igus® classic
Classic-Series | Line extensions | Special solutions

Older products are still available!
For new designs, we recommend using the newer and more advanced e-chain® Series. The complete product range, incl. all mounting variations and guide troughs for the "Classic"-series are available on a continuous basis. Find the complete range online with the respective quicklink. Find free to download 3D-CAD files and many more useful features.

Selection table

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height [h] [mm]</th>
<th>Inner width [B] [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>
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<tbody>
<tr>
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<tr>
<td>200/240/250</td>
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<td>25 - 125</td>
<td>41 - 141</td>
<td>35</td>
<td>55 - 250</td>
<td>2.00</td>
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<td>70 - 270</td>
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<td>75 - 300</td>
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Line extensions and special solutions

| 38/22          | E4/00                 | 52                   | 40 - 300              | 66 - 326               | 64                      | 75 - 350                   | 3.80 | 12.12|
| 38/28/22       | E4/4                  | 52                   | 40 - 300              | 66 - 326               | 64                      | 75 - 350                   | 3.80 | 12.14|
| e-band         |                       | 25.5                 | 25                   | 36                    | 36                      | 45 - 200                   | 1.50 | 12.18|

Selection table - Classics online-program - www.igus.eu/classics

<table>
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<th>Series</th>
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You miss a classic Serie in this catalog? Find a detailed catalog as PDF-download online at www.igus.eu/classics

You miss a classic Series in this catalog? At www.igus.eu/classics you find all igus® classic Series and the extensive classic-catalog as PDF download. If you prefer a printed version please call us:

You can find detailed information for each range at the relevant web link www.igus.eu/classics.
Classic-Series | Line extensions | Special solutions

Classic-series quicklinks
Quicklinks for more information or additional functions can be found on each product page. "Visit" your selected product online by clicking on www.igus.de/en/240 to find more information, such as detailed interior separation and mounting options, 3-D CAD, DXF, and PDF-files for downloading, application examples, and much more; everything you need to know about your igus® product.

www.igus.eu/classics
Find online all information about the igus® classics series

Configure your e-chain® online.
Easy takeover into the part list

Generate quick and easy a 3D-file

Detailed information for each range can be found at the relevant web link
E2 medium | Series 200·240·250

For new design: Serie “E2/000” 2400/2500 ▶ page 5.160

- Double stop dog for long unsupported length
- Snap-open, hinged to left or right, accessible from the top
- Integrated strain relief possible
- Large pins for long service life
- Lateral glide surfaces for side-mounted operation
- Tapered insertion point for easy assembly
- Cable-friendly, smooth interior with modular interior separation
- Dirt-repellent, contoured exterior
- Series 240 snap-open along inner radius can be combined with Series 250 snap-open along outer radius

Series 200 - non snap-open

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>B</th>
<th>R</th>
<th>Bending Radii</th>
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Supplement Part No. with required radius. Example: 200.10.100

Bending radii listed above can be combined with every chain width!

Series 240 - snap-open along inner radius

<table>
<thead>
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<th>Part No.</th>
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<td>240.12</td>
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Supplement Part No. with required radius. Example: 240.10.100

Bending radii listed above can be combined with every chain width!

Series 250 - snap-open along outer radius

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<tr>
<td>250.12</td>
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<td>141</td>
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Supplement Part No. with required radius. Example: 250.10.100

Bending radii listed above can be combined with every chain width!

Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)
The required clearance height is \( HF = H + 25 \) mm (with 1.5 kg/m fill weight). Please consult igus® if space is particularly restricted.

Pitch = 46 mm Links per m = 22  e-chain® length = \( \frac{H}{2} + K \)

<table>
<thead>
<tr>
<th>Part No. structure</th>
<th>Part No. with tiewrap plate</th>
<th>Part No. with tieplate + 10 cable tiewraps</th>
<th>Part No. full set without tieplate</th>
<th>Dimension A [mm]</th>
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<td>200/240/250.05.</td>
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<td>2050.34.PZBK1</td>
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Tiewrap plates are possible at the moving end and/or the fixed end!

