

Price index



Low noise version E4/101
Series 381 available with
special rubber pads design



Cleanroom test
upon request



ESD classification:
Electrically conductive ESD/ATEX
version upon request



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 380/390/R780:

- If a low-noise version is required
- At very high speed and/or acceleration
- For long travels
- For high additional loads
- Also available without camber



When not to use it:

- If long side-mounted, unsupported length is required
 - ▶ Series E4.42, page 7.60
- If an extrem vibration-free e-chain® is necessary
 - ▶ Series E6.40, page 8.56
 - ▶ Series R6.40, page 8.62

- ❶ Crossbars on e-chain® removable along both radii
- ❷ Stop dog with "brake" for noise reduction
- ❸ Closed and open styles can be combined
- ❹ Hinged snap-open removable lids along outer radius of e-tube
- ❺ Numerous interior separation possibilities
- ❻ Optimized glide pads with lateral wear allowance
- ❼ Wide, rounded plastic crossbars - cable friendly
- ❽ Integrated strain relief possible
- ❾ KMA mounting brackets with attachment points on all sides
- ❿ Locking or pivoting mounting brackets available
- ⓫ e-chains® also available with reverse bending radius "RBR"



Also available as E4/00-NC without camber: 380-NC



Order example complete e-chain®

Please indicate chain-lengths or number of links Example: 5 m or 75 links

5 m 380.20.300.0

e-chain®

with 2 separators 382 assembled every 2nd link

Interior separation

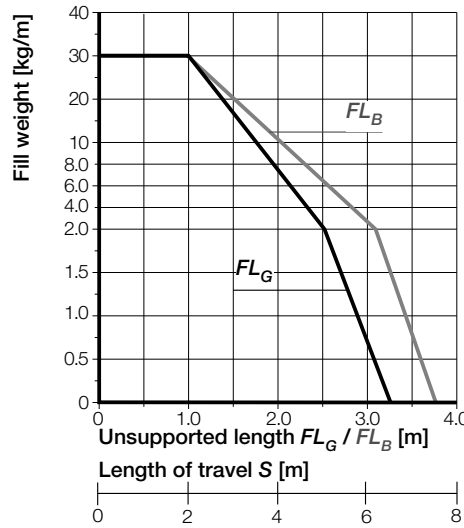
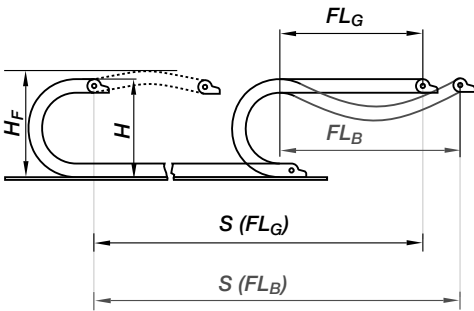
1 set 3800.20.1.12.C

Mounting bracket

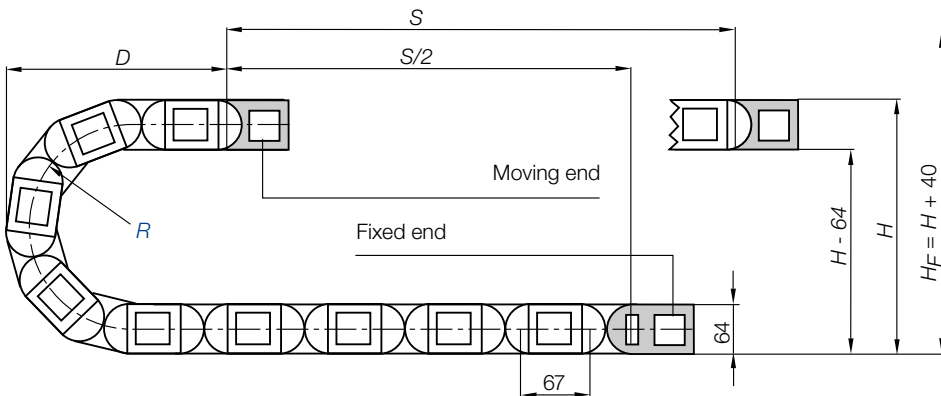


Unsupported length

FL_G = with straight upper run
 FL_B = with permitted sag
 Further information ► **Design, page 1.12**



- 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
- $K = \pi \cdot R + \text{"safety"}$
- D_2 = Over length - long travels, gliding
- K_2 = *Further add-on
- H_2 = *Mounting height
- *if the mounting bracket location is set lower

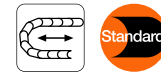


Pitch = 67 mm/link Links/m = 15 (1005 mm) Chain length = $S/2 + K$

| R | 075 | 100 | 115 | 125 | 150 | 170 | 200 | 215 | 250 | 300 | 350 |
|-------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| H_{+25}^0 | 215 | 265 | 295 | 315 | 365 | 405 | 465 | 495 | 565 | 665 | 765 |
| D | 174 | 199 | 214 | 224 | 249 | 269 | 299 | 314 | 349 | 399 | 449 |
| K | 370 | 450 | 500 | 530 | 610 | 670 | 765 | 810 | 920 | 1080 | 1235 |
| H_2 | 151 | 201 | 231 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 |
| D_2^{+25} | 174 | 199 | 214 | 475 | 570 | 620 | 780 | 865 | 1030 | 1150 | 1500 |
| K_2 | 370 | 450 | 500 | 804 | 938 | 1072 | 1340 | 1407 | 1675 | 1943 | 2412 |

