

Price index



Side-mounted - unsupported

ESD classification:
Electrically conductive ESD/ATEX version upon request

High torsional rigidity



Opening E-Chains®: Remove crossbars and clips - Insert screwdriver into the slot, push down, release by lever action



Remove lids/bottoms (E-Tubes) - Insert screwdriver into the slot, release by lever action



When to use the Series 4040/4140/R8840:

- When high torsional forces are expected
- For side-mounted applications involving large unsupported lengths
- For long-term operation in very moist environments
- Also available as Rol E-Chain®



When not to use it:

- If a quieter version is required
▶ Series E4.56, page 7.62
- If a simple and low-cost solution is required
▶ Series 14040/R18840, page 7.124
- When very long travels or high additional loads are involved
▶ Series 4040HD, page 7.260

- 1 High side-mount stability due to undercut
 - 2 High torsional rigidity
 - 3 Closed and open styles can be combined
 - 4 Hinged snap-open removable lids of E-Tube
 - 5 Numerous interior separation possibilities
 - 6 Crossbars on E-Chains® are removable along both radii
 - 7 Lateral glide surfaces for side-mounted operation
 - 8 Wide, rounded plastic crossbars - cable friendly
 - 9 KMA mounting brackets with attachment points on all sides
 - 10 Mounting brackets with integrated strain relief available, locking or pivoting
 - 11 E-Chains® also available with reverse bending radius "RBR"
- ! "Heavy-Duty" size available. Greater unsupported length for higher loads and travels. Also available as Rol E-Chain® version



Rol E-Chain® Series 4040R/8840R available upon request



Order example complete E-Chain®

Please indicate chain-lengths or number of links Example: 5 m or 55 links

5 m 4040.30.300.0

E-Chain®

with 2 separators 411 assembled every 2nd link

Interior separation

1 set 40400.30.12C

Mounting bracket

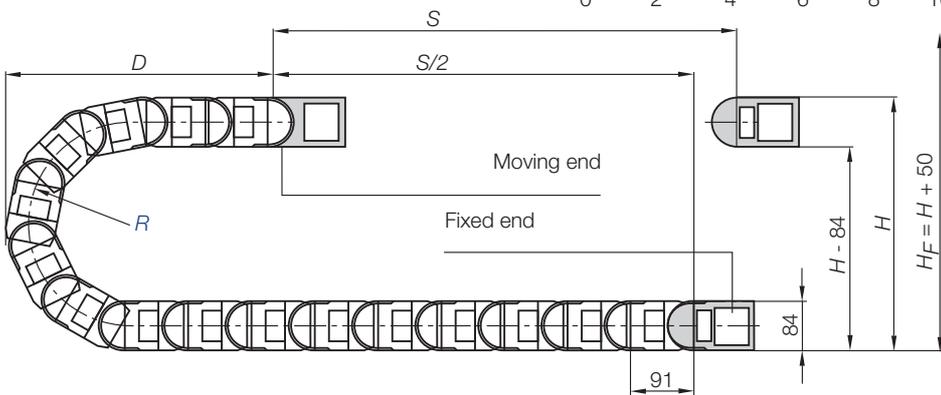
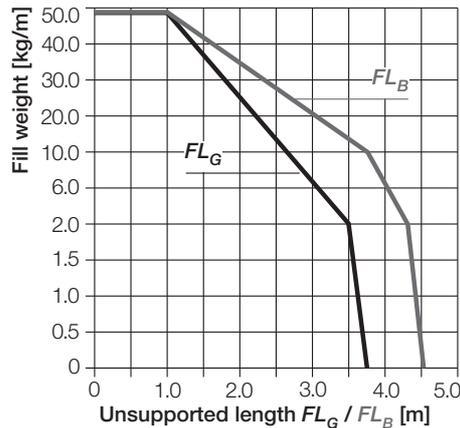
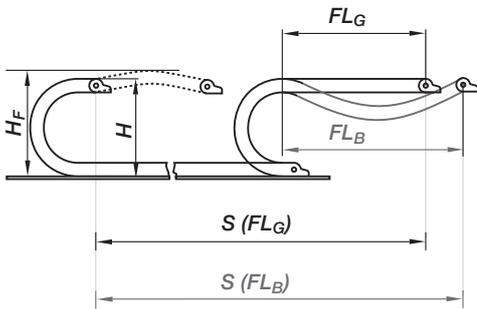


Unsupported length

FL_G = with straight upper run

FL_B = with permitted sag

Further information ► **Design, page 1.12**



Pitch = 91 mm/link Links/m = 11 (1001 mm) Chain length = $S/2 + K$

| R | 135 | 150 | 175 | 200 | 240 | 250 | 300 | 350 | 400 | 500 |
|----------------|-----|-----|------|------|------|------|------|------|------|------|
| H_{-0}^{+25} | 360 | 385 | 435 | 485 | 565 | 585 | 685 | 785 | 885 | 1085 |
| D | 270 | 285 | 310 | 335 | 375 | 385 | 435 | 485 | 535 | 635 |
| K | 650 | 750 | 825 | 900 | 1020 | 1050 | 1225 | 1340 | 1450 | 1775 |
| H ₂ | 360 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 |
| D_2^{+25} | 270 | 480 | 600 | 730 | 930 | 940 | 1180 | 1440 | 1530 | 1850 |
| K ₂ | 650 | 819 | 1092 | 1274 | 1547 | 1547 | 2002 | 2366 | 2548 | 3185 |

- S = Length of travel
 - R = Bending radius
 - H = Nominal clearance height
 - H_F = Required clearance height
 - H_{RI} = Trough inner height
 - D = Overlength E-Chain*
radius in final position
 - K = $\pi \cdot R$ + "safety"
 - D₂ = Over length - long travels, gliding
 - K₂ = *Further add-on
 - H₂ = *Mounting height
- *if the mounting bracket location is set lower

Other installation methods

- Vertical, hanging ≤ 100 m
- Vertical, standing ≤ 6 m
- Side mounted, un supp. ≤ 3 m
- Rotary requires further calculation
- Unsupported length of upper run = upon request

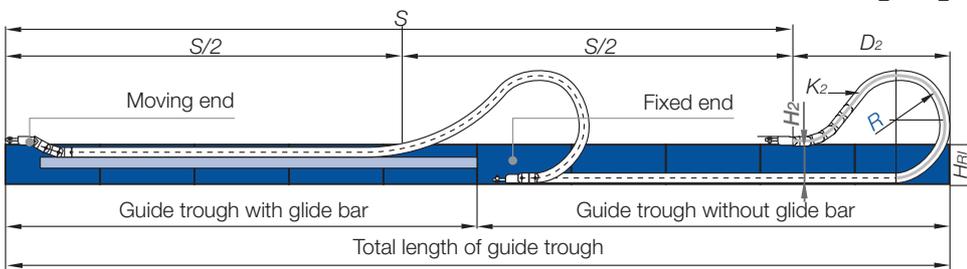


Short travels - unsupported

Unsupported E-Chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F. Please consult igus® if space is particularly restricted.

The required clearance height:
H_F = H + 50 mm
(with 3,0 kg/m fill weight)

Long travel lengths from 10 m to max. 300 m Chain length = $S/2 + K_2$



In case of travels between 4 and 10 m we recommend a longer unsupported length.