E2 medium | Series 26-27i-27
For new design: E2/000 2600/2700 Seite 5.136

Large pins for long service life
Double stop dog for long unsupported length
Space-saving ratio of inner-to-outer dimensions
Lateral glide surfaces for side-mounted operation
Cable-friendly, smooth interior
Series 27i snap-open along inner radius can be combined with Series 27 snap-open along outer radius, accessible from the top
Modular interior separation
Integrated strain relief possible
Side wear pads

Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)
E2 medium Series 26:27i:27

Pitch = 56 mm
Links per m = 18

The required clearance height is \( HF = H + 35 \text{ mm} \) (with 2.0 kg/m fill weight). Please consult igus® if space is particularly restricted.

### Additional Features

- Interior separation with full-width shelves and shelves possible
- Polymer mounting bracket, locking
- KMA mounting bracket available with C-profile

For more features ➤ see link below

E2 medium | Series 340-350
For new design: Serie “E2/000” 3400/3500 ▶ page 5.204

1. Double stop dog for long unsupported length
2. Large pins for long service life
3. Lateral glide surfaces for side-mounted operation
4. Available with extender crossbars for large hoses
5. Cable-friendly, smooth interior
6. Integrated strain relief possible
7. Series 340 snap-open along inner radius can be combined with Series 350 snap-open along outer radius, accessible from the top
8. Dirt-repellent, contoured exterior

Series 340 - snap-open along inner radius

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Bending radii listed above can be combined with every chain width!

Series 350 - snap-open along outer radius

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Bending radii listed above can be combined with every chain width!

Order example 5.0 m complete e-chain®
(Indicate chain-lengths or number of links)
5.0 m (75 links) Series 350.150.100.0
+2 separators 311 assembled each 2nd link
+1 set mounting brackets + tie-wrap plates 3150.34.PZB

Part No. structure

- Color: black
- Bending radius
- Width
- Series

Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)
# E2 medium Series 340-350

**Pitch** = 67 mm  
**Links per m** = 15  
**e-chain® length** = \( \frac{H}{2} + K \)

<table>
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<tr>
<th>R</th>
<th>075</th>
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<th>115</th>
<th>125</th>
<th>150</th>
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<td>650</td>
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<td>875</td>
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</table>

The required clearance height is \( H_f = H + 40 \text{ mm} \) (with 2.5 kg/m fill weight). Please consult igus® if space is particularly restricted.

* not for Series 350.100

### Installation Dimensions

#### Interior Separation

**Vertical separator**  
* unassembled: 301  
* assembled: 311

#### Mounting Brackets

- Polymer pivoting, with or without strain relief tiewrap plates
- Vertical separator unassembled
- Vertical separator assembled

### Additional Features

- Interior separation with full-width shelves and shelves
- Mounting bracket polymer locking available
- KMA mounting bracket available with C-profile

For more features ➤ see link below

E2 medium | Series 340-350 | Accessories | Extender Crossbar

Special solution

Extender crossbar Series 340/350 E2 medium - for larger hoses or increased inner chain heights

Igus® Extender e-chains® were developed to provide a very smooth hose guidance. This type of extender chain is suitable for hoses with an outside diameter up to 115 mm. Hose guidance for inside radius (Series 350) as well as outside radius (Series 340) can be easily managed.

Based on its design, a smooth movement of the chain is only possible with outside radius guidance. If outside radius guidance is used, the extenders of the chain links must be supported separately to avoid touching down on the surface below. We gladly assist you with your selection for a suitable guide troughs and your system's design.

