Advantages of igus® e-chains® for long travels

● Travel lengths of 800m and more are possible
● Very space-saving and energy-efficient
● For speeds up to 10m/s
● For fill weights up to 30kg/m
● Weather and dirt-resistant
● Suitable chainflex® cables
● Optional Condition Monitoring Systems
**E4/4HD | P4 | Rol e-chains® | E2/000 rol e-chains®**

**E-chains® for long travels**

**Very high fill weights for long travels - E4/4HD "Heavy-Duty"**
- For very heavy fill weights and long travels
- Strong, even when used in very dirty or humid environments
- High torsional rigidity
- Long service life
- Recommended for heavy-duty applications

*From page 1092*

**Reduce energy consumption by 57% - P4 profile-rol e-chain®**
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

*From page 1112*

**Rolling instead of gliding, long travels up to 800m - E4/4 rol e-chain®**
- 75% reduction of drive power needed to move the e-chain®
- Long travels up to 800m with E4/4 rol e-chain®
- Speeds up to 6m/s possible
- Can be used in dirty environments

*From page 1142*

**Long travels up to 150m, energy-efficient and cost-effective - E2/000 rol e-chain®**
- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Max. rolling speed up to 4m/s
- Available as cost-effective ready-to-fit harnessed system
- Many accessories available

*From page 1160*

--

**autoglide | 4 versions**

**Self-guiding e-chain systems®, without the need for any guide troughs**

**Self-guiding e-chains® for system E4.1 - autoglide version 01**
- For the larger E4.1 e-chains®
- Simple guide elements for quick installation
- The autoglide crossbars safely guide the e-chain® replacing the need for a guide trough
- For travels over 10m
- Floor guides can be driven over

*From page 1174*

**Self-guiding e-chains® for system E2/000 - autoglide version 02**
- Travel distance up to 70m and speed up to 2.0m/s
- Very compact, removes troughs forming an obstacle in the working area
- Quick installation for long travels
- Openable along the inner radius
- Clip-on glide wings, secure movement of the e-chain®

*From page 1182*

**Easy chain® openable along the outer radius, fitted with moulded autoglide grooves along the inner radius - autoglide Version 03**
- Doubly cost-effective due to elimination of guide troughs and economical, one-piece e-chain®
- Very quick assembly time - "easy" design
- Small width, quiet operation
- UL94-V2 classification

*From page 1190*

**Special glide shoes provide a safe guiding for the E2/000 - autoglide version 04**
- Reliable and precise guidance due to special plastic glide shoes
- Long travels with easier filling
- Provides precise lateral guidance and a smooth gliding of the e-chain®
- e-chains® openable along the outer radius

*From page 1194*
E4/4HD
Very high fill weights for long travels

E4/4HD advantages:
● For heavy-duty applications
● For very heavy fill weights and long travels
● The E4/4HD offers the required strength for long travels, dirty environments or with high humidity
● The undercut design provides extremely high torsional rigidity
● Extended service life is facilitated by particularly large glide surfaces
● Recommended for heavy-duty applications

When to use another e-chain® series:
● When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
  ► P4 system, page 1112
● When you want a strong E4/4 rol e-chain® requiring 75% less drive power
  ► E4/4 rol e-chain®, page 1142
● When you want a self-guiding e-chain system® without any guide troughs
  ► autoglide, page 1170
**Very high fill weights for long travels - E4/4HD**

The E4/4HD system was designed for the most demanding tasks. The E4/4HD provides the required strength for long travels, with high fill weights, dirty environments or with high humidity.

- **Sturdy side links for very high fill weights and long travels**
- **The undercut design provides extremely high torsional rigidity**
- **Extended service life is facilitated by particularly large glide surfaces**
- **Recommended for heavy-duty applications**

**Typical industries and applications**
- RTGs, quayside cranes, and many other types of crane
- Heavy machinery
- Steelworks
- Shipyards
- Composting plants
- Construction machines
- Pulp and paper industries
- Food, drinks and pharmaceutical industries
- Agriculture
- General mechanical engineering etc.

**Available from stock. Ready to ship in 24 - 48hrs.***

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

**E4/4HD | 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>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040HD</td>
<td>56</td>
<td>50 - 600</td>
<td>104 - 654</td>
<td>84</td>
<td>135 - 400</td>
<td>350</td>
<td>1098</td>
</tr>
<tr>
<td>5050HD</td>
<td>80</td>
<td>50 - 600</td>
<td>110 - 660</td>
<td>108</td>
<td>150 - 500</td>
<td>500</td>
<td>1104</td>
</tr>
<tr>
<td>8840HD</td>
<td>56</td>
<td>75 - 462</td>
<td>129 - 516</td>
<td>84</td>
<td>150 - 400</td>
<td>350</td>
<td>1098</td>
</tr>
<tr>
<td>9850HD</td>
<td>80</td>
<td>75 - 462</td>
<td>135 - 522</td>
<td>108</td>
<td>150 - 500</td>
<td>500</td>
<td>1104</td>
</tr>
</tbody>
</table>

**E4/4HD - high torsional rigidity**
- Electrically conductive ESD e-chains® upon request
- E4/4HD system, tried and tested for very long travels

**E-tubes**
- Fully enclosed, excellent cable protection

**AX - special e-chains® - especially for fine dust applications**
- For long travels in fine-particle applications
- Exterior stop-dogs prevent the build-up of dust, dirt, swarf, flour, etc.
- Mounting brackets and accessories available

**Reduce assembly time - E4 e-chain® opener**
- e-chain® opener tools for easy opening and closing of e-chains®
- Simple opening and closing of e-chain® crossbars
- Also for use in hard to reach locations
- Significant assembly time reduction

More information ➤ www.igus.eu/E4savetime

**AX - special e-chains® - especially for fine dust applications**
- For long travels in fine-particle applications
- Exterior stop-dogs prevent the build-up of dust, dirt, swarf, flour, etc.
- Mounting brackets and accessories available

More information ➤ www.igus.eu/4040AX

**E4/4HD | Introduction | Advantages**

- **Robust steel mounting brackets**
- **Very high torsional rigidity**
- **High tensile strength**
- **e-tubes lids openable and removable**
- **Swarf protection**
- **e-chains® and e-tubes can be combined**
- **Very large gliding surface, low wear**
- **Undercut design ensures very high rigidity and load capacity**
- **Notch crossbar with visual scale**
- **Large, cable-friendly openable crossbars**

Explore the benefits ➤ www.igus.eu/best/E4HD
E4/4HD | Technical data | Order examples

**Technical data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed gliding</td>
<td>≤ 10 [m/s]</td>
</tr>
<tr>
<td>Acceleration gliding</td>
<td>≤ 50 [m/s²]</td>
</tr>
<tr>
<td>Material - permitted temperature °C, igumid G</td>
<td>-40°C / +120°C</td>
</tr>
<tr>
<td>Flammability class, igumid G</td>
<td>VDE 0304 IIC UL94-HB</td>
</tr>
</tbody>
</table>

**Order example** | **Order key**

Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

- e-chain® (1.0m) Please indicate e-chain® length or number of links: 1.0m or 11 links: 4040HD.30.300.0
- + Mounting brackets: 1 full set, steel: 40400HD.12.E
- Interior separation with 2 separators assembled every 2nd link: 2 x 56.1.1

Order text: 1 m 4040HD.30.300.0 + 40400HD.12.E + 2 x 56.1.1

**Order key**

4040HD.30.300.0

- Default colour black
- Bend radius R
- Width index
- Series / Type

---

**E4/4HD | Application example**

The maintenance-free series 4040HD protects the igus® chainflex® motor and signal cables during the lifting and lowering movements of this tidal turbine and protects them against the aggressive ambient conditions. 20m vertical movement above and below water.

**P4 profile-rol e-chain® - reduce energy consumption by 57%**

- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

More information ➤ From page 1112

**E4/4 rol e-chain® - rolling instead of gliding**

- 75% reduction of drive power needed to move the e-chain®
- Long travels up to 800m with E4/4 rol e-chain®
- Speeds up to 6m/s possible
- Uniform roller resistance

More information ➤ From page 1142

**autoglide - self-guiding e-chain systems®**

- Self-guiding e-chains® without the need for guide troughs, available in 4 versions
- Travels up to 80m and travel speeds up to 2.5m/s
- Quick installation for long travels
- Small width, quiet operation, cost-effective

More information ➤ From page 1170
### Gliding applications | Long travels up to max. 350m | Fill weight 16kg/m

\[
L_k = \frac{S}{2} + K_2
\]

- **Moving end**
- **Guide trough with glide bar**
- **Fixed end**
- **Guide trough without glide bar**

#### Notes:
- We recommend the project planning of such a system to be carried out by igus®.
- In case of travels under 10m we recommend an unsupported e-chain®.

**Radius not available for e-tubes.**

\[
K_2 = 728 \times \frac{819}{1,274} = 480 \times 1,638 = 2,002 \times 2,366 = 2,548
\]

**Swarf up to +850°C**
- e-tubes to withstand +850°C swarf, as a special option
- No hot swarf melting or embedding into the chain
- igus® HT material

More information | www.igus.eu/HT

---

**Part No.**
- **e-chains® / e-tubes**
- **Series 4040HD**
- **Series 8840HD**
- **Fully closed**

**Available bend radii**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>BI</th>
<th>Ba</th>
<th>4040HD</th>
<th>8840HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040HD.</td>
<td>05.</td>
<td>R0</td>
<td>50</td>
<td>104</td>
</tr>
<tr>
<td>4040HD.</td>
<td>06.</td>
<td>R0</td>
<td>65</td>
<td>119</td>
</tr>
<tr>
<td>4040HD.</td>
<td>8840HD 07.</td>
<td>R0</td>
<td>75</td>
<td>129</td>
</tr>
<tr>
<td>4040HD.</td>
<td>10.</td>
<td>R0</td>
<td>100</td>
<td>154</td>
</tr>
<tr>
<td>4040HD.</td>
<td>11.</td>
<td>R0</td>
<td>112</td>
<td>166</td>
</tr>
<tr>
<td>4040HD.</td>
<td>12.</td>
<td>R0</td>
<td>125</td>
<td>179</td>
</tr>
<tr>
<td>4040HD.</td>
<td>13.</td>
<td>R0</td>
<td>137</td>
<td>191</td>
</tr>
<tr>
<td>4040HD.</td>
<td>15.</td>
<td>R0</td>
<td>150</td>
<td>204</td>
</tr>
<tr>
<td>4040HD.</td>
<td>16.</td>
<td>R0</td>
<td>162</td>
<td>216</td>
</tr>
<tr>
<td>4040HD.</td>
<td>17.</td>
<td>R0</td>
<td>175</td>
<td>229</td>
</tr>
<tr>
<td>4040HD.</td>
<td>18.</td>
<td>R0</td>
<td>187</td>
<td>241</td>
</tr>
<tr>
<td>4040HD.</td>
<td>20.</td>
<td>R0</td>
<td>200</td>
<td>254</td>
</tr>
<tr>
<td>4040HD.</td>
<td>21.</td>
<td>R0</td>
<td>212</td>
<td>266</td>
</tr>
<tr>
<td>4040HD.</td>
<td>22.</td>
<td>R0</td>
<td>225</td>
<td>279</td>
</tr>
<tr>
<td>4040HD.</td>
<td>23.</td>
<td>R0</td>
<td>237</td>
<td>291</td>
</tr>
<tr>
<td>4040HD.</td>
<td>25.</td>
<td>R0</td>
<td>250</td>
<td>304</td>
</tr>
<tr>
<td>4040HD.</td>
<td>26.</td>
<td>R0</td>
<td>262</td>
<td>316</td>
</tr>
<tr>
<td>4040HD.</td>
<td>27.</td>
<td>R0</td>
<td>275</td>
<td>329</td>
</tr>
<tr>
<td>4040HD.</td>
<td>28.</td>
<td>R0</td>
<td>287</td>
<td>341</td>
</tr>
<tr>
<td>4040HD.</td>
<td>30.</td>
<td>R0</td>
<td>300</td>
<td>354</td>
</tr>
</tbody>
</table>

**Part No.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>BI</th>
<th>Ba</th>
<th>4040HD</th>
<th>8840HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040HD.</td>
<td>31.</td>
<td>R0</td>
<td>312</td>
<td>366</td>
</tr>
<tr>
<td>4040HD.</td>
<td>32.</td>
<td>R0</td>
<td>325</td>
<td>379</td>
</tr>
<tr>
<td>4040HD.</td>
<td>33.</td>
<td>R0</td>
<td>337</td>
<td>391</td>
</tr>
<tr>
<td>4040HD.</td>
<td>36.</td>
<td>R0</td>
<td>362</td>
<td>416</td>
</tr>
<tr>
<td>4040HD.</td>
<td>37.</td>
<td>R0</td>
<td>375</td>
<td>429</td>
</tr>
<tr>
<td>4040HD.</td>
<td>38.</td>
<td>R0</td>
<td>387</td>
<td>441</td>
</tr>
<tr>
<td>4040HD.</td>
<td>40.</td>
<td>R0</td>
<td>400</td>
<td>454</td>
</tr>
<tr>
<td>4040HD.</td>
<td>41.</td>
<td>R0</td>
<td>412</td>
<td>466</td>
</tr>
<tr>
<td>4040HD.</td>
<td>42.</td>
<td>R0</td>
<td>425</td>
<td>479</td>
</tr>
<tr>
<td>4040HD.</td>
<td>43.</td>
<td>R0</td>
<td>437</td>
<td>491</td>
</tr>
<tr>
<td>4040HD.</td>
<td>44.</td>
<td>R0</td>
<td>447</td>
<td>514</td>
</tr>
<tr>
<td>4040HD.</td>
<td>45.</td>
<td>R0</td>
<td>450</td>
<td>504</td>
</tr>
<tr>
<td>4040HD.</td>
<td>46.</td>
<td>R0</td>
<td>462</td>
<td>516</td>
</tr>
<tr>
<td>4040HD.</td>
<td>47.</td>
<td>R0</td>
<td>475</td>
<td>529</td>
</tr>
<tr>
<td>4040HD.</td>
<td>48.</td>
<td>R0</td>
<td>487</td>
<td>541</td>
</tr>
<tr>
<td>4040HD.</td>
<td>50.</td>
<td>R0</td>
<td>500</td>
<td>554</td>
</tr>
<tr>
<td>4040HD.</td>
<td>51.</td>
<td>R0</td>
<td>512</td>
<td>566</td>
</tr>
<tr>
<td>4040HD.</td>
<td>52.</td>
<td>R0</td>
<td>525</td>
<td>579</td>
</tr>
<tr>
<td>4040HD.</td>
<td>53.</td>
<td>R0</td>
<td>537</td>
<td>591</td>
</tr>
<tr>
<td>4040HD.</td>
<td>55.</td>
<td>R0</td>
<td>550</td>
<td>604</td>
</tr>
<tr>
<td>4040HD.</td>
<td>60.</td>
<td>R0</td>
<td>600</td>
<td>654</td>
</tr>
</tbody>
</table>

**Available bend radii**

- **R** [mm] | 135 | 150 | 200 | 250 | 300 | 350 | 400
- Complete Part No. with required radius **R**. Example: 4040HD.30.300.0

Steel, pivoting | For gliding applications and long travels

<table>
<thead>
<tr>
<th>Part No. full set</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>steel pivoting</td>
<td>mounting bracket</td>
</tr>
<tr>
<td>40400HD.12.2.VS.E</td>
<td>Set of stainless steel mounting brackets, assembled</td>
</tr>
<tr>
<td>40400HD.1.2.VS.E</td>
<td>Mounting brackets moving end, assembled</td>
</tr>
<tr>
<td>40400HD.2.2.VS.E</td>
<td>Mounting brackets fixed end, assembled</td>
</tr>
</tbody>
</table>

Stainless steel version available. Please add the index E (Material: stainless steel 1.4301)

Steel mounting brackets | Pivoting

Moving end 40400HD.1.1.E

Fixed end 40400HD.2.E

Steel, pivoting | For gliding applications and long travels

Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Shelves

<table>
<thead>
<tr>
<th>Width × X [mm]</th>
<th>X [mm]</th>
<th>unassembled</th>
<th>assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>050</td>
<td>520.050</td>
<td>521.050</td>
<td></td>
</tr>
<tr>
<td>065</td>
<td>520.065</td>
<td>521.065</td>
<td></td>
</tr>
<tr>
<td>075</td>
<td>520.075</td>
<td>521.075</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>520.100</td>
<td>521.100</td>
<td>225</td>
</tr>
<tr>
<td>125</td>
<td>520.125</td>
<td>521.125</td>
<td>225</td>
</tr>
</tbody>
</table>

Note: Please be aware of the minimum lateral gap to the side links! e-tube: 40mm | e-chain®: 16mm

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

For even faster installation
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®. Also available for QuickLock crossbars.

