

Price index



Low noise version E4/101
Series 401 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 400/410/R880:

- If a low-noise version is required
- At very high speeds and/or accelerations
- 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 E4.56, page 7.78
- If an extrem vibration-free e-chain® is necessary
▶ Series E6.52, page 8.66

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



Also available as
E4/00-NC without
camber: 400-NC



Order example complete e-chain®

Please indicate chain-lengths or number of links Example: 3 m or 33 links

3 m 400.30.300.0

e-chain®

with 2 separators 411 assembled every 2nd link

Interior separation

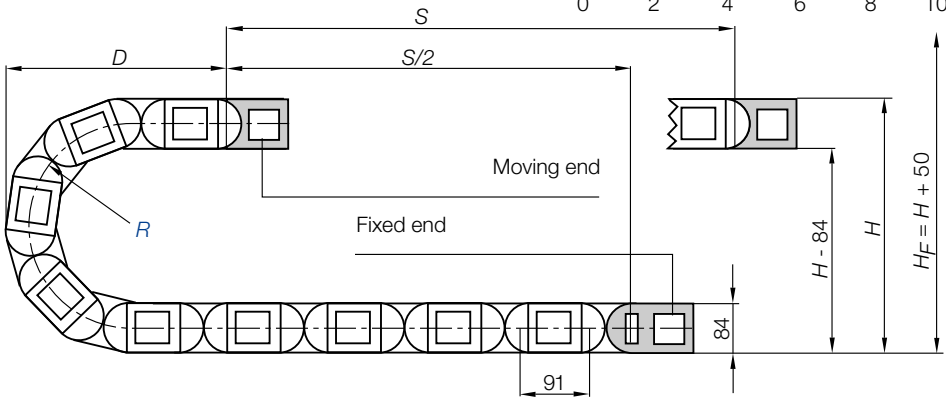
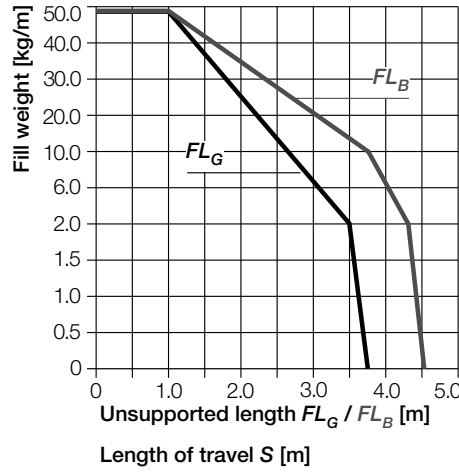
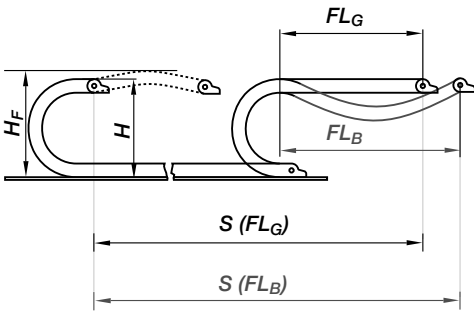
1 set 4000.30.1.12.C

Mounting bracket



Unsupported length

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



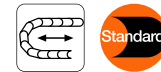
Pitch = 91 mm/link Links/m = 11 (1001 mm) Chain length = $S/2 + K$

R	135	150	175	200	240	250	300	350	400	500
H_{+25}^{-0}	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	276	266	266	266	266	266	266	266	266	266
D_2^{+25}	270	480	600	730	950	920	1180	1440	1530	1900
K_2	650	819	1092	1274	1547	1547	2002	2275	2548	3276

- 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

Other installation methods

- Vertical, hanging ≤ 100 m
- Vertical, standing ≤ 6 m
- Side mounted, unupp. $\leq 2,5$ m
- Rotary requires further calculation
- Unsupported length of upper run = upon request