Part No. structure (extender crossbar)

<table>
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<th>Color</th>
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Cross section of a chain link with rounded extender crossbar. Crossbar Part No.: 350.150.D090

Cross section of a chain link with square extender crossbar. Crossbar Part No.: 350.175.D115*

For e-chain®

<table>
<thead>
<tr>
<th>Ø max. hoses [mm]</th>
<th>Fastening method</th>
<th>Form</th>
<th>Bending Radii [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>inner radius</td>
<td>round</td>
<td>150 200 250 300</td>
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<tr>
<td>115</td>
<td>inner radius</td>
<td>square</td>
<td>200 250 300</td>
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<tr>
<td>90</td>
<td>outer radius</td>
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<tr>
<td>115</td>
<td>outer radius</td>
<td>square</td>
<td>075 100 125 150 200 250</td>
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*Part No. 350.175.RD115 also available with rounded extender bars. Extenders suitable for Series 3400/3500. Please contact us for further information.

Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)
E2 medium | **Series 340-350** | Applications

- igus® e-chain® with extender-crossbar - safe guide for big hoses
- igus® E2 e-chains® for various applications and installations

Series 38022 - Version with increased inner height

Line extension of Series 380 ➔ page 7.274

- 10 mm of increased inner height in comparison to Series 380
- Stop dog with "brake" for noise reduction
- Locking and pivoting mounting brackets available
- Please note: Suitable only conditionally for long travels
- Crossbars are removable along both radii
- Optimized glide pads
- Wide, rounded plastic crossbars - cable friendly
- KMA mounting brackets with attachment points on all sides
- Custom-made e-chains® with reverse bending radius
- "RBR" available for circular movements

Unsupported length \[ \text{FLG} \]

= with straight upper run

Unsupported length \[ \text{FLB} \]

= with permitted sag

Part No. structure

38022.040.000.0

- Color black
- Bending radius
- Width
- Series

Order example 5.0 m complete e-chain®
(indicate chain-lengths or number of links)

- 5.0 m (75 links) Series 38022.040.000.0
- 2 separators 382213 assembled each 2nd link
- 1 set KMA mounting brackets 38022.046.12

Part No. Structure | Bending Radii |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>38022.040.000.0</td>
<td>0 40 66 075 101</td>
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<td>125 150 170</td>
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<td>38022.060.000.0</td>
<td>0 50 76 101 137</td>
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<td>38022.010.000.0</td>
<td>0 50 76 101 137</td>
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<td>38022.015.000.0</td>
<td>0 50 76 101 137</td>
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<tr>
<td>38022.020.000.0</td>
<td>0 70 86 101 137</td>
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<tr>
<td>38022.025.000.0</td>
<td>0 70 86 101 137</td>
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<tr>
<td>38022.030.000.0</td>
<td>0 70 86 101 137</td>
</tr>
<tr>
<td>38022.035.000.0</td>
<td>0 70 86 101 137</td>
</tr>
</tbody>
</table>

Supplement Part No. with required radius. Example: 38022.040.000.0 075

Bending radii listed above can be combined with every chain width!

Detailed information ➔ on request!
E4/00 | Series 38022

Pitch = 67 mm
Links per m = 15
\[ e-chain^{c} \text{ length} = \frac{S}{2} + K \]

For e-chain\(^{c}\) Part No. full set B\(^{v}\)
width-index odd: 1 or even: 2

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Odd</th>
<th>Even</th>
<th>Size</th>
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<td>50</td>
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<tr>
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<tr>
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<td>0.125</td>
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</table>

HF = H + 40 mm (bei 2,0 kg/m Zusatzlast). Please consult igus® if space is particularly restricted.

Additional Features

Interior separation with locking shelves
Optional: Mounting bracket KMA locking, Part No. 38020.XX

Detailed information ▶ on request!
# E4/4 Series 383822 Version with increased inner height

Line extension of Series 3838 page 7.