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

Locks securely in preset increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.


www.igus.eu/E4HD
Lean separators  New  
New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Notch locking separator for increased holding force  
Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

Note: Please be aware of the minimum lateral gap to the side links! e-tube: 40mm | e-chain®: 16mm 
As standard separators are fitted every 2nd e-chain® link!

Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time  
(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)

More interior separation options  

Order example: length of 30m - centre fixed for series 4040HD, 30.300.0 with $B_{Na} = 358$  
Guide trough set (set of 2 trough side parts, incl. glide strips) without glide bars
Order text: 16m guide trough without glide bar (8 x 2m sections)  
974.30.SL

Guide trough set (set of 2 trough side parts, incl. glide strips) with glide bar
Order text: 16m guide trough with glide bar (8 x 2m sections)  
974.31.SL

Installation set complete (quantity: guide trough sets + 1)  
974.50.475

Order text: 17 installation sets  
Option: for an additional noise dampening with silencer profile, please add index A  
974.30.SLA

Principle sketch: number of installation sets to be installed = number of trough sections + 1
e-chains® / Series 5050HD | Crossbars every link (crossbars removable along the inner and outer radius)

e-tubes | Series 9850HD | Fully closed (ids operable along the outer radius, from one side)

Part No. | Bi | Ba | 5050HD | 9850HD
--- | --- | --- | --- | ---
5050HD - | 05. R0 | 50 | 110 | 6.65 |
5050HD - | 06. R0 | 65 | 125 | 6.74 |
5050HD, 9850HD - | 07. R0 | 75 | 135 | 6.81 |
5050HD - | 08. R0 | 87 | 147 | 6.90 |
5050HD, 9850HD - | 10. R0 | 100 | 160 | 6.99 |
5050HD - | 11. R0 | 112 | 172 | 7.10 |
5050HD, 9850HD - | 12. R0 | 125 | 185 | 7.18 |
5050HD - | 13. R0 | 137 | 197 | 7.28 |
5050HD, 9850HD - | 15. R0 | 150 | 210 | 7.35 |
5050HD - | 16. R0 | 162 | 222 | 7.47 |
5050HD, 9850HD - | 17. R0 | 175 | 235 | 7.60 |
5050HD - | 18. R0 | 187 | 247 | 7.71 |
5050HD, 9850HD - | 20. R0 | 200 | 260 | 7.77 |
5050HD - | 21. R0 | 212 | 272 | 7.84 |
5050HD, 9850HD - | 22. R0 | 225 | 285 | 7.91 |
5050HD - | 23. R0 | 237 | 297 | 8.02 |
5050HD, 9850HD - | 25. R0 | 250 | 310 | 8.13 |
5050HD - | 26. R0 | 262 | 322 | 8.23 |
5050HD, 9850HD - | 27. R0 | 275 | 335 | 8.32 |
5050HD - | 28. R0 | 287 | 347 | 8.43 |
5050HD, 9850HD - | 30. R0 | 300 | 360 | 8.53 |

Part No. | Bi | Ba | 5050HD | 9850HD
--- | --- | --- | --- | ---
5050HD - | 31. R0 | 312 | 372 | 6.07 |
5050HD - | 32. R0 | 325 | 385 | 6.15 |
5050HD - | 33. R0 | 337 | 397 | 6.29 |
5050HD, 9850HD - | 35. R0 | 350 | 410 | 6.89 |
5050HD - | 36. R0 | 362 | 422 | 6.90 |
5050HD - | 37. R0 | 375 | 435 | 7.00 |
5050HD - | 38. R0 | 387 | 447 | 7.11 |
5050HD, 9850HD - | 40. R0 | 400 | 460 | 7.38 |
5050HD - | 41. R0 | 412 | 472 | 7.31 |
5050HD - | 42. R0 | 425 | 485 | 7.40 |
5050HD, 9850HD - | 43. R0 | 437 | 497 | 7.44 |
5050HD - | 45. R0 | 450 | 510 | 7.53 |
5050HD, 9850HD - | 46. R0 | 462 | 522 | 7.62 |
5050HD - | 47. R0 | 475 | 535 | 7.76 |
5050HD, 9850HD - | 48. R0 | 487 | 547 | 7.91 |
5050HD - | 50. R0 | 500 | 560 | 8.11 |
5050HD, 9850HD - | 51. R0 | 512 | 572 | 8.05 |
5050HD - | 52. R0 | 525 | 585 | 8.34 |
5050HD, 9850HD - | 53. R0 | 537 | 597 | 8.29 |
5050HD - | 55. R0 | 550 | 610 | 10.71 |
5050HD, 9850HD - | 60. R0 | 600 | 660 | 10.94 |

Gliding applications | Long travels up to max. 500m | Fill weight 30kg/m

**Note:** We recommend the project planning of such a system to be carried out by igus®.
In case of travels under 10m we recommend an unsupported e-chain®.

**In case of travels under 10m we recommend an unsupported e-chain®.**

- Load removable only, no hinged option
- Available bend radii

<table>
<thead>
<tr>
<th>R [mm]</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
</table>

Complete Part No. with required radius (R). Example: 5050HD.30.300.0

---

Swarf up to +850°C
- e-tubes to withstand +850°C swarf, as a special option
- No hot swarf melting or embedding into the chain
- igumid HT material

More information ➤ www.igus.eu/HT
Steel, pivoting | For gliding applications and long travels

<table>
<thead>
<tr>
<th>Part No. full set</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>steel pivoting</td>
<td>mounting bracket</td>
</tr>
<tr>
<td>50500HD.12.2.VS.E</td>
<td>Set of stainless steel mounting brackets, assembled</td>
</tr>
<tr>
<td>50500HD.1.2.VS.E</td>
<td>Mounting brackets moving end, assembled</td>
</tr>
<tr>
<td>50500HD.2.2.VS.E</td>
<td>Mounting brackets fixed end, assembled</td>
</tr>
</tbody>
</table>

Stainless steel version available. Please add the index .E (Material: stainless steel 1.4301)

Attachment options for these steel mounting brackets.

**Note:** By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!

**Strain relief** e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

---

**Steel mounting brackets | Pivoting**

**Moving end**

50500HD.1.1.E

**Fixed end**

50500HD.2.E

---

**Steel, pivoting | For gliding applications and long travels**

**Part No. full set | Description**

<table>
<thead>
<tr>
<th>steel pivoting</th>
<th>mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>50500HD.1.2.VS.E</td>
<td>Set of stainless steel mounting brackets, assembled</td>
</tr>
<tr>
<td>50500HD.1.2.VS.E</td>
<td>Mounting brackets moving end, assembled</td>
</tr>
<tr>
<td>50500HD.2.2.VS.E</td>
<td>Mounting brackets fixed end, assembled</td>
</tr>
</tbody>
</table>

Stainless steel version available. Please add the index .E (Material: stainless steel 1.4301)

Attachment options for these steel mounting brackets.

**Note:** By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!

**Strain relief** e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

---

**Steel mounting brackets | Pivoting**

**Moving end**

50500HD.1.1.E

**Fixed end**

50500HD.2.E

---

**Steel, pivoting | For gliding applications and long travels**

**Part No. full set | Description**

<table>
<thead>
<tr>
<th>steel pivoting</th>
<th>mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>50500HD.1.2.VS.E</td>
<td>Set of stainless steel mounting brackets, assembled</td>
</tr>
<tr>
<td>50500HD.1.2.VS.E</td>
<td>Mounting brackets moving end, assembled</td>
</tr>
<tr>
<td>50500HD.2.2.VS.E</td>
<td>Mounting brackets fixed end, assembled</td>
</tr>
</tbody>
</table>

Stainless steel version available. Please add the index .E (Material: stainless steel 1.4301)

Attachment options for these steel mounting brackets.

**Note:** By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!

**Strain relief** e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300
E4/4HD | Series 5050HD-9850HD | Accessories

Interior separation | To allow faster filling

**Lean separators**

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Lean separator design - several layers of cables fitted quickly, save up to 50% assembly time

(Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)

**More interior separation options**

Notch locking separator for increased holding force

Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

---

E4/4HD | Series 5050HD-9850HD | Further accessories

Extension links

For extremely wide e-chains® up to 3.0m

- Virtually unlimited side-by-side attachment when high fill weights necessitate extremely wide e-chains® (up to 3,000mm)
- The unsupported length FLG max. can be increased when high fill weights are required

igus® e-chains® on a container crane. High loads and high speeds in difficult weather conditions

---

As standard separators are fitted every 2nd e-chain® link!

Note: Please be aware of the minimum lateral gap to the side links! e-chain®: 16mm

min. 15

80.12.1

621.5

80.6.1

Lean separator unassembled 80.12

assembled 80.12.1

Lean separator unassembled 80.6

assembled 80.6.1

Notch locking separator unassembled 80.6

assembled 80.6.1


More interior separation options ► www.igus.eu/E4HD 3D CAD, configurators, service life calculation and more ► www.igus.eu/E4HD
Aluminium SuperTrough | Heavy-duty version

Part No. 975.30.SL | 975.31.SL | Trough height: 236mm

**Installation set heavy duty with C-Profile**

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No.</th>
<th>Installation set</th>
</tr>
</thead>
<tbody>
<tr>
<td>.05</td>
<td>114</td>
<td>975.50.250</td>
</tr>
<tr>
<td>.06</td>
<td>129</td>
<td>975.50.250</td>
</tr>
<tr>
<td>.07</td>
<td>139</td>
<td>975.50.275</td>
</tr>
<tr>
<td>.08</td>
<td>151</td>
<td>975.50.275</td>
</tr>
<tr>
<td>.10</td>
<td>164</td>
<td>975.50.300</td>
</tr>
<tr>
<td>.11</td>
<td>176</td>
<td>975.50.300</td>
</tr>
<tr>
<td>.12</td>
<td>189</td>
<td>975.50.325</td>
</tr>
<tr>
<td>.13</td>
<td>201</td>
<td>975.50.325</td>
</tr>
<tr>
<td>.15</td>
<td>214</td>
<td>975.50.350</td>
</tr>
<tr>
<td>.16</td>
<td>226</td>
<td>975.50.350</td>
</tr>
<tr>
<td>.17</td>
<td>239</td>
<td>975.50.375</td>
</tr>
<tr>
<td>.18</td>
<td>251</td>
<td>975.50.375</td>
</tr>
<tr>
<td>.20</td>
<td>264</td>
<td>975.50.400</td>
</tr>
<tr>
<td>.21</td>
<td>276</td>
<td>975.50.400</td>
</tr>
<tr>
<td>.22</td>
<td>289</td>
<td>975.50.425</td>
</tr>
<tr>
<td>.23</td>
<td>301</td>
<td>975.50.425</td>
</tr>
<tr>
<td>.25</td>
<td>314</td>
<td>975.50.450</td>
</tr>
<tr>
<td>.26</td>
<td>326</td>
<td>975.50.450</td>
</tr>
<tr>
<td>.27</td>
<td>339</td>
<td>975.50.475</td>
</tr>
<tr>
<td>.28</td>
<td>351</td>
<td>975.50.475</td>
</tr>
<tr>
<td>.30</td>
<td>364</td>
<td>975.50.500</td>
</tr>
<tr>
<td>.31</td>
<td>376</td>
<td>975.50.500</td>
</tr>
<tr>
<td>.32</td>
<td>389</td>
<td>975.50.525</td>
</tr>
<tr>
<td>.33</td>
<td>401</td>
<td>975.50.525</td>
</tr>
<tr>
<td>.35</td>
<td>414</td>
<td>975.50.550</td>
</tr>
<tr>
<td>.36</td>
<td>426</td>
<td>975.50.550</td>
</tr>
<tr>
<td>.37</td>
<td>439</td>
<td>975.50.575</td>
</tr>
<tr>
<td>.38</td>
<td>451</td>
<td>975.50.575</td>
</tr>
<tr>
<td>.40</td>
<td>464</td>
<td>975.50.600</td>
</tr>
<tr>
<td>.41</td>
<td>476</td>
<td>975.50.600</td>
</tr>
<tr>
<td>.42</td>
<td>489</td>
<td>975.50.625</td>
</tr>
<tr>
<td>.43</td>
<td>501</td>
<td>975.50.625</td>
</tr>
<tr>
<td>.45</td>
<td>514</td>
<td>975.50.650</td>
</tr>
<tr>
<td>.46</td>
<td>526</td>
<td>975.50.650</td>
</tr>
<tr>
<td>.47</td>
<td>539</td>
<td>975.50.675</td>
</tr>
<tr>
<td>.48</td>
<td>551</td>
<td>975.50.675</td>
</tr>
<tr>
<td>.50</td>
<td>564</td>
<td>975.50.700</td>
</tr>
<tr>
<td>.51</td>
<td>576</td>
<td>975.50.700</td>
</tr>
<tr>
<td>.52</td>
<td>589</td>
<td>975.50.725</td>
</tr>
<tr>
<td>.53</td>
<td>601</td>
<td>975.50.725</td>
</tr>
<tr>
<td>.55</td>
<td>614</td>
<td>975.50.750</td>
</tr>
<tr>
<td>.60</td>
<td>664</td>
<td>975.50.800</td>
</tr>
</tbody>
</table>

**Order example:** length of travel 30m - centre fixed for series 5050HD.30.300.0 with $B_{Bi} = 364$

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

Order text: 16m guide trough without glide bar (8 x 2m sections) 975.30.SL

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

Order text: 16m guide trough with glide bar (8 x 2m sections) 975.31.SL

Installation set complete (quantity: guide trough sets + 1)

Order text: 17 installation sets 975.50.500

Option: for an additional noise dampening with silencer profile, please add Index A 975.30.SLA

---

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

- **Trough set heavy duty:**
  - Trough side parts, aluminium, 2m
  - Glide bar, plastic, 2m
  - Glide strips, plastic, 2m (without glide strips upon request)

- **Optional rubber silencer profile**

- **Installation set heavy duty:**
  - Bottom clamp, aluminium
  - C-profile, galvanised steel, length
  - Table
  - Allen wrench M8 x 25
  - Glide nut M8

---

3D CAD, configurators, service life calculation and more  www.igus.eu/E4HD
Reduce energy consumption by up to 57% - with profile-rol e-chain®

Advantages of P4:
- Reduce energy consumption by up to 57% - P4 profile-rol e-chain system®
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- Identical pitch of the e-chain® link with or without roller
- Extremely quiet - considerable reduction of operating noise
- autoglide crossbars for safe guidance
- P4 modular system with interior separation for the system E4.1

When to use another e-chain® series:
- For very high fill weights for long travels
  ▶ E4/4HD heavy-duty, page 1092
- When you want a strong rol e-chain® requiring 75% less drive power
  ▶ E4/4 rol e-chain®, page 1142
- When you want a self-guiding e-chain system® without any guide troughs
  ▶ autoglide, page 1170
Reduce energy consumption by up to 57% - P4 system, profile rol e-chain®

System P4 - safe, low-noise, abrasion-resistant energy supply system for long travels up to 800m and more. With the low-maintenance igus® system P4, a secure energy supply system can be implemented on long travels up to 800m for cranes or conveyor systems. The upper run and lower run roll staggered on each other. In this way the tribo-optimised plastic rollers don’t impact on each other, but roll on a continuous, wide rolling surface. The P4 profile-rol e-chain® is safely guided by the comb-shaped autoglide crossbars and the special trough system. Systems of this type should be designed in conjunction with our engineering team.

- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- Identical pitch of the e-chain® link with or without roller
- Extremely quiet - considerable reduction of operating noise
- Integrated captive roller in the side part
- Autoglide crossbars for a safe guidance
- Large modular P4 system with interior separation for the system E4

Typical industries and applications
- Crane equipment
- Automated storage and retrieval systems
- Plant construction
- Gantry robots
- Material handling

Energy efficient e-chains® and cables reduce energy consumption by 57%

Thanks to the right materials and the ingenious design, the energy consumption of machines and equipment can be significantly reduced, as shown by tests and sample calculations carried out in the igus® test laboratory for e-chains® and cables. The latest e-chains® and chainflex® cables from igus® reduce the drive power needed and increase the service life of the application.