Gliding, long travel applications (max. 300 m)

In this case the E-Chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians.

Technical Data

| | |
|--|--|
| Speed / acceleration FL_G | max. 20 [m/s] / max. 200 [m/s ²] |
| Speed / acceleration FL_B | max. 3 [m/s] / max. 6 [m/s ²] |
| Gliding speed / acceleration (maximum) | max. 10 [m/s] / max. 50 [m/s ²] |
| Material - permitted temperature °C | igumid G / -40° up to +120° C |
| Flammability class, igumid G | VDE 0304 IIC UL94 HB |



Details of material properties
► **page 1.38**



For support of the lower run - **Support Tray tool kit** available ► **page 9.70**

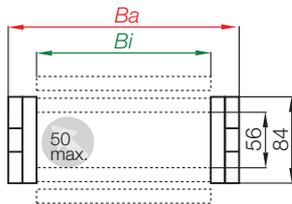


System E4/4
Inner height: 56 mm

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► **page 7.223**

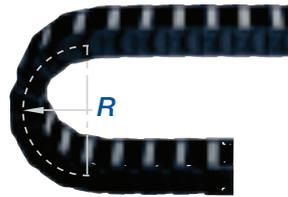


Part No. structure

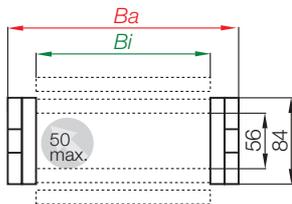
4040. 30. 250. 0



Series 4040- E-Chain® with crossbars every link



- Crossbars every link
- For rigid hydraulic hoses
- For applications particularly demanding
- Can be opened from two sides

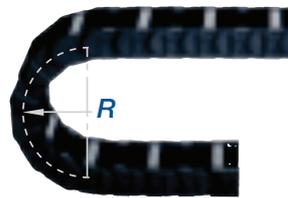


Part No. structure

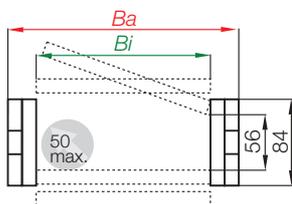
4140. 30. 250. 0



Series 4140 - E-Chain® with crossbars every 2nd link



- Crossbars every 2nd link = Standard
- For nearly every situation
- Can be opened from two sides
- Easy assembly
- Stable
- Attractive price

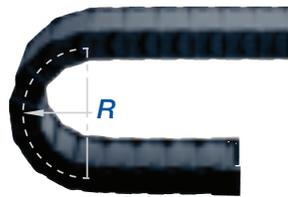


Part No. structure

8840. 30. 250. 0



Series R8840 - Fully enclosed E-Tube



- Fully enclosed
- Excellent cable protection against dirt
- Protection against hot chips (up to 900°C)
- Lids along the entire inner radius are completely removable. Lids along the entire outer radius are single sided snap-open with a hinge on the other side to keep them attached to the chain or completely removable.



Rol instead of gliding: Rol E-Chain®

Special solution for long travels. 75% less drive power (gliding application) with igus® Rol E-Chain®.
Series 4040R - Order example 4040R.30.250.0
Further information: www.igus.de/en/role
or phone: +49-0 22 03-96 49-800



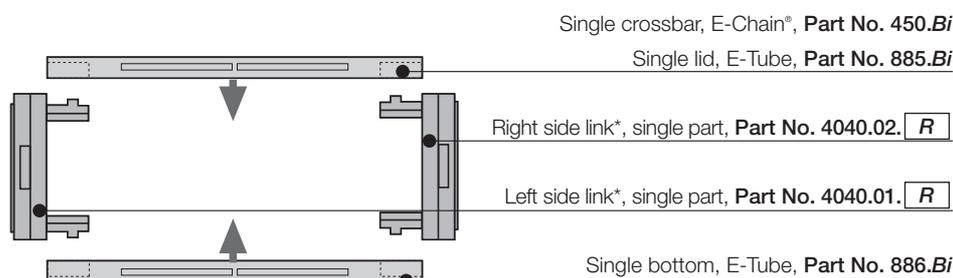
| Part No. | | <i>Bi</i> [mm] | <i>Ba</i> [mm] | 4040 [kg/m] | 4140 [kg/m] | R8840 [kg/m] |
|-------------------------|------------------------------|-------------------|-------------------|----------------|----------------|-----------------|
| 4040/4140.05. | <input type="checkbox"/> .0 | 50 | 86 | ≈ 3,65 | ≈ 3,58 | - |
| 4040/4140.06. | <input type="checkbox"/> .0 | 65 | 101 | ≈ 3,67 | ≈ 3,60 | - |
| 4040/4140/8840.07. | <input type="checkbox"/> .0* | 75 | 111 | ≈ 3,78 | ≈ 3,70 | ≈ 4,24 |
| 4040/4140.08. | <input type="checkbox"/> .0 | 87 | 123 | ≈ 3,83 | ≈ 3,75 | - |
| 4040/4140/8840.10. | <input type="checkbox"/> .0 | 100 | 136 | ≈ 3,96 | ≈ 3,78 | ≈ 4,52 |
| 4040/4140.11. | <input type="checkbox"/> .0 | 112 | 149 | ≈ 4,09 | ≈ 3,85 | - |
| 4040/4140/8840.12. | <input type="checkbox"/> .0 | 125 | 161 | ≈ 4,16 | ≈ 3,88 | ≈ 4,88 |
| 4040/4140.13. | <input type="checkbox"/> .0 | 137 | 174 | ≈ 4,29 | ≈ 3,95 | - |
| 4040/4140/8840.15. | <input type="checkbox"/> .0 | 150 | 186 | ≈ 4,36 | ≈ 3,98 | ≈ 5,31 |
| 4040/4140.16. | <input type="checkbox"/> .0 | 162 | 199 | ≈ 4,47 | ≈ 4,04 | - |
| 4040/4140.17. | <input type="checkbox"/> .0 | 175 | 211 | ≈ 4,58 | ≈ 4,09 | - |
| 4040/4140.18. | <input type="checkbox"/> .0 | 187 | 224 | ≈ 4,69 | ≈ 4,15 | - |
| 4040/4140/8840.20. | <input type="checkbox"/> .0 | 200 | 236 | ≈ 4,71 | ≈ 4,16 | ≈ 5,89 |
| 4040/4140.21. | <input type="checkbox"/> .0 | 212 | 249 | ≈ 4,82 | ≈ 4,21 | - |
| 4040/4140.22. | <input type="checkbox"/> .0 | 225 | 261 | ≈ 4,88 | ≈ 4,25 | - |
| 4040/4140.23. | <input type="checkbox"/> .0 | 237 | 274 | ≈ 5,02 | ≈ 4,31 | - |
| 4040/4140/8840.25. | <input type="checkbox"/> .0 | 250 | 286 | ≈ 5,10 | ≈ 4,36 | ≈ 6,61 |
| 4040/4140.26. | <input type="checkbox"/> .0 | 262 | 299 | ≈ 5,19 | ≈ 4,40 | - |
| 4040/4140/8840.27. | <input type="checkbox"/> .0 | 275 | 311 | ≈ 5,30 | ≈ 4,46 | ≈ 6,89 |
| 4040/4140.28. | <input type="checkbox"/> .0 | 287 | 324 | ≈ 5,32 | ≈ 4,47 | - |
| 4040/4140/8840.30. | <input type="checkbox"/> .0 | 300 | 336 | ≈ 5,54 | ≈ 4,58 | ≈ 7,27 |
| 4040/4140.31. | <input type="checkbox"/> .0 | 312 | 349 | ≈ 5,58 | ≈ 4,60 | - |
| 4040/4140.32. | <input type="checkbox"/> .0 | 325 | 361 | ≈ 5,63 | ≈ 4,62 | - |
| 4040/4140.33. | <input type="checkbox"/> .0 | 337 | 374 | ≈ 5,81 | ≈ 4,71 | - |
| 4040/4140/8840.35. | <input type="checkbox"/> .0 | 350 | 386 | ≈ 5,96 | ≈ 4,79 | ≈ 8,02 |
| 4040/4140.36. | <input type="checkbox"/> .0 | 362 | 399 | ≈ 5,96 | ≈ 4,79 | - |
| 4040/4140.37. | <input type="checkbox"/> .0 | 375 | 411 | ≈ 5,98 | ≈ 4,80 | - |
| 4040/4140.38. | <input type="checkbox"/> .0 | 387 | 424 | ≈ 6,07 | ≈ 4,84 | - |
| 4040/4140/8840.40. | <input type="checkbox"/> .0 | 400 | 436 | ≈ 6,27 | ≈ 4,94 | ≈ 8,98 |
| 4040/4140.41. | <input type="checkbox"/> .0 | 412 | 449 | ≈ 6,42 | ≈ 5,02 | - |
| 4040/4140.42. | <input type="checkbox"/> .0 | 425 | 461 | ≈ 6,58 | ≈ 5,09 | - |
| 4040/4140.43. | <input type="checkbox"/> .0 | 437 | 474 | ≈ 6,64 | ≈ 5,13 | - |
| 4040/4140.45. | <input type="checkbox"/> .0 | 450 | 486 | ≈ 6,71 | ≈ 5,16 | - |
| 4040/4140/8840.46. | <input type="checkbox"/> .0 | 462 | 499 | ≈ 6,73 | ≈ 5,19 | ≈ 9,44 |
| 4040/4140.47. | <input type="checkbox"/> .0 | 475 | 511 | ≈ 6,86 | ≈ 5,24 | - |
| 4040/4140.48. | <input type="checkbox"/> .0 | 487 | 524 | ≈ 6,88 | ≈ 5,28 | - |
| 4040/4140.50. | <input type="checkbox"/> .0 | 500 | 536 | ≈ 7,00 | ≈ 5,30 | - |
| 4040/4140.51. | <input type="checkbox"/> .0 | 512 | 549 | ≈ 7,02 | ≈ 5,31 | - |
| 4040/4140.52. | <input type="checkbox"/> .0 | 525 | 561 | ≈ 7,06 | ≈ 5,34 | - |
| 4040/4140.53. | <input type="checkbox"/> .0 | 537 | 574 | ≈ 7,22 | ≈ 5,41 | - |
| 4040/4140.55. | <input type="checkbox"/> .0 | 550 | 586 | ≈ 7,70 | ≈ 5,65 | - |
| 4040/4140.60. | <input type="checkbox"/> .0 | 600 | 636 | ≈ 7,90 | ≈ 5,75 | - |

