamide, POM, steel
- Friction coupling: Polyamide
- Seal: Polypropylene
- Ball bearing: Steel 6002 2RZ

The load capacity depends on the shaft version, the tube diameter, the length of the roller and the torque transmission.

**Female threaded shaft version**

<table>
<thead>
<tr>
<th>Tube material</th>
<th>Ball bearing</th>
<th>Torque transmission</th>
<th>Ø Tube mm</th>
<th>Ø Shaft mm</th>
<th>Max. load capacity in N</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>6002</td>
<td>2RZ</td>
<td>Polymer sprocket Z = 11</td>
<td>50 x 2.8</td>
<td>14</td>
<td>300 300 110 40 – – –</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 &amp; 2 polymer sprockets Z = 14</td>
<td>50 x 2.8</td>
<td>14</td>
<td>350 265 90 50 – – –</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toothed belt head Z = 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel, zinc-plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6002</td>
<td>2RZ</td>
<td>Polymer sprocket Z = 11</td>
<td>50 x 1.5</td>
<td>14</td>
<td>300 300 300 300 290 250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 &amp; 2 polymer sprockets Z = 14</td>
<td>50 x 1.5</td>
<td>14</td>
<td>500 500 500 500 500 500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toothed belt head Z = 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 &amp; 2 polymer sprockets Z = 14</td>
<td>60 x 1.5</td>
<td>14</td>
<td>500 500 500 500 500 500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toothed belt head Z = 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 &amp; 2 steel sprockets Z = 14</td>
<td>60 x 1.5</td>
<td>14</td>
<td>500 500 500 500 500 500</td>
</tr>
</tbody>
</table>

With an installation length of mm:

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>200</th>
<th>400</th>
<th>600</th>
<th>800</th>
<th>1000</th>
<th>1200</th>
<th>1400</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1200</td>
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</tr>
<tr>
<td>1400</td>
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</tbody>
</table>
FRICION
CONVEYOR ROLLER
SERIES 3800

Accumulation with gentle accumulation pressure

Product Selection

<table>
<thead>
<tr>
<th>Female threaded shaft version</th>
<th>Ball bearing</th>
<th>Shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube</td>
<td>Torque transmission</td>
<td>Reference number</td>
</tr>
<tr>
<td>Material</td>
<td>Ø mm</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>50 x 2.8</td>
<td>Polymer sprocket 1/2&quot;, Z = 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Polymer sprocket 1/2&quot;, Z = 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 polymer sprockets 1/2&quot;, Z = 14</td>
</tr>
<tr>
<td>Steel, zinc-plated</td>
<td>50 x 1.5</td>
<td>Toothed belt head</td>
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<td></td>
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<td>2 steel sprockets 1/2&quot;, Z = 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 polymer sprockets 1/2&quot;, Z = 14</td>
</tr>
</tbody>
</table>

*Adjustable friction

Example of a reference number: 3.8L7.JAA.N90 - 460

This reference number is for a Conveyor Roller Series 3800, steel, zinc-plated, Ø tube 50 mm, polymer sprocket 1/2", Z = 14, Ø shaft 14 mm, female threaded shaft and reference length 460 mm. The reference length RL can be found on the dimensioned drawing: RL = EL - 40. The axial play of the sides of 1 mm and 0.5 mm has already been taken into account. The nominal clearance of your conveyor is 500 mm, which also corresponds to the installation length EL, i.e. the reference length is: 500 - 40 = 460 mm.

<table>
<thead>
<tr>
<th>Reference length/Ordering length*</th>
<th>Installation length</th>
<th>Total length of shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL</td>
<td>EL</td>
<td>AGL</td>
</tr>
</tbody>
</table>

*The reference length/ordering length RL does not have any reference edges on the conveyor roller and can therefore not be shown.
Overview of Conveyor Rollers p 26  Fixed Drive Conveyor Roller Series 3500 p 50  Material Specification p 222  Refer to the Planning Section from p 168 onwards for help with planning and design

FRICION CONVEYOR ROLLER SERIES 3800

Accumulation with gentle accumulation pressure

Dimensions for 2 polymer sprockets 1/2", Z = 14

Dimensions for toothed belt head T = 8, Z = 18

Dimensions for steel sprocket 1/2", Z = 14

Dimensions for 2 steel sprockets 1/2", Z = 14
FRICION
CONVEYOR ROLLER
SERIES 3800

Accumulation with gentle accumulation pressure

Dimensions for steel sprocket 1/2", Z = 14 (adjustable friction)

Options
We can offer you the following options in addition to our standard products:

- Antistatic version