Available from stock. Ready to ship in 24 - 48hrs.*
*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Energy efficient e-chains® and cables reduce energy consumption by 57%

P4 system - better and stronger cables, rolling e-chains®
-57%

Rol e-chain® rolling instead of gliding
-37%

E4.1 - stronger e-chains®
-17%

Chainflex® - optimised cables
-17%

Standard - gliding applications
100%

-57% less energy consumption
Calculation examples online
www.igus.eu/energy_efficiency

P4 chainflex®
100%

Find a video online
www.igus.eu/P4_Film

IF product design award
2007 for igus® System P4

www.igus.eu/best/P4

Explore the benefits

System P4 | Features | Accessories

- Optimised interior separation products, cables last up to 4 times longer
- Robust igus® pivoting mounting brackets
- Offset operation of upper and lower run, resulting in continuous rolling surface

New

- Extension link for heavy fill weights
- Available in 2 inner heights (56, 80mm)
- 50% higher fill weight possible
- High rigidity
- Divides the e-chain® cross section into compartments (electric/hydraulic)
- Tribo-optimised plastic rollers for all igus® P4 systems
- Wear optimised
- Long service life
- Improved rolling
- Noise-reducing, vibration damping
- Same size of rolling and standard e-chain® links
- Aluminium guide trough system
- Special geometry combined with autoglide-crossbars enables offsetting of the upper and lower runs
- Robust mounting bracket for long service life
- Corrosion-resistant

System P4 | Technical data | Order examples

Technical data

- Speed gliding: ≤ 10 [m/s]
- Acceleration gliding: ≤ 50 [m/s²]
- Material - permitted temperature °C, igumid G: -40°C / +120°C
- Flammability class, igumid G: VDE 0304 IIC UL94-HB

Order example | Order key

Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

- e-chain® (1.0m): Please indicate e-chain® length or number of links: 1.0m or 11 links
- + Mounting brackets: 1 full set, steel
- Interior separation: with 2 separators assembled every 2nd link

Order text:

- 1 m P4.56.30.300.0 + P4.56100.54.VS.E45 + 2 x 56.1.1

Order key

P4.56.30.300.0

Less friction, twice the service life - the new generation P4.1 system

Twice the service life due to tribo-optimised iglidur® bearings
- Predictive maintenance with optional intelligent service life monitoring
- Travel distance up to 800m and speed higher than 5m/s

Targeted maintenance and smart monitoring with P4.1 - New

- Online status and service life monitoring worldwide with the optional EC.I smart wear measurement
- Targeted planning of maintenance and servicing
- Optional module, can also be retrofitted
- Combination of igus® lab data and anonymised customer data
- Use of advanced machine learning strategies

System P4 | profile-rol e-chain® Tests

New

- First rol e-chain® from 1999, lab test v = 2.0m/s
- Outdoor test, v = 6.0m/s with measurement at 1m intervals
**System P4 | Series P4.32**

Profile-rol e-chain® with comb style autoglide crossbars

---

### e-chains® | Series P4.32 | Crossbar every link (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R Available bend radii</th>
<th>P4.32 [kg/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4.32.10.R.0</td>
<td>100</td>
<td>132</td>
<td>075°</td>
<td>100°</td>
</tr>
<tr>
<td>P4.32.15.R.0</td>
<td>150</td>
<td>182</td>
<td>075°</td>
<td>100°</td>
</tr>
<tr>
<td>P4.32.20.R.0</td>
<td>200</td>
<td>232</td>
<td>075°</td>
<td>100°</td>
</tr>
<tr>
<td>P4.32.25.R.0</td>
<td>250</td>
<td>282</td>
<td>075°</td>
<td>100°</td>
</tr>
</tbody>
</table>

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

Complete Part No. with required radius (R). Example: P4.32.15.150.0

---

### System P4 mechanism

Offset operation of upper and lower run, resulting in continuous rolling surface

**System P4 - aluminium guide trough system**

- Special geometry combined with autoglide crossbars enables offsetting of the upper and lower runs
- Robust mounting bracket for long service life
- Aluminium trough segments, corrosion-resistant

More information ➤ Page 1122

---

**Rolling applications | Long travels up to max. 500m | Fill weight 6.0kg/m**

![Diagram](image)

**Lk = S/2 + K2**

- Moving end
- Fixed end

**Note:** We recommend the project planning of such a system to be carried out by igus®. In case of travels under 10m we recommend an unsupported e-chain®.

<table>
<thead>
<tr>
<th>R</th>
<th>075°</th>
<th>100°</th>
<th>125°</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300°</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2</td>
<td>125</td>
<td>125</td>
<td>125</td>
<td>125</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>D2</td>
<td>425</td>
<td>500</td>
<td>635</td>
<td>760</td>
<td>1,015</td>
<td>1,400</td>
<td>1,625</td>
</tr>
<tr>
<td>K2</td>
<td>728</td>
<td>840</td>
<td>1,064</td>
<td>1,232</td>
<td>1,624</td>
<td>2,072</td>
<td>2,464</td>
</tr>
<tr>
<td>ACL</td>
<td>100</td>
<td>150</td>
<td>263</td>
<td>376</td>
<td>596</td>
<td>835</td>
<td>1,054</td>
</tr>
</tbody>
</table>

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

---

**More information ➤ www.igus.eu/P4.32**
### System P4 | Series P4.32 | Accessories

**Steel mounting brackets | Pivoting**

Mounting brackets pivoting | Recommended for rolling applications on long travels

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. full set for</th>
<th>A [mm]</th>
<th>B [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed end / moving end</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>P4.32100.5,VS,E45</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>15.</td>
<td>P4.32100.10,VS,E45</td>
<td>130</td>
<td>150</td>
</tr>
<tr>
<td>20.</td>
<td>P4.32100.20,VS,E45</td>
<td>180</td>
<td>200</td>
</tr>
<tr>
<td>25.</td>
<td>P4.32100.25,VS,E45</td>
<td>230</td>
<td>250</td>
</tr>
</tbody>
</table>

**Note:** The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensures that the rollers move over a plain surface at the fixed end. There is a fixed end module integrated that can be clamped directly into the trough without drilling any holes. No additional holes have to be drilled.

**Strain relief**

*E.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ➔ From page 1300*

---

### System P4 | Series P4.32 | Accessories

**Interior separation | Increase cable service life**

More interior separation options ➔ next page

No lateral gap to side links necessary. As standard separators are fitted every 2nd e-chain® link!

**Standard - for any application**

Separator with a wide base for maximum holding force in the e-chain®.

**For even faster installation**

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

**For small cables**

Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®. Also available for QuickLock crossbars.

**For side-mounted applications**

Asymmetrical separator, for defined gap distance. No additional spacers required.

**Locks securely in preset increments**

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

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

**Strain relief**

*E.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ➔ From page 1300*
Aluminium SuperTrough | P4.32 | Accessories New

Part No. P972.30.SL | P975.31.Bi.SL | Trough height: 101mm

**Part No. installation set with C-profile**

<table>
<thead>
<tr>
<th>Index</th>
<th>Installation set</th>
<th>B_Ri</th>
<th>Width</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>.10</td>
<td></td>
<td>148</td>
<td>971.50.250</td>
<td></td>
</tr>
<tr>
<td>.15</td>
<td></td>
<td>196</td>
<td>971.50.300</td>
<td></td>
</tr>
<tr>
<td>.20</td>
<td></td>
<td>248</td>
<td>971.50.350</td>
<td></td>
</tr>
<tr>
<td>.25</td>
<td></td>
<td>298</td>
<td>971.50.400</td>
<td></td>
</tr>
</tbody>
</table>

**Order example: length of travel 30m - centre fixed for series P4.32.10.150.0 with B_Ri = 148**

Guide trough set (set of 2 trough side parts, incl. glide strips) without glide bars:

- Order text: 16m guide trough without glide bar (8 x 2m sections) P972.30.SL

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

- Order text: 16m guide trough with glide bar (8 x 2m sections) P972.31.Bi.SL

Installation set complete (quantity: guide trough sets + 1):

- Order text: 17 installation sets 971.50.250

Option: for an additional noise dampering with silencer profile, please add Index A

- Order text: P972.30.SL.A

**System P4 | Application example**

*igus® P4 rol e-chain® in matching aluminium guide trough. High speeds, longest travels, smooth running - giving longest lifetime*
System P4 | Series P4.42 | Product range
Profile-rol e-chain® with comb style autoglide crossbars

e-chains® | Series P4.42 | Crossbars every link (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>( B_i )</th>
<th>( B_a )</th>
<th>( R )</th>
<th>Available bend radii</th>
<th>( P4.42 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4.42.10/R.0</td>
<td>100</td>
<td>154</td>
<td>100</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>P4.42.15/R.0</td>
<td>150</td>
<td>202</td>
<td>100</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>P4.42.20/R.0</td>
<td>200</td>
<td>254</td>
<td>100</td>
<td>125</td>
<td>150</td>
</tr>
</tbody>
</table>

Complete Part No. with required radius (\( R \)). Example: P4.42.15,150,0

System P4 mechanism
Offset operation of upper and lower run, resulting in continuous rolling surface

\[ L_K = \frac{S}{2} + K_2 \]

Note: We recommend the project planning of such a system to be carried out by igus®. In case of travels under 10m we recommend an unsupported e-chain®.

Rolling applications | Long travels up to max. 600m | Fill weight 7.0kg/m

System P4 - aluminium guide trough system
- Special geometry combined with autoglide crossbars enables offsetting of the upper and lower runs
- Robust mounting bracket for long service life
- Aluminium trough segments, corrosion-resistant

More information | Page 1129
**System P4 | Series P4.42 | Accessories**

**Steel mounting brackets | Pivoting**

**Fixed end**

- Plastic: P4.42100.5.VS.E45
- Steel: P4.42100.4.VS.E45

**Moving end**

- Plastic: P4.42100.5.VS.E45
- Steel: P4.42100.4.VS.E45

---

**Mounting brackets pivoting | Recommended for rolling applications on long travels**

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. full set for fixed end / moving end</th>
<th>A [mm]</th>
<th>B [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. ▼</td>
<td>P4.42100.5A.10.VS.E45</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>15. ▼</td>
<td>P4.42100.5A.15.VS.E45</td>
<td>130</td>
<td>150</td>
</tr>
<tr>
<td>20. ▼</td>
<td>P4.42100.5A.20.VS.E45</td>
<td>180</td>
<td>200</td>
</tr>
</tbody>
</table>

**Note:** The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensures that the rollers move over a plain surface at the fixed end. There is a fixed end module integrated that can be clamped directly into the trough without drilling any holes. No additional holes have to be drilled.

---

**Strain relief**

- e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ➤ From page 1300

---

**System P4 | Series P4.42 | Accessories**

**Interior separation | Increase cable service life**

More interior separation options ➤ next page

- No lateral gap to side links necessary.
- As standard separators are fitted every 2nd e-chain® link!

**Standard - for any application**

Separator with a wide base for maximum holding force in the e-chain®.

**For even faster installation**

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

**For small cables**

Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®. Also available for QuickLock crossbars.

**For side-mounted applications**

Asymmetrical separator, for defined gap distance. No additional spacers required.

**Locks securely in preset increments**

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

**Horizontal separation**

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

---

**Shelves**

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>3200.050</th>
<th>3200.075</th>
<th>3201.050</th>
<th>3201.075</th>
<th>3201.100</th>
<th>3201.105</th>
<th>3201.110</th>
<th>3201.115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unassembled</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
<td>225</td>
<td>250</td>
<td>275</td>
<td>300</td>
</tr>
<tr>
<td>Assembled</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
<td>225</td>
<td>250</td>
<td>275</td>
<td>300</td>
</tr>
</tbody>
</table>

---

More information ➤ www.igus.eu/P4.42

---

1126 More information ➤ www.igus.eu/P4.42
System P4 | Series P4.42 | Accessories

Interior separation | To allow faster filling

Lean separators New
New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time
(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)

More interior separation options

Notch locking separator for increased holding force
Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

Aluminium SuperTrough | P4.42 | Accessories New
Part No. P973.30.SL | P973.31.Bi.SL | Trough height: 129mm

Part No. installation set with C-profile

<table>
<thead>
<tr>
<th>Width B_a</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>index [mm]</td>
<td>installation set</td>
</tr>
<tr>
<td>.10</td>
<td>173</td>
</tr>
<tr>
<td>.15</td>
<td>221</td>
</tr>
<tr>
<td>.20</td>
<td>273</td>
</tr>
</tbody>
</table>

Order example: length of travel 30m - centre fixed for series P4.42.10.100.0 with B_a = 173
Guide trough set (set of 2 trough side parts, incl. glide strips) without glide bars
P973.30.SL

Guide trough set (set of 2 trough side parts, incl. glide strips) with glide bar
P973.31.Bi.SL

Installation set complete (quantity: guide trough sets + 1)
972.50.300

Option: for an additional noise dampening with silencer profile, please add Index A
P973.30.SL.A

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

More information ➤ www.igus.eu/P4.42

www.igus.eu/P4
e-chains® | Series P4.56 | Crossbars every link (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R Available bend radii</th>
<th>P4.56</th>
</tr>
</thead>
<tbody>
<tr>
<td>e-chains®</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>kg/m</td>
</tr>
<tr>
<td>P4.56.18/.R,0</td>
<td>167</td>
<td>257</td>
<td>150°</td>
<td>200</td>
</tr>
<tr>
<td>P4.56.20/.R,0</td>
<td>200</td>
<td>300</td>
<td>150°</td>
<td>200</td>
</tr>
<tr>
<td>P4.56.25/.R,0</td>
<td>250</td>
<td>370</td>
<td>150°</td>
<td>200</td>
</tr>
<tr>
<td>P4.56.30/.R,0</td>
<td>300</td>
<td>420</td>
<td>150°</td>
<td>200</td>
</tr>
<tr>
<td>P4.56.35/.R,0</td>
<td>350</td>
<td>470</td>
<td>150°</td>
<td>200</td>
</tr>
<tr>
<td>P4.56.40/.R,0</td>
<td>400</td>
<td>520</td>
<td>150°</td>
<td>200</td>
</tr>
</tbody>
</table>

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

Complete Part No. with required radius (R). Example: P4.56.20.250.0

Extension link for heavy fill weights
- 50% higher fill weight possible
- High rigidity
- Divides the e-chain® cross section into compartments (electric/hydraulic)
- 2 inner heights (56, 80mm) available upon request

More information ▶ www.igus.eu/P4

Note: We recommend the project planning of such a system to be carried out by igus®. In case of travels under 10m we recommend an unsupported e-chain®.

Rolling applications | Long travels up to max. 800m | Fill weight 13kg/m

System P4 mechanism
Offset operation of upper and lower run, resulting in continuous rolling surface

\[ L_k = S/2 + K \]

Moving end
Fixed end

Guide trough with glide bar
Guide trough without glide bar

Total length of guide trough

System P4 - aluminium guide trough system
- Special geometry combined with autoglide crossbars enables offsetting of the upper and lower runs
- Robust mounting bracket for long service life
- Aluminium trough segments, corrosion-resistant

More information ▶ Page 1135
**System P4 | Series P4.56 | Accessories**

**Steel mounting brackets | Pivoting**

**Mounting brackets pivoting | Recommended for rolling applications on long travels**

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. full set for fixed end / moving end</th>
<th>A [mm]</th>
<th>B/ [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.</td>
<td>P4.56100.5.VS.E45</td>
<td>160</td>
<td>180</td>
</tr>
<tr>
<td>20.</td>
<td>P4.56100.5.VS.E45</td>
<td>180</td>
<td>200</td>
</tr>
<tr>
<td>25.</td>
<td>P4.56100.5.VS.E45</td>
<td>230</td>
<td>250</td>
</tr>
<tr>
<td>30.</td>
<td>P4.56100.5.VS.E45</td>
<td>280</td>
<td>300</td>
</tr>
<tr>
<td>35.</td>
<td>P4.56100.5.VS.E45</td>
<td>330</td>
<td>350</td>
</tr>
<tr>
<td>40.</td>
<td>P4.56100.5.VS.E45</td>
<td>380</td>
<td>400</td>
</tr>
</tbody>
</table>

**Note:** The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensures that the rollers move over a plain surface at the fixed end. There is a fixed end module integrated that can be clamped directly into the trough without drilling any holes. No additional holes have to be drilled.