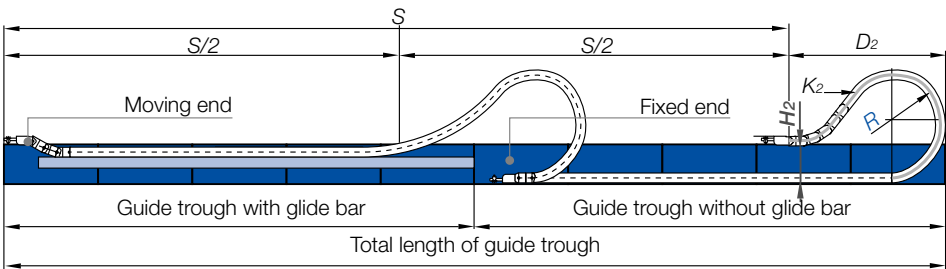


Short travels - unsupported

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 12 m to max. 400 m Chain length = $S/2 + K_2$



In case of travels between 9,0 and 12 m we recommend a longer unsupported length.



Gliding, long travel applications (max. 400 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

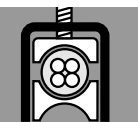


Details of material properties
 ► page 1.38

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

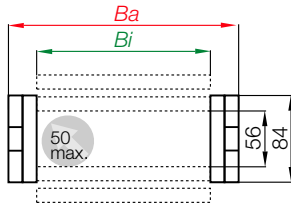
System E4/00
 Inner height: 56 mm

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► page 7.255

igus® e-chainsystems®

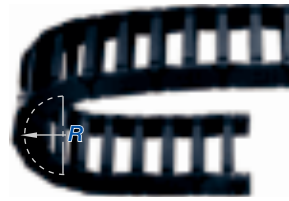


Part No. structure

400. 13. 250. 0



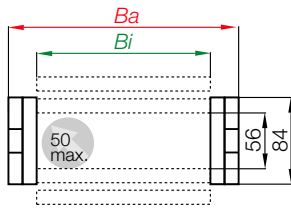
Series 400 - e-chain® with crossbars every link



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



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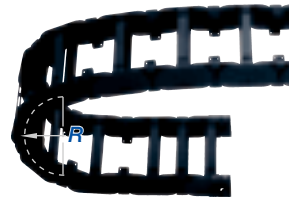


Part No. structure

410. 13. 250. 0



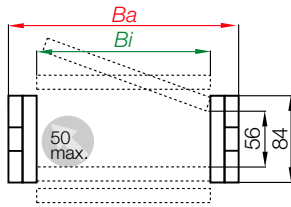
Series 410 - e-chain® with crossbars every 2nd link



- 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

880. 25. 250. 0



Series R880 - 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 401 - Order example: 401.22.250.0

Further information:

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



Part No.		<i>Bi</i>	<i>Ba</i>	400	410	R880
		[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]
400/410.05.....	<input type="checkbox"/> .0	50	84	≈ 3,44	≈ 3,12	-
400/410.06.....	<input type="checkbox"/> .0	65	99	≈ 3,50	≈ 3,20	-
400/410/880.07..	<input type="checkbox"/> .0*	75	109	≈ 3,53	≈ 3,44	≈ 3,98
400/410.08.....	<input type="checkbox"/> .0	87	121	≈ 3,56	≈ 3,48	-
400/410/880.10..	<input type="checkbox"/> .0	100	134	≈ 3,71	≈ 3,53	≈ 4,27
400/410.11.....	<input type="checkbox"/> .0	112	147	≈ 3,84	≈ 3,60	-
400/410/880.12..	<input type="checkbox"/> .0	125	159	≈ 3,91	≈ 3,63	≈ 4,63
400/410.13.....	<input type="checkbox"/> .0	137	172	≈ 4,04	≈ 3,70	-
400/410/880.15..	<input type="checkbox"/> .0	150	184	≈ 4,10	≈ 3,73	≈ 5,06
400/410.16.....	<input type="checkbox"/> .0	162	197	≈ 4,21	≈ 3,78	-
400/410/880.17..	<input type="checkbox"/> .0	175	209	≈ 4,32	≈ 3,84	≈ 5,37
400/410.18.....	<input type="checkbox"/> .0	187	222	≈ 4,43	≈ 3,89	-
400/410/880.20..	<input type="checkbox"/> .0	200	234	≈ 4,46	≈ 3,91	≈ 5,63
400/410.21.....	<input type="checkbox"/> .0	212	247	≈ 4,57	≈ 3,96	-
400/410.22.....	<input type="checkbox"/> .0	225	259	≈ 4,63	≈ 3,99	-
400/410.23.....	<input type="checkbox"/> .0	237	272	≈ 4,76	≈ 4,06	-
400/410/880.25..	<input type="checkbox"/> .0	250	284	≈ 4,85	≈ 4,10	≈ 6,36
400/410.26.....	<input type="checkbox"/> .0	262	297	≈ 4,94	≈ 4,15	-
400/410/880.27..	<input type="checkbox"/> .0	275	309	≈ 5,05	≈ 4,20	≈ 6,72
400/410.28.....	<input type="checkbox"/> .0	287	322	≈ 5,07	≈ 4,21	-
400/410/880.30..	<input type="checkbox"/> .0	300	334	≈ 5,29	≈ 4,32	≈ 7,02
400/410.31.....	<input type="checkbox"/> .0	312	347	≈ 5,29	≈ 4,32	-
400/410.32.....	<input type="checkbox"/> .0	325	359	≈ 5,38	≈ 4,37	-
400/410.33.....	<input type="checkbox"/> .0	337	372	≈ 5,56	≈ 4,46	-
400/410/880.35..	<input type="checkbox"/> .0	350	384	≈ 5,71	≈ 4,53	≈ 7,72
400/410.36.....	<input type="checkbox"/> .0	362	397	≈ 5,71	≈ 4,53	-
400/410.37.....	<input type="checkbox"/> .0	375	409	≈ 5,73	≈ 4,54	-
400/410.38.....	<input type="checkbox"/> .0	387	422	≈ 5,82	≈ 4,59	-
400/410/880.40..	<input type="checkbox"/> .0	400	434	≈ 6,02	≈ 4,69	≈ 8,72
400/410.41.....	<input type="checkbox"/> .0	412	447	≈ 6,17	≈ 4,76	-
400/410.42.....	<input type="checkbox"/> .0	425	459	≈ 6,33	≈ 4,84	-
400/410.43.....	<input type="checkbox"/> .0	437	472	≈ 6,39	≈ 4,87	-
400/410.45.....	<input type="checkbox"/> .0	450	484	≈ 6,46	≈ 4,91	-
400/410/880.46..	<input type="checkbox"/> .0	462	497	≈ 6,48	≈ 4,92	≈ 9,19
400/410.47.....	<input type="checkbox"/> .0	475	509	≈ 6,61	≈ 4,98	-
400/410.48.....	<input type="checkbox"/> .0	487	522	≈ 6,65	≈ 5,01	-
400/410.50.....	<input type="checkbox"/> .0	500	534	≈ 6,74	≈ 5,05	-
400/410.51.....	<input type="checkbox"/> .0	512	547	≈ 6,77	≈ 5,06	-
400/410.52.....	<input type="checkbox"/> .0	525	559	≈ 6,81	≈ 5,08	-
400/410.53.....	<input type="checkbox"/> .0	537	572	≈ 6,96	≈ 5,16	-
400/410.55.....	<input type="checkbox"/> .0	550	584	≈ 7,45	≈ 5,40	-
400/410.60.....	<input type="checkbox"/> .0	600	634	≈ 7,65	≈ 5,50	-

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*:

880.40.150.0.HT

Lids made of HT:

880.40.HTE.150.0

*for long travels upon request

Further Information:

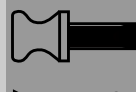
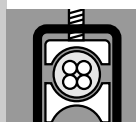
www.igus.de/en/HT

Delivery time

up to 4 weeks!

System E4/00
Inner height: 56 mm

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► page 7.255

* Removable lid only, no hinged option

** not available for R880



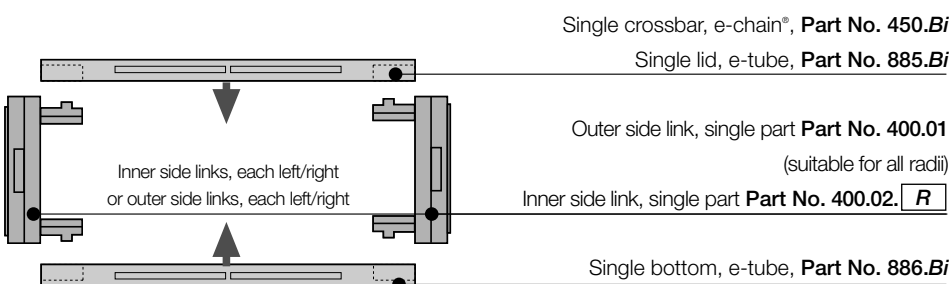
Extender crossbar for large diameter hoses ► page 7.290

