Extremely low-noise, dynamic, cleanroom

System T3 | E3 | E6 | E6.1
**System T3** | **System E3** | **Low-noise, dynamic, cleanroom**

Highly flexible, low-vibration band e-chain without pin and bore connection - T3
- For short strokes with extreme demands on low noise (33dB(A))
- Figures determined in the igus lab (according to DIN45635) and dynamics
- Cost-effective, modular 3-piece e-chain for high speeds and accelerations
- Very low weight
- Virtually no wear or abrasion - IPA Class 2 tested (T3.29.050.038.0)
- Inner height: 29 mm

**www.igus.eu/eu/T3**

**E3 from page 896**

Elastic, flexible connector strip, highly dynamic and suitable for cleanrooms - E3
- Extremely quiet 38dB (A) Figures determined in the igus lab (according to DIN45635)
- e-chain for minimum installation spaces with modular chain link in 3 parts
- Ideal for cables such as ribbon cables
- Virtually no wear or abrasion - IPA Class 1 tested (E3.15.040.075.0)
- For short strokes with extreme demands on low noise and dynamics
- Inner heights: 10, 15, 22 mm

**www.igus.eu/eu/E3**

**System E6** | **System E6.1** | **Low-noise, dynamic, cleanroom**

**System E6.1 from page 994**

Especially vibration-free, quiet, low abrasion and cleanroom suitable - E6.1
- Rugged and modular. Connector replaces pin and hole
- Extremely quiet 37dB(A) - Figures determined in the igus lab (according to DIN45635)
- e-chain with high stability and tensile strength with very smooth running
- Virtually no wear or abrasion - IPA Class 1 tested (E6.29.060.150.0.CR)
- 5 sizes and 3 designs available (e-chain, e-tube and light version)
- Inner heights: 29, 35, 40, 52, 62, 80 mm

**www.igus.eu/eu/E6**

Elastic, flexible connector strip, highly dynamic and suitable for cleanrooms - E3
- Extremely quiet 38dB (A) Figures determined in the igus lab (according to DIN45635)
- e-chain for minimum installation spaces with modular chain link in 3 parts
- Ideal for cables such as ribbon cables
- Virtually no wear or abrasion - IPA Class 1 tested (E3.15.040.075.0)
- For short strokes with extreme demands on low noise and dynamics
- Inner heights: 10, 15, 22 mm

**www.igus.eu/eu/E3**

E6 from page 916

Quiet running, cleanroom suitable and cost-effective - E6.1 2nd generation
- Extremely low vibration, virtually no polygon effect, thereby “even” run
- Extremely quiet through small pitch and “brake” in the stop dog system
- Virtually no wear or abrasion - IPA Class 1 tested (E6.29.050.075.0)
- e-chain with high stability and tensile strength with very smooth running
- E6.129: Crossbars swivel open on both sides and removable in the inner and outer radius
- Weight saving of approx. 30% compared to the E6 system
- Inner heights: 29, 52 mm

**www.igus.eu/eu/E6.1**

**System T3** | **System E3** | **Low-noise, dynamic, cleanroom**

**System E6** | **System E6.1** | **Low-noise, dynamic, cleanroom**

Comprehensive information for all e-chains can be found at the relevant web link.
**Advantages | Extremely low-noise, low vibration**

The extremely low-noise igus® e-chains® - T3, E3, E6 and E6.1

The e-chain® of the E3, T3, E6 and E6.1 Series have extremely good low noise and vibration performance. The special, abrasion-resistant spring elements replace the conventional pin and bore connection of the chain links enabling the low noise and vibration operation of the e-chain®. Due to the special fastening system, the e-chainsystems® have low wear or abrasion and are therefore suitable for cleanroom applications. The e-chain® Series E3, T3, E6 and E6.1 offer an extensive accessories package and are available in many dimensions off the shelf.

**Advantages | Cleanroom, non abrasion**

By eliminating the pin-hole connection, the unsupported E6 has very low abrasion and is suitable for cleanrooms

**Cleanroom qualification of igus® e-chains®**

In many applications where cumbersome special solutions are used, a simple standard e-chain® can be used instead. A comprehensive test program was devised and performed for both gliding use and unsupported use. For many applications, the e-chains® in special materials are practically abrasion-free. Detailed test results are available upon request. IPA tests confirm that standard igus® e-chains® meet cleanroom requirements. “Tested and certified as very good!” e-chains® for cleanroom applications in the test stand cleanroom environments demand very high wear resistance of moving parts. e-chains®, for example, must be very wear resistant, in order to meet normal requirements for such a sensitive environment.

**IPA Fraunhofer Institute has tested the following igus® Series according to DIN EN ISO 14644-1**

<table>
<thead>
<tr>
<th>Class per DIN</th>
<th>Equivalent to VDI 2083</th>
<th>Classification Series</th>
<th>Report Number</th>
<th>Speed [m/s]</th>
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<tbody>
<tr>
<td>ISO Class 1</td>
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<td>E6.1.29.50.075.0</td>
<td>IG 1303-640-1</td>
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</tr>
</tbody>
</table>

*special material “cleanroom”

**Comprehensive information for all e-chains® can be found at the relevant web link**

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**System E6 - extremely smooth running**

Chart: Study of the Laboratory of Machine Tools and Production Engineering (WZL) of the RWTH Aachen on “Vibration tests in energy supply chains”. Result: The “E6” energy supply system of the company igus® GmbH, Cologne, is characterized by extremely low vibration and smooth running.

---

**Comprehensive information for all e-chains® can be found at the relevant web link**
Highly flexible, low-vibration T-band e-chain® - System T3

The T3-System combines low-noise operation, low sound level, simple installation and economy. The side plates, which can be snapped together, replace the conventional pin and bore connection and prevent relative movements between the joints, giving an almost complete freedom from wear. By the novel geometrical shape of the T-band, hardly any polygon effect is generated in operation. The T-band operates in a very smooth arc, giving extremely low vibration and noise. In order to reduce the manufacturing and installation costs, the T-band is mounted in a length of 8 chain links. Due to its low mass, the igus® T-band, combined with high speeds and accelerations, is suitable for applications with low fill weights and short strokes.

Typical industries and applications

- Printer and plotter
- Cleanroom applications
- Production and processing of semiconductors
- Optics
- Automatic insertion machines
- Measuring technology

IPA Qualification Certificate - Report IG 1303-640-1:
ISO Class 2, according to DIN EN ISO 14644-1 for System T3, Series T3.29.050.038.0 at v = 0.5 m/s, 1 m/s, 2 m/s

Extremely low noise - System T3 tests in the igus® lab at 1 m measuring distance showed a value of ≈ 33 dB(A) at 26.5 dB(A) basic sound level for Series T3.29.050.038.0

Standardised modules for rotational movements with the T3 system. Various sizes available in a short time.

T3 system on the Z-axis in the positioning system. It has very low vibration and is quiet.

Content overview, selection table and assembly instructions next page
T3 | Contents | Selection Table

System T3 -
3-piece e-chains®
T-shaped band e-chains®

T3.29. 29 30 - 140 55 - 165 35 038 \( \approx 1.45 \) 888

T3 | Technical Data | Overview

- Speed / acceleration \( FLG_{\text{max}} \): max. 20 [m/s] / max. 200 [m/s²]
- Speed / acceleration \( FLB_{\text{max}} \): max. 3 [m/s] / max. 6 [m/s²]
- Material of lid - permitted temperature °C: -40° up to +70° C
- Flammability class: VDE 0304 IIIC UL94-HB

\( FLG \) = with straight upper run  \( FLB \) = with permitted sag

T3 e-chains® and modules for circular movement
T3 e-chains® for reverse bending radii (RBR) ● Several reverse bending radii ● Quiet
● Low wear ● Several mounting positions ● Complete program of interior separation of Series T3.29 ● RBR: 55, 75, 100, 150. Part No. T3.29.050.38/55, T3.29.050.38/75, T3.29.050.38/100, T3.29.050.38/150. Delivery time upon request.
More information at www.igus.eu/eu/circularmovement

T3 RBR-module for reverse bending radii
Consists of 4 elements: T3 RBR e-chain®, guiding system, chainflex®-cables, iglidur® PRT slewing ring bearing. Compact guiding module ● Turnable in inner and outer radius ● For high speeds, quiet ● Compact dimensions ● Several mounting positions.
Part No. T3.29.070.038/055. Delivery time upon request.
More information at www.igus.eu/eu/T3_assembly

Available from stock. Delivery time* in 24h or today!
*Delivery time means time until shipping of goods (after technical release)

Assembly video available online at www.igus.eu/eu/T3_assembly
**T3 | Configuration options and order key**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Reverse bending radius for circular movements</th>
<th>ATEX/ESD classified e-chains® - *II 2 GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No. Standard</td>
<td>Part No. NC-Version (no camber) without pretension</td>
<td>Part No. RBR</td>
</tr>
<tr>
<td>T3.29.100.R.0</td>
<td>T3.29.100.R0.NC</td>
<td>T3.29.100.R0.R2.0</td>
</tr>
</tbody>
</table>

**Delivery time* 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

---

**Order example | Order key and color options**

**Order example for complete e-chain® (1.0 m), color black, mounting brackets and interior separation**

<table>
<thead>
<tr>
<th>e-chain® (1.0 m)</th>
<th>Please indicate e-chain® length or number of links: 1.0 m or 67 links</th>
<th>T3.10.100.038.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ Mounting brackets</td>
<td>1 set (+ tie-wrap plates)</td>
<td>T3.100.12</td>
</tr>
<tr>
<td>+ Interior separation</td>
<td>with 2 separators assembled every 2nd link</td>
<td>2 x 29.1.1</td>
</tr>
</tbody>
</table>

**Order text:** 1.0 m T3.29.100.038.0 + T3.100.12 + 2 x 29.1.1

---

**Order key**

T3.29.100.038.0

<table>
<thead>
<tr>
<th>Standard color black</th>
<th>Bending radius R</th>
<th>Width index</th>
<th>Series / Type</th>
</tr>
</thead>
</table>

**Color options for e-chains® and e-tubes**

<table>
<thead>
<tr>
<th>Color</th>
<th>Order index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>0</td>
</tr>
<tr>
<td>Slate grey</td>
<td>1</td>
</tr>
<tr>
<td>Gray</td>
<td>15</td>
</tr>
<tr>
<td>Orange</td>
<td>2</td>
</tr>
<tr>
<td>Yellow</td>
<td>4</td>
</tr>
<tr>
<td>Dusty grey</td>
<td>3</td>
</tr>
<tr>
<td>Light grey</td>
<td>14</td>
</tr>
</tbody>
</table>

**Available from stock. Delivery time* in 24 or today!**

*Delivery time means time until shipping of goods (after technical release)

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**T3 | Application**

Perfect match. Cleanroom-suitable igus® chainflex® cables are safely guided in the T3 e-chain®

---

3D-CAD files, configurators, PDF, applications www.igus.eu/eu/T3.29

igus® GmbH Germany | Phone +49 2203 9649-800 | Fax -222 | info@igus.de | www.igus.eu
Supported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height \( H_F \). Please consult igus® if space is particularly restricted. More information ▶ Design, page 95

**Highly flexible, low-vibration, T-shaped band e-chain**

When to use Series T3.29:
- If a particularly low weight, cost-effective e-chain® with an inner height of 29 mm is required
- Inner widths up to 140 mm
- For unsupported lengths up to 1,45 m and fill weights up to 1,0 kg/m
- At very high speeds and accelerations
- Hardly any polygon effect
- For small bending radii and small spaces
- If easy filling and assembly is required
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- If an e-chain® for more fill weight is required ▶ Series E61.29, page 1002
- If an enclosed e-chain® for low noise operation is required ▶ Series R6.29, page 928

**Technical Data**

<table>
<thead>
<tr>
<th>Speed, material, temperature and flammability class</th>
<th>page 884</th>
</tr>
</thead>
</table>

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/T3.29

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---

**Dimensions**

**Unsupported**

**Example**
Fill weight = 0,5 [kg/m]
Unsupported length \( L_{FLg} = 1,2 m\)
Length of travel \( S = 2,4 m\)

\[ H_F = H + 40 \text{ mm} \]

<table>
<thead>
<tr>
<th>( R ) (min.)</th>
<th>038</th>
</tr>
</thead>
<tbody>
<tr>
<td>( H ) (min.)</td>
<td>216</td>
</tr>
<tr>
<td>( D )</td>
<td>111</td>
</tr>
<tr>
<td>( K )</td>
<td>210</td>
</tr>
</tbody>
</table>

The required clearance height: \( H_F = H + 40 \text{ mm} \) (with 1,0 kg/m fill weight)

\( FLg = \) with straight upper run \( S = \) Length of travel \( H = \) Nominal clearance height \( R = \) Bending radius \( H_F = \) Required clearance height \( D = \) Overlength e-chain®, radius in final position \( R = R + 15 \) "safety"

---

**Pitch** = 15 mm/link

**Links/m** = 67 (1005 mm)

**Chain length** = \( \frac{S}{2} + K \)
**Series T3.29 | T-shaped band e-chain® | Operable along inner and outer radius**

<table>
<thead>
<tr>
<th>e-chain® operable along outer radius</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R Bending radii [mm]</th>
<th>Weight [kg/m]</th>
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</thead>
<tbody>
<tr>
<td>T3.29.030.R.0</td>
<td>30</td>
<td>55</td>
<td>038</td>
<td>≈ 0.40</td>
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<td>65</td>
<td>038</td>
<td>≈ 0.42</td>
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<td>75</td>
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<td>85</td>
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<td>≈ 0.46</td>
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<td>105</td>
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<td>T3.29.100.R.0</td>
<td>100</td>
<td>125</td>
<td>038</td>
<td>≈ 0.53</td>
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<tr>
<td>T3.29.110.R.0</td>
<td>110</td>
<td>135</td>
<td>038</td>
<td>≈ 0.55</td>
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<tr>
<td>T3.29.120.R.0</td>
<td>120</td>
<td>145</td>
<td>038</td>
<td>≈ 0.57</td>
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<td>T3.29.140.R.0</td>
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<td>165</td>
<td>038</td>
<td>≈ 0.59</td>
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</tbody>
</table>

Supplement Part No. with required radius (R), example: T3.29.100.038.0

**Order key**

T3.29, 100, 038, 0 e-chain®

- Standard color black
- Bending radius R
- Width index depends on Bi

**Configuration options and order keys, overview** → page 886

- Available from stock. Delivery time* in 24h or today!
  - Delivery time means time until shipping of goods (after technical release)

---

**Series T3.29 | Interior separation | New in this catalog**

**New generation interior separation**

**Note:** Please observe a lateral spacing of 1 mm to the side links.

In the standard configuration separators are assembled every 2nd e-chain link!

**Standard - for all applications**

Separator with a wide base for maximum locking strength and safe standing in e-chains.

**For even faster installation**

Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (light grip).

**Locks safely in 2 mm increments**

Notch separator for exact positioning in e-chains. Recommended for side-mounted applications.