Available bending radii

R [mm] 135* 150 175 200 240 250 300 350 400 500

Supplement Part No. with required radius. Example: 4040.30. 300 .0

0 = standard color, other colors ▶ page 1.39 · Pitch = 91 mm/link - Links/m = 11



Hot Chips up to 850°C

E-Tubes that repel hot chips, up to 850°C. Some applications, depending on amount and size of the chips, can burn or melt the surface. That is no longer the case with the igus® "igumid HT" material. Order example:

Full E-Tube made of HT*:
8840.40.150.0.HT
 Lids made of HT:
8840.40.HTE.150.0

*for long travels upon request
 Further Information:
www.igus.de/en/HT
Delivery time
 up to 4 weeks!

Extreme Glider...

...with up to 70% larger glide surface. For high additional loads and high gliding speeds. Gliding applications without additional elements as well as 150% more wear allowance and improvement of service life by factor 4!

Order example:
4040.35G.250.0
4040.45G.250.0
 Further information:
 phone +49-0 22 03-96 49-800



* Removable lid only, no hinged option

** not available for R8840



Extender crossbar for large diameter hoses ▶ page 7.254

Part No. E-Chain® - links, single parts

*View from the fixed point of the E-Chain®/E-Tube

System E4/4
 Inner height: 56 mm

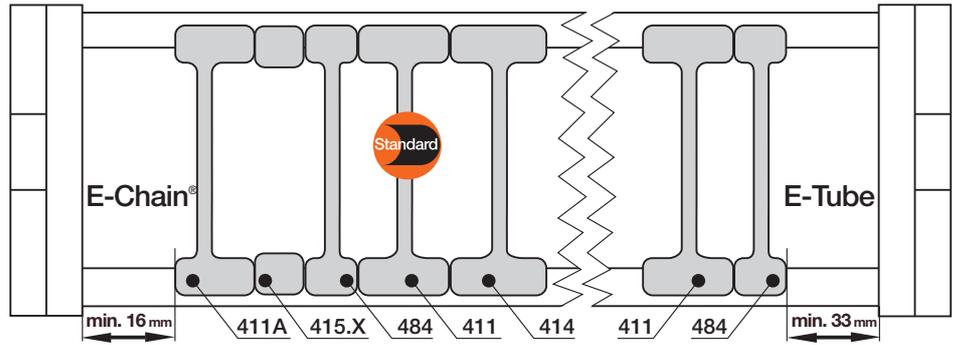
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▶ page 7.223



Vertical separators are used if a vertical subdivision is required. In the standard configuration, a separator is mounted at every second link. **Note:** Observe a lateral spacing of at least 33 mm (E-Tube) and 16 mm (E-Chain)!



Vertical separator 401



Vertical separator 483



Spacer 405.XX



Locking separator 404

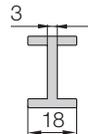


Vertical separator 406

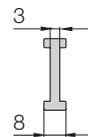


Asymmetric separator 401A

| | |
|--|-----|
| Vertical separator for E-Chains®/E-Tubes | |
| unassembled | 401 |
| assembled | 411 |



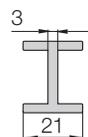
| | |
|--|-----|
| Vertical separator for E-Chains®/E-Tubes | |
| unassembled | 483 |
| assembled | 484 |



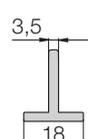
| | |
|-----------------------|--------|
| Spacer* for E-Chains® | |
| unassembled | 405.XX |
| assembled | 415.XX |



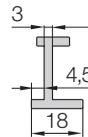
| | |
|---------------------------------|-----|
| Locking separator for E-Chains® | |
| unassembled | 404 |
| assembled | 414 |



| | |
|--------------------------------|-----|
| Vertical separator for E-Tubes | |
| unassembled | 406 |
| assembled | 416 |



| | |
|------------------------------------|------|
| Asymmetric separator for E-Chains® | |
| unassembled | 401A |
| assembled | 411A |



*For side-mounted applications

Option 1: Vertical separators and spacers

● **Standard separator 401 for E-Chains®/E-Tubes** offers safe stability due to its broad foot design, also when used with thick cables or hoses.