Available bending radii

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

Supplement Part No. with required radius. Example: 400.30.300.0

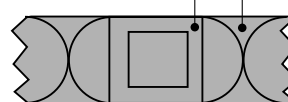
0 = standard color, other colors ► page 1.39 · Pitch = 91 mm/link - Links/m = 11



Part No. e-chain® links, single parts

Inner side link

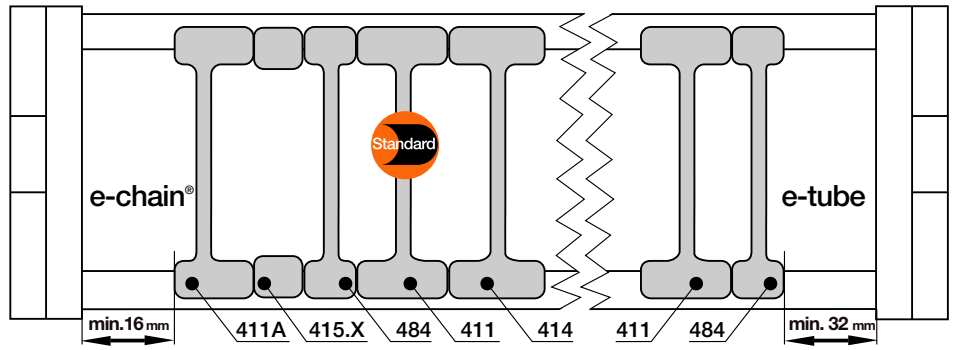
Outer side link



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 32 mm (e-tube) and 16 mm (e-chain)!



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Vertical separator 401



Vertical separator 483



Spacer 405.XX



Locking separator 404

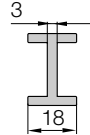


Vertical separator 406

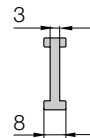


Asymmetric separator 401A

Vertical separator for e-chains®/e-tubes	
unassembled	401
assembled	411



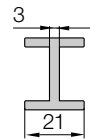
Vertical separator for e-chains®/e-tubes	
unassembled	483
assembled	484



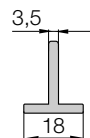
Spacer* for e-chains®	
unassembled	405.XX
assembled	415.XX



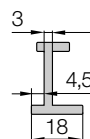
Locking separator for e-chains®	
unassembled	404
assembled	414



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.

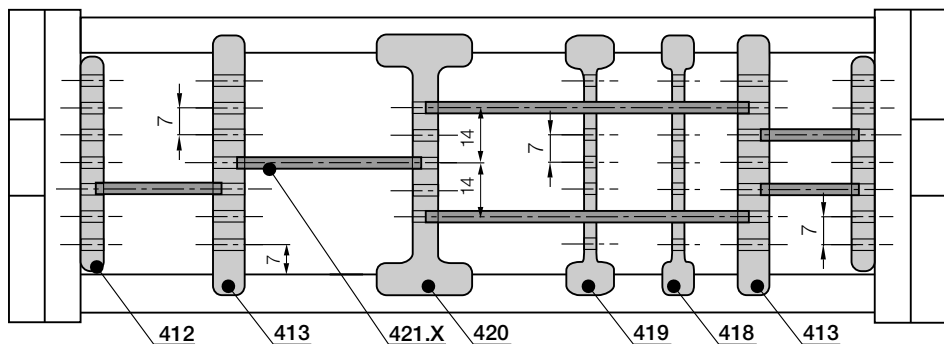
● Separators (e.g. "side mounted") for e-chains® can be fixed in their position with **Spacers 405.XX**. The available inner height will be reduced by 2 mm, per spacer and side. To avoid this, the parts can be assembled on outside of the crossbar (not for long travels) **XX = width of the spacer** (available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

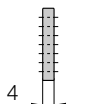
● **Asymmetric separator 401A for e-chains®** with an 18-mm base, for combinations between spacers of different widths and vertical separators in side-mounted applications, for instance.