<table>
<thead>
<tr>
<th>Bending Radii</th>
<th>Bending Radii</th>
<th>R [mm]</th>
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<tr>
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<tr>
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<td>175.0</td>
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<td>300.0</td>
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<tr>
<td>225.0</td>
<td>275.0</td>
<td>350.0</td>
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<tr>
<td>275.0</td>
<td>325.0</td>
<td>400.0</td>
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<tr>
<td>325.0</td>
<td>375.0</td>
<td>500.0</td>
</tr>
</tbody>
</table>

**Supplement Part No. with required radius. Example: 383822.040.12.0**

Bending radii listed above can be combined with every chain width!

### Detailed information on request!

**Part No.**

- **Structure**
  - 383822.040.100.0
  - Color: black
  - Bending radius: 10 mm of increased inner height in comparison to Series 3838
  - High side-mount stability due to overlapping grip
  - Locking and pivoting mounting brackets available
  - High torsional rigidity
  - Crossbars are removable along both radii
  - Lateral glide surfaces for side-mounted operation
  - Wide, rounded plastic crossbars - cable friendly
  - KMA mounting brackets with attachment points on all sides
  - Custom-made e-chains® with reverse bending radius
  - "RBR" available for circular movements

**Unsupported length**

- FLG = with straight upper run
- FLB = with permitted sag

**Order example 4.0 m complete e-chain®**

- 4.0 m (80 links) Series 383822.040.300.0
- 2 separators 383213 assembled each 2nd link
- 1 set KMA mounting brackets 383822.040.12.0

**Price Index**

- 383822. E4/4 Series 383822 - crossbars every link

**Contact information**

- Phone: +49- (0) 22 03-96 49-800
- Fax: +49- (0) 22 03-96 49-222

**igus® e-chainsystems®**

- 51147 Cologne

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**E4/4 Series 383822**

Pitch = 67 mm  
Links per m = 15  
e-chain® length = \( \frac{H}{2} + K \)

<table>
<thead>
<tr>
<th>R</th>
<th>75</th>
<th>100</th>
<th>115</th>
<th>125</th>
<th>150</th>
<th>170</th>
<th>200</th>
<th>215</th>
<th>250</th>
<th>300</th>
<th>350</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>215</td>
<td>265</td>
<td>295</td>
<td>315</td>
<td>365</td>
<td>405</td>
<td>465</td>
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<td>299</td>
<td>314</td>
<td>349</td>
<td>399</td>
<td>449</td>
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<tr>
<td>K</td>
<td>370</td>
<td>450</td>
<td>500</td>
<td>530</td>
<td>610</td>
<td>670</td>
<td>765</td>
<td>810</td>
<td>920</td>
<td>1080</td>
<td>1235</td>
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</tbody>
</table>

The required clearance height is \( H_F = H + 40 \text{ mm} \) (with 2.0 kg/m fill weight). Please consult igus® if space is particularly restricted.

### Mounting Brackets

Optional: Mounting bracket KMA, locking, Part No. 393822.XX

### Weitere Features

Interior separation with locking shelves

Optional: Mounting bracket KMA, locking, Part No. 393822.XX

Detailed information on request!
Series 38022 - 383822 | **Accessories** | **Interior Separation**

**Option 1: Vertical separator**

Vertial separators are used if a vertical subdivision of the e-chain® interior is required. By standard vertical separators are assembled every other e-chain® link.

- Standard separator 382212 for e-chains® offers safe stability due to its wide base design, also when used with thick cables or hoses.

**Option 2: Shelves**

For applications involving many cables with different diameters. The Shelves can be arranged elevator-shifted with different bottoms within the entire e-chain® width.

- Shelf 2210.X can be combined with Separator, slotted 38221, Locking separator 38228, Locking vertical separator 382214, Side plate 38225 and Slotted separator 38225.