● **Vertical separator 483 with a narrow foot for E-Chains® and E-Tubes** with applications where a large number of small cables need to be individually separated.

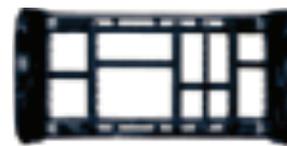
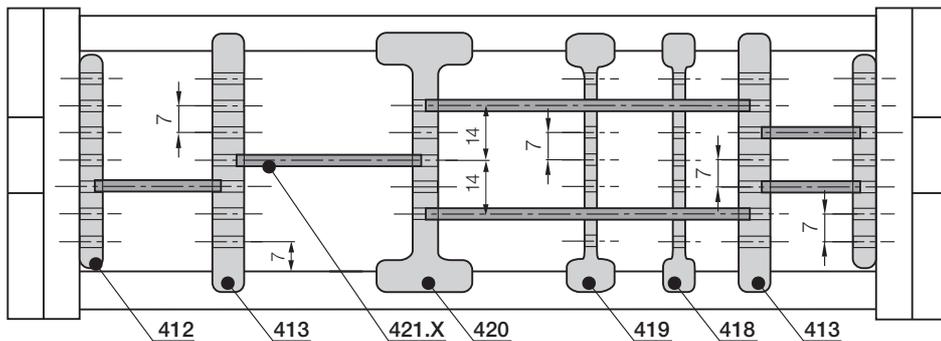
● Separators (e.g. "side mounted") for E-Chains® can be fixed in their position with **Spacers 405.XX**. The available inner height will be reduced by 2 mm, per spacer and side. To avoid this, the parts can be assembled on outside of the crossbar (not for long travels) **XX = width of the spacer** (available 10, 15, 20, 30 and 40 mm)

Additionally:

● **Locking separator for E-Chains® 404** - with increased retention force for applications exposed to very high humidity or extreme loads. The extra retention force is achieved by asymmetric claws for the crossbar. Ensure proper alignment

● **Locking separator 406 for E4-Tubes** - safe fitting locked on lid or bottom of the Tube and sideways slideable. The opposing lid or bottom can easily be opened and closed. Especially capable if many separators need to be assembled on a tight inner width

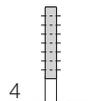
● **Asymmetric separator 401A for E-Chains®** with an 18-mm base, for combinations between spacers of different widths and vertical separators in side-mounted applications, for instance.



For use with many cables of differing diameters. E-Chains® and E-Tubes can be subdivided both vertically and horizontally. The shelves can be arranged elevator-shifted with different bottoms

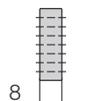
Option 2: Shelves

● Side plates 402, middle plates 403 and shelves 420.X form the basic pattern of a shelf system. Shelves of various widths can be arranged at 7 different heights (in 7 mm increments).



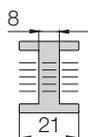
| Side plate for E-Chains®/E-Tubes | |
|----------------------------------|-----|
| unassembled | 402 |
| assembled | 412 |

● Locking vertical separator 410, slotted combined with shelves (only for E-Chains®).



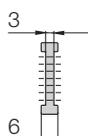
| Middle plate for E-Chains®/E-Tubes | |
|------------------------------------|-----|
| unassembled | 403 |
| assembled | 413 |

● Slotted separators 408 are used for very fine subdivisions. However, they cannot be retrofitted into an existing separation system without dismantling the interior separators first.

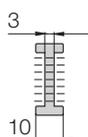


| Locking vertical separator for E-Chains® | |
|--|-----|
| unassembled | 410 |
| assembled | 420 |

● The unilateral open slotted separator 409 can be retrofitted into an existing interior separation system without a need for dismantling the interior separators. During an installation of open slotted separators, the top and bottom notches cannot be occupied by shelves.



| Slotted separator for E-Chains®/E-Tubes | |
|---|-----|
| unassembled | 408 |
| assembled | 418 |



| Open slotted separator for E-Chains®/E-Tubes | |
|--|-----|
| unassembled | 409 |
| assembled | 419 |



Side plate 402



Middle plate 403



Locking vertical separator 410



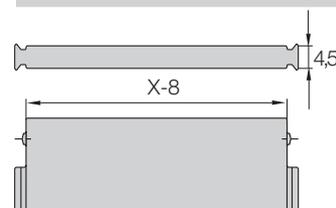
Slotted separator 408



Open slotted separator 409



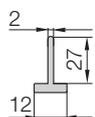
Shelf 420.X



| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 018 | 420.18 | 421.18 |
| 023 | 420.23 | 421.23 |
| 025 | 420.25 | 421.25 |
| 028 | 420.28 | 421.28 |
| 033 | 420.33 | 421.33 |
| 043 | 420.43 | 421.43 |
| 050 | 420.50 | 421.50 |
| 062 | 420.62 | 421.62 |

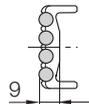
| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 075 | 420.75 | 421.75 |
| 088 | 420.88 | 421.88 |
| 100 | 420.100 | 421.100 |
| 125 | 420.125 | 421.125 |
| 150 | 420.150 | 421.150 |
| 175 | 420.175 | 421.175 |
| 187 | 420.187 | 421.187 |
| 200 | 420.200 | 421.200 |

Additional elements for interior separation



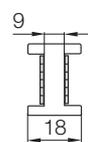
| Center crossbar | |
|-----------------|-----|
| unassembled | 405 |
| assembled | 415 |

Center crossbar - was developed for applications with a large number of thin cables. The center crossbar offers the option of subdividing the E-Chain® independently into upper and lower halves.



| Rollclip | |
|-------------|--------|
| unassembled | 489.27 |
| assembled | 490.27 |

Rollclip - minimizes abrasion of particularly sensitive hoses. The Rollclip is simply clamped onto the opening crossbar. The movable rollers compensate for relative movement between the chain and hose.



| Roller separator | |
|------------------|-----|
| unassembled | 429 |
| assembled | 430 |

Roller separator - performs a similar function to the Rollclip, but doubles as a separator.