**Strain relief** e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ➤ From page 1300
Lean separators: New
New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Notch locking separator for increased holding force
Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

More interior separation options
Lean separator design - several layers of cables fitted quickly, save up to 50% assembly time (*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)

Lean separators
New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Notch locking separator for increased holding force
Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

More interior separation options
Note: Please be aware of the minimum lateral gap to the side links! e-chain®: 16mm
As standard separators are fitted every 2nd e-chain® link!
Extension link for heavy fill weights

- 50% higher fill weight possible
- High rigidity
- Divides the e-chain® cross section into compartments (electric/hydraulic)
- 2 inner heights (56, 80mm) available upon request

More information: www.igus.eu/P4

Part No. | Bi (mm) | Ba (mm) | R Available bend radii (mm) | P4.80
---|---|---|---|---
P4.80.18.R.0 | 187 | 263 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 1,085
P4.80.20.R.0 | 200 | 276 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 1,113
P4.80.25.R.0 | 250 | 326 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 1,446
P4.80.30.R.0 | 300 | 376 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 1,983
P4.80.35.R.0 | 350 | 426 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 10.19
P4.80.40.R.0 | 400 | 476 | 150° | 200° | 250 | 300 | 350 | 400° | 450° | 500 | 10.46

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

Complete Part No. with required radius (R). Example: P4.80.20.250.0

System P4 - aluminium guide trough system

- Special geometry combined with autoglide crossbars enables offsetting of upper and lower runs
- Robust mounting bracket for long service life
- Aluminium trough segments, corrosion-resistant

More information: Page 1141


### System P4 | Series P4.80 | Accessories

#### Steel mounting brackets | Pivoting

![Diagram of steel mounting brackets]

#### Mounting brackets pivoting | Recommended for rolling applications on long travels

<table>
<thead>
<tr>
<th>Width index</th>
<th>Part No. full set for fixed end / moving end</th>
<th>A [mm]</th>
<th>B [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>P4.80100.54.VS.E45</td>
<td>160</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>P4.80100.54.VS.E45</td>
<td>180</td>
<td>150</td>
</tr>
<tr>
<td>25</td>
<td>P4.80100.54.VS.E45</td>
<td>230</td>
<td>250</td>
</tr>
<tr>
<td>30</td>
<td>P4.80100.54.VS.E45</td>
<td>280</td>
<td>300</td>
</tr>
<tr>
<td>35</td>
<td>P4.80100.54.VS.E45</td>
<td>330</td>
<td>350</td>
</tr>
<tr>
<td>40</td>
<td>P4.80100.54.VS.E45</td>
<td>380</td>
<td>400</td>
</tr>
</tbody>
</table>

**Note:** The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensures that the rollers move over a plain surface at the fixed end. There is a fixed end module integrated that can be clamped directly into the trough without drilling any holes. No additional holes have to be drilled.

#### Strain relief

- e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options [From page 1300](#)

### System P4 | Series P4.80 | Accessories

#### Interior separation | Increase cable service life

**Note:** Please be aware of the minimum lateral gap to the side links! e-chain®: 16mm

As standard separators are fitted every 2nd e-chain® link!

- **Standard - for any application**
  - Separator with a wide base for maximum holding force in the e-chain®.

- **For even faster installation**
  - Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

- **For small cables**
  - Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.

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

- **Locks securely in preset increments**
  - Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

- **Horizontal separation**
  - Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

#### Shelves

<table>
<thead>
<tr>
<th>Width X [mm]</th>
<th>Unassembled</th>
<th>Assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>050</td>
<td>520.050</td>
<td>521.050</td>
</tr>
<tr>
<td>065</td>
<td>520.065</td>
<td>521.065</td>
</tr>
<tr>
<td>075</td>
<td>520.075</td>
<td>521.075</td>
</tr>
<tr>
<td>100</td>
<td>520.100</td>
<td>521.100</td>
</tr>
<tr>
<td>125</td>
<td>520.125</td>
<td>521.125</td>
</tr>
</tbody>
</table>

**Note:** Please be aware of the minimum lateral gap to the side links! e-chain®: 16mm

As standard separators are fitted every 2nd e-chain® link!
**System P4 | Series P4.80 | Accessories**

**Interior separation | To allow faster filling**

**Lean separators New**

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

**Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time**

("Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)

**Notch locking separator for increased holding force**

Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

---

**Aluminium SuperTrough | P4.80 | Accessories New**

**Part No. P975.30.SL | P975.31.Bi.SL | Trough height: 236mm**

**Part No. installation set with C-profile**

<table>
<thead>
<tr>
<th>Width $B_{ri}$</th>
<th>Part No. index $n_{ri}$</th>
<th>Installation set $n_{mon}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>.18</td>
<td>282.5</td>
<td>975.50.425</td>
</tr>
<tr>
<td>.20</td>
<td>295.5</td>
<td>975.50.425</td>
</tr>
<tr>
<td>.25</td>
<td>345.5</td>
<td>975.50.475</td>
</tr>
<tr>
<td>.30</td>
<td>395.5</td>
<td>975.50.525</td>
</tr>
<tr>
<td>.35</td>
<td>445.5</td>
<td>975.50.575</td>
</tr>
<tr>
<td>.40</td>
<td>495.5</td>
<td>975.50.625</td>
</tr>
</tbody>
</table>

**Order example: length of travel 30m - centre fixed for series P4.56.20.200.0 with $B_{ri} = 295.5$**

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

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

**Order text: 16m guide trough with glide bar (8 x 2m sections)**

**Order text complete (quantity: guide trough sets + 1)**

**Order text: 17 installation sets**

**Option: for an additional noise damping with silencer profile, please add Index A**

---

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

- Trough set
- Installation set
- Glide bar
- C-profile
- $B_{ri}$ = Trough inner height
- $B_{ro}$ = Trough outer height
- $n_{is}$ = Number of installation sets
- $n_{ts}$ = Number of trough sections

<table>
<thead>
<tr>
<th>Width $B_{ri}$</th>
<th>$H_{ro}$ = $2 x ha$</th>
<th>$H_{ri}$ = $2 x ha$</th>
</tr>
</thead>
<tbody>
<tr>
<td>.20</td>
<td>295.5</td>
<td>101</td>
</tr>
<tr>
<td>.25</td>
<td>345.5</td>
<td>129</td>
</tr>
</tbody>
</table>

---

More information ➤ www.igus.eu/P4.80

3D CAD, configurators, service life calculation and more ➤ www.igus.eu/P4
E4/4 rol e-chain®
Long travels up to 800m, rolling instead of gliding

Advantages E4/4 rol e-chain®
- Special solution for long travels
- 75% less drive power, rolling
- Reduction of drive power needed to move the e-chain®
- Long travels up to 800m with E4/4 rol e-chain®
- Speeds up to 6m/s possible
- Various roller types for optimum application adaptation
- Can be used in dirty environments

When to use another e-chain® series:
- For very high fill weights for long travels
  - E4/4HD heavy-duty, page 1092
- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
  - P4 system, page 1112
- When you want a self-guiding e-chain system® without any guide troughs
  - autoglide, page 1170
**E4/4 rol e-chain® | Introduction | Advantages**

**Fast filling:** lids open on both sides, flip open along the outer radius
**High push/pull forces:** large pin/bore connection
**Long service life:** high-strength rollers, quiet design, stainless steel ball bearings
**High strength:** undercut design for torsional rigidity
**Universal:** KMA with attachment from any side

---

**Long travels up to 800m, rolling instead of gliding - E4/4 rol e-chain®**

Conventional design e-chains® are used gliding for long travels. The technical limits of this operating mode were the reason for development of the igus® E4/4 rol-e chain®. The demands have increased steadily in recent years. Travels of 800 metres now pose new challenges in cranes along with high travel speeds and low noise with high cable loads.

Please contact us if you have decided to use this product. We’ll assist you in the project planning!

- **Reduction of drive power needed to move the e-chain®**
- **Travels up to 800m possible**
- **Speeds up to 6m/s possible**
- **Various roller types for optimum application adaption**
- **Can be used in dirty environments**
- **Available as ready-to-fit harnessed system with guarantee**

**Typical industries and applications**
- Crane facilities
- Bulk handling/material handling
- Mining/construction machinery
- Displacement systems

---

**E4/4 rol e-chain® | 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>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>42</td>
<td>50 - 400</td>
<td>74 - 424</td>
<td>54</td>
<td>125 - 300**</td>
<td>250</td>
<td>1148</td>
</tr>
<tr>
<td>38</td>
<td>42</td>
<td>50 - 400</td>
<td>77 - 427</td>
<td>64</td>
<td>150 - 350**</td>
<td>330</td>
<td>1150</td>
</tr>
<tr>
<td>56</td>
<td>50</td>
<td>50 - 600</td>
<td>86 - 636</td>
<td>84</td>
<td>200 - 400**</td>
<td>500</td>
<td>1152</td>
</tr>
<tr>
<td>80</td>
<td>50</td>
<td>600</td>
<td>100 - 650</td>
<td>108</td>
<td>250 - 500**</td>
<td>600</td>
<td>1156</td>
</tr>
</tbody>
</table>

**e-chains® with crossbars every link for particularly demanding applications**

**e-tubes**

- Fully enclosed, excellent cable protection

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>42</td>
<td>50 - 300</td>
<td>74 - 324</td>
<td>54</td>
<td>150 - 300**</td>
<td>250</td>
<td>1148</td>
</tr>
<tr>
<td>42</td>
<td>50</td>
<td>50 - 300</td>
<td>77 - 327</td>
<td>64</td>
<td>200 - 350**</td>
<td>330</td>
<td>1150</td>
</tr>
<tr>
<td>56</td>
<td>75</td>
<td>75 - 462</td>
<td>111 - 499</td>
<td>84</td>
<td>300 - 400**</td>
<td>500</td>
<td>1152</td>
</tr>
<tr>
<td>80</td>
<td>75</td>
<td>75 - 462</td>
<td>125 - 513</td>
<td>108</td>
<td>300 - 500**</td>
<td>600</td>
<td>1156</td>
</tr>
</tbody>
</table>

**Heavy-duty e-chain® with crossbars every link for very long travels with very heavy fill weights**

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>50</td>
<td>50 - 600</td>
<td>104 - 654</td>
<td>84</td>
<td>200 - 400**</td>
<td>600</td>
<td>1154</td>
</tr>
<tr>
<td>80</td>
<td>50</td>
<td>600</td>
<td>110 - 660</td>
<td>108</td>
<td>250 - 500**</td>
<td>800</td>
<td>1158</td>
</tr>
</tbody>
</table>

*Smaller bend radii (only for e-chains®) available upon request. Please consult igus® for delivery time.

**Available from stock. Ready to ship in 24 - 48hrs.**

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.*
Technical data

- Speed rolling: ≤ 10 [m/s]
- Acceleration rolling: ≤ 50 [m/s²]
- Material - permitted temperature °C, igumid G: -40°C / +120°C
- Flammability class, igumid G: VDE 0304 IIC UL94-HB

Order example | Order key

Order example for complete e-chain® (3.0m), colour black, with mounting brackets and interior separation:

- e-chain® (1.0m) Please indicate e-chain® length or number of links: 3.0m or 54 links: 2828R.30.300.0
- + Mounting brackets 1 full set, KMA pivoting: 28280.30.12
- Interior separation with 2 separators assembled every 2nd link: 2 x 32.1.1

Order text:

Order key 2828R.30.300.0

P4 profile-rol e-chain® - reduce energy consumption by 57%

- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

More information ➤ From page 112

autoglide - self-guiding e-chain systems®

- Self-guiding e-chain® without the need for guide troughs, available in 4 versions
- Travels up to 80m and travel speeds up to 2.5m/s
- Quick installation for long travels
- Small width, quiet operation, cost-effective

More information ➤ From page 1170

E4/4 rol e-chain® | Application

Shipyard crane: travel 180m, weight 30kg/m; since installation in 2001, this igus® E4/4 rol e-chain® has run trouble-free in spite of severe weather conditions. Even a typhoon did not cause any operating problems.

Cross travel of 441.3m, implemented with igus® E4/4 rol e-chain® series 5050R.

Igus® E4/4 rol e-chain® saves drive power on long travels.
Safely guided in igus® guide troughs.

More information ➤ From page 1112

More information ➤ www.igus.eu/role
e-chains® | Series 2828R | Crossbars every link (crossbars removable along the inner and outer radius)
etubes | Series 7728R

Fully enclosed (lids openable along the outer radius, from one side)

Part No. | e-chains® / e-tubes | BI | Ba | 262R | 7728R
--- | --- | --- | --- | --- | ---
2828R, 7728R, 05, R, 0 | 50 | 74 | 1.73 | 2.63
2828R, 06, R, 0 | 68 | 92 | 1.79 | –
2828R, 07, R, 0 | 75 | 99 | 1.84 | 2.75
2828R, 08, R, 0 | 87 | 111 | 1.90 | –
2828R, 11, R, 0 | 108 | 132 | 2.06 | 2.94
2828R, 12, R, 0 | 112 | 137 | 2.15 | –
2828R, 13, R, 0 | 112 | 137 | 2.15 | –
2828R, 15, R, 0 | 150 | 174 | 2.38 | 3.19
2828R, 16, R, 0 | 162 | 187 | 2.44 | –
2828R, 17, R, 0 | 168 | 192 | 2.51 | 3.39
2828R, 18, R, 0 | 175 | 199 | 2.56 | –
2828R, 187, R, 0 | 167 | 212 | 2.65 | –
2828R, 20, R, 0 | 200 | 224 | 2.74 | 3.59

Part No. | e-chains® / e-tubes | BI | Ba | 262R | 7728R
--- | --- | --- | --- | --- | ---
2828R, – | 212, R, 0 | 212 | 237 | 2.87 | –
2828R, – | 23, R, 0 | 225 | 249 | 2.92 | –
2828R, – | 237, R, 0 | 237 | 262 | 3.05 | –
2828R, 25, R, 0 | 250 | 274 | 3.10 | 4.04
2828R, – | 262, R, 0 | 262 | 286 | 3.19 | –
2828R, – | 28, R, 0 | 275 | 299 | 3.28 | –
2828R, – | 29, R, 0 | 287 | 312 | 3.37 | –
2828R, 30, R, 0 | 300 | 324 | 3.46 | 4.40
2828R, – | 312, R, 0 | 312 | 337 | 3.59 | –
2828R, – | 325, R, 0 | 325 | 349 | 3.68 | –
2828R, – | 337, R, 0 | 337 | 362 | 3.77 | –
2828R, – | 350, R, 0 | 350 | 374 | 3.86 | –
2828R, – | 362, R, 0 | 362 | 387 | 3.95 | –
2828R, – | 375, R, 0 | 375 | 399 | 4.04 | –
2828R, – | 387, R, 0 | 387 | 412 | 4.11 | –
2828R, – | 400, R, 0 | 400 | 424 | 4.18 | –

Available bend radii

- R [mm] | 125* | 150 | 175 | 200 | 220 | 250 | 300
- Complete Part No. with required radius (R), Example: 2828R, 30, 300, 0

Rolling instead of gliding, long travels up to 250m

Available bend radii

- R [mm] | 125* | 150 | 175 | 200 | 220 | 250 | 300
- Complete Part No. with required radius (R), Example: 2828R, 30, 300, 0

Available bend radii

- Radius not available for e-tubes. Smaller bend radii (only for e-chains) available upon request. Please consult igus® for delivery time.

More information on www.igus.eu/2828R

Available bend radii

- R [mm] | 125* | 150 | 175 | 200 | 220 | 250 | 300
- Complete Part No. with required radius (R), Example: 2828R, 30, 300, 0

Available bend radii

- Radius not available for e-tubes. Smaller bend radii (only for e-chains) available upon request. Please consult igus® for delivery time.