**Horizontal separation**

Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

**Lockable full-width shelves - for the standard interior separation**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
<th>Width X [mm]</th>
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<td>2310.080</td>
<td>125</td>
<td>2300.125</td>
<td>2310.125</td>
</tr>
</tbody>
</table>

**Interior separation with single-part order. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**Previous interior separation**

All elements of the previous interior separation can still be ordered [www.igus.eu/eu/T3.29](http://www.igus.eu/eu/T3.29)

**Middle plate E6.29.12**

To achieve a modular shelving the shelf 2200.X can be arranged at 5 different heights (in 5 mm increments).

**Side plate E6.29.03**

Works like middle plate. Allows modular shelving close to the side links. No lateral spacing necessary!

**Shelf 2200.X**

For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 5 different heights (in 5 mm increments).

**Slotted separator E6.29.01**

Is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Notch separator, slotted E6.29.01.R**

Locks safely in 2 mm increments. Notch separator for exact positioning in e-chains. Slipping of the separator during operation is therefore impossible.

**Full-width shelf 110.X**

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

---

**Separator with integrated strain relief**

Strain relief separator Part No. E6.29.02.Z can be integrated into the mounting bracket and can be placed there at any point of the e-chain. It combines strain relief and interior separation. For the use in the first or last chain link it is easy to assemble without any screws. More information from page 1170

---

**Full-width shelves**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
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<th>assembled</th>
</tr>
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<tbody>
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<table>
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<td>111.100</td>
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</table>

**Shelves**

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<th>assembled</th>
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</thead>
<tbody>
<tr>
<td>018</td>
<td>2200.18</td>
<td>2210.18</td>
</tr>
<tr>
<td>023</td>
<td>2200.23</td>
<td>2210.23</td>
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<td>028</td>
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<td>2200.33</td>
<td>2210.33</td>
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<table>
<thead>
<tr>
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<td>068</td>
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<td>2210.68</td>
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<tr>
<td>073</td>
<td>2200.73</td>
<td>2210.73</td>
</tr>
</tbody>
</table>

---

**Interior separation with single-part order. Delivery time in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)*

---

**Separator with integrated strain relief**

**Interior separation with single-part order. Delivery time in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)*
### Plastic fastener | Mounting angle

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. full set with tiewrap plate</th>
<th>Part No. full set without tiewrap plate</th>
<th>Bi [mm]</th>
<th>Dim. B [mm]</th>
<th>Number of teeth</th>
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<tbody>
<tr>
<td>030</td>
<td>T3.29.030.12PZ</td>
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<td>3</td>
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<tr>
<td>040</td>
<td>T3.29.040.12PZ</td>
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<tr>
<td>060</td>
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<tr>
<td>070</td>
<td>T3.29.070.12PZ</td>
<td>T3.29.070.12</td>
<td>70</td>
<td>15+20</td>
<td>7</td>
</tr>
<tr>
<td>080</td>
<td>T3.29.080.12PZ</td>
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<td>090</td>
<td>T3.29.090.12PZ</td>
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<tr>
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<td>T3.29.110.12PZ</td>
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<tr>
<td>120</td>
<td>T3.29.120.12PZ</td>
<td>T3.29.120.12</td>
<td>120</td>
<td>40+40</td>
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</tr>
<tr>
<td>140</td>
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<td>T3.29.140.12</td>
<td>140</td>
<td>60+40</td>
<td>14</td>
</tr>
</tbody>
</table>

**Possible installation conditions for T3 mounting brackets.**

**Strain relief, e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148.**
igus® E3
Highly dynamic & cleanroom suitable
**Highly dynamic and cleanroom compatible - System E3**

E3 combines small pitch, smooth running, low noise, easy assembly and cost efficiency all in one. The spring connector element replaces the pin and bore principle and avoids relative movements between the joints. This means virtually no wear or abrasion. To reduce production and assembling costs, the spring connector is not mounted individually, but on a length of ten e-chain® links. Another E3 option is safe performance. A modified spring element made of electrically conductive material, which connects the e-chain® links mechanically and electrically, permanently guaranties constant electrical conductance, even at high bending stress and in any position.

**Typical industries and applications**
- Semi-conductor manufacturing and handling
- Pick and place robots
- Optics
- Materials handling technology
- Measuring technology
- Printers and plotters
- Cleanroom environments
- General mechanical engineering

IPA Qualification Certificate - Report IG 0704-400
ISO Class 1, according to DIN EN ISO 14644-1
for System E3, Series E3.15.040.075.0
at v = 0.5 m/s, 1 m/s, 2 m/s

38 dB(A) - Value determined at the igus®
test lab acc. to DIN 45635, with consideration of background noises, E3.22.060.044.0
at v = 1.8 m/s

ESD classification: Electrically conductive
ESD/ATEX version upon request

Long-term tests in our acoustics laboratory at a speed of 1.8 m/s and an acceleration of 3 m/s² showed reductions of 19-20 dB(A) compared to conventional e-chains®.

During long-term tests the System E3 with the spring band connector easily passes 15 million cycles at a bending radius of 44 mm and an acceleration of 4 g.
**Contents**

**Selection Table**

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bending radius</th>
<th>Unsupported length max.</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3.10</td>
<td>10</td>
<td>20 - 60</td>
<td>32 - 72</td>
<td>15</td>
<td>15 - 48</td>
<td>≈ 0,70</td>
<td>904</td>
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<tr>
<td>E3.15</td>
<td>15</td>
<td>20 - 60</td>
<td>32 - 72</td>
<td>20</td>
<td>32 - 75</td>
<td>≈ 0,90</td>
<td>908</td>
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<tr>
<td>E3.22</td>
<td>22</td>
<td>20 - 60</td>
<td>32 - 72</td>
<td>27</td>
<td>44 - 75</td>
<td>≈ 1,20</td>
<td>912</td>
</tr>
</tbody>
</table>

**System E3 - 3-piece e-chains**

Zip-open along outer radius

---

**Assembly Instructions**

1. Rip open the opening strip

2. Separate connector strip at any point or separate at the parting of the strip (approximately every 10th link) of the e-chain

3. Turn the e-chain apart, so that the interlocking of the chain links detaches

4. Separated e-chain can be shortened or lengthened

---

**Technical Data**

**Overview**

- **FLG**
  - Speed / acceleration FLG max.: max. 20 [m/s] / max. 200 [m/s²]
  - FLGmax.
  - FLGmax.

- **FLB**
  - Speed / acceleration FLB max.: max. 3 [m/s] / max. 6 [m/s²]
  - FLBmax.
  - FLBmax.

- Material lidl - permitted temperature °C: -40° up to +70° C
  - FLmax. with straight upper run
  - FLmax. with permitted sag

- Flammability class: VDE 0304 IIC UL94-HB

---

**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**Configuration options and order key** (based on Series E3.15)

<table>
<thead>
<tr>
<th>Standard</th>
<th>NC-Version - (no camber) without pretension</th>
<th>ATEX/ESD classified e-chains* - II 2 GD</th>
</tr>
</thead>
</table>

**Order example | Order key and color options**

**Order example for complete e-chain** Series E3.15 (1,0 m), color black, mounting brackets and interior separation

- **e-chain** (1,0 m) Please indicate e-chain length or number of links: 1,0 m or 60 links: E3.15.060.032.0
- **+ Mounting brackets** 1 set (+-tiewrap plates): E3.060.12
- **+ Interior separation** with 2 separators assembled every 2nd link: 2 x E3.15.11

**Order text**: 1,0 m E3.15.060.038.0 + E3.060.12 + 2 x E3.15.11

**Order key** E3.15.060.038.0

**Color options for e-chains® and e-tubes**

<table>
<thead>
<tr>
<th>Color</th>
<th>Order index</th>
<th>Color</th>
<th>Order index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>0</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>Slate grey</td>
<td>.0</td>
<td>Grey white</td>
<td>.15</td>
</tr>
<tr>
<td>Gray brown</td>
<td>.0</td>
<td>Orange</td>
<td>.2</td>
</tr>
<tr>
<td>Gray special color</td>
<td>.3</td>
<td>Yellow</td>
<td>.4</td>
</tr>
<tr>
<td>Dusty grey special</td>
<td>.31</td>
<td>Light grey special</td>
<td>.14</td>
</tr>
</tbody>
</table>

**Available from stock. Delivery time® in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)*

---

**Application**

igus® Series E3.15 side-mounted in a flat-bed scanner

---

Black e-chains available from stock!

Delivery time® for special colors: from 5 work days
**Introduction**

**Highly dynamic and cleanroom suitable**

- **When to use Series E3.10:**
  - If an e-chain® with an inner height of 10 mm is required
  - Inner widths up to 60 mm
  - For unsupported lengths up to 0.70 m and fill weights up to 0.3 kg/m
  - At very high speeds and/or accelerations
  - Small pitch for smooth running
  - If easy filling and assembly is required
  - Minimal abrasion (e.g. cleanroom applications)

- **When to use a different igus® Series:**
  - If a particularly cost-effective, snap-open solution is required
    - Series E/Z06 easy chain®, page 168
  - If a simple, non-snap-open e-chain® is required
    - Series 05 E2 micro, page 314

**Dimensions**

- **Pitch:** = 16.7 mm/link
- **Links/m:** = 60 (1002 mm)
- **Chain length:** = \( S/2 + K \)

**Supported applications**

- Universal: KMA all-sides attachment or mounting angle
- **Low-noise 38dB(A):**
  - Small pitch for smooth running
- **Flexible:**
  - Easy shortening and lengthening
- **Fast opening:**
  - Zip-open mechanism along outer radius
- **Modular design:**
  - Crossbars, interior separation and links all in one band
- **Dynamic:**
  - For high speeds and high accelerations
- **Cleanroom:**
  - Virtually no wear or abrasion

**Available from stock. Delivery time® in 24h or today!**

- Delivery time means time until shipping of goods (after technical release)

**Technical Data**

**Moving end**

- **Fixed end**

**Supported lengths**

- **FLG:** with straight upper run
- **FLB:** with permitted sag

**Length of travel**

- **S:** Length of travel
- **H:** Nominal clearance height
- **HF:** Required clearance height
- **D:** Overlength e-chain®, radius in final position

**K:** = + R + “safety”

**The required clearance height:** \( H_F = H + 50 \text{ mm} \) (with 0.1 kg/m fill weight)
### e-chain® Series E3.10 | Zip-open along outer radius

<table>
<thead>
<tr>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R [mm]</th>
<th>Weight [kg/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>32</td>
<td>0.15</td>
<td>0.020</td>
</tr>
<tr>
<td>40</td>
<td>52</td>
<td>0.15</td>
<td>0.020</td>
</tr>
<tr>
<td>60</td>
<td>72</td>
<td>0.15</td>
<td>0.020</td>
</tr>
</tbody>
</table>

*Radius available upon request, please consult igus® for delivery time.

Supplement Part No. with required radius (R), example: E3.10.060.015.0

### Order key

**E3.10.060.015.0**

**Standard color black**

**Bending radius R**

**Width index (depends on Bi)**

**Series / Type**

### Configuration options and order keys, overview ➤ page 902

**Available from stock. Delivery time** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)*

---

### KMA mounting bracket | Optional: Polymer mounting angle

For unsupported applications

#### Fixed end

**E3.10...2**

**Moving end**

**E3.10...1**

**View**

Mounting angle

**View**

KMA mounting bracket

**View**

### KMA mounting bracket | Optional: Polymer mounting angle

For unsupported applications

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>0.020</td>
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<td>56</td>
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<tr>
<td>0.060</td>
<td>E3.100.060.12</td>
<td>68</td>
<td>76</td>
<td></td>
</tr>
</tbody>
</table>

#### Part No.

- **Full set**
- **KMA mounting bracket**
- **Part No. mounting angle**
- **Part No. strain relief for both sides**
- **Part No. full set strain relief for both sides + 2 mounting angles**


### KMA mounting bracket | Optional: Polymer mounting angle

#### Moving end

**E3.10...1**

**View**

KMA mounting bracket

**View**

### Interior separation

#### Slotted separator E3.10.01

Vertical separators are used if a vertical subdivision of the e-chain® interior is required.

---

*igus® GmbH Germany | Phone +49 2203 9649-800 | Fax -222 | info@igus.de | www.igus.eu*
E3 e-chains® Series E3.15

Introduction

Highly dynamic and cleanroom suitable

When to use Series E3.15:
- If an e-chain® with an inner height of 10 mm is required
- Inner widths up to 60 mm
- For unsupported lengths up to 0.90 m and fill weights up to 0.7 kg/m
- At very high speeds and/or accelerations
- Small pitch for smooth running
- If easy filling and assembly is required
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- If a particularly cost-effective, snap-open solution is required
  - Series E/206 easy chain®, page 168
- If a simple, non-snap-open e-chain® is required
  - Series 05 E2 micro, page 314

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

3D-CAD files, configurators, PDF ▶️ www.igus.eu/eu/E3.15

E3 e-chains® Series E3.15

Dimensions

Unsupported

Universal:
KMA all-sides attachment or mounting angle

Low-noise 38dB(A):
Small pitch for smooth running

Flexible:
Easy shortening and lengthening

Fast opening:
Zip-open mechanism along outer radius

Modular design:
Crossbars, interior separation and links all in one band

Dynamic:
For high speeds and high accelerations

Cleanroom ISO Class 1½:
Virtually no wear or abrasion

Pitch = 16.7 mm/link
Links/m = 60 (1002 mm)
Chain length = S/2 + K

The required clearance height: \( H_R = H + 50 \) mm (with 0.2 kg/m fill weight)

<table>
<thead>
<tr>
<th>R</th>
<th>032</th>
<th>038</th>
<th>048</th>
<th>075</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>99</td>
<td>111</td>
<td>131</td>
<td>185</td>
</tr>
<tr>
<td>D</td>
<td>67</td>
<td>73</td>
<td>83</td>
<td>110</td>
</tr>
<tr>
<td>K</td>
<td>135</td>
<td>155</td>
<td>185</td>
<td>270</td>
</tr>
</tbody>
</table>

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height \( H_F \). Please consult igus® if space is particularly restricted. More information ▶️ Design, page 95

igus® GmbH Germany | Phone +49 2203 9649-800 Fax -222 | info@igus.de | www.igus.eu
### e-chain® | Series E3.15 | Zip-open along outer radius

<table>
<thead>
<tr>
<th>e-chain® zip-open along outer radius</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R Bending radii</th>
<th>Weight [kg/m]</th>
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</thead>
<tbody>
<tr>
<td>E3.15.020.R.0</td>
<td>20</td>
<td>32</td>
<td>032</td>
<td>048</td>
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<tr>
<td>E3.15.040.R.0</td>
<td>40</td>
<td>52</td>
<td>032</td>
<td>038</td>
</tr>
<tr>
<td>E3.15.060.R.0</td>
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<td>72</td>
<td>032</td>
<td>038</td>
</tr>
</tbody>
</table>

*Radius available upon request, please consult igus® for delivery time.