System E4/4
Inner height: 56 mm

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

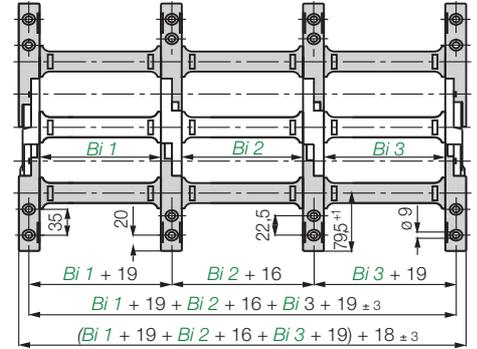
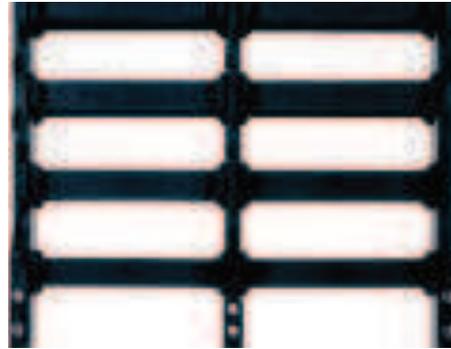




Part No. structure
4040.10 /20 /10. .0
4040.Bi1/Bi2/Bi3. .0

Extension links - for extremely wide E-Chains® up to 3,0 m

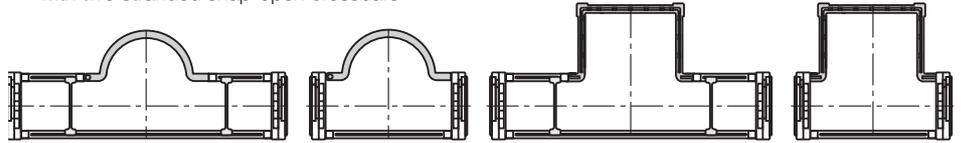
- For applications in which particularly high fill weights necessitate extremely wide E-Chains® (up to 3000 mm)
- The extension link design allows virtually limitless side-by-side attachment of chains
- The unsupported length of a chain can be increased when additional loads are required
- Extension links can be used with E-Chains®, E-Tubes or as a combination of both
- They are suitable for unsupported and gliding applications in a guide trough
- E-Chains® with extension links are attached with KMA or steel mounting brackets



Consult igus® for your extender crossbar applications. We are happy to assist you with your design layout

Extender crossbars - careful guide of hoses applications

- Suitable for hoses with a maximum outer diameter of 245 mm
- Gliding operation with crossbars assembled along the outer radius and a special guide trough
- Gliding operation not guaranteed with crossbars assembled along the inner radius
- The extender crossbar can either be attached to the side links directly or can be used in combination with two stranded snap-open crossbars



Round extender crossbar with snap-open crossbars Attached directly to the side link Square extender crossbar with snap-open crossbars Attached directly to the side link

| Part No. | Max Ø [mm] hose | Form | Installation side link | Combination with snap-open crossb. |
|---------------|-----------------|------|------------------------|------------------------------------|
| 450.15.RHD115 | 115 | ○ | - | + |
| 450.17.RD115 | 115 | ○ | + | - |
| 450.25.D150 | 150 | □ | + | - |
| 450.30.D200 | 180 | □ | + | - |
| 450.35.D250 | 195 | □ | + | - |
| 450.40.D300 | 245 | □ | + | - |
| 450.20.HD150 | 150 | □ | - | + |
| 450.25.HD200 | 180 | □ | - | + |
| 450.30.HD250 | 195 | □ | - | + |

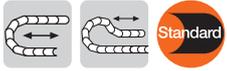
○ = round □ = square + = yes / - = no



E4 clip-on cable binder

- For side-mounted applications ● Serves as a clip-on, lateral guide for hoses and cables on E-Chains®
- The loops can be adjusted as required ● Compatible with many E4 E-Chains® ● Stylish and economical
- One clip and one locking band are needed for each chain link ● Call us if you have any questions on project planning

| Part No. | Form |
|-------------|--|
| 450.B12 | Locking clip, comprising a locking element |
| 450.B12.200 | Locking band, comprising a locking element and band; 12 x 1,5 x 200 mm |

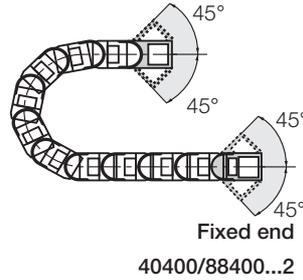


The Standard - Option KMA* - pivoting

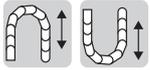
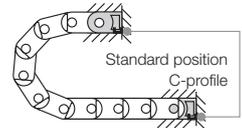
- Recommended for unsupported and gliding applications
- Confined installation conditions
- Option - integrated C-profile strain relief device with Chainfix clip or strain relief tiwrap plates
- Corrosion resistant
- Universal mountable with attachment capability on all sides

*KMA = Polymer Metal Mounting Bracket

Moving end
40400/88400...1



The attachment variants arising automatically by the choice of the KMA mounting bracket



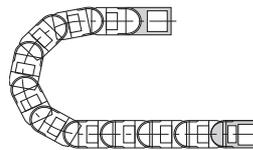
Option KMA - locking

- Recommended for vertical hanging / standing applications

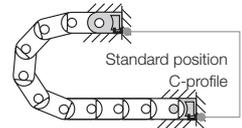
Additionally:

- Universal mountable
- C-profile option
- Corrosion resistant
- Locked connections
- At very high acceleration

Moving end
41400/89400...1

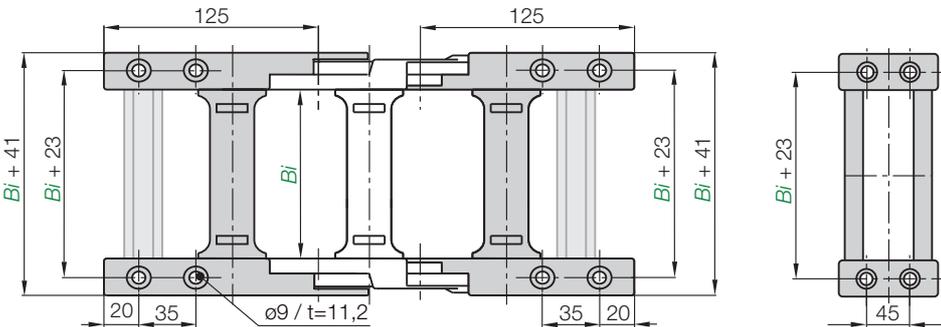


The attachment variants arising automatically by the choice of the KMA mounting bracket



Fixed end
40400/88400...2 (pivoting)
41400/89400...2 (locking)

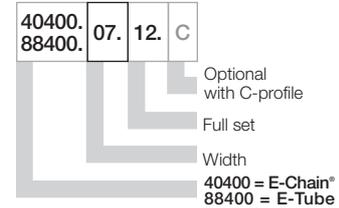
Moving end
(pivoting) 40400/88400...1
(locking) 41400/89400...1