More information on www.igus.eu/7728R

Available bend radii

- R [mm] | 125* | 150 | 175 | 200 | 220 | 250 | 300
- Complete Part No. with required radius (R), Example: 2828R, 30, 300, 0

Available bend radii

- Radius not available for e-tubes. Smaller bend radii (only for e-chains) available upon request. Please consult igus® for delivery time.
### e-chains® | Series 3838 R | Crossbars every link (crossbars removable along the inner and outer radius)

- **Fully enclosed** (crossbars operable along the outer radius, from one side)

#### e-tubes | Series 7838 R

<table>
<thead>
<tr>
<th>Part No.</th>
<th>BL</th>
<th>BL</th>
<th>3838R</th>
<th>7838R</th>
</tr>
</thead>
<tbody>
<tr>
<td>3838R – 7838R, 05, R, 0</td>
<td>50</td>
<td>77</td>
<td>2.06</td>
<td>2.25</td>
</tr>
<tr>
<td>3838R –</td>
<td>06, R, 0</td>
<td>66</td>
<td>95</td>
<td>2.09</td>
</tr>
<tr>
<td>3838R – 7838R, 07, R, 0</td>
<td>75</td>
<td>102</td>
<td>2.12</td>
<td>2.38</td>
</tr>
<tr>
<td>3838R –</td>
<td>087, R, 0</td>
<td>87</td>
<td>115</td>
<td>2.18</td>
</tr>
<tr>
<td>3838R –</td>
<td>097, R, 0</td>
<td>97</td>
<td>123</td>
<td>2.25</td>
</tr>
<tr>
<td>3838R – 7838R, 10, R, 0</td>
<td>100</td>
<td>127</td>
<td>2.20</td>
<td>2.36</td>
</tr>
<tr>
<td>3838R – 7838R, 11, R, 0</td>
<td>108</td>
<td>135</td>
<td>2.30</td>
<td>2.66</td>
</tr>
<tr>
<td>3838R –</td>
<td>112, R, 0</td>
<td>112</td>
<td>140</td>
<td>2.33</td>
</tr>
<tr>
<td>3838R – 7838R, 12, R, 0</td>
<td>125</td>
<td>152</td>
<td>2.40</td>
<td>2.81</td>
</tr>
<tr>
<td>3838R –</td>
<td>137, R, 0</td>
<td>137</td>
<td>165</td>
<td>2.44</td>
</tr>
<tr>
<td>3838R – 7838R, 15, R, 0</td>
<td>150</td>
<td>177</td>
<td>2.53</td>
<td>3.07</td>
</tr>
<tr>
<td>3838R –</td>
<td>162, R, 0</td>
<td>162</td>
<td>190</td>
<td>2.55</td>
</tr>
<tr>
<td>3838R – 7838R, 17, R, 0</td>
<td>168</td>
<td>195</td>
<td>2.62</td>
<td>3.24</td>
</tr>
<tr>
<td>3838R –</td>
<td>18, R, 0</td>
<td>175</td>
<td>202</td>
<td>2.62</td>
</tr>
<tr>
<td>3838R –</td>
<td>187, R, 0</td>
<td>187</td>
<td>215</td>
<td>2.69</td>
</tr>
<tr>
<td>3838R – 7838R, 20, R, 0</td>
<td>200</td>
<td>227</td>
<td>2.77</td>
<td>3.53</td>
</tr>
</tbody>
</table>

*Radius not available for e-tubes 1) Lid removable only, no hinged option

### Installation dimensions

- **max. e-chain® length** $L_{max} = \frac{S}{2} + K^2$

### Rolling applications | Long travels up to max. 330m | Fill weight 7.0kg/m

**Notes:**
- We recommend the project planning of such a system to be carried out by igus®.
- In case of travels under 10m we recommend an unsupported e-chain.

- $R_{max}$
- $D_{max}$
- $K_{max}$
- $A_{CL}$


- Optimised, cable-friendly interior separation
- Pivotable KMA mounting bracket from any side
- Aluminium SuperTrough, basic version

---

*Radius not available for e-tubes. Smaller bend radii (only for e-chains®) available upon request. Please consult igus® for delivery time.
e-chains® | Series 4040 | Crossbars every link (crossbars removable along the inner and outer radius)

tubes | Series 8840 | Fully enclosed (lids openable along the outer radius, from one side)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>4040R</th>
<th>8840R</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040R</td>
<td>05. R.</td>
<td>50</td>
<td>86</td>
<td>3.65</td>
</tr>
<tr>
<td>4040R</td>
<td>06. R.</td>
<td>65</td>
<td>101</td>
<td>3.67</td>
</tr>
<tr>
<td>8840R</td>
<td>07. R.</td>
<td>75</td>
<td>111</td>
<td>3.78</td>
</tr>
<tr>
<td>8840R</td>
<td>08. R.</td>
<td>87</td>
<td>123</td>
<td>3.83</td>
</tr>
<tr>
<td>4040R</td>
<td>10. R.</td>
<td>100</td>
<td>136</td>
<td>3.96</td>
</tr>
<tr>
<td>4040R</td>
<td>11. R.</td>
<td>112</td>
<td>149</td>
<td>4.00</td>
</tr>
<tr>
<td>8840R</td>
<td>12. R.</td>
<td>125</td>
<td>161</td>
<td>4.16</td>
</tr>
<tr>
<td>4040R</td>
<td>13. R.</td>
<td>137</td>
<td>174</td>
<td>4.29</td>
</tr>
<tr>
<td>8840R</td>
<td>15. R.</td>
<td>150</td>
<td>186</td>
<td>4.36</td>
</tr>
<tr>
<td>4040R</td>
<td>16. R.</td>
<td>162</td>
<td>199</td>
<td>4.47</td>
</tr>
<tr>
<td>8840R</td>
<td>17. R.</td>
<td>175</td>
<td>211</td>
<td>4.58</td>
</tr>
<tr>
<td>4040R</td>
<td>18. R.</td>
<td>187</td>
<td>224</td>
<td>4.69</td>
</tr>
<tr>
<td>8840R</td>
<td>20. R.</td>
<td>200</td>
<td>236</td>
<td>4.71</td>
</tr>
<tr>
<td>8840R</td>
<td>21. R.</td>
<td>212</td>
<td>249</td>
<td>4.82</td>
</tr>
<tr>
<td>8840R</td>
<td>22. R.</td>
<td>225</td>
<td>261</td>
<td>4.88</td>
</tr>
<tr>
<td>8840R</td>
<td>23. R.</td>
<td>237</td>
<td>274</td>
<td>5.02</td>
</tr>
<tr>
<td>8840R</td>
<td>25. R.</td>
<td>250</td>
<td>286</td>
<td>5.10</td>
</tr>
<tr>
<td>8840R</td>
<td>26. R.</td>
<td>262</td>
<td>299</td>
<td>5.15</td>
</tr>
<tr>
<td>8840R</td>
<td>27. R.</td>
<td>275</td>
<td>311</td>
<td>5.20</td>
</tr>
<tr>
<td>8840R</td>
<td>28. R.</td>
<td>287</td>
<td>324</td>
<td>5.23</td>
</tr>
<tr>
<td>8840R</td>
<td>30. R.</td>
<td>300</td>
<td>336</td>
<td>5.34</td>
</tr>
</tbody>
</table>

Part No. with required radius (R). Example: 4040R.30.300.0

Options:
- Bi: [mm]
- Ba: [kg/m]
- 4040R: [kg/m]
- 8840R: [kg/m]

Crossbars every link (crossbars removable along the inner and outer radius)

We recommend the project planning of such a system to be carried out by igus®.

In case of travels under 10m we recommend an unsupported e-chain®.

Rolling applications | Long travels up to max. 500m | Fill weight 13kg/m

Note:
- Smaller bend radii (only for e-chains®) available upon request. Please consult igus® for delivery time.
- Radius not available for e-tubes. Smaller bend radii (only for e-chains®) available upon request. Please consult igus® for delivery time.

Available bend radii

<table>
<thead>
<tr>
<th>R [mm]</th>
<th>200*</th>
<th>250*</th>
<th>300</th>
<th>350</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi</td>
<td>05.</td>
<td>65.</td>
<td>75.</td>
<td>87.</td>
<td>100.</td>
</tr>
<tr>
<td>Ba</td>
<td>50.</td>
<td>101.</td>
<td>111.</td>
<td>123.</td>
<td>136.</td>
</tr>
</tbody>
</table>

Rolling instead of gliding, long travels up to 500m

Smaller bend radii (only for e-chains®) available upon request. Please consult igus® for delivery time.


3D CAD, configurators, service life calculation and more ▶ www.igus.eu/role

1152

www.igus.eu/4040R

www.igus.eu/8840R
**Rol e-chains® | 4040RHD | Product range**

Heavy-duty - rolling instead of gliding, long travels up to 600 m

---

**e-chains® | Series 4040RHD | Crossbars every link** (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>4040RHD [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040RHD, 05, R0</td>
<td>50</td>
<td>104</td>
<td>0.03</td>
</tr>
<tr>
<td>4040RHD, 06, R0</td>
<td>65</td>
<td>119</td>
<td>0.12</td>
</tr>
<tr>
<td>4040RHD, 07, R0</td>
<td>75</td>
<td>129</td>
<td>0.19</td>
</tr>
<tr>
<td>4040RHD, 08, R0</td>
<td>87</td>
<td>141</td>
<td>0.27</td>
</tr>
<tr>
<td>4040RHD, 10, R0</td>
<td>100</td>
<td>154</td>
<td>0.36</td>
</tr>
<tr>
<td>4040RHD, 11, R0</td>
<td>112</td>
<td>166</td>
<td>0.46</td>
</tr>
<tr>
<td>4040RHD, 12, R0</td>
<td>125</td>
<td>179</td>
<td>0.56</td>
</tr>
<tr>
<td>4040RHD, 13, R0</td>
<td>137</td>
<td>191</td>
<td>0.69</td>
</tr>
<tr>
<td>4040RHD, 15, R0</td>
<td>150</td>
<td>204</td>
<td>0.73</td>
</tr>
<tr>
<td>4040RHD, 16, R0</td>
<td>162</td>
<td>216</td>
<td>0.84</td>
</tr>
<tr>
<td>4040RHD, 17, R0</td>
<td>175</td>
<td>229</td>
<td>0.97</td>
</tr>
<tr>
<td>4040RHD, 18, R0</td>
<td>187</td>
<td>241</td>
<td>0.98</td>
</tr>
<tr>
<td>4040RHD, 20, R0</td>
<td>200</td>
<td>254</td>
<td>1.09</td>
</tr>
<tr>
<td>4040RHD, 21, R0</td>
<td>212</td>
<td>266</td>
<td>1.14</td>
</tr>
<tr>
<td>4040RHD, 22, R0</td>
<td>225</td>
<td>279</td>
<td>1.14</td>
</tr>
<tr>
<td>4040RHD, 23, R0</td>
<td>237</td>
<td>291</td>
<td>1.28</td>
</tr>
<tr>
<td>4040RHD, 25, R0</td>
<td>250</td>
<td>304</td>
<td>1.50</td>
</tr>
<tr>
<td>4040RHD, 26, R0</td>
<td>262</td>
<td>316</td>
<td>1.59</td>
</tr>
<tr>
<td>4040RHD, 27, R0</td>
<td>275</td>
<td>329</td>
<td>1.70</td>
</tr>
<tr>
<td>4040RHD, 28, R0</td>
<td>287</td>
<td>341</td>
<td>1.75</td>
</tr>
<tr>
<td>4040RHD, 30, R0</td>
<td>300</td>
<td>354</td>
<td>1.81</td>
</tr>
</tbody>
</table>

**Part No. | Bi [mm] | Ba [mm] | 4040RHD [kg] |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4040RHD, 31, R0</td>
<td>312</td>
<td>366</td>
<td>0.94</td>
</tr>
<tr>
<td>4040RHD, 32, R0</td>
<td>325</td>
<td>379</td>
<td>0.96</td>
</tr>
<tr>
<td>4040RHD, 33, R0</td>
<td>337</td>
<td>391</td>
<td>0.97</td>
</tr>
<tr>
<td>4040RHD, 35, R0</td>
<td>350</td>
<td>404</td>
<td>0.97</td>
</tr>
<tr>
<td>4040RHD, 36, R0</td>
<td>362</td>
<td>416</td>
<td>0.98</td>
</tr>
<tr>
<td>4040RHD, 37, R0</td>
<td>375</td>
<td>429</td>
<td>0.98</td>
</tr>
<tr>
<td>4040RHD, 38, R0</td>
<td>387</td>
<td>441</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 40, R0</td>
<td>400</td>
<td>454</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 41, R0</td>
<td>412</td>
<td>466</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 42, R0</td>
<td>425</td>
<td>479</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 43, R0</td>
<td>437</td>
<td>491</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 45, R0</td>
<td>450</td>
<td>504</td>
<td>0.99</td>
</tr>
<tr>
<td>4040RHD, 46, R0</td>
<td>462</td>
<td>516</td>
<td>1.01</td>
</tr>
<tr>
<td>4040RHD, 47, R0</td>
<td>475</td>
<td>529</td>
<td>1.06</td>
</tr>
<tr>
<td>4040RHD, 48, R0</td>
<td>487</td>
<td>541</td>
<td>1.08</td>
</tr>
<tr>
<td>4040RHD, 50, R0</td>
<td>500</td>
<td>554</td>
<td>1.23</td>
</tr>
<tr>
<td>4040RHD, 51, R0</td>
<td>512</td>
<td>566</td>
<td>1.26</td>
</tr>
<tr>
<td>4040RHD, 52, R0</td>
<td>525</td>
<td>579</td>
<td>1.30</td>
</tr>
<tr>
<td>4040RHD, 53, R0</td>
<td>537</td>
<td>591</td>
<td>1.32</td>
</tr>
<tr>
<td>4040RHD, 55, R0</td>
<td>550</td>
<td>604</td>
<td>1.38</td>
</tr>
<tr>
<td>4040RHD, 60, R0</td>
<td>600</td>
<td>654</td>
<td>1.37</td>
</tr>
</tbody>
</table>

---

**Rolling applications | Long travels up to max. 600 m | Fill weight 16 kg/m**

<table>
<thead>
<tr>
<th>S/2</th>
<th>200*</th>
<th>250*</th>
<th>300</th>
<th>350</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL</td>
<td>1,820</td>
<td>2,184</td>
<td>2,548</td>
<td>2,912</td>
<td>3,276</td>
</tr>
<tr>
<td>LK</td>
<td>1,145</td>
<td>1,390</td>
<td>1,620</td>
<td>1,870</td>
<td>2,095</td>
</tr>
<tr>
<td>S/2</td>
<td>1,090</td>
<td>1,275</td>
<td>1,410</td>
<td>1,530</td>
<td>1,650</td>
</tr>
<tr>
<td>D2</td>
<td>1,820</td>
<td>2,184</td>
<td>2,548</td>
<td>2,912</td>
<td>3,276</td>
</tr>
<tr>
<td>K2</td>
<td>1,090</td>
<td>1,275</td>
<td>1,410</td>
<td>1,530</td>
<td>1,650</td>
</tr>
</tbody>
</table>

---

**Accessories**

- Optimised, cable-friendly interior separation
- Steel mounting brackets, pivoting, tough and electrically conductive
- Aluminium SuperTough, Heavy-duty Version

---

**Available bend radii**

- Complete Part No. with required radius (R). Example: 4040RHD, 30, 300.0

---

**Notes:**

- We recommend the project planning of such a system to be carried out by igus®.
- In case of travels under 10 m we recommend an unsupported e-chain®.

---

**More information >> [www.igus.eu/4040RHD](http://www.igus.eu/4040RHD)**
Rolling instead of gliding, long travels up to 600m

**e-chains® | Series 5050R | Crossbars every link** (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>e-chains®</th>
<th>e-tubes</th>
<th>s5050</th>
<th>s9850</th>
<th>R5050</th>
<th>R9850</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050R</td>
<td>05. R0</td>
<td>50 100</td>
<td>6.52</td>
<td>6.66</td>
<td>5.69</td>
<td>5.68</td>
</tr>
<tr>
<td>5050R</td>
<td>06. R0</td>
<td>65 115</td>
<td>6.58</td>
<td>6.68</td>
<td>5.80</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>07. R0</td>
<td>75 125</td>
<td>6.57</td>
<td>6.70</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>08. R0</td>
<td>87 137</td>
<td>6.57</td>
<td>6.75</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>09. R0</td>
<td>112 163</td>
<td>6.57</td>
<td>6.75</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>12. R0</td>
<td>125 175</td>
<td>5.89</td>
<td>5.99</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>13. R0</td>
<td>137 188</td>
<td>5.96</td>
<td>5.99</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>15. R0</td>
<td>150 200</td>
<td>5.96</td>
<td>7.02</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>16. R0</td>
<td>162 213</td>
<td>6.04</td>
<td>7.02</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>17. R0</td>
<td>175 225</td>
<td>6.09</td>
<td>7.08</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>18. R0</td>
<td>187 238</td>
<td>6.15</td>
<td>7.08</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>20. R0</td>
<td>200 250</td>
<td>6.16</td>
<td>7.09</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>21. R0</td>
<td>212 263</td>
<td>6.22</td>
<td>7.09</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>22. R0</td>
<td>225 275</td>
<td>6.25</td>
<td>7.09</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>23. R0</td>
<td>237 288</td>
<td>6.31</td>
<td>7.09</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>25. R0</td>
<td>250 300</td>
<td>6.36</td>
<td>8.01</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>26. R0</td>
<td>262 313</td>
<td>6.40</td>
<td>8.01</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>27. R0</td>
<td>275 325</td>
<td>6.46</td>
<td>8.02</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>28. R0</td>
<td>287 338</td>
<td>6.47</td>
<td>8.02</td>
<td>5.88</td>
<td>5.69</td>
</tr>
<tr>
<td>5050R</td>
<td>30. R0</td>
<td>300 350</td>
<td>6.58</td>
<td>9.27</td>
<td>5.88</td>
<td>5.69</td>
</tr>
</tbody>
</table>

**Part No. | Series 9850R | Fully enclosed** (lids openable along the outer radius, from one side)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>R5050</th>
<th>R9850</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050R</td>
<td>30. R0</td>
<td>300 350</td>
</tr>
</tbody>
</table>

Rolling applications | Long travels up to max. 600m | Fill weight 25kg/m

**Note:** We recommend the project planning of such a system to be carried out by igus®.

In case of travels under 10m we recommend an unsupported e-chain®.