Supplement Part No. with required radius (R), example: E3.15.060.R.02

#### Order key

**E3.15.060.032.0** e-chain®

- **Bi**: Standard color black
- **Ba**: Bending radius R
- **Width index (depends on Bi)**: Series / Type

**Configuration options and order keys, overview page 902**

**Available from stock. Delivery time® in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)*

---

### KMA mounting bracket or mounting angle

**KMA mounting bracket | Optional: Polymer mounting angle**

For unsupported applications

- **Width index**
  - **Part No.**
  - **New in this catalog**
  - **Dim. A [mm]**
  - **Dim. B [mm]**

- **Part No.**
  - **Mounting angle (single part)**
  - **strain relief for both sides**
  - **+ 2 mounting angles**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>E3.150.020.12</td>
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<td>36</td>
<td>E3.15.00</td>
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<td>E3.15.020.12</td>
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<td>040</td>
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<td>76</td>
<td>E3.15.00</td>
<td>E3.060.12</td>
<td>E3.15.060.12</td>
<td></td>
</tr>
</tbody>
</table>

**E3.15.XXX.12** - E3 with strain relief for both sides and mounting angles

**E3.00.020** - Strain relief for both sides as single parts

**E3.15.00** - Mounting angle

**E3.15.01.01** - Slotted separator for e-chains® unassembled E3.15.01 assembled E3.15.11

**E3.15.01.10** - Slotted separator on a strip unassembled E3.15.01.10 assembled E3.15.11.10

**E3.15.00.12** - Slotted separator E3.15.01 - vertical separators are used if a vertical subdivision of the e-chain® interior is required.

**E3.15.00.12** - Slotted separator on a strip E3.15.01.10 - five vertical separators altogether on one strip over ten e-chain® links are mounted on the opening crossbars. In this way separate chambers are formed, protecting the cables. Dimensions same as E3.15.01.
Highly dynamic and cleanroom suitable

When to use Series E3.22:
- If an e-chain® with an inner height of 10 mm is required
- Inner widths up to 60 mm
- For unsupported lengths up to 1.20 m and fill weights up to 0.9 kg/m
- At very high speeds and/or accelerations
- Small pitch for smooth running
- If easy filling and assembly is required
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- If a particularly cost-effective, snap-open solution is required
- Series E/Z06 easy chain®, page 168
- If a simple, non-snap-open e-chain® is required
- Series 05 E2 micro, page 314

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height HF. Please consult igus® if space is particularly restricted. More information ➤ Design, page 95

### Technical Data

- **Pitch:** 16.7 mm/link
- **Links/m:** 60 (1002 mm)
- **Chain length:** \( \frac{S}{2} + K \)

The required clearance height: \( H_F = H + 50 \text{ mm} \) (with 0.3 kg/m fill weight)
e-chain® | Series E3.22 | Zip-open along outer radius

<table>
<thead>
<tr>
<th>e-chain®</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R [mm]</th>
<th>Weight [kg/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 20</td>
<td>32</td>
<td>044</td>
<td>050</td>
<td>075</td>
</tr>
<tr>
<td>Bi 40</td>
<td>52</td>
<td>044</td>
<td>050</td>
<td>075</td>
</tr>
<tr>
<td>Bi 60</td>
<td>72</td>
<td>044</td>
<td>050</td>
<td>075</td>
</tr>
</tbody>
</table>

KMA mounting bracket or mounting angle

<table>
<thead>
<tr>
<th>Fixed end</th>
<th>Moving end</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3.22......2</td>
<td>E3.22....1</td>
</tr>
</tbody>
</table>

KMA mounting bracket | Optional: Polymer mounting angle

For unsupported applications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>.020.</td>
<td>E3.220.020.12</td>
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<td>36</td>
</tr>
<tr>
<td>.040.</td>
<td>E3.220.040.12</td>
<td>48</td>
<td>56</td>
</tr>
<tr>
<td>.060.</td>
<td>E3.220.060.12</td>
<td>68</td>
<td>76</td>
</tr>
</tbody>
</table>

Configuration options and order keys, overview ➤ page 902

Options and order keys:
- Full set: E3.220.XXX.12
- Mounting angle: E3.22.00
- Strain relief for both sides: E3.00.XXX.12

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)
System E6
extremely low-noise, minimum vibration and abrasion, cleanroom suitable
Extremely low-noise, minimum vibration and abrasion, clean room suitable - System E6

The E6 Series offers numerous advantages in addition to long life cycles. It provides extremely quiet, low-vibration operation. It minimizes the polygon effect which can occur during the rolling motion of an e-chain. The ultra-low noise levels have been confirmed in a recent report by the Rheinland Technical Inspection Agency. Our extensive delivery program offers the right chain size for any application; a wide range of interior separators are also available. The same applies to the mounting brackets.

Typical industries and applications
- Cleanroom
- Printing machines
- Handling & robot
- Machine Tools
- Measuring machines
- Semiconductor industries
- Medical industries
- Electronic industries
- General machinery

37dB(A) - Values determined at the igus® test-lab, (v = 1.8 m/s), Series E6.29.080.075.0

System E6 - 6-piece e-chains®-links

LEVEL 1 absorption confirmed by IPA-Fraunhofer-Institut according to SEMI E78-0998 for the E6 standard material. Special material "igumid ESD" for ESD/ATEX applications available on request. Continuously constant conductance value as there are no pin-bore connection

IPA Qualification Certificate - Report IG 0704-400:
ISO Class 1, according to DIN EN ISO 14644-1 for System E6, Series E6.29.060.150.0.CR
at v = 0.5 m/s, 2 m/s

A linear drive provides for highly dynamic feed of PCBs. This system is twice as fast as handling units with a toothed-belt drive; designed to withstand high dynamic loads, the E6 e-chains® ensure a supply of power, coolant and control data with ultra-low noise and vibration.

Nested e-chains® reduce vibrations and improve milling accuracy Series E6.80

System E6 in a pick and place robot. Handles injection molded CD covers in a split second: Tool open gripper in..., tool closed - all in 0.25 seconds, speed 8m/s, acceleration: 78.5 m/s²
**Cleanroom qualification of E6 e-chains**

In many applications where cumbersome special solutions are used, a simple standard e-chain can be used instead. A comprehensive test program was devised and performed for both gliding use and unsupported use. For many applications, the e-chains in special materials are practically abrasion-free. Detailed test results are available upon request. IPA tests confirm that standard igus® e-chains meet cleanroom requirements. “Tested and certified as very good” e-chains for cleanroom applications in the test stand cleanroom environments demand very high wear resistance of moving parts, e-chains, for example, must be very wear resistant, in order to meet normal requirements for such a sensitive environment.

IPA Qualification Certificate - Report IG 0704-400:
- Special material “cleanroom” - ISO Class 1, according to DIN EN ISO 14644-1 for Series E6.29.060.150.0.CR at v = 0.5 m/s, 2.0 m/s
- Standard material - ISO Class 3, according to DIN EN ISO 14644-1 for Series E6.29.060.150.0 at v = 0.5 m/s, 2.0 m/s and Series E6.29.060.150.0 with inserted cables CF34.15.04, CF9.05.12, CF11.02.01.02.PBA.LC.D

---

### Selected noise tests - External noise corrected measurement values

<table>
<thead>
<tr>
<th>e-chain Series</th>
<th>Averaging of the corrected sound pressure levels</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>igus® Series E6.29*</td>
<td>~ 37 dB(A)</td>
<td>unsupported v = 1.0 m/s</td>
</tr>
<tr>
<td>igus® Series E6.52*</td>
<td>~ 41 dB(A)</td>
<td>unsupported, side mounted v = 0.5 m/s</td>
</tr>
<tr>
<td>igus® Series E6.52</td>
<td>~ 46 dB(A)</td>
<td>unsupported v = 2.0 m/s</td>
</tr>
<tr>
<td>Chain 1 Third-party product</td>
<td>~ 77 dB(A)</td>
<td>unsupported v = 2.0 m/s</td>
</tr>
<tr>
<td>Chain 2 Third-party product</td>
<td>~ 68 dB(A)</td>
<td>unsupported v = 2.0 m/s</td>
</tr>
<tr>
<td>Chain 3 Third-party product</td>
<td>~ 73 dB(A)</td>
<td>unsupported v = 2.0 m/s</td>
</tr>
</tbody>
</table>

**Noise level ≤ 37 dB(A)** - A measurement conducted by the Rhineland Technical Inspection Authority (TÜV Rheinland) in May 2002 indicates a value of ≤ 46 dB(A) at 2 m/s and with an unsupported length of 1.5 m with Series E6.52.100.100.0, and all this with at least 10 dB(A) sound pressure level generated by external noise. We have received an official noise certificate from the Rhineland Technical Inspection Authority (TÜV Rheinland Berlin Brandenburg) and we are happy to provide you with a copy upon request. A measurement in the igus® laboratory gave a value of 37 dB(A) for series E6.29.080.075.0 at v = 1.0 m/s unsupported.

IPA Qualification Certificate - Report IG 0704-400:
- Special material “cleanroom” - ISO Class 1, according to DIN EN ISO 14644-1 for Series E6.29.060.150.0.CR at v = 0.5 m/s, 2.0 m/s
- Standard material - ISO Class 3, according to DIN EN ISO 14644-1 for Series E6.29.060.150.0 at v = 0.5 m/s, 2.0 m/s and Series E6.29.050.055.0 with inserted cables CF34.15.04, CF9.05.12, CF11.02.01.02.PBA.LC.D

---

By eliminating the pin-hole connection, the unsupported E6 has very low abrasion and is suitable for cleanrooms.

---

**Noise test in the igus® laboratory 40dB(A) E6.29.100.100.0 series for long travel paths, v = 2 m/s**
### Contents Selection Table

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height hi [mm]</th>
<th>Inner width bi [mm]</th>
<th>Outer width ba [mm]</th>
<th>Outer height ha [mm]</th>
<th>Bending radius R [mm]</th>
<th>Unsupported length max. [m]</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.29</td>
<td>29</td>
<td>30 - 140</td>
<td>46 - 156</td>
<td>35</td>
<td>55 - 150</td>
<td>≈ 1.75</td>
<td>928</td>
</tr>
<tr>
<td>E6.35</td>
<td>35</td>
<td>30 - 140</td>
<td>50 - 160</td>
<td>42</td>
<td>55 - 100</td>
<td>≈ 1.90</td>
<td>938</td>
</tr>
<tr>
<td>E6.40</td>
<td>40</td>
<td>40 - 300</td>
<td>60 - 320</td>
<td>54</td>
<td>63 - 200</td>
<td>≈ 2.75</td>
<td>946</td>
</tr>
<tr>
<td>E6.52</td>
<td>52</td>
<td>40 - 300</td>
<td>64 - 324</td>
<td>65</td>
<td>75 - 250</td>
<td>≈ 3.00</td>
<td>956</td>
</tr>
<tr>
<td>E6.62</td>
<td>62</td>
<td>50 - 400</td>
<td>86 - 436</td>
<td>84</td>
<td>115 - 350</td>
<td>≈ 4.00</td>
<td>966</td>
</tr>
<tr>
<td>E6.80L</td>
<td>80</td>
<td>87 - 550</td>
<td>115 - 578</td>
<td>108</td>
<td>175</td>
<td>≈ 2.50</td>
<td>976</td>
</tr>
<tr>
<td>E6.80</td>
<td>80</td>
<td>50 - 600</td>
<td>100 - 650</td>
<td>108</td>
<td>150 - 450</td>
<td>≈ 5.25</td>
<td>984</td>
</tr>
</tbody>
</table>

---

**Crossbars every 2nd link - the E6 e-chain® standard**

Crossbars removable along both radii

**Fully enclosed e-tubes**

Enclosed design protects from light debris, weld splatter and compromising environmental influences

---

1. Position side links, gently twist and snap in.
2. Position crossbars, push down and snap in.
3. Lever crossbars with screwdriver:
   -Tap gently to remove connectors...
   -...twist and separate side links

---

- **Technical Data, overview** ▶ page 924
- **e-chain® links as single parts, overview** ▶ page 925
- **Configuration options and order keys, overview** ▶ page 926
E6 | Technical Data | Overview

**Technical Data - E6**

- **Gilding speed / acceleration (maximum)**: upon request
- **Speed / acceleration FLG max.**
  - max. 20 [m/s] / max. 200 [m/s²]
- **Speed / acceleration FLB max.**
  - max. 3 [m/s] / max. 6 [m/s²]
- **Material - permitted temperature °C**: -40° up to +70° C
- **Flammability class**: VDE 0304 IIC UL94-HB

**Installation methods overview, maximum travels - E6**

<table>
<thead>
<tr>
<th>e-chain® Series</th>
<th>Unsupported application</th>
<th>Gilding application</th>
<th>Vertical hanging</th>
<th>Vertical standing</th>
<th>Side mounted unsupported</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.29 / R6.29</td>
<td>≤ 1,75 m</td>
<td>upon request</td>
<td>≤ 30 m</td>
<td>≤ 2,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.35</td>
<td>≤ 1,90 m</td>
<td>upon request</td>
<td>≤ 30 m</td>
<td>≤ 2,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.40 / R6.40</td>
<td>≤ 2,75 m</td>
<td>upon request</td>
<td>≤ 30 m</td>
<td>≤ 2,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.52 / R6.52</td>
<td>≤ 3,00 m</td>
<td>upon request</td>
<td>≤ 50 m</td>
<td>≤ 2,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.62</td>
<td>≤ 4,00 m</td>
<td>upon request</td>
<td>≤ 60 m</td>
<td>≤ 3,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.80L</td>
<td>≤ 2,50 m</td>
<td>upon request</td>
<td>≤ 60 m</td>
<td>≤ 4,0 m</td>
<td>upon request</td>
</tr>
<tr>
<td>E6.80</td>
<td>≤ 5,25 m</td>
<td>upon request</td>
<td>≤ 60 m</td>
<td>≤ 4,0 m</td>
<td>upon request</td>
</tr>
</tbody>
</table>

1) In special cases, gilding applications are also possible, please consult igus®.