### Table: Shelves

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>Part No. unassembled</th>
<th>Part No. assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>2200.18</td>
<td>2210.18</td>
</tr>
<tr>
<td>23</td>
<td>2200.23</td>
<td>2210.23</td>
</tr>
<tr>
<td>28</td>
<td>2200.28</td>
<td>2210.28</td>
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<tr>
<td>33</td>
<td>2200.33</td>
<td>2210.33</td>
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<tr>
<td>38</td>
<td>2200.38</td>
<td>2210.38</td>
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<tr>
<td>43</td>
<td>2200.43</td>
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<tr>
<td>48</td>
<td>2200.48</td>
<td>2210.48</td>
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<table>
<thead>
<tr>
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<th>Part No. assembled</th>
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<tbody>
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<td>58</td>
<td>2200.58</td>
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<td>68</td>
<td>2200.68</td>
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<tr>
<td>149</td>
<td>2200.149</td>
<td>2210.149</td>
</tr>
</tbody>
</table>

**Detailed information on request!**
My Sketches

Detailed information on request!
Series e-band
Special solution - Low wear, low noise

- Low-abrasion chain links are suitable for cleanroom applications
- No pin/bore connection
- Suitable for gliding operation
- Low-noise
- Simply press cables in
- e-band can be extended, shortened and widened at every point
- iF-Design-Award

Low-abrasion chain links are suitable for cleanroom applications.
No pin/bore connection.
Suitable for gliding operation.
Low-noise.
Simply press cables in.
e-band can be extended, shortened and widened at every point.
iF-Design-Award.

Part No. structure
EB20.025.045.0  Black  1 set mounting brackets
Color  Bending radius  Width  Series

Order example 2,0 m complete e-chain®
(Indicate chain lengths or number of links)
1,0 m - 4 links, Series EB20.025.045.0
*available upon request.

 Unsupported length
F_{u} = straight upper run
F_{l} = with permitted sag
F_{s} = with straight upper run
F_{l} = with permitted sag

Bending radii listed above can be combined with every chain width!

Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)
Series e-band

Pitch = 25 mm Links per m = 40 (2 Bänder/m) e-chain® length = \( \frac{H_f}{2} + K \)

<table>
<thead>
<tr>
<th>R</th>
<th>045</th>
<th>063</th>
<th>075</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>175</th>
<th>200</th>
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<tbody>
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<td>H</td>
<td>162</td>
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<td>272</td>
<td>322</td>
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<td>375</td>
<td>450</td>
<td>525</td>
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The required clearance height is \( H_f = H + 30 \text{ mm} \) (with 0,3 kg/m fill weight). Please consult igus® if space is particularly restricted.

Additional Features

For more features ➤see link below

For detailed information ➤www.igus.de/en/EBAND
I would like to receive the following print media catalogs: 
chainflex® special cable sand Polymer Bearings

- Over 950 chainflex® cables for all applications
- Listed according to price categories
- Detailed description of cable assembly

- All technical specifications of the igus® plain bearing product range
- Many application examples and calculation assistance
- More than 9,600 polymer bearing products in one catalog

Please copy, fill in and fax to +49- (0) 22 03-96 49-222 or visit our homepage [www.igus.eu](http://www.igus.eu)
We are ordering according to igus® general terms of sale.
The prices are exclusive of the statutory value-added tax.

<table>
<thead>
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</table>

Delivery date: ___________________________ Signature/stamp: ___________________________

Fax | e-chainsystems® | Fax-Order | Fax-Enquiry

Date: ________________________________ Phone: +49- (0) 22 03 96 49 - 800
Fax: +49- (0) 22 03 96 49 - 222

From:

Phone: ________________________________
Fax: ________________________________

To:
igus® GmbH
Technical Sales
e-chainsystems®
Spicher Str. 1a
51147 Köln (Porz-Lind)

Order No. ________________________________ page___________ of _____________ pages

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Fax | e-chainsystems® | Fax-Order | Fax- Enquiry

<table>
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<tr>
<th>Item No.</th>
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</thead>
</table>

Date: ____________________
Phone: +49- (0) 22 03 96 49 - 800
Fax: +49- (0) 22 03 96 49 - 222

From: igus® GmbH
Technical Sales
e-chainsystems®
Spicher Str. 1a
51147 Köln (Porz-Lind)

To: e-chainsystems®
Fax-Order Fax- Enquiry
Order No. page_________ of _________ pages

Delivery date: ____________________
Signature/stamp

We are ordering according to igus® general terms of sale.
The prices are exclusive of the statutory value-added tax.