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

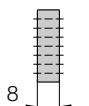
Option 2: Shelves

● 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).



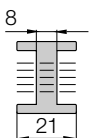
Side plate for e-chains®/e-tubes		
unassembled		402
assembled		412

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



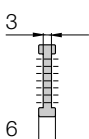
Middle plate for e-chains®/e-tubes		
unassembled		403
assembled		413

● 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.

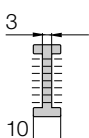


Locking vertical separator for e-chains®		
unassembled		410
assembled		420

● 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

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

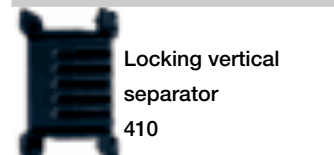
Width X [mm]	Part No. unassembled	Part No. assembled
075	420.75	421.75
088	420.88	421.88
100	420.100	421.100
125	420.125	421.125
150	420.150	421.150
175	420.175	421.175
187	420.187	421.187
200	420.200	421.200



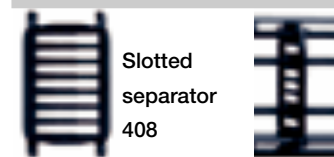
Side plate 402



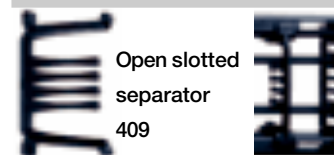
Middle plate 403



Locking vertical separator 410



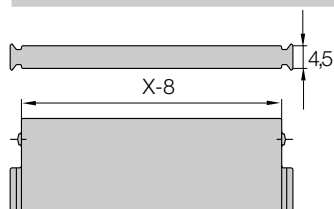
Slotted separator 408



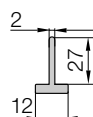
Open slotted separator 409



Shelf 420.X

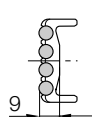


Additional elements for interior separation



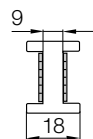
Center crossbar		
unassembled		405
assembled		415

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.

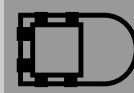


Roller separator		
unassembled		429
assembled		430

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

System E4/00
Inner height: 56 mm

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

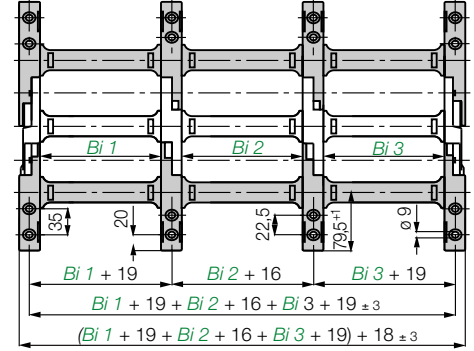




Part No. structure
400.10 /20 /10. 200.0
400.Bi1/Bi2/Bi3. R.0

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

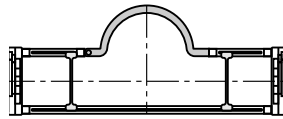
- For applications in which particularly high fill weights necessitate extremely wide e-chains® (up to 3000 mm)
- The extension link design allows virtually limitless side-by-side attachment of chains
- The unsupported length of a chain can be increased when additional loads are required
- Extension 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



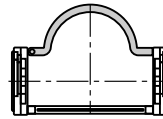
Consult igus® for your extender crossbar applications. We are happy to assist you with your design layout

Extender crossbars - careful guide of hoses applications

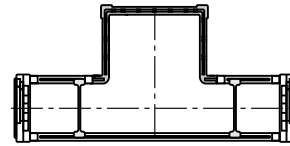
- Suitable for hoses with a maximum outer diameter of 245 mm
- Gliding operation with crossbars assembled along the outer radius and a special guide trough
- Gliding operation not guaranteed with crossbars assembled along the inner radius
- The extender crossbar can either be attached to the side links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



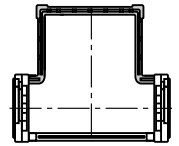
Round extender crossbar with snap-open crossbars