Other installation methods

- Vertical, hanging ≤ 100 m
- Vertical, standing ≤ 6 m
- Side mounted, unupp. ≤ 2 m
- Rotary requires further calculation
- Unsupported length of upper run = upon request

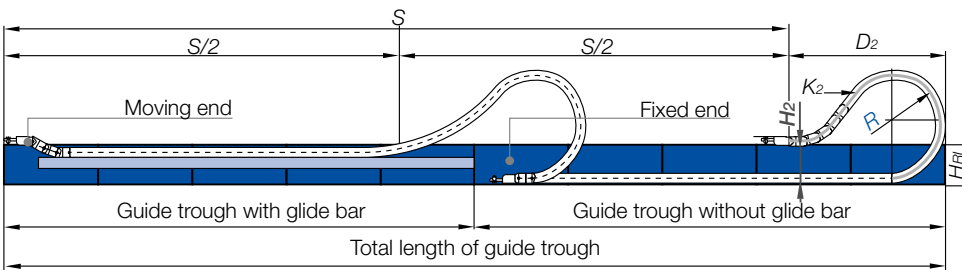


Short travels - unsupported

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:
 $H_F = H + 40$ mm
 (with 2,0 kg/m fill weight)

Long travel lengths from 12 m to max. 300 m Chain length = $S/2 + K_2$



In case of travels between 8,0 and 12 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 |



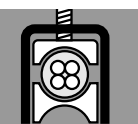
Details of material properties
 ► page 1.38

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

42

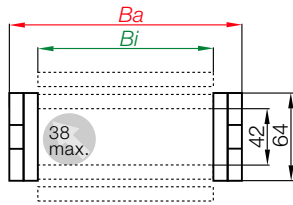
System E4/00
 Inner height: 42 mm

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► page 7.255

igus® e-chainsystems®

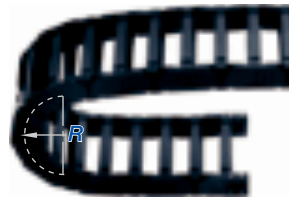


Part No. structure

| | | | |
|------|------|------|---|
| 380. | 400. | 300. | 0 |
|------|------|------|---|



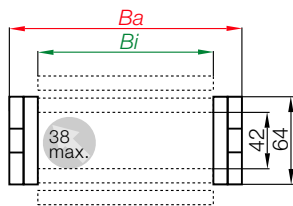
Series 380 - e-chain® with crossbars every link



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



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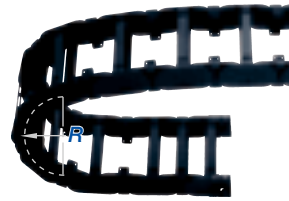


Part No. structure

| | | | |
|------|------|------|---|
| 390. | 400. | 300. | 0 |
|------|------|------|---|



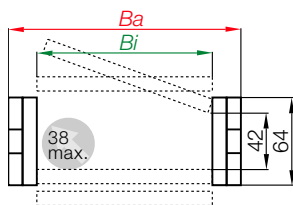
Series 390 - e-chain® with crossbars every 2nd link



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



igus® GmbH
51147 Cologne



Part No. structure

| | | | |
|------|-----|------|---|
| 780. | 25. | 300. | 0 |
|------|-----|------|---|



Series R780 - 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.



Internet: www.igus.eu
E-mail: info@igus.de

Low-noise! Special low-noise version with rubber pads

Series 381 - Order example: 381.15.250.0

Further information:

www.igus.de or phone +49-(0) 22 03-96 49-800



| Part No. | | <i>Bi</i> | <i>Ba</i> | 380 | 390 | R780 |
|-------------------|------------------------------|-----------|-----------|--------|--------|--------|
| | | [mm] | [mm] | [kg/m] | [kg/m] | [kg/m] |
| 380/390/780.05... | <input type="checkbox"/> .0* | 50 | 76 | ≈ 2,06 | ≈ 1,98 | ≈ 2,25 |
| 380/390.06..... | <input type="checkbox"/> .0 | 68 | 94 | ≈ 2,09 | ≈ 1,99 | - |
| 380/390/780.07... | <input type="checkbox"/> .0 | 75 | 101 | ≈ 2,12 | ≈ 2,01 | ≈ 2,38 |
| 380/390.087..... | <input type="checkbox"/> .0 | 87 | 114 | ≈ 2,18 | ≈ 2,04 | - |
| 380/390/780.10... | <input type="checkbox"/> .0 | 100 | 126 | ≈ 2,25 | ≈ 2,08 | ≈ 2,60 |
| 380/390/780.11... | <input type="checkbox"/> .0 | 108 | 134 | ≈ 2,30 | ≈ 2,10 | ≈ 2,65 |
| 380/390.112..... | <input type="checkbox"/> .0 | 112 | 139 | ≈ 2,30 | ≈ 2,10 | - |
| 380/390/780.12... | <input type="checkbox"/> .0 | 125 | 151 | ≈ 2,40 | ≈ 2,15 | ≈ 2,81 |
| 380/390.137..... | <input type="checkbox"/> .0 | 137 | 164 | ≈ 2,44 | ≈ 2,17 | - |
| 380/390/780.15... | <input type="checkbox"/> .0 | 150 | 176 | ≈ 2,53 | ≈ 2,21 | ≈ 3,07 |
| 380/390.162..... | <input type="checkbox"/> .0 | 162 | 189 | ≈ 2,55 | ≈ 2,22 | - |
| 380/390/780.17... | <input type="checkbox"/> .0 | 168 | 194 | ≈ 2,62 | ≈ 2,26 | ≈ 3,24 |
| 380/390.18..... | <input type="checkbox"/> .0 | 175 | 201 | ≈ 2,62 | ≈ 2,26 | - |
| 380/390.187..... | <input type="checkbox"/> .0 | 187 | 214 | ≈ 2,69 | ≈ 2,30 | - |
| 380/390/780.20... | <input type="checkbox"/> .0 | 200 | 226 | ≈ 2,77 | ≈ 2,33 | ≈ 3,53 |
| 380/390.212..... | <input type="checkbox"/> .0 | 212 | 239 | ≈ 2,84 | ≈ 2,37 | - |
| 380/390.23..... | <input type="checkbox"/> .0 | 225 | 251 | ≈ 2,92 | ≈ 2,41 | - |
| 380/390.237..... | <input type="checkbox"/> .0 | 237 | 264 | ≈ 2,96 | ≈ 2,43 | - |
| 380/390/780.25... | <input type="checkbox"/> .0 | 250 | 276 | ≈ 3,05 | ≈ 2,47 | ≈ 4,33 |
| 380/390.262..... | <input type="checkbox"/> .0 | 262 | 289 | ≈ 3,06 | ≈ 2,48 | - |
| 380/390.28..... | <input type="checkbox"/> .0 | 275 | 301 | ≈ 3,17 | ≈ 2,53 | - |
| 380/390.29..... | <input type="checkbox"/> .0 | 287 | 314 | ≈ 3,19 | ≈ 2,54 | - |
| 380/390/780.30... | <input type="checkbox"/> .0 | 300 | 326 | ≈ 3,32 | ≈ 2,61 | ≈ 4,89 |
| 380/390.312..... | <input type="checkbox"/> .0 | 312 | 339 | ≈ 3,34 | ≈ 2,62 | - |
| 380/390.325..... | <input type="checkbox"/> .0 | 325 | 351 | ≈ 3,41 | ≈ 2,66 | - |
| 380/390.337..... | <input type="checkbox"/> .0 | 337 | 364 | ≈ 3,46 | ≈ 2,68 | - |
| 380/390.350..... | <input type="checkbox"/> .0 | 350 | 376 | ≈ 3,68 | ≈ 2,79 | - |
| 380/390.362..... | <input type="checkbox"/> .0 | 362 | 389 | ≈ 3,74 | ≈ 2,82 | - |
| 380/390.375..... | <input type="checkbox"/> .0 | 375 | 402 | ≈ 3,79 | ≈ 2,84 | - |
| 380/390.387..... | <input type="checkbox"/> .0 | 387 | 414 | ≈ 3,85 | ≈ 2,87 | - |
| 380/390.400..... | <input type="checkbox"/> .0 | 400 | 426 | ≈ 3,90 | ≈ 2,90 | - |

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*: **780.30.150.0.HT** Lids made of HT: **780.30.HTE.150.0** *for long travels upon request Further Information: www.igus.de/en/HT Delivery time up to 4 weeks!



System E4/00
Inner height: 42 mm

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Available bending radii

R [mm] 075** 100** 115** 125 150 170 200 215 250 300 350

Supplement Part No. with required radius. Example: 380.400.300.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 67 mm/link - Links/m = 15

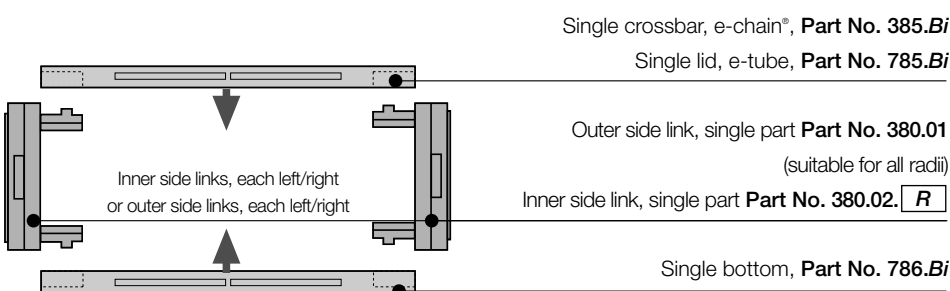
*Removable lid only, no hinged option · **not available for R780