---

**Technical Data - E6**

- **Part No. 6-piece e-chain® links as single parts - E6**

<table>
<thead>
<tr>
<th>Series</th>
<th>Crossbar®</th>
<th>Lid®</th>
<th>Bottom®</th>
<th>Side link left®</th>
<th>Side link right®</th>
<th>Polymer spring e-chain®/e-tube</th>
</tr>
</thead>
</table>

1) Crossbar / lid / bottom - supplement Part No. with required width index (Bi), example: E6.52.Bi
2) Side link- supplement Part No. with required radius (R), example: E6.52.01.R

---

**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**Configuration options and order key** (based on Series E6.62)

<table>
<thead>
<tr>
<th>Part No. Standard</th>
<th>QuickLock crossbar&lt;sup&gt;1)&lt;/sup&gt; - bis 2-5 work days</th>
<th>Delivery time* 24h or today!</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.62.100.R.0</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
<tr>
<td>E6.62.1000.R.0</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
<tr>
<td>E6.62.1000.E.R.0</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
<tr>
<td>E6.62.1000.Q.R.0</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
<tr>
<td>E6.62.1000.Q.E.R.0</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
<tr>
<td>E6.62.100.R.0.NC</td>
<td>Crossbar every 2nd link</td>
<td>24h or today!</td>
</tr>
</tbody>
</table>

<sup>1)</sup> Delivery time means time until shipping of goods (after technical release)

**Order example | Order key and color options**

Order example for complete e-chain® Series E6.62 (1,0 m, with crossbars every 2nd link), color black, mounting brackets and interior separation:

- **e-chain® (1,0 m)** Please indicate e-chain® length or number of links: 1,0 m or 20 links E6.62.10250.0
- **+ Mounting brackets** 1 set (with odd number of links and integrated C-profiles) E6.620.10.12.C
- **+ Interior separation** with 2 separators assembled every 2nd link 2 x E6.62.1.1

Order text: 1,0 m E6.62.10250.0 + E6.620.10.12.C + 2 x Part No. 62.1.1

**Standard color black**

- **Bending radius** R
- **Width index**
- **Inner height**
- **Series / Type**

**Order key** E6.62.10250.0

**Color options for e-chains® and e-tubes**

<table>
<thead>
<tr>
<th>Color</th>
<th>Order index</th>
<th>Color</th>
<th>Order index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Standard, from stock</td>
<td>.0</td>
<td>White special color</td>
<td>.1</td>
</tr>
<tr>
<td>Slate grey, only ESD material</td>
<td>.15</td>
<td>Grey white special color</td>
<td>.2</td>
</tr>
<tr>
<td>Grey brown, only HT material</td>
<td>.12</td>
<td>Orange special color</td>
<td>.2</td>
</tr>
<tr>
<td>Yellow special color</td>
<td>.4</td>
<td>Dusty grey special color only e-chains®</td>
<td>.14</td>
</tr>
<tr>
<td>Dusty grey special color only e-tubes</td>
<td>.31</td>
<td>Light grey special color</td>
<td>.14</td>
</tr>
</tbody>
</table>

**Black e-chains® available from stock! Delivery time* for special colors: from 3 work days**

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

**E6 | Application**

**e-chainsystem® E6 without classical pin-hole connection.**

At present, the solution with the lowest noise and vibration in the igus® e-chains® range

**Strain relief system**

Clamps, tie-wrap plates, nuggets and plug-in clips. The complete chainfix range with many order options ➤ from page 1148

**Support tray tool kit**

For support of the lower run. Simple one-piece support trays according to your requirements and specification ➤ from page 1258

---

*Delivery time means time until shipping of goods (after technical release)
### Introduction

**Extremely low-noise, low vibration, high stability**

When to use Series E6.29-R6.29:
- If a particularly low noise, low vibration e-chain® with an inner height of 29 mm (e-tube 28 mm) is required
- At very high speeds and/or accelerations
- Inner widths up to 1.40 m
- For unsupported lengths up to 1.75 m and fill weights up to 3.6 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- Limited in side-mounted applications
  - Series 2400/2500 E2/000, page 426
  - No use with RBR (reverse bending radius)
  - Series 2400/2500 E2/000, page 426
  - No use with high additional fill weights
  - Series 2400/2500 E2/000, page 426
  - No use in dirty environments
  - Series 2480 E2/000, page 426
- For still less vibration and noise generation or even higher dynamics
  - Series E6.1.29 System E6.1, page 1002

### Dimensions

**Unsupported applications**

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height HF. Please consult igus® if space is particularly restricted. More information ► Design, page 95

In special cases, gliding applications are also possible, please consult igus®.

### Technical Data

| Speed, material, temperature and flammability class ► page 924 |

- **Pitch** = 22 mm/link
- **Links/m** = 46 (1012 mm)

**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

3D-CAD files, configurators, PDF ► www.igus.eu/eu/E6.29
### e-chains® | Series E6.29 Crossbars every 2" link | Removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.29</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.29.030.R.0</td>
<td>30</td>
<td>46</td>
<td>0.73</td>
</tr>
<tr>
<td>E6.29.040.R.0</td>
<td>40</td>
<td>56</td>
<td>0.75</td>
</tr>
<tr>
<td>E6.29.050.R.0</td>
<td>50</td>
<td>66</td>
<td>0.78</td>
</tr>
<tr>
<td>E6.29.060.R.0</td>
<td>60</td>
<td>76</td>
<td>0.80</td>
</tr>
<tr>
<td>E6.29.070.R.0</td>
<td>70</td>
<td>86</td>
<td>0.83</td>
</tr>
<tr>
<td>E6.29.080.R.0</td>
<td>80</td>
<td>96</td>
<td>0.85</td>
</tr>
</tbody>
</table>

Available bending radii R [mm]: 055 | 075 | 100 | 150

Supplement Part No. with required radius (R), example: E6.29.050.100.0

### e-tubes | Series R6.29 fully enclosed | Crossbars removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.29</th>
</tr>
</thead>
<tbody>
<tr>
<td>R6.29.030.R.0</td>
<td>30</td>
<td>46</td>
<td>0.80</td>
</tr>
<tr>
<td>R6.29.040.R.0</td>
<td>40</td>
<td>56</td>
<td>0.85</td>
</tr>
<tr>
<td>R6.29.050.R.0</td>
<td>50</td>
<td>66</td>
<td>0.89</td>
</tr>
<tr>
<td>R6.29.060.R.0</td>
<td>60</td>
<td>76</td>
<td>0.94</td>
</tr>
<tr>
<td>R6.29.070.R.0</td>
<td>70</td>
<td>86</td>
<td>0.97</td>
</tr>
<tr>
<td>R6.29.080.R.0</td>
<td>80</td>
<td>96</td>
<td>1.03</td>
</tr>
</tbody>
</table>

Available bending radii R [mm]: 055 | 075 | 100

Supplement Part No. with required radius (R), example: R6.29.050.100.0

### Order key

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Crossbar every 2&quot; link</th>
<th>Fully enclosed e-tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.29.050.100.0</td>
<td>Crossbars every 2nd link</td>
<td></td>
</tr>
<tr>
<td>R6.29.050.100.0</td>
<td>Crossbars removable along both radii</td>
<td></td>
</tr>
</tbody>
</table>

Standard color black
Bending radius R
Width index (depends on Bi)
Inner height
Series / Type

### Dimensioning

- Standard color black
- Bending radius R
- Width index (depends on Bi)
- Inner height
- Series / Type

*Width available upon request. Please consult igus® for delivery time.

Supplement Part No. with required radius (R), example: E6.29.050.100.0

### e-chain links as single parts, overview ▶ page 925

Configuration options and order keys, overview ▶ page 926

Available from stock. Delivery time® in 24h or today!

*Delivery time means time until shipping of goods (after technical release)
**E6 Series R6.29 e-tubes Interior separation**

*Previous interior separation - for e-tubes*

- **Vertical separator R6.29.01**
  - For e-tubes R6.29. The notches on this separator mark the side that fixes to the lid.

- **Separator with integrated strain relief**
  - Strain relief separators Part No. E6.29.02.Z (for e-chains®) and R6.29.02.Z (for e-tubes) can be integrated into the mounting bracket and can be placed there at any point of the e-chain®. It combines strain relief and interior separation. Easy to assemble without any screws. More information from page 1170.

- **Interior separation with single-part order**
  - Delivery time* in 24h or today!

---

**Separator with integrated strain relief**

Strain relief separators Part No. E6.29.02.Z (for e-chains®) and R6.29.02.Z (for e-tubes) can be integrated into the mounting bracket and can be placed there at any point of the e-chain®. It combines strain relief and interior separation. Easy to assemble without any screws.

More information from page 1170.

---

**Interior separation with single-part order**

Delivery time* in 24h or today!

---

3D-CAD files, configurators, PDF, applications | www.igus.eu/eu/E6.29 | www.igus.eu/eu/R6.29

igus® GmbH Germany | Phone +49 2203 9649-800 | Fax -222 | info@igus.de | www.igus.eu
E6 | Series E6.29 | e-chains® Interior separation | Options

Previous interior separation - for e-chains®

All elements of the previous interior separation can still be ordered: www.igus.eu/E6.29

---

**Note:** Please observe a lateral spacing of 1 mm to the side links.

In the standard configuration separators are assembled every 2nd e-chain® link!

---

**Slotted separator E6.29.01**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

---

**Notch separator; slotted E6.29.01.R**

Locks safely in 2 mm increments. Notch separator for exact positioning in e-chains®. Slipping of the separator during operation is therefore impossible.

---

**Full-width shelf 110.X**

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

---

**Slotted separator for e-chains®**

unassembled E6.29.01 assembling E6.29.11

---

**Middle plate E6.29.12**

To achieve a modular shelving the shelf 2200.X can be arranged at 5 different heights (in 5 mm increments).

---

**Side plate E6.29.03**

Works like middle plate. Allows modular shelving close to the side links. No lateral spacing necessary!

---

**Shelf for e-chains®**

unassembled assembled

---

**Shelves**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
<td>110.30</td>
<td>111.30</td>
</tr>
<tr>
<td>040</td>
<td>110.40</td>
<td>111.40</td>
</tr>
<tr>
<td>050</td>
<td>110.50</td>
<td>111.50</td>
</tr>
<tr>
<td>060</td>
<td>110.60</td>
<td>111.60</td>
</tr>
</tbody>
</table>

---

**Middle plate E6.29.12**

To achieve a modular shelving the shelf 2200.X can be arranged at 5 different heights (in 5 mm increments).

---

**Note:** Please observe a lateral spacing of 1 mm to the side links.

In the standard configuration separators are assembled every 2nd e-chain® link!

---

**Slotted separator E6.29.01**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

---

**Notch separator; slotted E6.29.01.R**

Locks safely in 2 mm increments. Notch separator for exact positioning in e-chains®. Slipping of the separator during operation is therefore impossible.

---

**Full-width shelf 110.X**

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

---

**Slotted separator for e-chains®**

unassembled E6.29.01 assembling E6.29.11

---

**Middle plate E6.29.12**

To achieve a modular shelving the shelf 2200.X can be arranged at 5 different heights (in 5 mm increments).

---

**Side plate E6.29.03**

Works like middle plate. Allows modular shelving close to the side links. No lateral spacing necessary!

---

**Shelf for e-chains®**

unassembled assembled

---

**Shelves**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
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</tr>
<tr>
<td>060</td>
<td>110.60</td>
<td>111.60</td>
</tr>
</tbody>
</table>

---

**Interior separation with single-part order. Delivery time® in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
E6 | Series E6.29 | KMA mounting brackets pivoting

For tight installation conditions, all-sides attachment

KMA pivoting | All-sides attachment | Recommended for unsupported applications

<table>
<thead>
<tr>
<th>Width</th>
<th>Part No.</th>
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<th>A</th>
<th>Bi</th>
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<td>E6.290</td>
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<table>
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<tr>
<td>600</td>
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<tr>
<td>800</td>
<td>E6.290</td>
<td>980.30</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

- Standard
- For tight installation conditions
- Corrosion resistant
- Optional threaded sockets upon request
- Width available upon request

KMA pivoting | All-sides attachment | Recommended for unsupported applications

<table>
<thead>
<tr>
<th>Width</th>
<th>Part No.</th>
<th>Full set</th>
<th>A</th>
<th>Bi</th>
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</thead>
<tbody>
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<td>960.30</td>
<td>100</td>
<td>120</td>
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<tr>
<td>700</td>
<td>E6.290</td>
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<table>
<thead>
<tr>
<th>Width</th>
<th>Part No.</th>
<th>Full set</th>
<th>A</th>
<th>Bi</th>
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<tbody>
<tr>
<td>600</td>
<td>E6.290</td>
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<td>100</td>
<td>120</td>
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<tr>
<td>700</td>
<td>E6.290</td>
<td>971.30</td>
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<td>800</td>
<td>E6.290</td>
<td>980.30</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

- Components, trough “Basic”
- Bottom clamp, aluminium, C-profile, galvanized steel
- Screw M6 x 16
- Sliding nut M6
- Interface connector, plastic

Aluminum SuperTrough | Basic Version

Part No. 971.30 | 971.31 | Trough height: 87 mm

Installation set “Basic” with C-Profile

Bottom clamp optionally attached inwards or outwards

<table>
<thead>
<tr>
<th>For Width Index</th>
<th>Part No.</th>
<th>Attached Inwards</th>
<th>Part No.</th>
<th>Attached Outwards</th>
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</thead>
<tbody>
<tr>
<td>050</td>
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<tr>
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</tr>
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</tr>
<tr>
<td>080</td>
<td>960.30</td>
<td>960.30</td>
<td>960.30</td>
<td></td>
</tr>
</tbody>
</table>

Strain relief, e.g., clamps, tie-wrap plates, nuts and plug-in clips are available from stock. The complete chainfix range with order options → from page 1148
### Extremely low-noise, low vibration, high stability

**When to use Series E6.35:**
- If a particularly low noise, low vibration e-chain with an inner height of 35 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 140 mm
- For unsupported lengths up to 1.9 m and fill weights up to 6 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

**When to use a different igus® Series:**
- Limited in side-mounted applications
- No use with RBR (reverse bending radius)
- No use with high additional fill weights
- No use in dirty environments
- If a fully enclosed e-tube is required
- Series R58 E2 e-tubes, page 550

### Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)
Crossbars every 2nd link

**e-chains** | Series E6.35 Crossbars every 2nd link | Removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.35</th>
</tr>
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<td>0.92</td>
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<tr>
<td>E6.35.060.R0</td>
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<td>80</td>
<td>0.94</td>
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<tr>
<td>E6.35.070.R0</td>
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<td>0.96</td>
</tr>
<tr>
<td>E6.35.080.R0</td>
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<td>100</td>
<td>0.99</td>
</tr>
</tbody>
</table>

Supplement Part No. with required radius (R), example: E6.35.080.100.0

Order key

**E6.35.080.100.0** Crossbar every 2nd link

- Standard color black
- Bending radius R
- Width index (depends on Bi)
- Inner height
- Series / Type

**Dimensioning**

<table>
<thead>
<tr>
<th>Ba</th>
<th>Bi</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>34</td>
</tr>
<tr>
<td>35</td>
<td>42</td>
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</tbody>
</table>

E6.35 e-chains® Interior separation

New generation interior separation - for e-chains®

- Standard - for all applications
  - Separator with a wide base for maximum locking strength and safe standing in e-chains®.
- For even faster installation
  - Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (light grip).
- Locks safely in 2 mm increments
  - Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

- Horizontal separation
  - Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

**Lockable full-width shelves - for the standard interior separation**

- Interior separation with single-part order. Delivery time® in 24h or today!
- Delivery time means time until shipping of goods (after technical release)

More information on e-chains® and interior separation can be found at www.igus.eu/eu/E6.35.
**E6 Series E6.35**

**Interior separation - for e-chains**

**Options**

*Note: Please observe a lateral spacing of 1 mm to the side links.*

In the standard configuration separators are assembled every 2nd e-chain link!

### Vertical separator E6.35.01

Vertical separators are used if a vertical subdivision of the e-chain interior is required. For combinations with full-width shelves.

### Full-width shelf 110.X

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

### Full-width shelves 110.X

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>030</td>
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<td>111.90</td>
</tr>
<tr>
<td>100</td>
<td>110.100</td>
<td>111.100</td>
</tr>
</tbody>
</table>

### Separator with integrated strain relief

Strain relief separator Part No. E6.35.02.Z can be integrated into the mounting bracket and can be placed there at any point of the e-chain. It combines strain relief and interior separation. For the use in the first or last chain link. Easy to assemble without any screws. More information from page 1170.