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	□	-	+

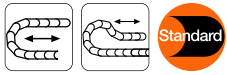
○ = round □ = square + = yes / - = no



E4 snapclip

- 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



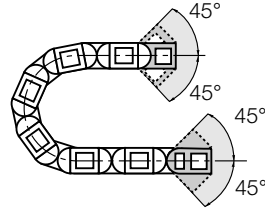
The Standard - Option KMA* - pivoting

- 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
- Universally mountable with attachment capability on all sides

*KMA = Polymer Metal Mounting Bracket

Moving end

4000/8800...□.2

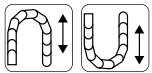
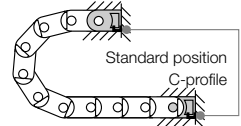


Fixed end

4000/8800...□.1



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



Option KMA - locking

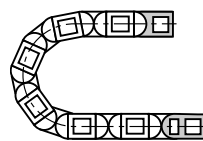
- Recommended for vertical hanging / standing applications

Additionally:

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

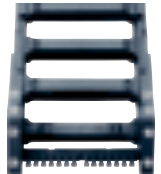
Moving end

4100/8900...□.2

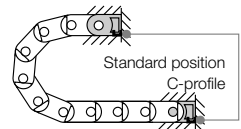


Fixed end

4100/8900...□.1

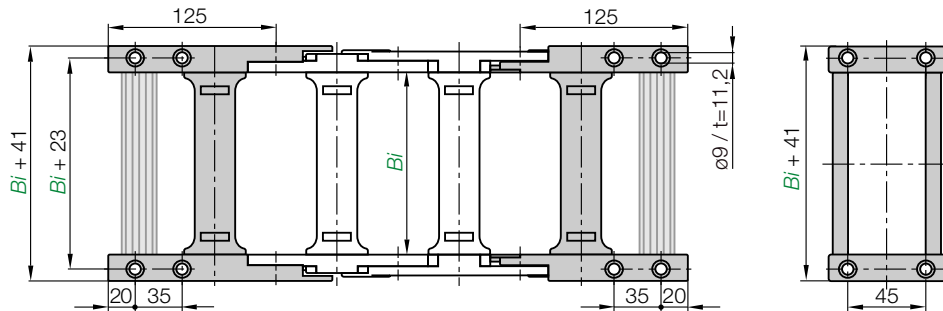


The attachment variants arising automatically by the choice of the KMA mounting bracket



Fixed end
4000/8800...□.1 (pivoting)
4100/8900...□.1 (locking)

Moving end
(pivoting) 4000/8800...□.2
(locking) 4100/8900...□.2

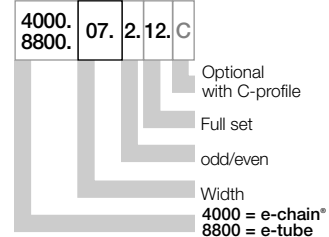


Width index	Part No. full set pivoting	Part No. full set locking	C-profile Bi option [mm]	Width index	Part No. full set pivoting	Part No. full set locking	C-profile Bi option [mm]
.05.	4000	4100	.05.□.12.□ 50	.31.	4000	4100	.31.□.12.□ 312
.06.	4000	4100	.06.□.12.□ 65	.32.	4000	4100	.32.□.12.□ 325
.07.	4000/8800	4100/8900	.07.□.12.□ 75	.33.	4000	4100	.33.□.12.□ 337
.08.	4000	4100	.08.□.12.□ 87	.35.	4000/8800	4100/8900	.35.□.12.□ 350
.10.	4000/8800	4100/8900	.10.□.12.□ 100	.36.	4000	4100	.36.□.12.□ 362
.11.	4000	4100	.11.□.12.□ 112	.37.	4000	4100	.37.□.12.□ 375
.12.	4000/8800	4100/8900	.12.□.12.□ 125	.38.	4000	4100	.38.□.12.□ 387
.13.	4000	4100	.13.□.12.□ 137	.40.	4000/8800	4100/8900	.40.□.12.□ 400
.15.	4000/8800	4100/8900	.15.□.12.□ 150	.41.	4000	4100	.41.□.12.□ 412
.16.	4000	4100	.16.□.12.□ 162	.42.	4000	4100	.42.□.12.□ 425
.17.	4000/8800	4100/8900	.17.□.12.□ 175	.43.	4000	4100	.43.□.12.□ 437
.18.	4000	4100	.18.□.12.□ 187	.45.	4000	4100	.45.□.12.□ 450
.20.	4000/8800	4100/8900	.20.□.12.□ 200	.46.	4000/8800	4100/8900	.46.□.12.□ 462
.21.	4000	4100	.21.□.12.□ 212	.47.	4000	4100	.47.□.12.□ 475
.22.	4000	4100	.22.□.12.□ 225	.48.	4000	4100	.48.□.12.□ 487
.23.	4000	4100	.23.□.12.□ 237	.50.	4000	4100	.50.□.12.□ 500
.25.	4000/8800	4100/8900	.25.□.12.□ 250	.51.	4000	4100	.51.□.12.□ 512
.26.	4000	4100	.26.□.12.□ 262	.52.	4000	4100	.52.□.12.□ 525
.27.	4000/8800	4100/8900	.27.□.12.□ 275	.53.	4000	4100	.53.□.12.□ 537
.28.	4000	4100	.28.□.12.□ 287	.55.	4000	4100	.55.□.12.□ 550
.30.	4000/8800	4100/8900	.30.□.12.□ 300	.60.	4000	4100	.60.□.12.□ 600