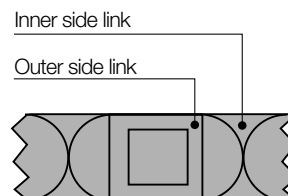
Extender crossbar for large diameter hoses ▶ page 7.280



▶ page 7.255



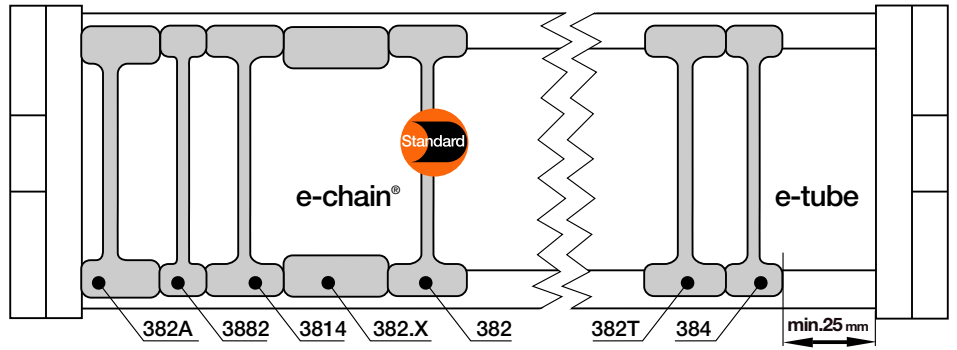
Part No. e-chain® links, single parts



igus® e-chainsystems®



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 25 mm (e-tube)!



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Vertical separator 381



Vertical separator with a narrow base 3881



Vertical separator 381T



Spacer 381.XX



Locking separator 3804

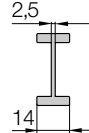


Locking separator 383

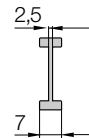


Asymmetric separator 381A

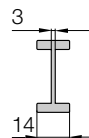
| | |
|---|------------|
| Vertical separator for e-chains® | |
| unassembled | 381 |
| assembled | 382 |



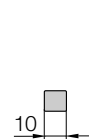
| | |
|--|-------------|
| Vertical separator* for e-chains® | |
| unassembled | 3881 |
| assembled | 3882 |



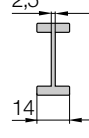
| | |
|---------------------------------------|-------------|
| Vertical separator for e-tubes | |
| unassembled | 381T |
| assembled | 382T |



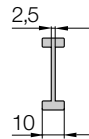
| | |
|------------------------------|---------------|
| Spacer* for e-chains® | |
| unassembled | 381.XX |
| assembled | 382.XX |



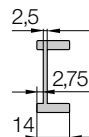
| | |
|--|-------------|
| Locking separator for e-chains® | |
| unassembled | 3804 |
| assembled | 3814 |



| | |
|--------------------------------------|------------|
| Locking separator for e-tubes | |
| unassembled | 383 |
| assembled | 384 |



| | |
|---|-------------|
| Asymmetric separator for e-chains® | |
| unassembled | 381A |
| assembled | 382A |



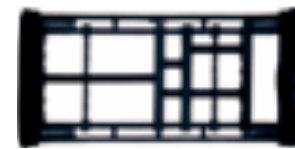
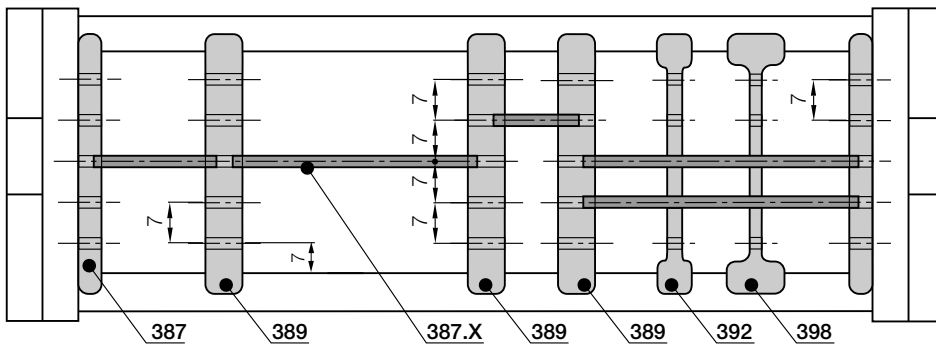
*For side-mounted applications

Option 1: Vertical separators and spacers

- **Standard separator 381 for e-chains®** offers safe stability due to its broad foot design, also when used with thick cables or hoses.
- **Vertical separator 3881 with a narrow foot (7 mm) for e-chains®** with applications where a large number of small cables need to be individually separated.
- The **vertical separator 381T for e-tubes** clamps to the fixed radius and remains free along the other radius to facilitate lid removal. If installing these yourself, please ensure that they are identically aligned.
- Separators (e.g. "side mounted") for e-chains® can be fixed in their position with **spacers 381.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 and 20)