We recommend the project planning of such a system to be carried out by igus®.

**Available bend radii**

- **R** [mm]: 250 | 300 | 350 | 400 | 500
- Complete Part No. with required radius [R]. Example: 5050R30.300.0

**Long travels up to max. 600m**

**Fill weight 25kg/m**

**Total length of guide trough**

**Moving end**

**Fixed end**

**Note:**

- For extremely wide e-chain® lengths, 10% additional clearance is recommended.
- For extremely wide e-chains®, use additional clearance.

**Accessories**

- Optimised, cable-friendly interior separation
- Pivoting KMA mounting bracket with attachment from any side
- Extension links - for extremely wide e-chains® up to 3.0m
- Aluminium SuperTrough, basic version

**Contact igus® for delivery time.**

**3D CAD, configurators, service life calculation and more**

Rol e-chains® | 5050RHD | Product range
Heavy-duty - rolling instead of gliding, long travels up to 800m

| e-chains® | Series 5050RHD | Crossbars every link (crossbars removable along the inner and outer radius) |
| Part No. | Bi [mm] | Ba [mm] | 5050RHD |
| 5050RHD.05, R0 | 50 | 110 | 6.65 |
| 5050RHD.06, R0 | 65 | 125 | 6.74 |
| 5050RHD.07, R0 | 75 | 135 | 6.81 |
| 5050RHD.08, R0 | 87 | 147 | 6.89 |
| 5050RHD.10, R0 | 100 | 160 | 7.09 |
| 5050RHD.11, R0 | 112 | 172 | 7.10 |
| 5050RHD.12, R0 | 125 | 185 | 7.18 |
| 5050RHD.13, R0 | 137 | 197 | 7.32 |
| 5050RHD.15, R0 | 150 | 210 | 7.35 |
| 5050RHD.16, R0 | 162 | 222 | 7.47 |
| 5050RHD.17, R0 | 175 | 235 | 7.60 |
| 5050RHD.18, R0 | 187 | 247 | 7.71 |
| 5050RHD.20, R0 | 200 | 260 | 7.77 |
| 5050RHD.21, R0 | 212 | 272 | 7.84 |
| 5050RHD.22, R0 | 225 | 285 | 7.91 |
| 5050RHD.23, R0 | 237 | 297 | 8.02 |
| 5050RHD.25, R0 | 250 | 310 | 8.13 |
| 5050RHD.26, R0 | 262 | 322 | 8.22 |
| 5050RHD.27, R0 | 275 | 335 | 8.32 |
| 5050RHD.28, R0 | 287 | 347 | 8.36 |
| 5050RHD.30, R0 | 300 | 360 | 8.53 |

Part No. | Bi [mm] | Ba [mm] | 5050RHD |
| 5050RHD.30, R0 | 312 | 372 | 8.57 |
| 5050RHD.32, R0 | 325 | 385 | 8.67 |
| 5050RHD.33, R0 | 337 | 397 | 8.79 |
| 5050RHD.35, R0 | 350 | 410 | 8.99 |
| 5050RHD.36, R0 | 362 | 422 | 9.00 |
| 5050RHD.37, R0 | 375 | 435 | 9.00 |
| 5050RHD.38, R0 | 387 | 447 | 9.11 |
| 5050RHD.40, R0 | 400 | 460 | 9.38 |
| 5050RHD.41, R0 | 412 | 472 | 9.31 |
| 5050RHD.42, R0 | 425 | 485 | 9.60 |
| 5050RHD.43, R0 | 437 | 497 | 9.44 |
| 5050RHD.45, R0 | 450 | 510 | 9.55 |
| 5050RHD.46, R0 | 462 | 522 | 9.72 |
| 5050RHD.47, R0 | 475 | 535 | 9.76 |
| 5050RHD.48, R0 | 487 | 547 | 10.01 |
| 5050RHD.50, R0 | 500 | 560 | 10.11 |
| 5050RHD.51, R0 | 512 | 572 | 10.02 |
| 5050RHD.52, R0 | 525 | 585 | 10.19 |
| 5050RHD.53, R0 | 537 | 597 | 10.29 |
| 5050RHD.55, R0 | 550 | 610 | 10.71 |
| 5050RHD.60, R0 | 600 | 660 | 10.94 |

**Radius not available for e-tubes.**

Available bend radii

- R [mm]: 250* | 300 | 350 | 400 | 500
- Complete Part No. with required radius (R), Example: 5050RHD.30, 300.0

Notes:

- *Radius not available for e-tubes.
- 1) Lid removable only, no hinged option
- 2) Bi, Ba (°): Bi corresponds to 84° for Bi < 250, 84° for Bi > 250
- 3) Ba, more information for Bi > 250
- 4) Bi corresponds to 91° for Bi < 300, 91° for Bi > 300
- 5) Ba, more information for Bi > 300

More information: [www.igus.eu/5050RHD](http://www.igus.eu/5050RHD)
E2/000 rol e-chain®

For long travels up to 150m, energy efficient and cost-effective

Advantages E2/000 rol e-chain®:
- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Low-noise operation as the roller link has the same pitch as the standard link
- Max. rolling speed up to 4m/s
- Available in 2 sizes
- Available as cost-effective ready-to-fit harnessed system
- Many accessories available
- Construction kit solution with guidelite-guiding trough for cost-effective and simple travels up to 150m

When to use another e-chain® series:
- For very high fill weights for long travels
  - E4/4HD heavy-duty, page 1092
- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
  - P4 system, page 1112
- When you want a self-guiding e-chain system® without any guide troughs
  - autoglide, page 1170
Long travels up to 150m, energy-efficient and cost-effective - E2/000 rol e-chain®

The igus® rol e-chain® of the E2/000 series enables very cost-effective long travels up to 150m. As a result, the drive power needed is reduced by up to 75% and the service life of the e-chain® is increased. The rol e-chain® of the E2/000 series is the perfect solution for long travels in simple environments, e.g. in greenhouses, etc.
- Economic, long travel up to 150m
- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Low-noise operation as the roller e-chain® link has the same pitch as the standard e-chain® link
- Max. rolling speed up to 4m/s
- Available in 2 sizes
- Available as cost-effective ready-to-fit harnessed system
- Construction kit solution with guidelite guide trough for cost-effective and simple travels up to 150m

Typical industries and applications
- Greenhouses
- Crane equipment
- Bulk-handling/material handling equipment
- Traversing systems
- Travel distances up to 150m
- Applications with low cycle numbers

Even more cost-effective: E2/000 rol e-chain® with guidelite guide trough as a construction kit solution
- Cost-effective long travels up to 150m
- Construction kit system for long travels with low cycle duty
- Lightweight, cost-effective and corrosion-resistant

More information ➤ www.igus.eu/guidelite

Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

E2/000 rol e-chains® - crossbars openable along the outer radius, from both sides

Series | Inner height $h$ [mm] | Inner width $Bi$ [mm] | Outer width $Ba$ [mm] | Outer height $ha$ [mm] | Bend radius $R$ [mm] | Travel $L$ [m] | Page
---|---|---|---|---|---|---|---
E2/000 rol e-chains® - crossbars openable along the outer radius, from both sides
2700R | 35 | 50 - 175 | 66 - 194 | 50 | 150 | 150 | 1166
3500R | 45 | 50 - 250 | 70 - 270 | 64 | 125 - 200 | 150 | 1168
Technical data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed rolling</td>
<td>≤ 4 [m/s]</td>
</tr>
<tr>
<td>Acceleration rolling</td>
<td>≤ 50 [m/s²]</td>
</tr>
<tr>
<td>Material - permitted temperature °C, igumid G</td>
<td>-40°C / +120°C</td>
</tr>
<tr>
<td>Flammability class, igumid G</td>
<td></td>
</tr>
<tr>
<td>VDE 0304 IIC UL94-HB</td>
<td></td>
</tr>
</tbody>
</table>

Order example | Order key

Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

<table>
<thead>
<tr>
<th>Order key</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>e-chain® (1.0m)</td>
<td>Please indicate e-chain® length or number of links: 1.0m or 15 links 3500R.100.150.0</td>
</tr>
<tr>
<td>+ Mounting brackets</td>
<td>1 set, KMA pivoting</td>
</tr>
<tr>
<td>Interior separation</td>
<td>with 2 separators assembled every 2nd link 2 x 45.1.1</td>
</tr>
<tr>
<td>Order text:</td>
<td>1 m 3500R.100.150.0 + 34001.100.12.C + 2 x 45.1.1</td>
</tr>
</tbody>
</table>

Order key

3500R.100.150.0

E2/000 rol e-chain® in a guidelite guide trough on an irrigation plant

P4 profile rol e-chain® - reduce energy consumption by 57%

- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

autoglide - self-guiding e-chain systems®

- Self-guiding e-chains® without the need for guide troughs, available in 4 versions
- Travels up to 80m and travel speeds up to 2.5m/s
- Quick installation for long travels
- Small width, quiet operation, cost-effective

More information ➤ From page 1112

E2/000 rol e-chain® | 2700R | Product range
Long travels up to 150m - energy-efficient and cost-effective

e-chain® | Series 2700R | Openable along the outer radius, from both sides

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>R [mm]</th>
<th>Available bend radii</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700R.05</td>
<td>50</td>
<td>66</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.06</td>
<td>65</td>
<td>81</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.07</td>
<td>75</td>
<td>91</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.09</td>
<td>90</td>
<td>106</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.10</td>
<td>100</td>
<td>116</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.12</td>
<td>125</td>
<td>141</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.15</td>
<td>150</td>
<td>166</td>
<td>100</td>
<td>125* 150</td>
</tr>
<tr>
<td>2700R.17</td>
<td>175</td>
<td>194</td>
<td>100</td>
<td>125* 150</td>
</tr>
</tbody>
</table>

Notes:
- Radius available upon request. Please consult igus® for delivery time.
- Complete Part No. with required radius (R). Example: 2700R.100.150.0

Even more cost-effective: E2/000 rol e-chain® with guidelite guide trough as a construction kit solution

- Cost-effective long travels up to 150m
- Construction kit system for long travels with low cycle duty
- Lightweight, cost-effective and corrosion-resistant

More information ► www.igus.eu/guidelite

E2/000 rol e-chains® | 2700R | Installation dimensions

E2/000 rol e-chains® mechanism
The upper run rolls on the lower run of the e-chain®. "Rolling instead of gliding"*LK = S/2 + K2

Rolling applications | Long travels up to max. 150m | Fill weight 2.5kg/m

| Width ≤32 mm |

<table>
<thead>
<tr>
<th>Inner height [mm]</th>
<th>35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch [mm/link]</td>
<td>56</td>
</tr>
<tr>
<td>Links/m corresponds to [mm]</td>
<td>1,008</td>
</tr>
<tr>
<td>e-chain® length</td>
<td>Lk = S/2 + K2</td>
</tr>
</tbody>
</table>

Notes: We recommend the project planning of such a system to be carried out by igus®.
In case of travels under 10m we recommend an unsupported e-chain®.

<table>
<thead>
<tr>
<th>R [mm]</th>
<th>H [mm]</th>
<th>D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>166</td>
<td>350</td>
</tr>
<tr>
<td>125</td>
<td>166</td>
<td>475</td>
</tr>
<tr>
<td>150</td>
<td>166</td>
<td>500</td>
</tr>
<tr>
<td>200</td>
<td>166</td>
<td>770</td>
</tr>
<tr>
<td>250</td>
<td>166</td>
<td>950</td>
</tr>
</tbody>
</table>

| ACL [mm] |
| 144 |

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

Accessories | More information ► www.igus.eu/2700R

- Optimised, cable-friendly interior separation
- Pivoting KMA mounting bracket with attachment from any side
- Plastic mounting brackets with many strain relief options
- Steel mounting brackets, tough and electrically conductive
- Aluminium SuperTrough, basic version

More information ► www.igus.eu/2700R
E2/000 rol e-chain® | Series 3500R | Product range

Long travels up to 150m - energy-efficient and cost-effective

E2/000 rol e-chains® | 3500R | Installation dimensions

E2/000 rol e-chains® mechanism

The upper run rolls on the lower run of the e-chain®, "Rolling instead of gliding"

LK = S/2 + K2

Moving end

S

Fixed end

Guide trough with glide bar

Guide trough without glide bar

Total length of guide trough

Notes:

We recommend the project planning of such a system to be carried out by igus®.
In case of travels under 10m we recommend an unsupported e-chain®.

Part No. | B | Ba | Available bend radii | R (mm) | inch
--- | --- | --- | --- | --- | ---
3500R.050 | 50 | 70 | 125 | 250 | 150 | 200 | 300 | 2.03
3500R.075 | 50 | 70 | 150 | 250 | 170 | 220 | 300 | 2.17
3500R.100 | 100 | 120 | 125 | 250 | 150 | 200 | 300 | 2.28
3500R.125 | 115 | 135 | 125 | 250 | 150 | 200 | 300 | 2.29
3500R.150 | 125 | 145 | 125 | 250 | 150 | 200 | 300 | 2.33
3500R.175 | 150 | 170 | 125 | 250 | 150 | 200 | 300 | 2.39
3500R.200 | 175 | 195 | 125 | 250 | 150 | 200 | 300 | 2.39
3500R.225 | 200 | 220 | 125 | 250 | 150 | 200 | 300 | 2.45
3500R.250 | 225 | 245 | 125 | 250 | 150 | 200 | 300 | 2.55
3500R.300 | 250 | 270 | 125 | 250 | 150 | 200 | 300 | 2.73

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

Complete Part No. with required radius (R). Example: 3500R.100.150.0

Even more cost-effective: E2/000 rol e-chain® with guidelite guide trough as a construction kit solution

- Cost-effective long travels up to 150m
- Construction kit system for long travels with low cycle duty
- Lightweight, cost-effective and corrosion-resistant

More information ➤ www.igus.eu/guidelite

Further information:

- Optimised, cable-friendly interior separation
- Pivoting KMA mounting bracket with attachment from any side
- Plastic mounting brackets with many strain relief options
- Steel mounting brackets, tough and electrically conductive
- Aluminium SuperTrough, basic version

More information ➤ www.igus.eu/3500R

3D CAD, configurators, service life calculation and more ➤ www.igus.eu/E2000R
autoglide

Make savings on long travel distances with self-guiding e-chains®

Advantages autoglide:
● Self-guiding e-chain systems®, without the need for any guide troughs
● Safe, low-noise, abrasion-resistant energy supply system for long travels
● Available in 4 versions
● Travels up to 80m and travel speeds up to 2.5m/s
● Cost-effective solution, guide troughs not required
● Small width, quiet operation

When to use another e-chain® series:
● For very high fill weights for long travels
  ► E4/4HD heavy-duty, page 1092
● When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
  ► P4 system, page 1112
● When you want a strong rol e-chain® requiring 75% less drive power
  ► E4/4 rol e-chain®, page 1142
There are 4 versions of the igus® autoglide system

Version 1 - for igus® E4.1 e-chains®
Special crossbars along the inner radius of the igus® e-chain® fitted with moulded autoglide grooves

Version 2 - for igus® E2/000 e-chains®
Special crossbars with moulded autoglide grooves. Openable along the inner radius

Version 3 - for igus® easy chain® e-chains®
Combination of the easy to fill easy chain® and moulded autoglide grooves along the inner radius

Version 4 - for series E2/000 e-chains®
Special plastic autoglide grooves side-mounted on the e-chain® keep the e-chain® on track

Make savings on long travel distances with self-guiding e-chains® - autoglide

Long travels are always demanding for an e-chain system®. For much of the travel, the e-chain® must run on the lower run or on glide bars. In addition the e-chain system® needs guides, in order to prevent sideways movement. In most cases this is ensured by using a guide trough. However, there are also applications where a guide trough is not desirable for space reasons, whether this is due to visual or spatial requirements. In order to meet this need, igus® developed the autoglide system in 1995. autoglide is a self-aligning e-chain®, which can dispense with guide troughs for up to 80m travel.