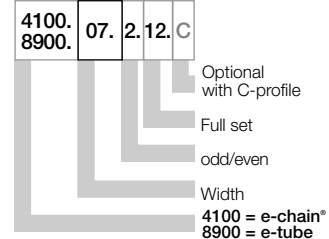
Please insert **1** for odd number of links or **2** for even number of links

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:

4000. 05. 2. 12. □ C (even)

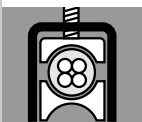
Single-part order:

4000. 05. 2. 2. □ C (even)

Mounting bracket moving end

4000. 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 the 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**

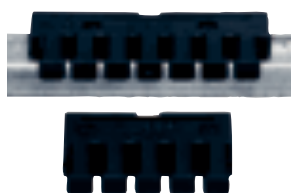
Cable ø [mm]	Part No. clamp	Part No. bottom part
04 - 08	CFC-08-M	CFC-08-C
08 - 12	CFC-12-M	CFC-12-C
12 - 16	CFC-16-M	CFC-16-C
16 - 20	CFC-20-M	CFC-20-C
20 - 24	CFC-24-M	CFC-24-C



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**

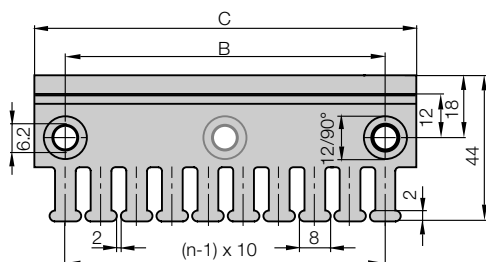
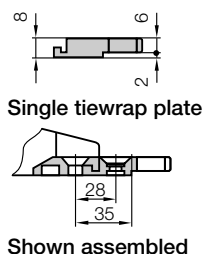
Part No.	Width of strain relief [mm]	Number of teeth
3050.ZC	50	5
3075.ZC	75	7