Please copy, fill in and fax to +49- (0) 22 03-96 49-222 or visit our homepage ➤ www.igus.eu 12.23
**Fax** | **e-chainsystems®** | **Harnessing analysis**

| Date: | Phone: +49- (0) 22 03 96 49 - 800 |
| Fax: +49- (0) 22 03 96 49 - 222 |

**From:**

**Phone:**

**Fax:**

**To:**

igus® GmbH
Technical Sales
e-chainsystems®
Spicher Str. 1a
51147 Köln (Porz-Lind)

<table>
<thead>
<tr>
<th>e-chain® Type</th>
<th>Length</th>
</tr>
</thead>
</table>

**Cable/hose requirements::**

- Cable/hose layout within carrier

**Interior separation / Vertical separators**

**Cable/Hose End 1** | **Connector End 1** | **Union 1** | **Cable/Hose End 2** | **Union 2** | **Connector End 2**

---

12.24 Please copy, fill in and fax to +49- (0) 22 03-96 49-222 or visit our homepage ▶️ [www.igus.eu](http://www.igus.eu)
**Harnessing analysis**

<table>
<thead>
<tr>
<th>Date:</th>
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<tbody>
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**From:**

**igus® GmbH**

Technical Sales

e-chainsystems®

Spicher Str. 1a

51147 Köln (Porz-Lind)

**To:**

**e-chain® Type**

**Length**

**Cable/hose requirements:**

---

**Interior separation / Vertical separators**

**Cable/hose layout within carrier**

<table>
<thead>
<tr>
<th>Cable/Hose End 1</th>
<th>Connector End 1</th>
<th>Union 1</th>
<th>Cable/Hose End 2</th>
<th>Union 2</th>
<th>Connector End 2</th>
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</thead>
<tbody>
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<td></td>
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</tbody>
</table>

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Fax | e-chainsystems® | Project analysis

Date: 

Phone: +49- (0) 22 03 96 49 - 800

Fax: +49- (0) 22 03 96 49 - 222

From: 

To: igus® GmbH
Technical Sales
e-chainsystems®
Spicher Str. 1a
51147 Köln (Porz-Lind)

Phone: 

Fax: 

Travel S  [mm]  Max installation height  [mm]

If desired  [mm]

Fixed end center of travel  yes or  [mm] from the center

Construction width  Max. width permitted?  [mm]

Guide trough?  yes.  If yes which:

Dim.:  [mm]

Dim.:  [mm]

Assembly point (floor, wall, console, etc.)  [mm]

Span (standard = 2 m)  [mm]

Speed  [m/s]  Acceleration  [m/s²]  Ø Outer diameter  [mm]

Cycles/Day  

Days/Year  

Temperature  [°C]  Humidity  [%]  Dust, dirt, chips

Special parameters

Number  Manufacturer/Type, No.  Conductor/AWG  Ø [mm]  Weight [kg/m]  Bending Radius

Further individual components desired:

- e-chains® / e-tubes
- chainflex® cables/special conduits
- Guide troughs
- Strain relief
- Harnessing
- On-site assembly
- Special requests

12.26 Please copy, fill in and fax to +49- (0) 22 03 96 49-222 or visit our homepage ➤ www.igus.eu
Fax | e-chainsystems® | Project analysis