Additionally:

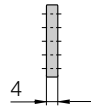
- **Locking separator 3804 for e-chains®** - with increased retention force for applications exposed to very high humidity or extreme loads. The extra retention force is achieved by asymmetric claws for the crossbar. Ensure proper alignment.
- **Locking separator 383 for e-chains®** - with increased 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.
- **Asymmetric separator 381A for e-chains®** (not for e-tubes) with an 14-mm base, for combinations between spacers of different widths and vertical separators in side-mounted



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

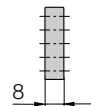
Option 2: Shelves

● Side plates 386, middle plates 388 and shelves 386.X form the basic pattern of a shelf system. Shelves of various widths can be arranged at 5 different heights (in 7 mm increments).



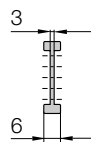
| Side plate for e-chains®/e-tubes | | |
|----------------------------------|--|-----|
| unassembled | | 386 |
| assembled | | 387 |

● Slotted separators 391, are used for very fine subdivisions. However, they cannot be retrofitted into an existing separation system without dismantling the interior separators first.

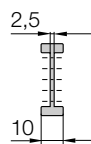


| Middle plate for e-chains®/e-tubes | | |
|------------------------------------|--|-----|
| unassembled | | 388 |
| assembled | | 389 |

● The unilateral open slotted separator 397 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 | | 391 |
| assembled | | 392 |



| Open slotted separator for e-chains®/e-tubes | | |
|--|--|-----|
| unassembled | | 397 |
| assembled | | 398 |

| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 018 | 386.18 | 387.18 |
| 023 | 386.23 | 387.23 |
| 025 | 386.25 | 387.25 |
| 028 | 386.28 | 387.28 |
| 033 | 386.33 | 387.33 |
| 043 | 386.43 | 387.43 |
| 050 | 386.50 | 387.50 |
| 054 | 386.54 | 387.54 |
| 062 | 386.62 | 387.62 |

| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 075 | 386.75 | 387.75 |
| 087 | 386.87 | 387.87 |
| 100 | 386.100 | 387.100 |
| 108 | 386.108 | 387.108 |
| 125 | 386.125 | 387.125 |
| 150 | 386.150 | 387.150 |
| 175 | 386.175 | 387.175 |
| 200 | 386.200 | 387.200 |
| 208 | 386.208 | 387.208 |



Side plate 386



Middle plate 388



Slotted separator 391

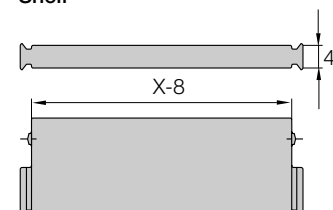


Open slotted separator 397



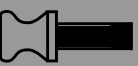
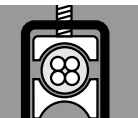
Shelf 386.X

Shelf



System E4/00
Inner height: 42 mm

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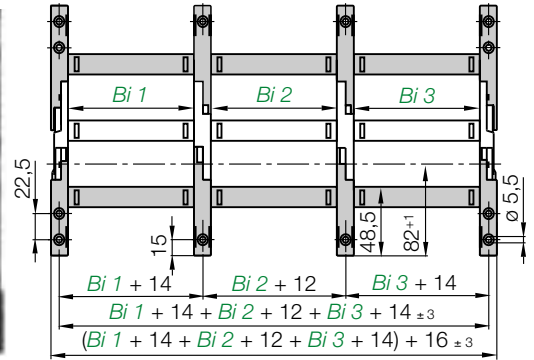
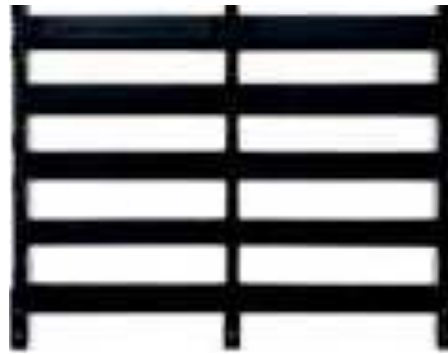


Extension links - for extremely wide e-chains® up to 3,0 m

- 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



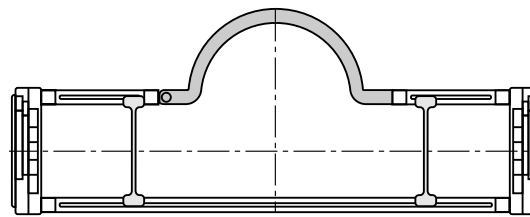
Part No. structure
380.10 /20 /10. 200 .0
380.*Bi1/Bi2/Bi3*. R .0



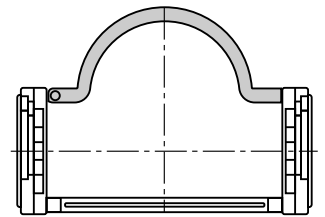
Extender crossbars - careful guide of hoses applications