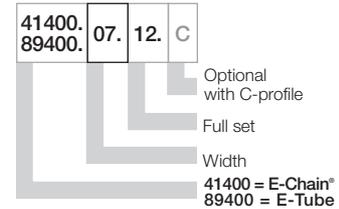
| Width index | Part No. full set pivoting | Part No. full set locking | C-profile option [mm] | Width index | Part No. full set pivoting | Part No. full set locking | C-profile option [mm] |
|-------------|----------------------------|---------------------------|-----------------------|-------------|----------------------------|---------------------------|-----------------------|
| .05. | 40400 | 41400 | .05.12. C 50 | .31. | 40400 | 41400 | .31.12. C 312 |
| .06. | 40400 | 41400 | .06.12. C 65 | .32. | 40400 | 41400 | .32.12. C 325 |
| .07. | 40400/88400 | 41400/89400 | .07.12. C 75 | .33. | 40400 | 41400 | .33.12. C 337 |
| .08. | 40400 | 41400 | .08.12. C 87 | .35. | 40400/88400 | 41400/89400 | .35.12. C 350 |
| .10. | 40400/88400 | 41400/89400 | .10.12. C 100 | .36. | 40400 | 41400 | .36.12. C 362 |
| .11. | 40400 | 41400 | .11.12. C 112 | .37. | 40400 | 41400 | .37.12. C 375 |
| .12. | 40400/88400 | 41400/89400 | .12.12. C 125 | .38. | 40400 | 41400 | .38.12. C 387 |
| .13. | 40400 | 41400 | .13.12. C 137 | .40. | 40400/88400 | 41400/89400 | .40.12. C 400 |
| .15. | 40400/88400 | 41400/89400 | .15.12. C 150 | .41. | 40400 | 41400 | .41.12. C 412 |
| .16. | 40400 | 41400 | .16.12. C 162 | .42. | 40400 | 41400 | .42.12. C 425 |
| .17. | 40400 | 41400 | .17.12. C 175 | .43. | 40400 | 41400 | .43.12. C 437 |
| .18. | 40400 | 41400 | .18.12. C 187 | .45. | 40400 | 41400 | .45.12. C 450 |
| .20. | 40400/88400 | 41400/89400 | .20.12. C 200 | .46. | 40400/88400 | 41400/89400 | .46.12. C 462 |
| .21. | 40400 | 41400 | .21.12. C 212 | .47. | 40400 | 41400 | .47.12. C 475 |
| .22. | 40400 | 41400 | .22.12. C 225 | .48. | 40400 | 41400 | .48.12. C 487 |
| .23. | 40400 | 41400 | .23.12. C 237 | .50. | 40400 | 41400 | .50.12. C 500 |
| .25. | 40400/88400 | 41400/89400 | .25.12. C 250 | .51. | 40400 | 41400 | .51.12. C 512 |
| .26. | 40400 | 41400 | .26.12. C 262 | .52. | 40400 | 41400 | .52.12. C 525 |
| .27. | 40400/88400 | 41400/89400 | .27.12. C 275 | .53. | 40400 | 41400 | .53.12. C 537 |
| .28. | 440400 | 41400 | .28.12. C 287 | .55. | 40400 | 41400 | .55.12. C 550 |
| .30. | 40400/88400 | 41400/89400 | .30.12. C 300 | .60. | 40400 | 41400 | .60.12. C 600 |

Dimensions and order configurations

Part No. structure (pivoting)



Part No. structure (locking)



Full set, for both ends:

40400.05.12

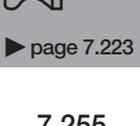
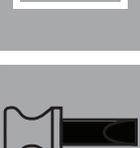
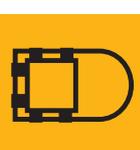
Single-part order:

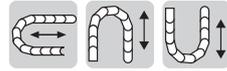
40400.05.1

Mounting bracket moving end

40400.05.2

Mounting bracket fixed end

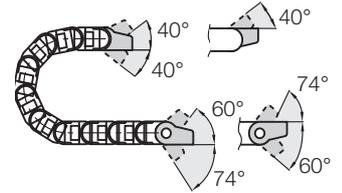




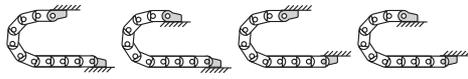
Option steel - pivoting

- For pivoting connections
- One part (two-piece) for all chain widths
- Electrically conductive

Moving end
40400.1



Fixed end
40400.2



Possible installation conditions -

Further installation angles ► installation sketch

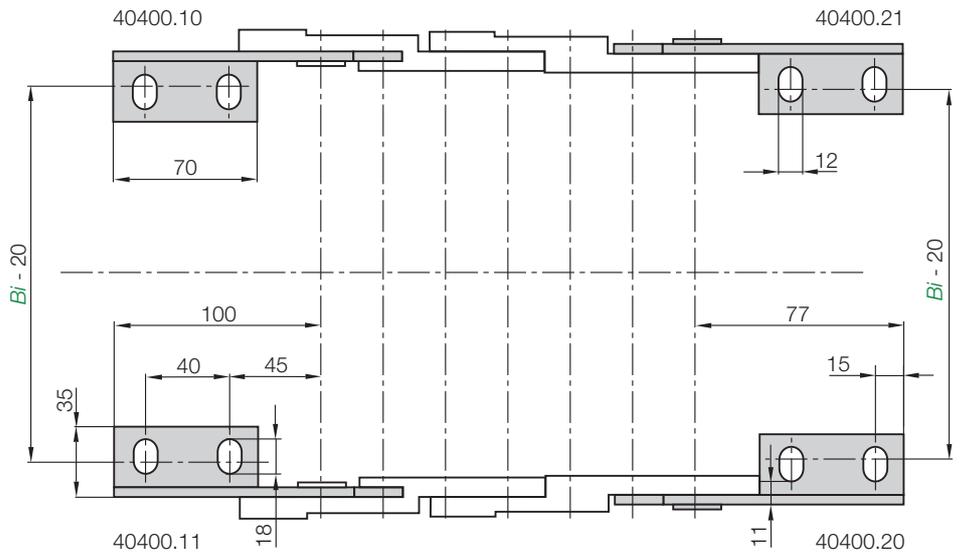
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E-mail: info@igus.de

Moving end
40400.1

Fixed end
40400.2



| For E-Chain® | Part No. full set | Bi [mm] | For E-Chain® | Part No. full set | Bi [mm] |
|-------------------|-------------------|---------|-------------------|-------------------|---------|
| 4040-4140.05 | 40400.12 | 50 | 4040-4140.31 | 40400.12 | 312 |
| 4040-4140.06 | 40400.12 | 65 | 4040-4140.32 | 40400.12 | 325 |
| 4040-4140-8840.07 | 40400.12 | 75 | 4040-4140.33 | 40400.12 | 337 |
| 4040-4140-8840.08 | 40400.12 | 87 | 4040-4140-8840.35 | 40400.12 | 350 |
| 4040-4140-8840.10 | 40400.12 | 100 | 4040-4140.36 | 40400.12 | 362 |
| 4040-4140.11 | 40400.12 | 112 | 4040-4140.37 | 40400.12 | 375 |
| 4040-4140-8840.12 | 40400.12 | 125 | 4040-4140.38 | 40400.12 | 387 |
| 4040-4140.13 | 40400.12 | 137 | 4040-4140-8840.40 | 40400.12 | 400 |
| 4040-4140-8840.15 | 40400.12 | 150 | 4040-4140.41 | 40400.12 | 412 |
| 4040-4140.16 | 40400.12 | 162 | 4040-4140.42 | 40400.12 | 425 |
| 4040-4140.17 | 40400.12 | 175 | 4040-4140.43 | 40400.12 | 437 |
| 4040-4140.18 | 40400.12 | 187 | 4040-4140.45 | 40400.12 | 450 |
| 4040-4140-8840.20 | 40400.12 | 200 | 4040-4140-8840.46 | 40400.12 | 462 |
| 4040-4140.21 | 40400.12 | 212 | 4040-4140.47 | 40400.12 | 475 |
| 4040-4140.22 | 40400.12 | 225 | 4040-4140.48 | 40400.12 | 487 |
| 4040-4140.23 | 40400.12 | 237 | 4040-4140.50 | 40400.12 | 500 |
| 4040-4140-8840.25 | 40400.12 | 250 | 4040-4140.51 | 40400.12 | 512 |
| 4040-4140.26 | 40400.12 | 262 | 4040-4140.52 | 40400.12 | 525 |
| 4040-4140-8840.27 | 40400.12 | 275 | 4040-4140.53 | 40400.12 | 537 |
| 4040-4140.28 | 40400.12 | 287 | 4040-4140.55 | 40400.12 | 550 |
| 4040-4140-8840.30 | 40400.12 | 300 | 4040-4140.60 | 40400.12 | 600 |