---

**Interior separation with single-part order. Delivery time** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)*
**KMA pivoting | All-sides attachment**

<table>
<thead>
<tr>
<th>Width Index</th>
<th>Part No.</th>
<th>Full set</th>
<th>A</th>
<th>B</th>
<th>Bi</th>
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</thead>
<tbody>
<tr>
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<tr>
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<tr>
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<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>080</td>
<td>960.30.080.12</td>
<td>104</td>
<td>104</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

**Components, trough "Basic":**
- Trough side parts, aluminum, 2 m
- Glide bar, plastic, 2 m

**Option: Silencer profile, rubber**

**Components, installation set "Basic":**
- Bottom clamp, aluminum
- C-profile, galvanized steel
- Screw M6 x 16
- Sliding nut M6
- Interface connector, plastic

**Installation set "Basic" with C-Profile**

- Bottom clamp optionally attached inwards or outwards

**Guide trough set without glide bar** (set of 2 trough side parts, incl. glide strips)

- Trough height: 117 mm

**Order example:** Length of travel 30 m - Center mounted for Series E6.35, 080.100.0 with B_out = 104

**Order details:**
- 16 m guide trough without glide bar
- Part No. 972.02.30.SL

**Installation set "Basic" complete (guide trough sets +1)****

- 17 installation sets
- Part No. 960.30.150

**Module for the fixed end**

- Part No. 972.82

**Option:** For an additional noise damping

- With silencer profile, please add index A
- Example: Part No. 972.02.30.SLA

**Principle sketch:** Number of installation sets to be installed = Number of trough sections +1

---

**Strain relief**, e.g., clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148.

---

**igus® GmbH Germany**

Phone: +49 2203 9649-800  
Fax: - 222 | info@igus.de | www.igus.eu

---

---
**Extremely low-noise, low vibration, high stability**

When to use Series E6.40-R6.40:
- If a particularly low noise, low vibration e-chain™ with an inner height of 40 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 300 mm
- For unsupported lengths up to 2.75 m and fill weights up to 11 kg/m³
- For enlarged thrusts and tensile forces
- For small bending radii
- For minimal abrasion (e.g., cleanroom applications)

1) Low-noise tested series, more details ▶ page 878
2) Cleanroom - tested series, more details ▶ page 879

When to use a different igus® Series:
- Limited in side-mounted applications
- Series E4.42 System E4.1, page 662
- No use with RBR (reverse bending radius)
- Series E4.42 System E4.1, page 662
- No use with high additional fill weights
- Series E4.42 System E4.1, page 662

---

### Dimensions

**Unsupported applications**

Unsupported e-chains™ feature positive camber over short travels. This must be accounted for when specifying the clearance height H₉. Please consult igus® if space is particularly restricted. More information ▶ Design, page 95

In special cases, gliding applications are also possible, please consult igus®.

---

### Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

---

**Technical Data**

- Speed, material, temperature and flammability class ▶ page 924

**Pitch**
- 27.8 mm/link

**Links/m**
- 36 (1001 mm)

**Chain length**
- \( \frac{S}{2} + K \)

---

**Unsupported**

- Length of travel S [m]
- Fill weight (kg/m³)
- Unsupported length FLₜ / FLₘ [m]

---

**Universal**

- All-sides attachment

**Low-noise 37dB(A)²:**
- Small pitch for smooth running

**Long service life:**
- Minimum vibration, high stability and tensile strength

**Dynamic:**
- For high speeds and high accelerations

**Fast assembly:**
- Openable along inner and outer radius

**Cleanroom²:**
- Virtually no wear or abrasion

**Modular design:**
- Can be shortened and lengthened

**High stability:**
- For unsupported applications

**Chip protection:**
- e-tube with enclosed design available

---

**Series E6.40-R6.40**

**Introduction**

- Extremely low-noise, low vibration, high stability

**When to use Series E6.40-R6.40:**
- If a particularly low noise, low vibration e-chain™ with an inner height of 40 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 300 mm
- For unsupported lengths up to 2.75 m and fill weights up to 11 kg/m³
- For enlarged thrusts and tensile forces
- For small bending radii
- For minimal abrasion (e.g., cleanroom applications)

1) Low-noise tested series, more details ▶ page 878
2) Cleanroom - tested series, more details ▶ page 879

When to use a different igus® Series:
- Limited in side-mounted applications
- Series E4.42 System E4.1, page 662
- No use with RBR (reverse bending radius)
- Series E4.42 System E4.1, page 662
- No use with high additional fill weights
- Series E4.42 System E4.1, page 662

---

**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

---

**3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/E6.40**
### Crossbars every 2nd link

#### e-chains | Series E6.40 Crossbars every 2nd link | Removable along both radii

<table>
<thead>
<tr>
<th>Part No. Crossbars every 2nd link</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>E6.40 [kg/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.40. 040. R.0</td>
<td>40</td>
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<tr>
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<td>1.33</td>
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</table>

### Fully enclosed

#### e-tubes | Series R6.40 fully enclosed | Crossbars removable along both radii

<table>
<thead>
<tr>
<th>Part No. Crossbars every 2nd link</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>E6.40 [kg/m]</th>
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</thead>
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<td>320</td>
<td>2.32</td>
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</table>

Available bending radii \( R \) [mm] 063 | 075 | 100 | 125 | 150 | 200

Supplement Part No. with required radius (R), example: E6.40.100.100.0

**Order key**

- E6.40.100.100.0 Crossbar every 2nd link
- R6.40.100.100.0 Fully enclosed e-tube

### Dimensioning

![Dimensioning diagram](image)

**Available bending radii \( R \) [mm] 063 | 075 | 100 | 125 | 150 | 200

Supplement Part No. with required radius (R), example: R6.40.100.100.0

---

### Configuration options and order keys, overview page 926

**Available from stock. Delivery time in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**E6.40 e-chains® Interior separation**

*New generation interior separation - for e-chains*

No lateral spacing to side links necessary. In the standard configuration separators are assembled every 2nd e-chain link.

**Vertical separator R6.40.01**

For e-tubes R6.40. The notches on this separator mark the side that fixes to the lid.

**Full-width shelf 110.X**

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 7 different heights (in 5 mm increments).

**Lockable full-width shelves - for the standard interior separation**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>057</td>
<td>2300.057</td>
<td>2301.057</td>
</tr>
</tbody>
</table>

**Horizontal separation**

Shef locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

**Separator with integrated strain relief**

Strain relief separator Part No. E6.40.02.Z can be integrated into the mounting bracket and can be placed there at any point of the e-chain®. It combines strain relief and interior separation. For the use in the first or last chain link. Easy to assemble without any screws. More information from page 1170.

**Interior separation with single-part order. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**E6 Series E6.40 e-chains® Interior separation | Options**

**Previous interior separation - for e-chains®**

All elements of the previous interior separation can still be ordered [www.igus.eu/E6.40](http://www.igus.eu/E6.40)

No lateral spacing to side links necessary. In the standard configuration separators are assembled every 2nd e-chain link.

---

**Vertical separator 28221**
Vertical separators are used if a vertical subdivision of the e-chain® interior is required. For combinations with full-width shelves.

**Separator, asymmetrical E6.40.08**
Asymmetrical separator; for defined distance. No additional spacers necessary. For side-mounted applications.

**Full-width shelf 220.X**
This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 7 different heights (in 5 mm increments).

**Full-width shelves 220.X**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>040</td>
<td>220.40</td>
<td>221.40</td>
</tr>
<tr>
<td>050</td>
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<tr>
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<td>221.87</td>
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<tr>
<td>100</td>
<td>220.100</td>
<td>221.100</td>
</tr>
<tr>
<td>125</td>
<td>220.125</td>
<td>221.125</td>
</tr>
<tr>
<td>150</td>
<td>220.150</td>
<td>221.150</td>
</tr>
</tbody>
</table>

---

**Shelves 2200.X**
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 7 different heights (in 5 mm increments).

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>018</td>
<td>2200.18</td>
<td>2210.18</td>
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<tr>
<td>023</td>
<td>2200.23</td>
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<td>028</td>
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<td>2210.28</td>
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<tr>
<td>033</td>
<td>2200.33</td>
<td>2210.33</td>
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<tr>
<td>038</td>
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<td>2210.38</td>
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<tr>
<td>043</td>
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<tr>
<td>048</td>
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<td>2210.48</td>
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<td>053</td>
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<td>2210.58</td>
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<tr>
<td>063</td>
<td>2200.63</td>
<td>2210.63</td>
</tr>
<tr>
<td>068</td>
<td>2200.68</td>
<td>2210.68</td>
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<tr>
<td>073</td>
<td>2200.73</td>
<td>2210.73</td>
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<td>076</td>
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<td>2210.76</td>
</tr>
<tr>
<td>081</td>
<td>2200.81</td>
<td>2210.81</td>
</tr>
</tbody>
</table>

---

**Interior separation with single-part order. Delivery time® in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
KMA pivoting | All-sides attachment | Recommended for unsupported applications

<table>
<thead>
<tr>
<th>Width</th>
<th>Part No.</th>
<th>Full set</th>
<th>A</th>
<th>Bi</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>E6.400. R6.400.</td>
<td>100.12.C</td>
<td>114</td>
<td>100</td>
</tr>
</tbody>
</table>

These attachment types are set automatically in the choice of the KMA mounting bracket. For the preassembled mode please add index A. E.g., E6.400.100.12.CA

Strain relief, e.g., clamps, tie-down plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148.

Part No. structure

- E6.400.100.12.CA
  - A: must be indicated on preassembled configurations
  - C-profile option
  - Width
  - Series

Single-part order:

- Mounting bracket Moving end E6.400.100.2.CA
- Mounting bracket Fixed end E6.400.100.1.CA

Components, trough “Basic”:
- Trough side parts, aluminum, 2 m
- Glide bar, plastic, 2 m
- Glide strips, plastic, 2 m (without glide strips on request)
- Optional: Silencer profile, rubber
- Components, installation set “Basic”:
  - Bottom clamp, C-profile, galvanized steel
  - Screw M6 x 16
  - Sliding nut M6
  - Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series E6.40.100.100.0 with Bi = 124

Guide trough set without glide bar (set of 2 trough side parts, incl. glide strips)
- Part No. 972.30.314

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)
- Part No. 972.30.314

Installation set “Basic” complete (guide trough sets + 1)
- Part No. 972.30.175

Module for the fixed end
- Part No. 972.80

Option: For an additional noise dampening with silencer profile, please add index A - Example: Part No. 972.30.175.A

Principle sketch: Number of installation sets to be installed = Number of trough sections + 1

Aluminum SuperTrough “Basic” in detail and the “Heavy-Duty” version for heavy machinery from page 1198

- Trough set
- C-Profile
- Installation set
- Glide bar
- Inner width w + e-chains
- Outer width e-chains
- Inner trough width
- Outer trough width
- Number of installation sets
- Number of trough sets

For tight installation conditions, all-sides attachment

Insert for the installation set “Heavy-Duty”: 972.50.XXX instead of 960.30.XXX on the right column “attached outwards”
**Extremely low-noise, low vibration, high stability**

*When to use Series E6.52·R6.52:*
- If a particularly low noise, low vibration e-chain® with an inner height of 52 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 300 mm
- For unsupported lengths up to 3,0 m
- And fill weights up to 15 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

1) Low noise - tested series, more details ▶ page 878  
2) Cleanroom - tested series, more details ▶ page 879

*When to use a different igus® Series:*
- Limited in side-mounted applications
- Series E4.56 System E4.1, page 678
- No use with RBR (reverse bending radius)
- Series E4.56 System E4.1, page 678
- No use with high additional fill weights
- Series E4.56 System E4.1, page 678
- No use in dirty environments
- Series E4.56 System E4.1, page 678
- For still less vibration and noise generation or even higher dynamics
- Series E61.52 System E6.1, page 1008

---

**Technical Data**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>= 30 mm/link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Links/m</td>
<td>= 34 (1020 mm)</td>
</tr>
<tr>
<td>Chain length</td>
<td>= ( S/2 + K )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H</th>
<th>075</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>270</td>
<td>320</td>
<td>420</td>
<td>520</td>
<td>620</td>
</tr>
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<td>D</td>
<td>155</td>
<td>180</td>
<td>230</td>
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<tr>
<td>K</td>
<td>300</td>
<td>375</td>
<td>535</td>
<td>690</td>
<td>850</td>
</tr>
</tbody>
</table>

The required clearance height: \( H_F = H + 40 \text{ mm} \) (with 2.0 kg/m fill weight)

---

**Unsupported e-chains** feature positive camber over short travels. This must be accounted for when specifying the clearance height \( H_F \). Please consult igus® if space is particularly restricted. More information ▶ Design, page 95

In special cases, gliding applications are also possible, please consult igus®.
### e-chains® | Series E6.52 Crossbars every 2nd link | Removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.52</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[mm]</td>
<td>[mm]</td>
<td>[kg/m]</td>
</tr>
<tr>
<td>E6.52. 040. R0</td>
<td>40</td>
<td>64</td>
<td>≈ 1.76</td>
</tr>
<tr>
<td>E6.52. 050. R0</td>
<td>50</td>
<td>74</td>
<td>≈ 1.80</td>
</tr>
<tr>
<td>E6.52. 062. R0</td>
<td>62</td>
<td>86</td>
<td>≈ 1.84</td>
</tr>
<tr>
<td>E6.52. 070. R0</td>
<td>70</td>
<td>94</td>
<td>≈ 1.87</td>
</tr>
<tr>
<td>E6.52. 075. R0</td>
<td>75</td>
<td>99</td>
<td>≈ 1.89</td>
</tr>
<tr>
<td>E6.52. 087. R0</td>
<td>87</td>
<td>111</td>
<td>≈ 1.94</td>
</tr>
<tr>
<td>E6.52. 100. R0</td>
<td>100</td>
<td>124</td>
<td>≈ 1.98</td>
</tr>
<tr>
<td>E6.52. 125. R0</td>
<td>125</td>
<td>149</td>
<td>≈ 2.07</td>
</tr>
</tbody>
</table>

Available bending radii R [mm]: 075 | 100 | 150 | 200 | 250

Supplement Part No. with required radius (R), example: E6.52.100.100.0

### Crossbars every 2nd link

- Fully enclosed e-tube

### Order key

<table>
<thead>
<tr>
<th>E6.52.100.100.0</th>
<th>Crossbar every 2nd link</th>
</tr>
</thead>
<tbody>
<tr>
<td>R6.52.100.100.0</td>
<td>Fully enclosed e-tube</td>
</tr>
</tbody>
</table>

Order key:

- Standard color black
- Bending radius R
- Width index (depends on Bi)
- Inner height
- Series / Type

### Dimensioning

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

---

### e-tubes | Series R6.52 fully enclosed | Crossbars removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R6.52</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[mm]</td>
<td>[mm]</td>
<td>[kg/m]</td>
</tr>
<tr>
<td>R6.52.* 040. R0</td>
<td>40</td>
<td>64</td>
<td>≈ 1.78</td>
</tr>
<tr>
<td>R6.52. 050. R0</td>
<td>50</td>
<td>74</td>
<td>≈ 1.89</td>
</tr>
<tr>
<td>R6.52.* 062. R0</td>
<td>62</td>
<td>86</td>
<td>≈ 2.07</td>
</tr>
<tr>
<td>R6.52. 070. R0</td>
<td>70</td>
<td>94</td>
<td>≈ 2.12</td>
</tr>
<tr>
<td>R6.52. 075. R0</td>
<td>75</td>
<td>99</td>
<td>≈ 2.11</td>
</tr>
<tr>
<td>R6.52.* 087. R0</td>
<td>87</td>
<td>111</td>
<td>≈ 2.21</td>
</tr>
<tr>
<td>R6.52. 100. R0</td>
<td>100</td>
<td>124</td>
<td>≈ 2.35</td>
</tr>
<tr>
<td>R6.52. 125. R0</td>
<td>125</td>
<td>149</td>
<td>≈ 2.57</td>
</tr>
</tbody>
</table>

Available bending radii R [mm]: 075 | 100 | 150 | 200 | 250

Supplement Part No. with required radius (R), example: R6.52.100.100.0

---

**Standard color black**

**Bending radius R**

**Width index (depends on Bi)**

**Inner height**

**Series / Type**

---

3D-CAD files, configurators, PDF, applications: www.igus.eu/eu/E6.52 www.igus.eu/eu/R6.52
E6 | E6.52 | e-chains® Interior separation | New in this catalog

New generation interior separation - for e-chains®

No lateral spacing to side links necessary.
In the standard configuration separators are assembled every 2nd e-chain link.