<table>
<thead>
<tr>
<th>Date:</th>
<th>Phone: +49- (0) 22 03 96 49 - 800</th>
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<tbody>
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</tbody>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Desired Value</th>
<th>Optional Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel S</td>
<td>[mm]</td>
<td>fixed or center of travel, [mm] from the center</td>
</tr>
<tr>
<td>Max. width permitted?</td>
<td>[mm]</td>
<td></td>
</tr>
<tr>
<td>Guide trough?</td>
<td>yes, if yes which:</td>
<td></td>
</tr>
<tr>
<td>Dim.:</td>
<td>[mm]</td>
<td></td>
</tr>
<tr>
<td>Dim.:</td>
<td>[mm]</td>
<td></td>
</tr>
<tr>
<td>Assembly point (floor, wall, console, etc.)</td>
<td>[mm]</td>
<td></td>
</tr>
<tr>
<td>Span (standard = 2 m)</td>
<td>[mm]</td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>[m/s]</td>
<td></td>
</tr>
<tr>
<td>Acceleration</td>
<td>[m/s²]</td>
<td></td>
</tr>
<tr>
<td>Cycles/Day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Days/Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>[°C]</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>[%]</td>
<td></td>
</tr>
<tr>
<td>Dust, dirt, chips</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special parameters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>Manufacturer/Type, No.</th>
<th>Conductor/AWG</th>
<th>Ø [mm]</th>
<th>Weight [kg/m]</th>
<th>Bending Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Further individual components desired:**

<table>
<thead>
<tr>
<th>Component</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>e-chains® / e-tubes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>chainflex® cables/special conduits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guide troughs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strain relief</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harnessing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-site assembly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please copy, fill in and fax to +49- (0) 22 03-96 49-222 or visit our homepage [www.igus.eu](http://www.igus.eu)
Project analysis | Zig-Zag application

Date: Phone: +49- (0) 22 03 96 49 - 800
Fax: +49- (0) 22 03 96 49 - 222

From: To:

Phone: Fax:

---

Zig-Zag travel:

- Strokes (x4) __________ mm
- Connection height (x5) __________ mm

Zick-Zack box:

- Max. height (x1) __________ mm
- Max. length (x3) __________ mm

---

Temperature __________ °C
Humidity __________ [%]

Special parameters

---

<table>
<thead>
<tr>
<th>Dynamics</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed __________ m/s</td>
<td>Acceleration __________ m/s²</td>
</tr>
<tr>
<td>Cycles/Day __________</td>
<td>Days/Year __________</td>
</tr>
<tr>
<td>Ø Outer diameter __________ mm</td>
<td></td>
</tr>
</tbody>
</table>

---

Number Manufacturer/Type, No. Conductor/AWG Ø [mm] Weight [kg/m] Bending Radius

---

Further individual components desired:

- e-chains® / e-tubes
- chainflex® cables/special conduits
- Guide troughs
- Strain relief
- Harnessing
- On-site assembly
- Others

- To be opened on both sides
- Along the outer radius
- Along the inner radius
- Special requests

---

12.28 Please copy, fill in and fax to +49- (0) 22 03-96 49-222 or visit our homepage ➤ www.igus.eu
Fax | Project analysis | RBR\(^*\) application (Reverse Bending Radius)

<table>
<thead>
<tr>
<th>Date:</th>
<th>Phone: +49-(0) 22 03 96 49 - 800</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fax: +49-(0) 22 03 96 49 - 222</td>
</tr>
</tbody>
</table>

From:

Phone: 

Fax: 

To: igus\(^*\) GmbH
Technical Sales
e-chainsystems\(^*\)
Spicher Str. 1a
51147 Köln (Porz-Lind)

---

<table>
<thead>
<tr>
<th>Side View</th>
<th>3D View</th>
</tr>
</thead>
<tbody>
<tr>
<td>h [mm]</td>
<td>C Outer rotating</td>
</tr>
<tr>
<td>A [mm]</td>
<td>D Inner rotating</td>
</tr>
<tr>
<td>B [mm]</td>
<td>Rotation angle: ( \pm ) [°/mm]</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Speed [m/s]</th>
<th>Acceleration [m/s²]</th>
<th>Ø Outer diameter [mm]</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Cycles/Day</th>
<th>Days/Year</th>
</tr>
</thead>
</table>