- Suitable for hoses with a maximum outer diameter of 115 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

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



385.15RHD115 round extender crossbar combined with snap-open crossbars



385.18RD115 round strap attached directly on the side link

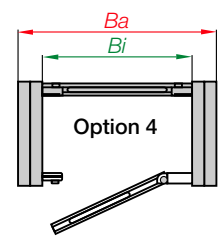
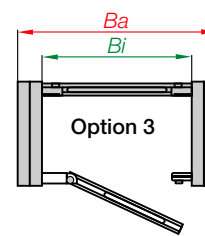
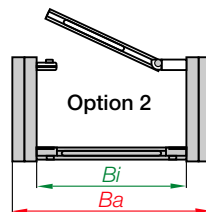
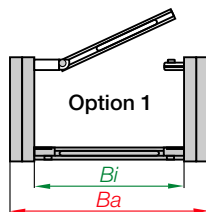
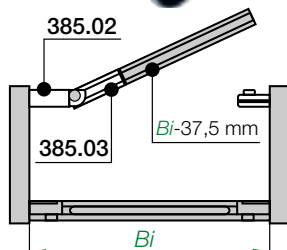
| Part No. | Max Ø [mm] hose | Form | Installation side link | Combination with snap-open crossb. |
|---------------|-----------------|------|------------------------|------------------------------------|
| 385.15.RHD115 | 115 | ○ | - | + |
| 385.18.RD115 | 115 | ○ | + | - |

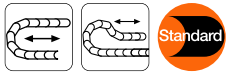
○ = round + = yes / - = no



Hinged crossbars

- Typically e-chain® crossbars are completely removable. In cases where the snap-open crossbars have to remain at the open link of the e-chain®, a hinged design has been developed
- Length: 37,5 mm **Part No. 385.02** / snap-open crossbar (shortened): *Bi*-37,5 mm **Part No. 385.03**
- Please consult igus® for design assistance





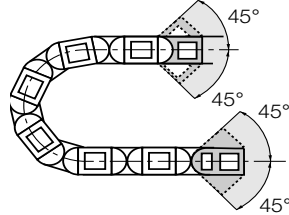
The Standard - Option KMA* - pivoting

- 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
- Universally mountable with attachment capability on all sides

*KMA = Polymer Metal Mounting Bracket

Moving end

3800/7800...□.2

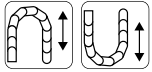
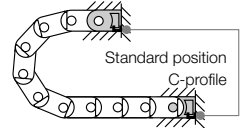


Fixed end

3800/7800...□.1



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



Option KMA - locking

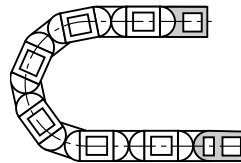
- Recommended for vertical hanging / standing applications

Additionally:

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

Moving end

3900/7900...□.2

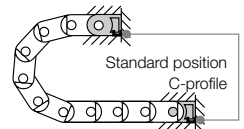


Fixed end

3900/7900...□.1



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



Fixed end

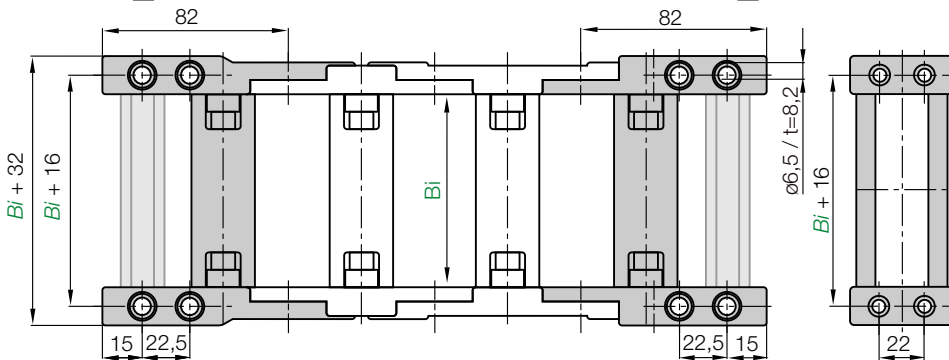
3800/7800...□.1 (pivoting)

3900/7900...□.1 (locking)