40400.12 Full set, 4 parts

2 with pin / 2 with bore

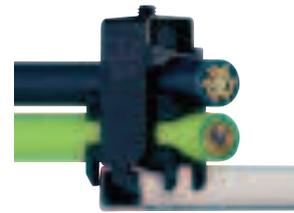
Single-part order:

40400.1 Mounting bracket moving end, 1 part left / right

40400.2 Mounting bracket fixed end, 1 part left / right

Chainfix clamps for the C-profile

| Part No. single clamps | | Part No. double clamps | | Part No. triple clamps | | Cable |
|------------------------|-----------------|------------------------|-----------------|------------------------|-----------------|---------|
| steel | stainless steel | steel | stainless steel | steel | stainless steel | ø [mm] |
| CFX12.1 | CFX12.1.E | CFX12.2 | CFX12.2.E | CFX12.3 | - | 06 - 12 |
| CFX14.1 | CFX14.1.E | CFX14.2 | CFX14.2.E | CFX14.3 | - | 12 - 14 |
| CFX16.1 | CFX16.1.E | CFX16.2 | CFX16.2.E | CFX16.3 | - | 14 - 16 |
| CFX18.1 | CFX18.1.E | CFX18.2 | CFX18.2.E | CFX18.3 | - | 16 - 18 |
| CFX20.1 | CFX20.1.E | CFX20.2 | CFX20.2.E | CFX20.3 | - | 18 - 20 |
| CFX22.1 | CFX22.1.E | CFX22.2 | CFX22.2.E | CFX22.3 | - | 20 - 22 |
| CFX26.1 | CFX26.1.E | CFX26.2 | CFX26.2.E | - | - | 22 - 26 |
| CFX30.1 | CFX30.1.E | CFX30.2 | CFX30.2.E | - | - | 26 - 30 |
| CFX34.1 | CFX34.1.E | CFX34.2 | CFX34.2.E | - | - | 30 - 34 |
| CFX38.1 | CFX38.1.E | - | - | - | - | 34 - 38 |
| CFX42.1 | CFX42.1.E | - | - | - | - | 38 - 42 |



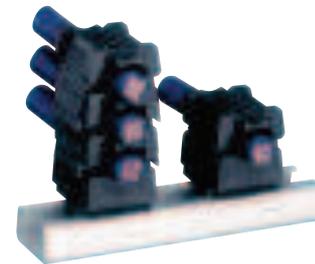
igus® Chainfix steel clamps and Chainfix stainless-steel clamps - max. pull forces, adjustable with hexagon socket. Available as single, double or triple clamps. **Details ▶ chapter 10**

System E4/4
Inner height: 56 mm

| Cable ø [mm] | Part No. clamp | Part No. bottom part |
|--------------|----------------|----------------------|
| 04 - 08 | CFC-08-M | CFC-08-C |
| 08 - 12 | CFC-12-M | CFC-12-C |
| 12 - 16 | CFC-16-M | CFC-16-C |
| 16 - 20 | CFC-20-M | CFC-20-C |
| 20 - 24 | CFC-24-M | CFC-24-C |

Chainfix Clip - Modular snap-on strain relief device for C-profile

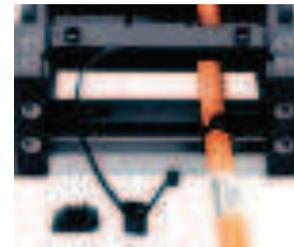
Available for all igus® E-ChainSystems® with C-profiles and also suitable for assembly in the KMA mounting brackets and clip-on strain relief for crossbars. High pull forces, plug-in modular snap-on strain relief device. **Details ▶ chapter 10**



| Part No. | ø max. conduit [mm] | Width [mm] |
|------------|---------------------|------------|
| CFN.20 | 20 | 10,8 |
| CFN.30.52 | 30 | 16,8 |
| CFN.20.N35 | 20 | 20,0 |

Chainfix Nugget for the C-Profile

Strain relief for the fixation of cables up to a diameter of Ø 30 mm. Easy to assemble, without any screws and tools. Easy strain relief due to fixation with pre-harnessed cable strap, very small space requirement. **Details ▶ chapter 10**



| Part No. | Width of strain relief [mm] | Number of teeth |
|----------|-----------------------------|-----------------|
| 3050.ZC | 50 | 5 |
| 3075.ZC | 75 | 7 |

Chainfix tiwrap plates with clip-on connection for the C-profile

Can be plugged into the KMA C-profile. Easy to assemble without any screws. Easily solvable with screwdriver nevertheless safe stop. For all E-Chains® with KMA and integrated C-profile. **Details ▶ chapter 10**

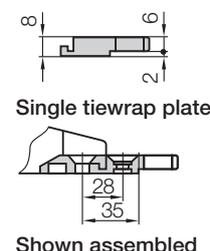
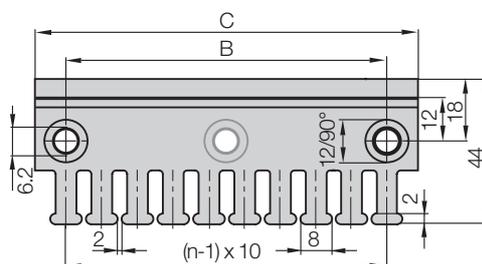


| Tiewrap plate | No. of teeth n | Dim. C [mm] | Dim. B [mm] | Center bore |
|---------------|----------------|-------------|-------------|-------------|
| 3050.ZB | 5 | 50 | 30 | - |
| 3075.ZB | 7 | 75 | 55 | - |
| 3100.ZB | 10 | 100 | 80 | - |
| 3115.ZB | 11 | 115 | 95 | - |
| 3125.ZB | 12 | 125 | 105 | - |
| 3150.ZB | 15 | 150 | 130 | - |
| 3175.ZB | 17 | 175 | 155 | - |
| 3200.ZB | 20 | 200 | 180 | + |
| 3225.ZB | 22 | 225 | 205 | + |
| 3250.ZB | 25 | 250 | 230 | + |

(- = no / + = yes)

Tiewrap plate as individual part

As individual component screwed on KMA. Can be plugged in the mounting brackets. **Details ▶ chapter 10**