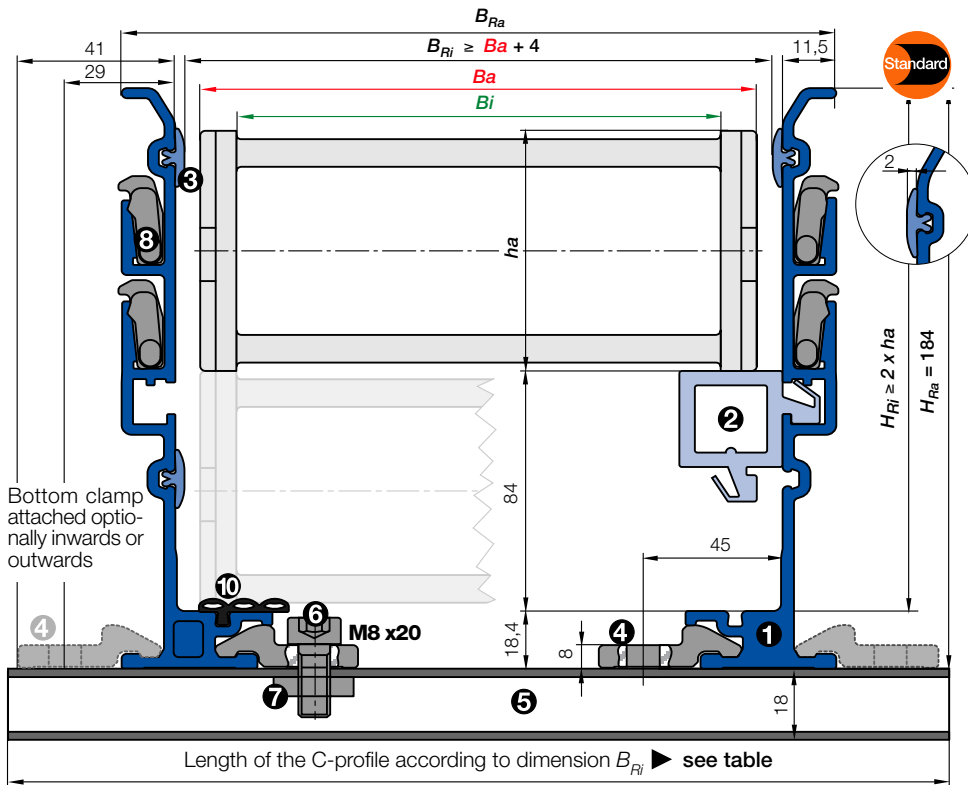
Tiewrap plate as individual part

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

400.05.200.0 ▶ Order example

	B_{Ri} [mm]	Part No.	
		attached inwards	attached outwards
.05	88	-	960.50.225
.06	103	-	960.50.225
.07	113	-	960.50.250
.08	125	960.50.175	960.50.250
.10	138	960.50.200	960.50.275
.11	151	960.50.200	960.50.275
.12	163	960.50.225	960.50.300
.13	176	960.50.225	960.50.300
.15	188	960.50.250	960.50.325
.16	201	960.50.250	960.50.325
.17	213	960.50.275	960.50.350
.18	226	960.50.275	960.50.350
.20	238	960.50.300	960.50.375
.21	251	960.50.300	960.50.375
.22	263	960.50.325	960.50.400
.23	276	960.50.325	960.50.400
.25	288	960.50.350	960.50.425
.26	301	960.50.350	960.50.425
.27	313	960.50.375	960.50.450
.28	326	960.50.375	960.50.450
.30	338	960.50.400	960.50.475
.31	351	960.50.400	960.50.475
.32	363	960.50.425	960.50.500
.33	376	960.50.425	960.50.500
.35	388	960.50.450	960.50.525
.36	401	960.50.450	960.50.525
.37	413	960.50.475	960.50.550
.38	426	960.50.475	960.50.550
.40	438	960.50.500	960.50.575
.41	451	960.50.500	960.50.575
.42	463	960.50.525	960.50.600
.43	476	960.50.525	960.50.600
.45	488	960.50.550	960.50.625
.46	501	960.50.550	960.50.625
.47	513	960.50.575	960.50.650
.48	526	960.50.575	960.50.650
.50	538	960.50.600	960.50.675
.51	551	960.50.600	960.50.675
.52	563	960.50.625	960.50.700
.53	576	960.50.625	960.50.700
.55	588	960.50.650	960.50.725
.60	638	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 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series 400.10.200.0 with $B_{Ri} = 138$

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)

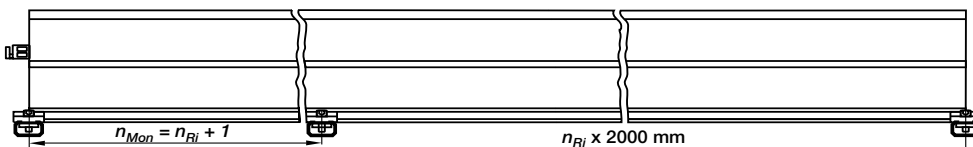
Order text: 17 installation sets "Basic" Part No. 960.50.200

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"