Moving end

(pivoting) 3800/7800...□.2

(locking) 3900/7900...□.2

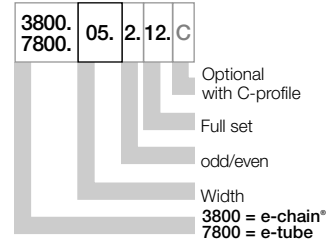


| Width index | Part No. full set | | C-profile option [mm] | Width index | Part No. full set | | C-profile option [mm] |
|-------------|-------------------|-----------|-----------------------|-------------|-------------------|-----------|-----------------------|
| | pivoting | locking | | | pivoting | locking | |
| .05 | 3800/7800 | 3900/7900 | .05. □.12. C 50 | .23 | 3800 | 3900 | .23. □.12. C 225 |
| .06 | 3800 | 3900 | .06. □.12. C 68 | .237 | 3800 | 3900 | .237. □.12. C 237 |
| .07 | 3800/7800 | 3900/7900 | .07. □.12. C 75 | .25 | 3800/7800 | 3900/7900 | .25. □.12. C 250 |
| .087 | 3800 | 3900 | .087. □.12. C 87 | .262 | 3800 | 3900 | .262. □.12. C 262 |
| .10 | 3800/7800 | 3900/7900 | .10. □.12. C 100 | .28 | 3800 | 3900 | .28. □.12. C 275 |
| .11 | 3800/7800 | 3900/7900 | .11. □.12. C 108 | .29 | 3800 | 3900 | .29. □.12. C 287 |
| .112 | 3800 | 3900 | .112. □.12. C 112 | .30 | 3800/7800 | 3900/7900 | .30. □.12. C 300 |
| .12 | 3800/7800 | 3900/7900 | .12. □.12. C 125 | .312 | 3800 | 3900 | .312. □.12. C 312 |
| .137 | 3800 | 3900 | .137. □.12. C 137 | .325 | 3800 | 3900 | .325. □.12. C 325 |
| .15 | 3800/7800 | 3900/7900 | .15. □.12. C 150 | .337 | 3800 | 3900 | .337. □.12. C 337 |
| .162 | 3800 | 3900 | .162. □.12. C 162 | .350 | 3800 | 3900 | .350. □.12. C 350 |
| .17 | 3800/7800 | 3900/7900 | .17. □.12. C 168 | .362 | 3800 | 3900 | .362. □.12. C 362 |
| .18 | 3800 | 3900 | .18. □.12. C 175 | .375 | 3800 | 3900 | .375. □.12. C 375 |
| .187 | 3800 | 3900 | .187. □.12. C 187 | .387 | 3800 | 3900 | .387. □.12. C 387 |
| .20 | 3800/7800 | 3900/7900 | .20. □.12. C 200 | .400 | 3800 | 3900 | .400. □.12. C 400 |
| .212 | 3800 | 3900 | .212. □.12. C 212 | | | | |

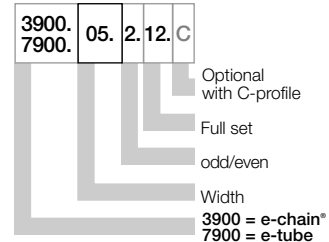
Please insert **1** for odd number of links or **2** for even number of links

Dimensions and order configurations

Part No. structure (pivoting)



Part No. structure (locking)



Note: The E4/00 System may end with either an inner side or an outer side link. Keep in mind that an outer side link always forms the first chain link at the moving end. The Part No. depends on an even or odd numbers of links. Please insert: **1** for odd number of links or **2** for even number of links

Full set, for both ends:

3800. 05. 2. 12. C (even)

Single-part order:

3800. 05. 2. 2. C (even)

Mounting bracket moving end

3800. 05. 2. 1. C (even)

Mounting bracket fixed end



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

chainfix clamps for C-profile

| Part No. single clamps | | Part No. double clamps | | Part No. triple clamps | | Cable ø [mm] |
|------------------------|-----------------|------------------------|-----------------|------------------------|-----------------|-----------------|
| steel | stainless steel | steel | stainless steel | steel | stainless steel | |
| 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 |



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

| 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 |

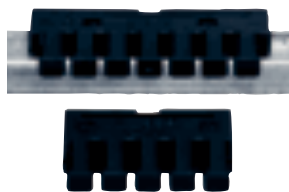


chainfix Nugget for the C-Profile

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. | ø max. conduit [mm] | Width [mm] |
|-------------|------------------------|---------------|
| CFN.20 | 20 | 10,8 |
| CFN.30.52* | 30 | 16,4 |
| CFN.20.N35* | 20 | 20,0 |



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

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

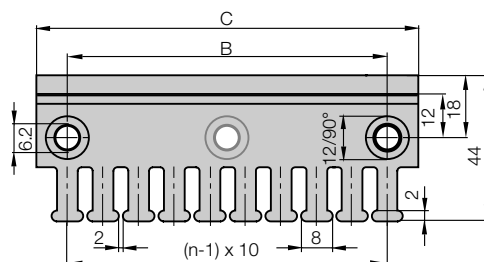
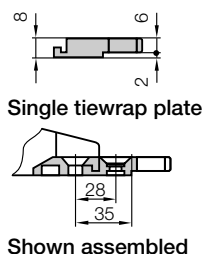