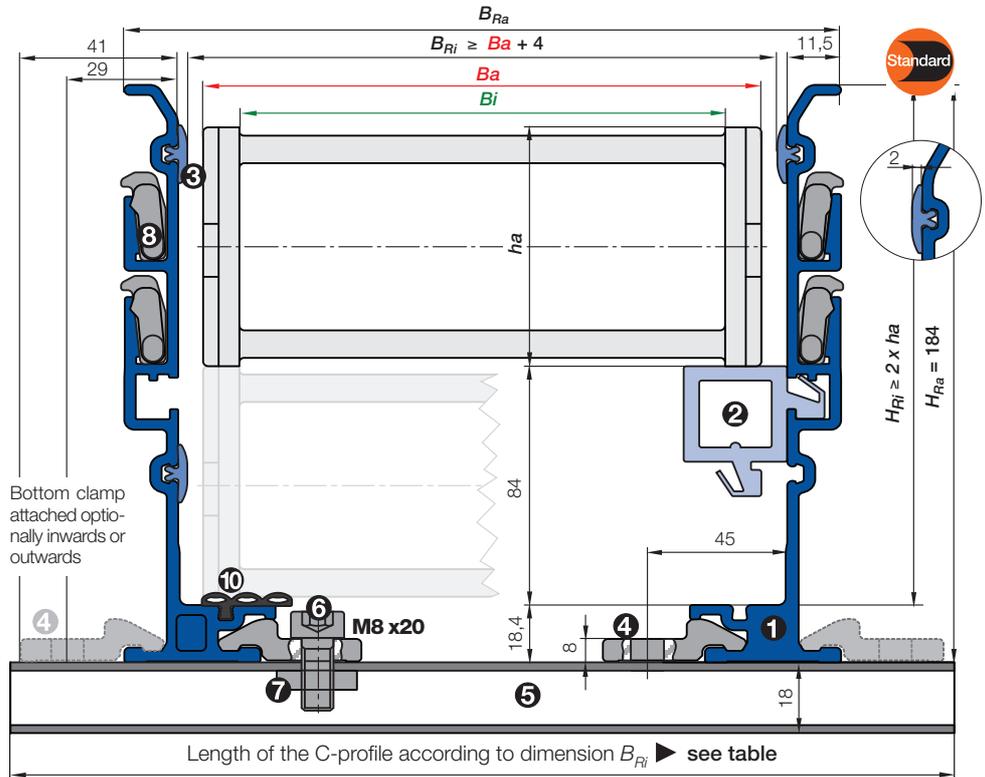
Details about all strain relief option for this series ▶ chapter 10

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▶ page 7.223

- B_a = Outer width E-Chains® / E-Tube
- B_i = Inner width E-Chains® / E-Tube
- h_a = Outer height E-Chains® / E-Tube
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width ▶ depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = Number of installation sets (left/right)
- n_{Ri} = Number of troughs sets (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
 $B_{Ri} \geq B_a + 4$
- = Guide trough set ● = Glide bar
● = Installation set "Basic" ● = C-profile



Installation set "Basic" with C-profile

Bottom Clamp attached optionally inwards or outwards

4040.05.200.0 ▶ Order example

| | Part No. | Part No. | |
|-----|----------|--------------------------------|----------------------------|
| | | B_{Ri} attached inwards [mm] | B_{Ri} attached outwards |
| .05 | 90 | - | 960.50.225 |
| .06 | 105 | - | 960.50.225 |
| .07 | 115 | - | 960.50.250 |
| .08 | 127 | 960.50.175 | 960.50.250 |
| .10 | 140 | 960.50.200 | 960.50.275 |
| .11 | 153 | 960.50.200 | 960.50.275 |
| .12 | 165 | 960.50.225 | 960.50.300 |
| .13 | 178 | 960.50.225 | 960.50.300 |
| .15 | 190 | 960.50.250 | 960.50.325 |
| .16 | 203 | 960.50.250 | 960.50.325 |
| .17 | 215 | 960.50.275 | 960.50.350 |
| .18 | 228 | 960.50.275 | 960.50.350 |
| .20 | 240 | 960.50.300 | 960.50.375 |
| .21 | 253 | 960.50.300 | 960.50.375 |
| .22 | 265 | 960.50.325 | 960.50.400 |
| .23 | 278 | 960.50.325 | 960.50.400 |
| .25 | 290 | 960.50.350 | 960.50.425 |
| .26 | 303 | 960.50.350 | 960.50.425 |
| .27 | 315 | 960.50.375 | 960.50.450 |
| .28 | 328 | 960.50.375 | 960.50.450 |
| .30 | 340 | 960.50.400 | 960.50.475 |
| .31 | 353 | 960.50.400 | 960.50.475 |
| .32 | 365 | 960.50.425 | 960.50.500 |
| .33 | 378 | 960.50.425 | 960.50.500 |
| .35 | 390 | 960.50.450 | 960.50.525 |
| .36 | 403 | 960.50.450 | 960.50.525 |
| .37 | 415 | 960.50.475 | 960.50.550 |
| .38 | 428 | 960.50.475 | 960.50.550 |
| .40 | 440 | 960.50.500 | 960.50.575 |
| .41 | 453 | 960.50.500 | 960.50.575 |
| .42 | 465 | 960.50.525 | 960.50.600 |
| .43 | 478 | 960.50.525 | 960.50.600 |
| .45 | 490 | 960.50.550 | 960.50.625 |
| .46 | 503 | 960.50.550 | 960.50.625 |
| .47 | 515 | 960.50.575 | 960.50.650 |
| .48 | 528 | 960.50.575 | 960.50.650 |
| .50 | 540 | 960.50.600 | 960.50.675 |
| .51 | 553 | 960.50.600 | 960.50.675 |
| .52 | 565 | 960.50.625 | 960.50.700 |
| .53 | 578 | 960.50.625 | 960.50.700 |
| .55 | 590 | 960.50.650 | 960.50.725 |
| .60 | 640 | 960.50.700 | 960.50.775 |



- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, steel galvanized ⑥ Screw M8 x20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic



Order example: Length of travel 30 m - Center mounted for Series 4040.10.200.0 with $B_{Ri} = 140$

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

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No.** 974.30.SL

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

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No.** 974.31.SL

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

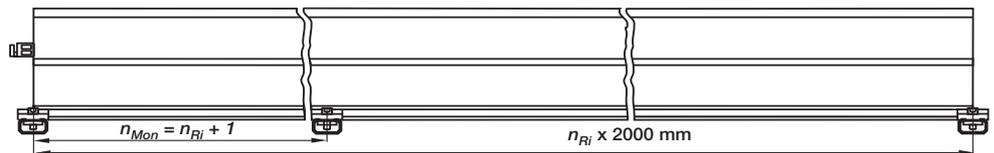
Order text: 17 installation sets "Basic" **Part No.** 960.50.200

Module for the fixed end

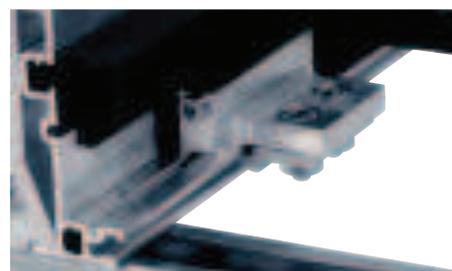
Order text: 1 set **Part No.** 974.80

Option: For an additional noise dampening with silencer profile, please add Index A - Example:

Part No. 974.30.SLA



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



A quick fix for mounting the stationary end of an E-Chain®

With this module for the fixed end, fast and easy mounting onto the Aluminum "SuperTrough" is now possible without any drilling. Fast mounting of the E-Chain® by clamping onto the aluminum trough

- Quick relocation of the stationary end
- No drilling necessary ▶ page 9.16

Insert for the installation set "Heavy-Duty": **974.50.XXX** instead of (**960.50.XXX**) on the right column "attached outwards"

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