Vertical separator R6.52.01
For e-tubes R6.52. The notches on this separator mark the side that fixes to the lid.

Horizontal separation
Shell locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

Full-width shelf, lockable
 unassembled E6.52.1.1
assembled E6.52.1.1

Width X [mm] unassembled assembled Width X [mm] unassembled assembled Width X [mm] unassembled assembled
015 2300.015 2310.015 060 2300.060 2310.060 087 2300.087 2310.087
025 2300.025 2310.025 062 2300.062 2310.062 090 2300.090 2310.090
030 2300.030 2310.030 065 2300.065 2310.065 100 2300.100 2310.100
038 2300.038 2310.038 070 2300.070 2310.070 103 2300.103 2310.103
040 2300.040 2310.040 075 2300.075 2310.075 110 2300.110 2310.110
050 2300.050 2310.050 077 2300.077 2310.077 120 2300.120 2310.120
057 2300.057 2310.057 080 2300.080 2310.080 125 2300.125 2310.125

Separator, narrow head unassembled E6.52.2.1
assembled E6.52.2.1

Separator, wide base unassembled E6.52.01
assembled E6.52.01

Standard - for all applications
Separator with wide base for maximum locking strength and safe standing in e-chains®.

For even faster installation
Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).

Separator for e-tubes unassembled R6.52.11
assembled R6.52.11

Separator for e-tubes unassembled R6.52.01
assembled R6.52.01

Vertical separator R6.52.01
For e-tubes R6.52. The notches on this separator mark the side that fixes to the lid.

No lateral spacing to side links necessary.
In the standard configuration separators are assembled every 2nd e-chain link.

Separator, narrow head unassembled E6.52.2.1
assembled E6.52.2.1

Separator, wide base unassembled E6.52.01
assembled E6.52.01

Standard separator, wide base unassembled E6.52.1
assembled E6.52.1.1

Standard separator, wide base unassembled E6.52.1
assembled E6.52.1.1

E6 Series R6.52 | e-tubes Interior separation
Previous interior separation - for e-tubes

Separator for e-tubes unassembled R6.52.11
assembled R6.52.11

Separator for e-tubes unassembled R6.52.01
assembled R6.52.01

Vertical separator R6.52.01
For e-tubes R6.52. The notches on this separator mark the side that fixes to the lid.

No lateral spacing to side links necessary.
In the standard configuration separators are assembled every 2nd e-chain link.
Series E6.52 | e-chains® Interior separation | Options

Previous interior separation - for e-chains®

All elements of the previous interior separation can still be ordered [www.igus.eu/E6.52]

Options

Vertical separator 382212
Vertical separators are used if a vertical subdivision of the e-chain® interior is required.

Spacer 205.09
Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar. (Not for long travel applications)

Slotted separator 38225
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Locking separator 38228
Locks with extra retention force. Tip: one locking separator per e-chain® link for better mounting.

Full-width shelf 320.X
This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 3 different heights (in 10 mm increments).

Interior separation with single-part order. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

No lateral spacing to side links necessary.
In the standard configuration separators are assembled every 2nd e-chain® link.

Middle plate 38221
To achieve a modular shelving the shelf 2200.X can be arranged at 9 different heights (in 5 mm increments).

Locking separator 382214
Locks with extra retention force. Tip: one locking separator per e-chain® link for better mounting.

Side plate 38223
Works like middle plate. Allows modular shelving close to the side links. No lateral spacing necessary!

Shelf 2200.X
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 9 different heights (in 5 mm increments).

Shelves 2200.X

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>018</td>
<td>2200.18</td>
<td>2210.18</td>
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<tr>
<td>023</td>
<td>2200.23</td>
<td>2210.23</td>
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<td>028</td>
<td>2200.28</td>
<td>2210.28</td>
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<tr>
<td>033</td>
<td>2200.33</td>
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<tr>
<td>091</td>
<td>2200.91</td>
<td>2210.91</td>
</tr>
</tbody>
</table>

Interior separation with single-part order. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 3 different heights (in 10 mm increments).
Aluminum SuperTrough | Basic Version
Part No. 973.30.SL | 973.31.SL | Trough height: 144 mm

Installation set "Basic" with C-Profile
Bottom clamp optionally attached inwards or outwards

<table>
<thead>
<tr>
<th>For Width Index</th>
<th>Bha</th>
<th>Bha + 4</th>
<th>Part No.</th>
<th>Part No. attached inwards</th>
<th>Part No. attached outwards</th>
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</thead>
<tbody>
<tr>
<td>040</td>
<td>68</td>
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<td>960.40.12</td>
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<tr>
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<td>960.40.12</td>
<td>960.40.12</td>
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<tr>
<td>087</td>
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<td></td>
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<td>960.40.12</td>
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<tr>
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<td></td>
<td>960.40.12</td>
<td>960.40.12</td>
<td>960.40.12</td>
</tr>
</tbody>
</table>

Components, trough "Basic":
1. Trough side parts, aluminum, 2 m
2. Glide bar, plastic, 2 m
3. Glide strips, plastic, 2 m (without glide strips on request)
4. Optional: Silencer profile, rubber
5. Components, installation set "Basic":
   - Bottom clamp, aluminum
   - C-profile, galvanized steel table
   - Screw M8 x 20
   - Sliding nut M8
   - Interface connector, plastic

Insert for the installation set "Heavy-Duty":
973.30.SL instead of 960.40.XXX on the right column "attached outwards"

Order example: Length of travel 30 m - Center mounted for Series E6.52.100.300.0 with Bha = 128

Guide trough set without glide bar (set of 2 trough side parts, incl. glide strips)
Order text: 16 m guide trough without glide bar (8 x 2 m sections)
Part No. 973.30.SL

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)
Order text: 16 m guide trough with glide bar (8 x 2 m sections)
Part No. 973.31.SL

Installation set "Basic" complete (guide trough sets + 1)
Order text: 17 installation sets
Part No. 960.40.175

Module for the fixed end
Order text: 1 set
Part No. 973.81

Option:
For an additional noise dampening with silencer profile, please add index A - Example: Part No. 973.30.SLA

Principle sketch: Number of installation sets to be installed = Number of trough sections + 1

For tight installation conditions, all-sides attachment.

KMA pivoting | All-sides attachment | Recommended for unsupported applications

<table>
<thead>
<tr>
<th>Width</th>
<th>Part No. Full set</th>
<th>A</th>
<th>Bi</th>
<th>Width</th>
<th>Part No. Full set</th>
<th>A</th>
<th>Bi</th>
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</thead>
<tbody>
<tr>
<td>040</td>
<td>E6.520.R6.520...</td>
<td>56</td>
<td>40</td>
<td>150</td>
<td>E6.520.R6.520...</td>
<td>166</td>
<td>150</td>
</tr>
<tr>
<td>050</td>
<td>E6.520.R6.520...</td>
<td>66</td>
<td>50</td>
<td>175</td>
<td>E6.520.R6.520...</td>
<td>191</td>
<td>175</td>
</tr>
<tr>
<td>062</td>
<td>E6.520.R6.520...</td>
<td>78</td>
<td>62</td>
<td>200</td>
<td>E6.520.R6.520...</td>
<td>216</td>
<td>200</td>
</tr>
<tr>
<td>070</td>
<td>E6.520.R6.520...</td>
<td>86</td>
<td>70</td>
<td>225</td>
<td>E6.520.R6.520...</td>
<td>241</td>
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</tr>
<tr>
<td>075</td>
<td>E6.520.R6.520...</td>
<td>91</td>
<td>75</td>
<td>250</td>
<td>E6.520.R6.520...</td>
<td>266</td>
<td>250</td>
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<tr>
<td>087</td>
<td>E6.520.R6.520...</td>
<td>103</td>
<td>87</td>
<td>275</td>
<td>E6.520.R6.520...</td>
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</tr>
<tr>
<td>100</td>
<td>E6.520.R6.520...</td>
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<td>E6.520.R6.520...</td>
<td>316</td>
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</tr>
<tr>
<td>125</td>
<td>E6.520.R6.520...</td>
<td>125</td>
<td>141</td>
<td>312</td>
<td>E6.520.R6.520...</td>
<td>332</td>
<td>312</td>
</tr>
</tbody>
</table>

These attachment types are set automatically in the choice of the KMA mounting bracket.
For the preassembled mode please add index A

n = Bi + nRi

Strain relief, e.g. clamps, tie wap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148
### E6 | Series E6.62 | Introduction

#### Extremely low-noise, low vibration, high stability

**When to use Series E6.62:**
- If a particularly low noise, low vibration e-chain® with an inner height of 62 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 400 mm
- For unsupported lengths up to 4,0 m and fill weights up to 45 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

#### When to use a different igus® Series:
- Limited in side-mounted applications
- Series E4.56 System E4.1, page 678
- No use with RBR (reverse bending radius)
- Series E4.56 System E4.1, page 678
- No use with high additional fill weights
- Series E4.56 System E4.1, page 678
- No use in dirty environments
- Series R4.56 System E4.1, page 678

### E6 | Series E6.62 | Dimensions

**Unsupported applications**

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height \(H_F\). Please consult igus® if space is particularly restricted. More information ► Design, page 95.

In special cases, gliding applications are also possible, please consult igus®.

### Available from stock. Delivery time* in 24 h or today!

*Delivery time means time until shipping of goods (after technical release)

### 3D-CAD files, configurators, PDF ► www.igus.eu/eu/E6.62

---

**Dimensions**

<table>
<thead>
<tr>
<th>Pitch (mm/link)</th>
<th>Chain length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>(5/2 + K)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chain length (mm)</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
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</thead>
<tbody>
<tr>
<td>(5/2 + K)</td>
<td>558</td>
<td>658</td>
<td>758</td>
<td>858</td>
</tr>
<tr>
<td>(5/2 + 2K)</td>
<td>809</td>
<td>909</td>
<td>1045</td>
<td>1200</td>
</tr>
</tbody>
</table>

The required clearance height: \(H_{F0} = H + 80\) mm (with 2,0 kg/m fill weight)

---

**Technical Data**

- Speed, material, temperature and flammability class ► page 924
- Universal:
  - All-sides attachment
  - Low-noise 46 dB(A): Small pitch for smooth running
  - Long service life: Minimum vibration, high stability and tensile strength
- Dynamic:
  - For high speeds and high accelerations
- Fast assembly:
  - Openable along inner and outer radius
- Cleanroom²:
  - Virtually no wear or abrasion
- Modular design:
  - Can be shortened and lengthened
- High stability:
  - For unsupported applications
### Series E6.62 Crossbars every 2nd link

#### Removable along both radii

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.62</th>
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<tbody>
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<td>E6.62. 087. R.0</td>
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<td>3.35</td>
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<tr>
<td>E6.62. 097. R.0</td>
<td>97</td>
<td>133</td>
<td>3.38</td>
</tr>
<tr>
<td>E6.62. 10. R.0</td>
<td>100</td>
<td>136</td>
<td>3.39</td>
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<tr>
<td>E6.62. 11. R.0</td>
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<td>E6.62. 112. R.0</td>
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<td>148</td>
<td>3.43</td>
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<td>E6.62. 12. R.0</td>
<td>125</td>
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<td>3.48</td>
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<td>E6.62. 127. R.0</td>
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<tr>
<td>E6.62. 162. R.0</td>
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<td>198</td>
<td>3.61</td>
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<tr>
<td>E6.62. 17. R.0</td>
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<td>204</td>
<td>3.63</td>
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<td>E6.62. 18. R.0</td>
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<td>211</td>
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<td>E6.62. 187. R.0</td>
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<td>3.69</td>
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<tr>
<td>E6.62. 20. R.0</td>
<td>200</td>
<td>236</td>
<td>3.74</td>
</tr>
</tbody>
</table>

#### Available bending radii R [mm]
- 115
- 150
- 200
- 250
- 300
- 350

Supplement Part No. with required radius (R), example: E6.62.10.250.0

---

**Available from stock. Delivery time** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)*

---

**e-chains® | Series E6.62 Crossbars every 2° link | Removable along both radii**

---

**Order key**

<table>
<thead>
<tr>
<th>E6.62-10.250.0</th>
<th>Crossbar every 2nd link</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Bending radius R</td>
</tr>
<tr>
<td></td>
<td>Width index (depends on Bi)</td>
</tr>
<tr>
<td></td>
<td>Inner height</td>
</tr>
<tr>
<td></td>
<td>Series / Type</td>
</tr>
</tbody>
</table>

**Dimensioning**

---

**e-chain® links as single parts, overview ➤ page 925**

**Configuration options and order keys, overview ➤ page 926**

---

**igus® System E6 on a linear drive for high speeds**

---

*e-chains®® GmbH Germany | Phone +49 2203 9649-800 Fax -222 | info@igus.de | www.igus.eu*
New generation interior separation - for e-chains®

Standard - for all applications
Separator with wide base for maximum locking strength and safe standing in e-chains®.

For even faster installation
Separator for igus® QuickLock crossbar E6.01. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (eight grips).

Locks safely in 5 mm increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Horizontal separation
Separator with wide base for maximum locking strength and safe standing in e-chains®

Vertical separator 407
For a vertical subdividing, offers safe stability due to its wide base design, also when used with thick cables or hoses.

Spacer E6.62.XX
Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar (not for long travel applications). XX = width of the spacer (please choose between 10, 15, 20 mm).