---

<table>
<thead>
<tr>
<th>Temperature [°C]</th>
<th>Kind of (e.g. chips)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity [%]</td>
<td>ESD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dirt/Dust</th>
<th>Special parameters</th>
</tr>
</thead>
</table>

---

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<th>Manufacturer/Type, No.</th>
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<th>Bending Radius</th>
</tr>
</thead>
</table>

---

Additional:

Guide trough RBR
Material
- galvanized
- 1.4301 (304)
- 1.4404 (316L)
- 1.4571 (316Ti)

Supports/Brackets
- by igus\(^*\)
- by customer

Cover needed?
- yes
- no

Drawing/sketch from customer available? □

Drawing/sketch desired by igus\(^*\)? □

Special requests/notes

---

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Mounting bracket 1.8 et seqq.
Motion, combined 1.4
Modular design 1.21
noise corrected 1.11
Measured values, background
Maximum additional load 1.4, 1.24, 1.25
Material data
Lower run 1.17
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Load-bearing surface 1.10
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Lateral expansion 1.31
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Interior separation (shelving) 1.29
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Impact strength 1.29
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- circular movement 1.26 et seq.
- hanging 1.20 et seq.
- height, nominal 1.10
- height, required (HF) 1.5
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Interior separation (shelving) 1.29
IPN 1.34
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Laboratory 1.3, 1.42
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Lateral expansion 1.31
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Material data 1.30
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Measured values, background
noise corrected 1.11
Modular design 1.31
Motion, combined 1.4
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- short 1.8 et seq.
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- definition 1.8
- length 1.8 et seq.
- noise optimized 1.11
- short travel 1.8 et seq.
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- with bend FLB 1.8, 1.13, 1.15
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Selection guide | Designing e-chains®

1. Determine the size of the e-chain® based on the specified installation space of your machine and/or of the selected filling (such as the number of cables/out diameter of cable).

2. Determine fill weight
   - Determine fill weight of cables and/or media hoses in [kg/m] using chainflex® Quick Selection manufacturer specification.

3. Determine length of travel
   - Compare the fill weight calculated in (point 2) to the maximum fill weight of the selected e-chain® and check suitability for "unsupported application".

4. Unsupported length
   - The maximum unsupported length initially depends on the fill weight and the e-chain® selected. At the same time, there are three different levels of unsupported length:
     - FLG: Recommended Range of Application
     - FLB: Permitted Sag
     - Critical Sag: Should never be operative installation!
     - Twice the value of the unsupported length determines the maximum travel in the "unsupported" type of operation. For evaluation the weight of the cables to be carried must be known, then an exact evaluation can be made using a diagram on the introductory page of the selected product. You will find the values for FLG and FLB in tables on the following pages of this chapter and for each Series in the catalog. They are necessary for: Finding the fill weight and length of travel for the appropriate e-chain®.
     - Identifying the maximum load of the e-chain® used.

5. If there is suitability for "unsupported straight", then the selection follows the following criteria:
   - Opening Principle - The quick selection gives you an overview of the type of filling potential of the e-chain®.

6. Determine the possible Bending Radius R [mm] of the e-chain® with respect to the cable diameter.

7. Interior separation is possible with...
   - Separators
   - Full-width shelves
   - Stacks

8. The price index gives you the possibility of making price comparisons of chainflex® sizes within the quick range:
   - Low
   - Medium
   - Highest

9. Additional criteria - for the appropriate selection of your e-chains® such as pitch, permissible temperatures etc. are available under quick selection.

The following options are available if there is no possibility of self-supporting e-chain® application:

A. You can choose the next and more stable e-chain®, that can be operated "unsupported".

B. You can design your application to be "gliding".

You can contact us directly or fax us your e-chain® requests! We will respond immediately!

e-chain® Part No: ____________________________

Fill weight:______________________ kg/m
Length of travel:______________________ m
Your Phone:__________________________
Your Fax:__________________________
Internet: www.igus.de/en/finder