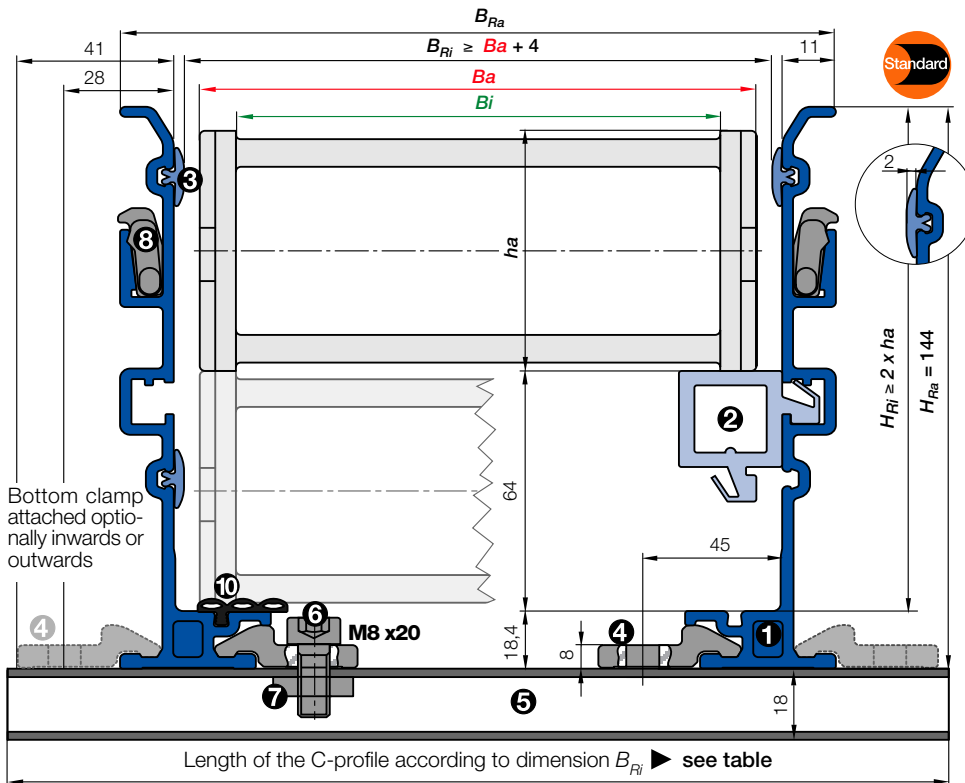
Tiewrap plate as individual part

As individual component screwed on KMA. Can be plugged in the mounting brackets. 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)





- 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 trough 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

380.05.300.0 ▶ Order example

| | Part No. | Part No. |
|---------------|------------------|-------------------|
| B_{Ri} [mm] | attached inwards | attached outwards |
| .05 | 80 | 960.40.200 |
| .06 | 98 | 960.40.225 |
| .07 | 105 | 960.40.225 |
| .087 | 118 | 960.40.175 |
| .10 | 130 | 960.40.200 |
| .11 | 138 | 960.40.200 |
| .112 | 143 | 960.40.200 |
| .12 | 155 | 960.40.225 |
| .137 | 168 | 960.40.225 |
| .15 | 180 | 960.40.250 |
| .162 | 193 | 960.40.250 |
| .17 | 198 | 960.40.250 |
| .18 | 205 | 960.40.275 |
| .187 | 218 | 960.40.275 |
| .20 | 230 | 960.40.300 |
| .212 | 243 | 960.40.300 |
| .23 | 255 | 960.40.325 |
| .237 | 268 | 960.40.325 |
| .25 | 280 | 960.40.350 |
| .262 | 293 | 960.40.350 |
| .28 | 305 | 960.40.375 |
| .29 | 318 | 960.40.375 |
| .30 | 330 | 960.40.400 |
| .312 | 343 | 960.40.400 |
| .325 | 355 | 960.40.425 |
| .337 | 368 | 960.40.425 |
| .350 | 380 | 960.40.450 |
| .362 | 393 | 960.40.450 |
| .375 | 406 | 960.40.475 |
| .387 | 418 | 960.40.475 |
| .400 | 430 | 960.40.500 |



- **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 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series 380.20.300.0 with $B_{Ri} = 230$

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. 973.30.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. 973.31.SL

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

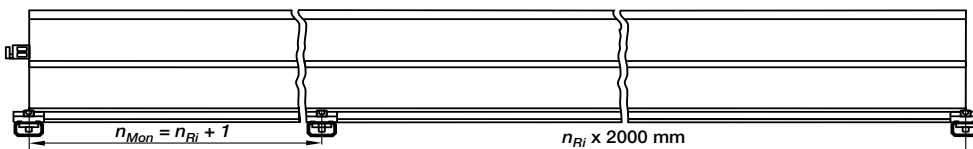
Order text: 17 installation sets "Basic" Part No. 960.40.300

Module for the fixed end

Order text: 1 set Part No. 973.81

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

Part No. 973.30.SLA



Prinzipzeichnung: Anzahl der zu montierenden Montagesets "Basic" = Anzahl der Rinnenstücke + 1

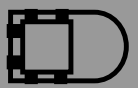


A quick fix for mounting the stationary end of an e-chain®

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": 973.50.XXX instead of (960.40.XXX) on the right column "attached outwards"



▶ chapter 10



▶ chapter 9



▶ page 7.255