Slotted separator E6.62.01
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 320.X
This option makes sense in applications with many thin cables with similar diameters. Full-width shelves can be arranged at 3 different heights (in 15 mm increments).

Lockable full-width shelves

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
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<tbody>
<tr>
<td>050</td>
<td>3200.050</td>
<td>3210.050</td>
</tr>
<tr>
<td>075</td>
<td>3200.075</td>
<td>3210.075</td>
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<tr>
<td>100</td>
<td>3200.100</td>
<td>3210.100</td>
</tr>
<tr>
<td>115</td>
<td>3200.115</td>
<td>3210.115</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>3200.300</td>
<td>3210.300</td>
</tr>
<tr>
<td>325</td>
<td>3200.325</td>
<td>3210.325</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>3200.125</td>
<td>3210.125</td>
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<tr>
<td>150</td>
<td>3200.150</td>
<td>3210.150</td>
</tr>
<tr>
<td>175</td>
<td>3200.175</td>
<td>3210.175</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>3200.200</td>
<td>3210.200</td>
</tr>
</tbody>
</table>
**Series E6.62 e-chains® Interior separation | Options**

**Previous interior separation - for e-chains**

All elements of the previous interior separation can still be ordered via www.igus.eu/E6.62.

---

**KMA mounting brackets | Pivoting**

For tight installation conditions, all-sides attachment

---

### E6.620...2 KMA mounting brackets

**Moving end**

**Fixed end**

Frontal view of KMA

---

**KMA pivoting | All-sides attachment | Recommended for unsupported applications**

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No.</th>
<th>Full set</th>
<th>A (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>E6.620.05</td>
<td>12.C</td>
<td>72</td>
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<td>75</td>
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<td>08.5</td>
<td>E6.620.08</td>
<td>12.C</td>
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<td>12.C</td>
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<td>12.C</td>
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<td>12.C</td>
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<td>125</td>
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<td>12.5</td>
<td>E6.620.12.5</td>
<td>12.C</td>
<td>159</td>
<td>137</td>
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<td>E6.620.13</td>
<td>12.C</td>
<td>172</td>
<td>150</td>
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<tr>
<td>13.5</td>
<td>E6.620.13.5</td>
<td>12.C</td>
<td>159</td>
<td>137</td>
</tr>
<tr>
<td>15</td>
<td>E6.620.15</td>
<td>12.C</td>
<td>172</td>
<td>150</td>
</tr>
<tr>
<td>16</td>
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</tr>
<tr>
<td>18</td>
<td>E6.620.18</td>
<td>12.C</td>
<td>197</td>
<td>175</td>
</tr>
<tr>
<td>18.5</td>
<td>E6.620.18.5</td>
<td>12.C</td>
<td>209</td>
<td>187</td>
</tr>
<tr>
<td>20</td>
<td>E6.620.20</td>
<td>12.C</td>
<td>222</td>
<td>200</td>
</tr>
</tbody>
</table>

**Part No. structure**

- **Standard**
- **For tight installation conditions**
- **Option: integrated chainfix strain relief with C-profile**
- **Corrosion resistant**
- **Option: threaded sockets upon request** (KMA = Polymer Metal Mounting Bracket)

**Full set**

- **Series**

**Middle plate 148**

To achieve a modular shelving the shelf 386.X (table left page) can be arranged at 7 different heights (in 7 mm increments).

**Slotted separator 1407**

For very fine subdivisions. However, they cannot be retro-fitted into an existing separation system without dismantling the interior separators first.

**Side plate 146**

Works like middle plate. Allows modular shelving close to the side links.

**Shelf 386.X**

For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 7 different heights (in 7 mm increments).

---

**Series E6.62 e-chains® Interior separation | Options**

**Previous interior separation - for e-chains**

All elements of the previous interior separation can still be ordered via www.igus.eu/E6.62.

---

**Interior separation with single-part order: Delivery time in 24h or today!**

*(Delivery time means time until shipping of goods (after technical release))*

---

**Series E6.62 e-chains® Interior separation | Options**

**Previous interior separation - for e-chains**

All elements of the previous interior separation can still be ordered via www.igus.eu/E6.62.

---

**Series E6.62 e-chains® Interior separation | Options**

**Previous interior separation - for e-chains**

All elements of the previous interior separation can still be ordered via www.igus.eu/E6.62.
Preassembled energy supply systems reduce throughput and assembly times significantly. Because in this positioning system, cleanroom compatibility is required, each preassembled e-chainsystem® is attached with a cleaning protocol.
**Extremely low-noise, low vibration, high stability**

When to use Series E6.80L:
- If a particularly low noise, low vibration e-chain with an inner height of 80 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 550 mm
- For unsupported lengths up to 2,5 m and fill weights up to 26 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- Limited in side-mounted applications
- Series 15050 System E4/light, page 830
- No use with RBR (reverse bending radius)
- Series 15050 System E4/light, page 830
- No use with high additional fill weights
- Series 15050 System E4/light, page 830
- No use in dirty environments
- Series 19850 System E4/light, page 830

---

**Supported applications**

- Feature positive camber over short travels. This must be accounted for when specifying the clearance height \(H_F\). Please consult igus® if space is particularly restricted. More information → Design, page 95.

- In special cases, gliding applications are also possible, please consult igus®.

---

**Dimensions**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Links/m</th>
<th>Chain length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65 mm/link</td>
<td>16 (1040 mm)</td>
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</table>

<table>
<thead>
<tr>
<th>(R)</th>
<th>100°</th>
<th>150°</th>
<th>200°</th>
<th>250°</th>
<th>300°</th>
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</thead>
<tbody>
<tr>
<td>(H)</td>
<td>416</td>
<td>516</td>
<td>566</td>
<td>616</td>
<td>716</td>
</tr>
<tr>
<td>(D)</td>
<td>256</td>
<td>306</td>
<td>331</td>
<td>356</td>
<td>406</td>
</tr>
<tr>
<td>(K)</td>
<td>445</td>
<td>605</td>
<td>680</td>
<td>760</td>
<td>915</td>
</tr>
</tbody>
</table>

The required clearance height: \(H_F = H + 100\) mm (with 5.0 kg/m fill weight)

*Radius available upon request, please consult igus® for delivery time.

---

**When to use Series E6.80L**

- Universal: All-sides attachment
- Low-noise 46dB(A)³: Small pitch for smooth running
- Long service life: Minimum vibration, high stability and tensile strength

**Dynamic**

- For high speeds and high accelerations
- Fast assembly: Openable along inner and outer radius
- Cleanroom²: Virtually no wear or abrasion
- Modular design: Can be shortened and lengthened
- High stability: For unsupported applications

---

**Available from stock. Delivery time in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

---

3D-CAD files, configurators, PDF → www.igus.eu/eu/E6.80L
### Application

**igus® System E6, pick and place robot - speed 8 m/s, acceleration 78,5 m/s²**

---

#### Crossbars every 2nd link

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>E6.80L</th>
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</thead>
<tbody>
<tr>
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<td>101</td>
<td>3.28</td>
</tr>
<tr>
<td>E6.80L 10. R.0</td>
<td>100</td>
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<td>E6.80L 11. R.0</td>
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</tr>
<tr>
<td>E6.80L 16. R.0</td>
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<td>176</td>
<td>3.61</td>
</tr>
<tr>
<td>E6.80L 17. R.0</td>
<td>175</td>
<td>189</td>
<td>3.67</td>
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**Order key**

**E6.80L.10.175.0**

Crossbar every 2nd link

- Standard color black
- Bending radius R
- Width index (depends on Bi)
- Inner height
- Series / Type

**Dimensioning**

- Ba
- Bi

---

**3D-CAD files, configurators, PDF, applications**

- [www.igus.eu/eu/E6.80L](http://www.igus.eu/eu/E6.80L)
E6 | Series E6.80L | Interior separation | New in this catalog

New generation interior separation - for e-chains®

In the standard configuration separators are assembled every 2nd e-chain link.

Standard - for all applications
Separator with wide base for maximum locking strength and safety standing in e-chains®.

For even faster installation
Separator for igus® QuickLock crossbar 450.X.Q. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (right grip).

For many thin cables
Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.

For side-mounted applications
Asymmetrical separator, for defined distance. No additional spacers necessary.

Locks safely in 5 mm increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Horizontal separation
Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 5 different heights.

Note: Please observe a lateral spacing of 16 mm to the side links.

Shelves - for interior separation options

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Vertical separator 501
Offers safe stability, also when used with thick cables or hoses.

Locking separator 504
Locks with extra retention force. Tip: one locking separator per e-chain link for better mounting.

Locking separator 508
For applications exposed to very high humidity (> 85%).

Extra retention force by asymmetric clamps. Ensure proper alignment. Tip: one locking vertical separator per e-chain link for better mounting.

Separator, asymmetrical 501A
With 18 mm base, for the combination of spacers and separators with different widths, e.g. for side-mounted applications.

Spacer 405.XX
Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar. (not for long travel applications). XX = width of the spacer (please choose between 10, 15, 20, 30, 40 mm).

All elements of the previous interior separation can still be ordered ➤ www.igus.eu/E6.80L
**Options**

**Previous interior separation - for e-chains**

- All elements of the previous interior separation can still be ordered.
- 3D-CAD files, configurators, PDF, applications: [www.igus.eu/E6.80L](http://www.igus.eu/E6.80L)

---

**KMA mounting brackets pivoting**

For tight installation conditions, all-sides attachment

- [www.igus.eu/eu/E6.80L](http://www.igus.eu/eu/E6.80L)

---

### Locking vertical separator 510 (e-chains’ only)

Works like middle plate, for applications exposed to very high humidity (> 85%).

### Locking separator 507

Extra retention force by asymmetric claws. Ensure proper alignment. Tip: one locking vertical separator per e-chain link for better mounting.

### Middle plate 503

To achieve a modular shelving the shelf 420.X (table left page) can be arranged at 11 different heights (in 7 mm increments).

### Slotted separator 505

For very fine subdivisions. However, they cannot be retrofitted into an existing separation system without dismantling the interior separators first.

### Open, slotted separator 509 (unilateral open)

Fast assembly - can be retrofitted into an existing separation system without a need for dismantling the interior separators. During an installation of open slotted separators, the top and bottom notches cannot be occupied by shelves.

### Side plate E6.80.13 and E6.80.14

**Note on side plates:** For the side part E6.80.01.XX of the e-chain, please use the side plate E6.80.13, and for the side part E6.80.02.XX, the side plate E6.80.14! Allows a rack-like division up to the side links. No lateral spacing necessary!

---

**Strain relief**, e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options: [from page 1148](http://www.igus.eu/E6.80L)
Extremely low-noise, low vibration, high stability

When to use Series E6.80:
- If a particularly low noise, low vibration e-chain with an inner height of 80 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 600 mm
- For unsupported lengths up to 5,25 m and fill weights up to 56 kg/m
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

When to use a different igus® Series:
- Limited in side-mounted applications
- Series E4.80 System E4.1, page 694
- No use with RBR (reverse bending radius)
- Series E4.80 System E4.1, page 694
- No use with high additional fill weights
- Series E4.80 System E4.1, page 694
- No use in dirty environments
- Series R4.80 System E4.1, page 694

Available from stock. Delivery time* in 24h or today!
*Delivery time means time until shipping of goods (after technical release)

3D-CAD files, configurators, PDF: www.igus.eu/eu/E6.80
## Application

Long travel and side mounted installation with the vibration-free and low noise Series E6.29 in this camera application.

### Order key

**E6.80.10.300.0**  
Crossbar every 2nd link

- Standard color black
- Bending radius \( R \)
- Width index \( Bi \) (depends on \( Bi \))
- Inner height

### Dimensioning

```
  108  

Considerations:
- Standard color black
- Bending radius \( R \)
- Width index \( Bi \) (depends on \( Bi \))
- Inner height
- Series / Type
```

## Standard

### Crossbars every 2nd link

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Available bending radii \( R \) [150 | 200 | 250 | 300 | 350 | 400 | 450]

Supplement Part No. with required radius \( R \), example: **E6.80.10.300.0**

### e-chains® | Series E6.80 Crossbars every 2nd link | Removable along both radii

**Part No.**  
Crossbars every 2nd link

**Part No.**  
Crossbars every 2nd link

Table continued...
New generation interior separation - for e-chains®

**Standard - for all applications**
Separator with wide base for maximum locking strength and safe standing in e-chains®.

**For even faster installation**
Separator for igus® QuickLock crossbar 450.X.Q. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (e.g. grip). 

**For many thin cables**
Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.

**For side-mounted applications**
Asymmetrical separator, for defined distance. No additional spacers necessary.

**Horizontal orientation**
Full-width shelf locks safety into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 5 different heights.

**Vertical separator 501**
Offers safe stability, also when used with thick cables or hoses.

**Locking separator 504**
Locks with extra retention force. Tip: one locking separator per e-chain link for better mounting.

**Locking separator 508**
Extra retention force by asymmetric claws. Ensure proper alignment. Tip: one locking vertical separator per e-chain link for better mounting.

**Separator, asymmetrical 501A**
With 18 mm base, for the combination of spacers and separators with different widths, e.g. for side-mounted applications.

**Spacer 405.XX**
Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar (not for long travel applications). XX = width of the spacer (please choose between 10, 15, 20, 30, 40 mm).
**E6 | Series E6.80 | e-chains® Interior separation | Options**

**Previous interior separation - for e-chains**

All elements of the previous interior separation can still be ordered [www.igus.eu/E6.80](http://www.igus.eu/E6.80)

---

**E6 | Series E6.80 | KMA mounting brackets**

**Pivoting**

For tight installation conditions, all-sides attachment

---

**Moving end**

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**Part No. structure**

- **E6.800...2** (KMA pivoting)
- **E6.800...1** (moving end)
- **A** = Standard
- **B** = For tight installation conditions
- **C** = Integrated chainfix strain relief with C-profile
- **Bi** = Corrosion resistant
- **A** = Option: threaded sockets upon request

---

**KMA pivoting**

- **All-sides attachment**
- **Recommended for unsupported applications**

---

**Simplified technical data**

- **Model**
- **Width**
- **Index**
- **Width index**
- **Part No.**
- **Full set**
- **A**
- **Bi**

---

**Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock.**

- **The complete chainfix range with order options** [from page 1148](#)
**Aluminum SuperTrough** | Basic Version
---
Part No. 975.30.SL | 975.31.SL | Trough height: 236 mm

**Installation set “Basic” with C-Profile**

Bottom clamp optionally attached inwards or outwards

<table>
<thead>
<tr>
<th>For Width Index</th>
<th>Part No.</th>
<th>Part No.</th>
<th>Length of travel 30 m - Center mounted for Series E6.80.10.300.0 with $BR_i = 154$</th>
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<td>55</td>
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<td>960.50.725</td>
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</tbody>
</table>

Guide trough set: Length of travel 30 m - Center mounted for Series E6.80.10.300.0 with $BR_i = 154$

**Guide trough set without glide bar** (set of 2 trough side parts, incl. glide strips)

<table>
<thead>
<tr>
<th>Order text: 16 m guide trough without glide bar (8 x 2 m sections)</th>
<th>Part No. 975.30.SL</th>
</tr>
</thead>
</table>

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)

**Installation set “Basic” complete** (guide trough sets + 1)

<table>
<thead>
<tr>
<th>Order text: 17 installation sets</th>
<th>Part No. 960.50.225</th>
</tr>
</thead>
</table>

Module for the fixed end

**Order text: 1 set** | Part No. 975.80

Option: For an additional noise dampening with silencer profile, please add Index A - Example: Part No. 975.30.SL

Principle sketch: Number of installation sets to be installed = Number of trough sections + 1

Aluminum SuperTrough “Basic” in detail and the “Heavy-Duty” version for heavy machinery from page 1206

**Components, trough “Basic”**:
- Trough side parts, aluminum, 2 m
- Glide bar, plastic, 2 m
- Glide strips, plastic, 2 m (without glide strips on request)

**Option: Silencer profile, rubber**

**Components, installation set “Basic”**:
- Bottom clamp, aluminum
- C-profile, galvanized steel table
- Screw M8 x 20
- Sliding nut M8
- Interface connector, plastic
igus®

E6.1

New Generation.
less weight,
smoother operation
more dynamics
New in this catalog

More dynamics, smoother running, easier to open, 2nd generation - E6.1

The E6.1 series is an advancement of the E6 series. While having all its advantages, like the stability and cleanroom suitability, it is even lighter, faster and quieter. In addition, its accessibility to the interior and the assembly and handling have been improved.