- Travels up to 80m and travel speeds up to 2.5m/s
- Cost-effective solution, guide troughs not required
- Very fast installation for long travel distances, no guide troughs needed!
- Small width, quiet operation

Typical industries and applications
- Industrial vehicles
- Long travels with light filling
- Simple outdoor applications

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4.32AG</td>
<td>32</td>
<td>112 - 262</td>
<td>136 - 286</td>
<td>54</td>
<td>100 - 300</td>
<td>60</td>
<td>1176</td>
</tr>
<tr>
<td>E4.42AG</td>
<td>42</td>
<td>112 - 262</td>
<td>139 - 289</td>
<td>64</td>
<td>125 - 350</td>
<td>70</td>
<td>1178</td>
</tr>
<tr>
<td>E4.56AG</td>
<td>56</td>
<td>150 - 250</td>
<td>184 - 284</td>
<td>84</td>
<td>150 - 500</td>
<td>80</td>
<td>1180</td>
</tr>
</tbody>
</table>

Make savings on long travel distances with self-guiding e-chains® - autoglide

Version 01 - self-guiding e-chains® for system E4.1
crossbars along the inner radius of the e-chain® fitted with moulded autoglide grooves

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400AG</td>
<td>25</td>
<td>57 - 77</td>
<td>73 - 93</td>
<td>35</td>
<td>075 - 250</td>
<td>40</td>
<td>1184</td>
</tr>
<tr>
<td>2600AG</td>
<td>35</td>
<td>50 - 75</td>
<td>66 - 91</td>
<td>50</td>
<td>075 - 250</td>
<td>60</td>
<td>1186</td>
</tr>
<tr>
<td>3400AG</td>
<td>45</td>
<td>75 - 100</td>
<td>95 - 120</td>
<td>64</td>
<td>100 - 300</td>
<td>70</td>
<td>1188</td>
</tr>
</tbody>
</table>

Version 02 - self-guiding e-chains® for system E2/000
crossbars along the inner radius of the e-chain® fitted with moulded autoglide grooves

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400AG</td>
<td>25</td>
<td>57 - 125</td>
<td>73 - 141</td>
<td>35</td>
<td>055 - 250</td>
<td>20</td>
<td>1196</td>
</tr>
<tr>
<td>2600AG</td>
<td>35</td>
<td>50 - 250</td>
<td>66 - 194</td>
<td>50</td>
<td>075 - 250</td>
<td>30</td>
<td>1198</td>
</tr>
</tbody>
</table>

Version 03 - easy filling - simply press cables in
easy chain® design along outer radius, moulded autoglide combs along the inner radius

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA16</td>
<td>32</td>
<td>48</td>
<td>60</td>
<td>39</td>
<td>065 - 100</td>
<td>20</td>
<td>1192</td>
</tr>
<tr>
<td>EA25</td>
<td>25</td>
<td>50</td>
<td>60</td>
<td>25.2</td>
<td>075 - 100</td>
<td>20</td>
<td>1193</td>
</tr>
</tbody>
</table>

Version 04 - special glide elements provide
safe guidance in the case of the E2/000: e-chains® half and full e-tubes

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bend radius</th>
<th>Travel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400/2500AG</td>
<td>25</td>
<td>57 - 125</td>
<td>73 - 141</td>
<td>35</td>
<td>055 - 250</td>
<td>20</td>
<td>1196</td>
</tr>
<tr>
<td>2600/2700AG</td>
<td>35</td>
<td>50 - 250</td>
<td>66 - 194</td>
<td>50</td>
<td>075 - 250</td>
<td>30</td>
<td>1198</td>
</tr>
</tbody>
</table>

Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.
Self-guiding e-chains® for system E4.1 - autoglide version 01

For the larger e-chains® of the E4.1 system, glide wings and floor guides - simple guide elements for quick installation on the floor are available for the autoglide system version 01. The eccentric guides are fastened to the floor every 2 metres. The glide wing fastened on the moving end keeps the e-chain® securely on track. The autoglide crossbars safely guide the e-chain® and replace the guide trough.

- For the larger E4.1 e-chains®
- Simple guide elements for quick installation
- The autoglide crossbars safely guide the e-chain® replacing the need for a guide trough
- For travels over 10m
- Floor guides can be driven over

**Note:** Only two glide wings AG.XXX.OF are required for the safe running of the e-chain®. The glide wing is mounted on the outer link of the upper run, which then holds onto the lower run.

**Typical industries and applications**
- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

Find a video online

[www.igus.eu/autoglide](http://www.igus.eu/autoglide)

Self-guiding e-chains® for system E4.1 - autoglide version 01

![Image of autoglide version 01](image)

---

**Practical:** traversable floor guides

**Safely on track:** assembled glide wing holds the e-chain®

**Smooth running:** offset operation of upper and lower run

**Secure guidance:** comb style autoglide crossbars

**Universal:** KMA attachment from any side

---

**Technical data**

- **Speed gliding**
  - ≤ 2.5 [m/s]
- **Acceleration gliding**
  - ≤ 2.5 [m/s²]
- **Material - permitted temperature °C, igumid G**
  - -40°C / +120°C
- **Flammability class, igumid G**
  - VDE 0304 IIC UL94-HB

---

**Order example | Order key**

**Order example for complete e-chain® (15.0m), colour black, with mounting brackets and interior separation:**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Order examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed gliding</td>
<td>≤ 2.5 [m/s]</td>
</tr>
<tr>
<td>Acceleration gliding</td>
<td>≤ 2.5 [m/s²]</td>
</tr>
<tr>
<td>Material - permitted temperature °C, igumid G</td>
<td>-40°C / +120°C</td>
</tr>
<tr>
<td>Flammability class, igumid G</td>
<td>VDE 0304 IIC UL94-HB</td>
</tr>
</tbody>
</table>

**Order example for complete e-chain® (15.0m), colour black, with mounting brackets and interior separation:**

- e-chain® (15m) indicate e-chain® length: 15m
- e-chain® + Glide wings Module, containing 3 e-chain® links and 2 glide wings
- + Floor guides 8 pieces (2 units every 2m from the half of the travel)

**Order text:**

15 m E4.32.15.150.0.AG.NC + E4.32.15.150.0.AG.OF.NC + E4.32.15.150.0.AG.NC + AG.380.BF

*Note:* we require one glide wing per e-chain® to the left and right at the position where the upper run first meets the lower run.

---

**Available from stock. Ready to ship in 24 - 48hrs.**

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.*
Version 01 | Series E4.32AG | Product range
Crossbars along the inner radius fitted with moulded autoglide grooves

Series E4.32AG | Crossbars every link (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R</th>
<th>Available bend radii</th>
<th>E4.32AG</th>
<th>Glide wing*</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4.32.112.R0.AG.NC</td>
<td>112</td>
<td>136</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.32.125.R0.AG.NC</td>
<td>125</td>
<td>148</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.32.150.R0.AG.NC</td>
<td>150</td>
<td>173</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.32.168.R0.AG.NC</td>
<td>168</td>
<td>191</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.32.200.R0.AG.NC</td>
<td>200</td>
<td>223</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.32.262.R0.AG.NC</td>
<td>262</td>
<td>286</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>175</td>
<td>200</td>
</tr>
</tbody>
</table>

More widths upon request. Please consult igus® for delivery time. *Part No. of individual part.

Complete Part No. with required radius (R). Example: E4.32.15.150.0.AG.NC To receive autoglide e-chains® with pre-fitted glide wings please add index *.OF. Example: E4.32.15.150.0.AG.OF.NC

Version 01 | Series E4.32AG | Installation dimensions

autoglide principle
Offset operation of upper and lower run, offering a consistent glide surface

Gliding applications | Long travels up to max. 60m | Fill weight* 5.0 - 7.0kg/m
*depends on radius

Notes: We recommend the project planning of such a system to be carried out by igus®. In case of travels under 10m we recommend an unsupported e-chain®.

R  | 100 | 125 | 150 | 175 | 200 | 220 | 250 | 300
---|-----|-----|-----|-----|-----|-----|-----|-----
H2 | 166 | 166 | 166 | 166 | 166 | 166 | 166 | 166
D2 | 370 | 470 | 500 | 655 | 770 | 900 | 930 | 1,100
Kd | 840 | 1,064 | 1,232 | 1,568 | 1,848 | 2,072 | 2,240 | 2,688

More information | www.igus.eu/E4.32AG

P4 profile-rol e-chain® - reduce energy consumption by 57%
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

More information | From page 1112

Optimised, cable-friendly interior separation
Pivoting KMA mounting bracket with attachment from any side

Accessories | More information | www.igus.eu/E4.32AG
**Version 01 | Series E4.42AG | Product range**

Crossbars along the inner radius fitted with moulded autoglide grooves

**Series E4.42AG | Crossbars every link** (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R</th>
<th>Available bend radii</th>
<th>E4.42AG</th>
<th>Glide wing*</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4.42.112,R,0,AG.NC</td>
<td>112</td>
<td>139</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.42.12,R,0,AG.NC</td>
<td>125</td>
<td>151</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.42.15,R,0,AG.NC</td>
<td>150</td>
<td>176</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.42.17,R,0,AG.NC</td>
<td>168</td>
<td>194</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.42.20,R,0,AG.NC</td>
<td>200</td>
<td>226</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
<tr>
<td>E4.42.262,R,0,AG.NC</td>
<td>262</td>
<td>289</td>
<td>125</td>
<td>150</td>
<td>160</td>
<td>175</td>
<td>200</td>
</tr>
</tbody>
</table>

More widths upon request. Please consult igus® for delivery times. “Part No. of individual part”

Complete Part No. with required radius (R). Example: E4.42.15.150.0.AG.NC

To receive autoglide e-chains® with pre-fitted glide wings please add index OF. Example: E4.42.15.150.0.AG.OF.NC

**P4 profile-rol e-chain® - reduce energy consumption by 57%**

- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

More information ► From page 1112

---

**Version 01 | Series E4.42AG | Installation dimensions**

**autoglide principle**

Offset operation of upper and lower run, offering a consistent glide surface

**Gliding applications** | Long travels up to max. 70m | Fill weight* 4.0 - 9.6kg/m

*depends on radius

**Notes:** We recommend the project planning of such a system to be carried out by igus®. In case of travels under 10m we recommend an unsupported e-chain®.

- Fixed end
- Moving end

**Accessories | More information ► www.igus.eu/E4.42AG**
Series E4.56AG | Crossbars every link (crossbars removable along the inner and outer radius)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R Available bend radii</th>
<th>E4.56AG</th>
<th>Glide wing*</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4.56.15.R.0.AG.NC</td>
<td>150</td>
<td>184</td>
<td>[150]</td>
<td>175</td>
<td>200</td>
<td>240</td>
</tr>
<tr>
<td>E4.56.21.R.0.AG.NC</td>
<td>212</td>
<td>247</td>
<td>[150]</td>
<td>175</td>
<td>200</td>
<td>240</td>
</tr>
<tr>
<td>E4.56.25.R.0.AG.NC</td>
<td>260</td>
<td>294</td>
<td>[150]</td>
<td>175</td>
<td>200</td>
<td>240</td>
</tr>
</tbody>
</table>

More widths upon request. Please consult igus® for delivery time. *Part No. of individual part.

Complete Part No. with required radius (R). Example: E4.56.15.150.0.AG.NC

To receive autoglide e-chains® with pre-fitted glide wings please add index .OF. Example: E4.56.15.150.0.AG.0F.NC

P4 profile-rol e-chain® - reduce energy consumption by 57%
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 800m and more, high fill weights up to 30kg/m
- For very long travels and high travel speeds up to 10m/s
- autoglide crossbars for safe guidance

More information ➤ From page 1112

Version 01 | Series E4.56AG | Product range
Crossbars along the inner radius fitted with moulded autoglide grooves
Self-guiding e-chains® for system E2/000 - autoglide version 02

Guide troughs for long travels can be dispensed with when using the autoglide system. Self-guiding e-chains® can glide safely on top of each other for up to 70 metres. The system has now been extended to the igus® E2/000 and further improved. The autoglide crossbars ensure even longer life. A clip-on glide wing ensures safe e-chain® alignment over the first few metres of travel. The eccentric guides are fastened to the floor every 2 metres.

- Travel distance up to 70m and speed up to 2.0m/s
- Very compact, removes troughs forming an obstacle in the working area
- Quick installation for long travels
- Openable along the inner radius
- Also for "half tube" fully enclosed in the outer radius
- Clip-on glide wings, secure movement of the e-chain®
- Floor guides can be driven over

Typical industries and applications
- Greenhouses
- Storage and retrieval systems
- Conveyor belts
- Indoor cranes
- Handlings
- And many other long travel applications

Find a video online
► www.igus.eu/safetrough

Version 02 | Technical data | Order examples

Technical data

- **Speed gliding** ≤ 2.0 [m/s]
- **Acceleration gliding** ≤ 1.0 [m/s²]
- **Material - permitted temperature °C**, igumid G
  -40°C / +120°C
- **Flammability class**, igumid G
  VDE 0304 IIC UL94-HB

Order example | Order key

Order example for complete e-chain® (15.0m), colour black, with mounting brackets and interior separation:

e-chain® (15m) indicate e-chain® length: 15m
E4.32.15.0.0.AG.NC

+ Glide wings 2 glide wings are required per e-chain®
E4.32.15.0.0.AG.OF.NC

+ Floor guides 8 pieces (2 units every 2m from the half of the travel)
AG.380.BF

Order text: 15 m 2400.05AG.100.0 + AG.2400.OF + AG.380.BF

Order key
2400.05AG.100.0

Default colour black
Bend radius R
autoglide
Width index
Series / Type

Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.
**Version 02 | Series 2400AG | Product range**

Crossbars with moulded autoglide grooves

---

**E2000 rol e-chain® - energy-efficient and cost-effective**
- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Travels up to 150m, max. rolling speed up to 4m/s
- Available as cost-effective ready-to-fit harnessed system with many accessories

More information ► From page 1160

---

**Version 02 | Series 2400AG | Installation dimensions**

**Part No.** | **B1** | **Ba** | **R** | **Available bend radii** | **2400AG** | **Glide wing** | **Floor guide**
--- | --- | --- | --- | --- | --- | --- | ---
2400.05 AG. /R.0 | 57 | 73 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1.00 | AG.2400.OF | AG.380.BF
2400.07 AG. /R.0 | 77 | 93 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1.10 | AG.2400.OF | AG.380.BF

**Notes:** We recommend the project planning of such a system to be carried out by igus®. For travels between 4.0 and 10m we recommend an unsupported e-chain®.

---

**Accessories | More information ► www.igus.eu/2400AG**

- Optimised, cable-friendly interior separation
- Pivotable mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

More information ► From page 1160

---

**More information ► www.igus.eu/2400AG**

---

**More information ► www.igus.eu/autoglide**

---

**Version 02 | Series 2400AG | Gliding applications | Long travels up to max. 40m | Fill weight 2.0kg/m**

---

**Notes:**
- We recommend the project planning of such a system to be carried out by igus®.
- For travels between 4.0 and 10m we recommend an unsupported e-chain®.