- Crossbars are openable on both sides (Series E61.29) and removable in the inner and outer radius
- Option without camber NC by turning the inner link
- Extremely quiet through small pitch and brake in the stop-dog system
- Extremely low vibration
- Low-abrasion link system (no pin/hole connection)
- Virtually no polygon effect, thereby "smooth rolling" operation
- Faster lengthening and shortening through optimized connection design
- Smooth and obstacle free interior design for a long lifetime for cables and hoses
- Weight savings approx. 30% compared to the System E6
- Cost-effective

Typical industries and applications

- Semiconductor industry
- Printer industry
- Applications with highest accelerations and where noise minimization and low abrasion are important

Extremely low noise

System E6.1 - 6-piece e-chain®-links

To underline the suitability for cleanrooms and increase the service life of cables and hoses further, the interior of the new E6.1 has been designed extremely "cable friendly". Crossbars are very smooth and rounded, as is the transition from chain link to crossbar, moreover all the moulding and marker points have been placed outside the chain cross-section.

System E6.1 internal tests in the igus® lab

![Graph showing weight reduction and noise level for different models of E6.1.]

The new E6.1 generation can take up higher accelerations, due to a weight reduction, making it a highly dynamic yet still extremely quiet e-chain.

Series E6.1 tests in the igus® test lab show noise levels, which are 2 dB(A) below the already class-leading noise levels of the igus® E6.29 series

IPA Qualification Certificate - Report IG 1303-640-1:
ISO Class 1, according to DIN EN ISO 14644-1 for System E6.1, Series E61.29.50.075.0 and E61.29.50.075.0.CR at v = 0.5 m/s, 1 m/s, 2 m/s

Content overview, selection table and assembly instructions next page
Cleanroom qualification of E6.1 e-chains®

In many applications where cumbersome special solutions are used, a simple standard e-chain® can be used instead. A comprehensive test program was devised and performed for both gliding use and unsupported use. For many applications, the e-chains® in special materials are practically abrasion-free. Detailed test results are available upon request. IPA tests confirm that standard igus® e-chains® meet cleanroom requirements. "Tested and certified as very good!" e-chains® for cleanroom applications in the test stand. Cleanroom environments demand very high wear resistance of moving parts. e-chains®, for example, must be very wear resistant, in order to meet normal requirements for such a sensitive environment.

IPA Qualification Certificate – Report IG 1303-640-1:
ISO Class 1, according to DIN EN ISO 14644-1 for System E6.1, Series E61.29.50.075.0 and E61.29.50.075.0.CR at \( v = 0.5 \text{ m/s}, 1 \text{ m/s}, 2 \text{ m/s} \).
E6.1 | Technical Data | e-chain® links as single parts | Overview

### Technical Data - E6.1

- **Speed / acceleration FLG max.** max. 20 [m/s²] / max. 200 [m/s³]
- **Speed / acceleration FLB max.** max. 3 [m/s] / max. 6 [m/s²]
- **Material - permitted temperature °C** -40° up to +70° C
- **Flammability class** VDE 0304 IIC UL94-HB

### Installation methods overview, maximum travels - E6.1

<table>
<thead>
<tr>
<th>e-chain® Series</th>
<th>Unsupported application</th>
<th>Vertical hanging</th>
<th>Vertical standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.1.29</td>
<td>≤ 1,5 m</td>
<td>≤ 25 m</td>
<td>≤ 2,0 m</td>
</tr>
<tr>
<td>E6.1.52</td>
<td>≤ 2,5 m</td>
<td>≤ 40 m</td>
<td>≤ 2,0 m</td>
</tr>
</tbody>
</table>

### Part No. 6-piece e-chain® links as single parts - E6.1

<table>
<thead>
<tr>
<th>Series</th>
<th>Crossbar</th>
<th>Inner side link</th>
<th>Outer side link</th>
<th>Polymer spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6.1.29</td>
<td>2105.Bi</td>
<td>E61.29.01</td>
<td>E61.29.02.R.0</td>
<td>E61.29.155</td>
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<tr>
<td>E6.1.52</td>
<td>225.Bi</td>
<td>E61.52.01</td>
<td>E61.52.02.R.0</td>
<td>E61.52.205</td>
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</tbody>
</table>

1) Crossbar / lid / bottom - supplement Part No. with required width index (Bi), example: 2105.030
2) Outer side link - supplement Part No. with required radius (R), example: E61.29.02.100.0

---

E6.1 | Configuration options and order key (based on Series E61.52)

#### Part No. Standard NC-Version - (no camber) without pretension

<table>
<thead>
<tr>
<th>Part No.</th>
<th>E61.52.100.R.0</th>
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</thead>
<tbody>
<tr>
<td>E61.52.100.R.0</td>
<td>E61.52.100.R.0, NC</td>
</tr>
</tbody>
</table>

#### Delivery time* 24h or today!

*Delivery time means time until shipping of goods (after technical release)

#### Delivery time* for special colors: from 5 work days

---

#### Color options for e-chains® and e-tubes

**Color** | **Order index** | **Color** | **Order index**
---|---|---|---
Black | 0 | White | 1.1
Slate grey | - | Gray white | 1.15
Gray brown | HT | Orange | 2
Dusty grey | HT | Yellow | 4

**Order key** E61.52.100.075.0

**Color options for e-chains® available from stock**

||
|---|---|
| Black | E61.52.100.075.0 |
| Slate grey | E61.52.100.12 |

igus® GmbH Germany | Phone +49 2203 9649-800 Fax -222 | info@igus.de | www.igus.eu 1001

---

1) Crossbar / lid / bottom - supplement Part No. with required width index (Bi), example: 2105.030
2) Outer side link - supplement Part No. with required radius (R), example: E61.29.02.100.0

---

1000 3D-CAD files, configurators, PDF, applications | www.igus.eu/eu/E6.1
**Extremely low-noise, low vibration, small size**

**When to use Series E61.29:**
- For particularly low noise, low vibration e-chain® with an inner height of 29 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 140 mm
- For unsupported lengths up to 1,5 m and fill weights up to 3,5 kg/m
- Optimized interior-exterior dimensions ratio due to narrow outer links
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

**When to use a different igus® Series:**
- Limited in side-mounted applications
  - Series 2400/2500 E2/000, page 426
- No use with RBR (reverse bending radius)
  - Series 2400/2500 E2/000, page 426
- No use with high additional fill weights
  - Series 2400/2500 E2/000, page 426
- No use in dirty environments
  - Series 2480 E2/000, page 426
- No use in case of enlarged unsupported travels
  - Series E6.29 System E6, page 928

**Universal:**
- All-sides attachment

**Dynamic:**
- For high speeds and high accelerations

**Low-noise 1:**
- Small pitch for smooth running

**Fast assembly:**
- Openable along inner and outer radius

**Long service life:**
- Minimum vibration, high stability and tensile strength

**Virtually no wear:**
- No pin and bore connection

**Modular design:**
- Can be shortened and lengthened

**Cleanroom ISO Class 1:**
- Virtually no wear or abrasion

**Speciality E61.29:**
- Pivotable crossbars left and right

---

**Example**
- Fill weight = 1 kg/m
- Unsupported length FLg = 1 m
- Length of travel = 2 m

**Diagram values provisionally!**

Please consult igus®.

**Technical Data**
- Speed, material, temperature and flammability class
  - Page 1001

**Unsupported applications**
- Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height HF. Please consult igus® if space is particularly restricted. More information ➤ Design, page 95

**Pitch**
- = 22 mm/link

**Links/m**
- = 46 (1012 mm)

**Chain length**
- = \( \frac{S}{2} + K \)

The required clearance height: \( H_F = H + 40 \) mm (with 2,0 kg/m fill weight)
**e-chains® | Series E61.29 | Openable along inner and outer radius**

<table>
<thead>
<tr>
<th>Part No. e-chain®</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>Weight [kg/m]</th>
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<tbody>
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</table>

**Available bending radii R [mm]:** 0.05, 0.075, 0.100, 0.150

Supplement Part No. with required radius (R), example: E61.29.050.100.0

---

**Order key**

<table>
<thead>
<tr>
<th>E61.29.050.100.0</th>
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</thead>
</table>

- Standard color black
- Bending radius R
- Width index (depends on Bi)

**Series / Type**

- Standard e-chains®
- Series E61.29
- Openable along inner and outer radius

---

**e-chain links as single parts, overview ➤ page 1000**

**Configuration options and order keys, overview ➤ page 1001**

**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)
**E6.1 | Series E61.29 | KMA mounting brackets pivoting**

For tight installation conditions, all-sides attachment

**Fixed end**

**Moving end**

**Frontal view of KMA**

---

**KMA pivoting | All-sides attachment | Recommended for unsupported applications**

<table>
<thead>
<tr>
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<th>Part No.</th>
<th>Full set</th>
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<th>B</th>
<th>Index</th>
<th>KMA pivoting</th>
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<td>080</td>
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</tbody>
</table>

(KMA = Polymer Metal Mounting Bracket)

**Part No. structure**

- **E61.290.050.12 A**: Moving end Mounting bracket
- **E61.290.050.1A**: Fixed end Mounting bracket

**Strain relief**, e.g. clamps, tie wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148.

---

These attachment types are set automatically in the choice of the KMA mounting bracket. For the preassembled mode please add index A (e.g. E61.290.050.12 A)

---

igus® GmbH Germany | Phone +49 2203 9649-800 Fax -222 | info@igus.de | www.igus.eu
**Extremely low-noise, low vibration, medium size**

When to use Series E61.52:
- If a particularly low noise, low vibration e-chain® with an inner height of 52 mm is required
- At very high speeds and/or accelerations
- Inner widths up to 300 mm
- For unsupported lengths up to 1.75 m and fill weights up to 11 kg/m
- Optimized interior-exterior dimensions ratio due to narrow outer links
- For enlarged thrusts and tensile forces
- For small bending radii
- Minimal abrasion (e.g. cleanroom applications)

Low-noise1: Small pitch for smooth running

Fast assembly: Openable along inner and outer radius

Long service life: Minimum vibration, high stability and tensile strength

Virtually no wear: No pin and bore connection

Modular design: Can be shortened and lengthened

Cleanroom2: Virtually no wear or abrasion

---

**When to use a different igus® Series:**
- Limited in side-mounted applications
  - Series E4.56 System E4.1, page 678
- No use with RBR (reverse bending radius)
  - Series E4.56 System E4.1, page 678
- No use with high additional fill weights
  - Series E4.56 System E4.1, page 678
- No use in dirty environments
  - Series E4.56 System E4.1, page 678
- No use in case of enlarged unsupported travels
  - Series E6.52 System E6.1, page 956

---

**Dimensions**

**Unsupported**

Diagram values provisionally! Please consult igus®.

- **Fill weight** = 1.0 [kg/m]
- **Unsupported length** FLB = 1.6 m
- **Length of travel** S = 3.2 m

**Unsupported e-chains®** feature positive camber over short travels. This must be accounted for when specifying the clearance height HF = H + 40 mm (with 2.0 kg/m fill weight).

---

**Technical Data**

- **Pitch** = 30 mm/link
- **Links/m** = 34 (1020 mm)
- **Chain length** = \( \frac{S}{2} + K \)

---

The required clearance height: \( H_F = H + 40 \) mm (with 2.0 kg/m fill weight)

---

Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

---

3D-CAD files, configurators, PDF » www.igus.eu/eu/E61.52
**E6.1 | Series E61.52 | Product Range | Standard**

---

**e-chains® | Series E61.52 | Operable along inner and outer radius**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>Weight [kg/m]</th>
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</thead>
<tbody>
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<td>E61.52. 040 R0</td>
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<td>E61.52. 062 R0</td>
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<td>E61.52. 070 R0</td>
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<td>E61.52. 075 R0</td>
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<td>E61.52. 087 R0</td>
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<tr>
<td>E61.52. 100 R0</td>
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<td>1.95</td>
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<tr>
<td>E61.52. 125 R0</td>
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<td>149</td>
<td>2.06</td>
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</tbody>
</table>

---

**Order key**

**E61.52.075.0**

- Standard color black
- Bending radius R
- Width index (depends on Bi)
- Series / Type

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**Configuration options and order keys, overview ➤ page 1001**

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**Available from stock. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

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**E6.1 | E61.52 | e-chains® Interior separation**

New generation interior separation - for e-chains®

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**New generation interior separation - for e-chains®**

- No lateral spacing to side links necessary.
- In the standard configuration separators are assembled every 2nd e-chain link.

**Standard - for all applications**

Separator with wide base for maximum locking strength and safe standing in e-chains®.

**For even faster installation**

Firm hold to one side with a wide base, narrow on opposite side for easy cable assembly (slight grip).

**Horizontal separation**

Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

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**Lockable full-width shelves - for the standard interior separation**

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<th>025</th>
<th>030</th>
<th>038</th>
<th>040</th>
<th>050</th>
<th>057</th>
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</table>

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**Interior separation with single-part order. Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)

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**3D-CAD files, configurators, PDF, applications ➤ www.igus.eu/eu/E61.52**

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**igus® GmbH Germany | Phone +49 2203 9649-800 | Fax -222 | info@igus.de | www.igus.eu**
KMA pivoting | All-sides attachment | Recommended for unsupported applications

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. Full set</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>Width index</th>
<th>Part No. Full set</th>
<th>A (mm)</th>
<th>B (mm)</th>
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<td>E61.520.350.12.C</td>
<td>330</td>
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</tbody>
</table>

Part No. structure

- Standard
- For tight installation conditions
- Option: integrated chainfix strain relief with C-profile
- Corrosion resistant
- Option: threaded sockets upon request

These attachment types are set automatically in the choice of the KMA mounting bracket. For the preassembled mode please add index A.

E61.520.100.12.C

Strain relief, e.g., clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options from page 1148.

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