<table>
<thead>
<tr>
<th><strong>R</strong></th>
<th><strong>H2</strong></th>
<th><strong>D2</strong></th>
<th><strong>K2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>075</td>
<td>150</td>
<td>162</td>
<td>598</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>380</td>
<td>920</td>
</tr>
<tr>
<td>125</td>
<td>100</td>
<td>440</td>
<td>1,058</td>
</tr>
<tr>
<td>150</td>
<td>100</td>
<td>590</td>
<td>1,426</td>
</tr>
<tr>
<td>175</td>
<td>100</td>
<td>755</td>
<td>1,794</td>
</tr>
<tr>
<td>200</td>
<td>100</td>
<td>950</td>
<td>2,208</td>
</tr>
<tr>
<td>225</td>
<td>100</td>
<td>1,040</td>
<td>2,438</td>
</tr>
<tr>
<td>250</td>
<td>100</td>
<td>1,130</td>
<td>2,668</td>
</tr>
</tbody>
</table>

---

**Inner height (mm): 25**
**Pitch (mm/link): 46**
**Links/m: 22**
**corresponds to (mm): 1.012**
**e-chain® length: $$L_e = \frac{S}{2} + K$$**
**Crossbars with moulded autoglide grooves**

**Part No.** | **Bi** | **Ba** | **R** | **Available bend radii** | **2600AG** | **Glide wing** | **Floor guide**
---|---|---|---|---|---|---|---
2600.05 AG./R.0** | 50 | 66 | 075 | 100 | 125 | 150 | 175 | 200 | 250 | = 1.27 | **AG.2600.OF** | **AG.380.BF**
2600.07 AG./R.0 | 75 | 91 | 075 | 100 | 125 | 150 | 175 | 200 | 250 | = 1.42 | **AG.2600.OF** | **AG.380.BF**

**Notes:** We recommend the project planning of such a system to be carried out by Igus®. For travels between 5.0 and 10m we recommend an unsupported e-chain®.

- **R**: 075 100 125 150 175 200 250
- **H2**: 150 166 166 166 166 166 166
- **D2 (**)**: 150 350 475 500 655 770 950
- **K2**: 616 840 1,120 1,232 1,568 1,848 2,296

**Accessories**

- Optimised, cable-friendly interior separation
- Pivoting mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

**More information** ➤ [www.igus.eu/2600AG](http://www.igus.eu/2600AG)

---

**Version 02 | Series 2600AG**

**Crossbars openable along the inner radius, from both sides**

**Part No.** | **Bi** | **Ba** | **R** | **Available bend radii** | **2600AG** | **Glide wing** | **Floor guide**
---|---|---|---|---|---|---|---
2600.05 AG./R.0** | 50 | 66 | 075 | 100 | 125 | 150 | 175 | 200 | 250 | = 1.27 | **AG.2600.OF** | **AG.380.BF**
2600.07 AG./R.0 | 75 | 91 | 075 | 100 | 125 | 150 | 175 | 200 | 250 | = 1.42 | **AG.2600.OF** | **AG.380.BF**

**Notes:** We recommend the project planning of such a system to be carried out by Igus®. For travels between 5.0 and 10m we recommend an unsupported e-chain®.

- **R**: 075 100 125 150 175 200 250
- **H2**: 150 166 166 166 166 166 166
- **D2 (**)**: 150 350 475 500 655 770 950
- **K2**: 616 840 1,120 1,232 1,568 1,848 2,296

**Accessories**

- Optimised, cable-friendly interior separation
- Pivoting mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

**More information** ➤ [www.igus.eu/autoglide](http://www.igus.eu/autoglide)

---

**Version 02 | Series 2600AG**

**Installation dimensions**

**autoglide principle**
Offset operation of upper and lower run, offering a consistent glide surface

**Gliding applications | Long travels up to max. 60m | Fill weight 2.5kg/m**

**Notes:**

- Optimised, cable-friendly interior separation
- Pivoting mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

**More information** ➤ [www.igus.eu/autoglide](http://www.igus.eu/autoglide)
Version 02 | Series 3400AG | Product range

Crossbars with moulded autoglide grooves

3400AG | Crossbars openable along the inner radius, from both sides

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>R</th>
<th>Available bend radii</th>
<th>3400AG</th>
<th>Glide wing*</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400.075AG.R.0**</td>
<td>75</td>
<td>95</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>200</td>
<td>250</td>
</tr>
<tr>
<td>3400.100AG.R.0**</td>
<td>100</td>
<td>120</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>200</td>
<td>250</td>
</tr>
</tbody>
</table>

*Width and more widths upon request, please consult igus® for delivery time. Please consult igus® for delivery time. *Part No. of individual part

Complete Part No. with required radius (R). Example: 3400.100AG.100.0

---

**E2000 rol e-chain® - energy-efficient and cost-effective**

- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Travels up to 150m, max. rolling speed up to 4m/s
- Available as cost-effective ready-to-fit harnessed system with many accessories

More information ➤ From page 1160

---

**Note:** We recommend the project planning of such a system to be carried out by igus®.

For travels between 6.0 and 10m we recommend an unsupported e-chain®.

---

**Accessories | More information ➤ www.igus.eu/3400AG**

- Optimised, cable-friendly interior separation
- Pivoting mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

---

**Version 02 | Series 3400AG | Installation dimensions**

**Autoglide principle**

Offset operation of upper and lower run, offering a consistent glide surface

**Autoglide principle**

Offset operation of upper and lower run, offering a consistent glide surface

**Glide applications | Long travels up to max. 70m | Fill weight* 5.0 - 8.0 kg/m**

*depends on radii

**Notes:** We recommend the project planning of such a system to be carried out by igus®.

For travels between 6.0 and 10m we recommend an unsupported e-chain®.

<table>
<thead>
<tr>
<th>R</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2</td>
<td>200</td>
<td>186</td>
<td>186</td>
<td>186</td>
<td>186</td>
<td>186</td>
</tr>
<tr>
<td>D2</td>
<td>233</td>
<td>475</td>
<td>570</td>
<td>780</td>
<td>1,010</td>
<td>1,150</td>
</tr>
<tr>
<td>K3</td>
<td>871</td>
<td>1,139</td>
<td>1,407</td>
<td>1,876</td>
<td>2,412</td>
<td>2,747</td>
</tr>
</tbody>
</table>

---

**.inner height [mm] 45**

**Pitch [mm/link] 67**

**Links/m 15**

**corresponds to [mm] 1,005**

**e-chain® length L = \frac{S}{2} + K**

---

**www.igus.eu/autoglide**

---

**www.igus.eu/3400AG**

---

1188 More information ➤ www.igus.eu/3400AG

---

1189 3D CAD, configurators, service life calculation and more ➤ www.igus.eu/autoglide
**easy chain® openable along the outer radius, fitted with moulded autoglide grooves along the inner radius - autoglide Version 03**

Version 03 is the quickly filled and cost-effective easy chain® e-chain® with moulded autoglide combs along the inner radius. The combs, similar to tie-wrap plates, are moulded directly into the e-chain® link and are available in two sizes. The primary reason to choose easy chains® is to save time when fitting cables. The material, igumid NB, presents more application opportunities due to its elasticity, UL94-V2 classification and excellent suitability for cleanrooms. The one-piece design keeps the easy chain® very cost-effective.

- Doubly cost-effective. Elimination of guide troughs and cost-effective, one-piece e-chain®
- Very quick assembly time - even for long travels
- "easy" design: easy to fill - cables and hoses can be inserted without opening
- Single part design
- Small width, quiet operation
- UL94-V2 classification

**Typical industries and applications**
- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

---

**Order example | Order key**

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

- e-chain® (1.0m) Please indicate e-chain® length or number of links: 1.0m or 40 links
- + Mounting brackets 1 set (with tie-wrap plates)

**Order text:**

Simply press in the cables in the e-chain® by hand - and it’s ready! For removal just pull out the cables from the e-chain®
**Series EA16 | “easy” design - split crossbar along the outer radius**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>Availability bend radii</th>
<th>EA16</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA16.4 .R.0,</td>
<td>48</td>
<td>60</td>
<td>065</td>
<td>075</td>
</tr>
</tbody>
</table>

*Note: More widths upon request. Please consult igus® for delivery time.*

**Mounting brackets: full set incl. tiewrap plates Part No. 117.4.12P, full set without tiewrap plates Part No. 117.4.12P*

**Complete Part No. with required radius (R). Example: EA16.4.100.0**

**Installation dimensions**

- **Inner height (mm):** 32
- **Pitch (mm/link):** 30.5
- **Links/m: 33**
- **Corresponds to:** 1,066.5 e-chain® length $L_c = \frac{1}{2}R + K$

**Gliding applications**

- **Long travels up to max. 20m**
- **Fill weight 0.4kg/m**

**Note:** We recommend the project planning of such a system to be carried out by igus®.

**Series EA25 | “easy” design - split crossbar along the outer radius**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi</th>
<th>Ba</th>
<th>Availability bend radii</th>
<th>EA25</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA25.050.R.0</td>
<td>50</td>
<td>60</td>
<td>075</td>
<td>100</td>
</tr>
</tbody>
</table>

*Note: More widths upon request. Please consult igus® for delivery time.*

**Mounting brackets: full set incl. tiewrap plates Part No.EA25.050.12PZB, full set without tiewrap plates Part No. EA25.050.12PZ**

**Complete Part No. with required radius (R). Example: EA25.050.100.0**

**Installation dimensions**

- **Inner height (mm):** 25.2
- **Pitch (mm/link):** 25
- **Links/m:** 40
- **Corresponds to:** 1,000 e-chain® length $L_c = \frac{1}{2}R + K$

**Gliding applications**

- **Long travels up to max. 20m**
- **Fill weight 0.4kg/m**

**Note:** We recommend the project planning of such a system to be carried out by igus®.
Special glide shoes provide a safe guiding for the E2/000 - autoglide version 04

In this version, special plastic glide shoes are fitted to the sides of the e-chain® links every 1-2m. The function of these gliding shoes resembles the leeboards used on sail boats. The glide shoes pivot upwards to enable the constant travel. They provide the precise lateral guidance and a smooth gliding of the e-chain®. The glide shoes are assembled every 24th e-chain® link from the moving end. Up to 10m length without floor guides is possible in the series 2400/2450/2480/2500.

- Reliable and precise guidance due to special plastic glide shoes
- Long travels with easier filling
- Provides precise lateral guidance and a smooth gliding of the e-chain®
- Easy to install - openable along the outer radius

Typical industries and applications
- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

More information
www.igus.eu/autoglide
### Special glide shoes provide secure guidance

![Picture shows 2500](image)

**e-chains®**
- **Series 2400**: Openable along the inner radius
- **Series 2500**: Openable along outer radius
- **Half e-tubes**: Openable along the inner radius, closed along outer radius
- **Full e-tubes**: Openable along the inner radius, fully enclosed

### Product range

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi [mm]</th>
<th>Ba [mm]</th>
<th>Available bend radii</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400/2500/2450/2480.05</td>
<td>57</td>
<td>73</td>
<td>055*, 075, 100, 125, 150, 175, 200, 225, 250</td>
<td>AG.380.BF</td>
</tr>
<tr>
<td>2400/2500/2450/2480.07</td>
<td>77</td>
<td>93</td>
<td>055*, 075, 100, 125, 150, 175, 200, 225, 250</td>
<td>AG.380.BF</td>
</tr>
<tr>
<td>2400/2500/2450/2480.09</td>
<td>89</td>
<td>105</td>
<td>055*, 075, 100, 125, 150, 175, 200, 225, 250</td>
<td>AG.380.BF</td>
</tr>
<tr>
<td>2400/2500/2450/2480.10</td>
<td>103</td>
<td>119</td>
<td>055*, 075, 100, 125, 150, 175, 200, 225, 250</td>
<td>AG.380.BF</td>
</tr>
<tr>
<td>2400/2500/2450/2480.12</td>
<td>125</td>
<td>141</td>
<td>055*, 075, 100, 125, 150, 175, 200, 225, 250</td>
<td>AG.380.BF</td>
</tr>
</tbody>
</table>

*Radius for series 2450/2480 available upon request. Please consult igus® for delivery time.

**Accessories**

- **Optimised, cable-friendly interior separation**
- **Pivoting mounting brackets - recommended for gliding applications**
- **KMA mounting bracket with attachment from any side**

### Installation dimensions

![Diagram](image)

**Gliding applications**
- Long travels up to max. 20m
- Fill weight 1.6kg/m

**Notes**
- We recommend the project planning of such a system to be carried out by igus®.
- In case of travels under 3.0m we recommend an unsupported e-chain®.

**Accessories**

<table>
<thead>
<tr>
<th>2400</th>
<th>2450</th>
<th>2480</th>
<th>2500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong></td>
<td>2,000mm</td>
<td>2,000mm</td>
<td>2,000mm</td>
</tr>
<tr>
<td><strong>K</strong></td>
<td>1,012</td>
<td>1,012</td>
<td>1,012</td>
</tr>
<tr>
<td><strong>L</strong></td>
<td>≤23 mm</td>
<td>≤23 mm</td>
<td>≤23 mm</td>
</tr>
</tbody>
</table>

**Version 04 | 2400-2450-2480-2500 | Product range**

**Version 04 | 2400-2450-2480-2500 | Installation dimensions**

**More information**
- www.igus.eu/autoglide
- 3D CAD, configurators, service life calculation and more

---

**E2/2000 rol e-chain® - energy-efficient and cost-effective**
- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Travels up to 150m, max. rolling speed up to 4m/s
- Available as cost-effective ready-to-fit harnessed system with many accessories

From page 1160

---

**More information**
- www.igus.eu/autoglide

---

**KMA mounting bracket with attachment from any side**

---

**3D CAD, configurators, service life calculation and more**
- www.igus.eu/autoglide
Special glide shoes provide secure guidance

**e-chains®**

<table>
<thead>
<tr>
<th>Series 2600</th>
<th>Series 2700</th>
<th>Half e-tubes</th>
<th>Series 2650</th>
<th>Full e-tubes</th>
<th>Series 2680</th>
</tr>
</thead>
<tbody>
<tr>
<td>Openable along the inner radius</td>
<td>Openable along outer radius</td>
<td>Openable along the inner radius, closed along outer radius</td>
<td>Openable along the inner radius, fully enclosed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part No.**

<table>
<thead>
<tr>
<th>e-chains® / e-tubes</th>
<th>Bi</th>
<th>Ba</th>
<th>Available bend radii</th>
<th>Floor guide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2600/2650/2680.05</td>
<td>R0.AG</td>
<td>50</td>
<td>66</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.06</td>
<td>R0.AG</td>
<td>65</td>
<td>81</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.07</td>
<td>R0.AG</td>
<td>75</td>
<td>91</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.09</td>
<td>R0.AG</td>
<td>90</td>
<td>106</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.10</td>
<td>R0.AG</td>
<td>100</td>
<td>116</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.12</td>
<td>R0.AG</td>
<td>125</td>
<td>141</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.15</td>
<td>R0.AG</td>
<td>150</td>
<td>166</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
<tr>
<td>2600/2650/2680.17</td>
<td>R0.AG</td>
<td>175</td>
<td>194</td>
<td>075* 100 125 150 175 200 250</td>
</tr>
</tbody>
</table>

*Radius for series 2650/2680 available upon request. Please consult igus® for delivery time. *Part No. of individual part

Complete Part No. with required radius (R). Example: 2600.05.100.0.AG

**E2/000 rol e-chain® - energy-efficient and cost-effective**

- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Travels up to 150m, max. rolling speed up to 4m/s
- Available as cost-effective ready-to-fit harnessed system with many accessories

More information ➤ From page 1160

**Accessories | More information ➤ www.igus.eu/autoglide**

- Optimised, cable-friendly interior separation
- Pivoting mounting brackets - recommended for gliding applications
- KMA mounting bracket with attachment from any side

**Gliding applications | Long travels up to max. 30m | Fill weight 2.0kg/m**

The lateral glide wings are assembled on every 24th e-chain® link.

**Note:** We recommend the project planning of such a system to be carried out by igus®.

In case of travels under 3.0m we recommend an unsupported e-chain®.

**R**

- 075* 100 125 150 175 200 250

**H₂**

- 150 166 166 166 166 166 166

**D₂**

- 150 350 475 500 655 770 950

**K₃**

- 616 840 1,120 1,232 1,568 1,848 2,296

≤32 mm

35

50

Pitch [mm/link] 56

Links/m 18

corresponds to [mm] 1,008

e-chain® length $L_e = \frac{S}{2} + K$

**3D CAD, configurators, service life calculation and more ➤ www.igus.eu/autoglide**

**Version 04 | 2600-2650-2680-2700 | Product range**

**Version 04 | 2600-2650-2680-2700 | Installation dimensions**

**Picture shows 2700**

**More information**

From page 1160