



All-sides attachment

Noise dampening pads, optional
= -10dB(A)

NC without pretension

Lateral glide surfaces for side-mounted operation

25% faster assembly with QuickLock system

Very high capacity due to the undercut design

Notch crossbar with backside scaling

+ "Light Design", large inner height

When to use Series 14240·14340:

- If weight and price reduction as well as a compromise in strength is needed
- If an e-chain®/e-tube with an inner height of 62 mm is required
- If inner widths up to 400 mm are required
- For unsupported lengths up to 4,0 m and fill weights up to 40 kg/m
- For long travels up to 150 m
- Also suitable for side-mounted, vertical standing or hanging applications



When to use a different igus® Series

- If an extremely **low-noise** and low-vibration e-chain® is required (≤ 46 dB(A))
 - ▶ **Series E6.62, page 8.76**
- If larger unsupported lengths are required in side-mounted applications
 - ▶ **Series E4.56, page 7.78**
- If increased unsupported lengths and longer travels are required
 - ▶ **Series E4.56, page 7.78**
- If high fill weights and/or stiff cables and hoses are used
 - ▶ **Series 14040, page 7.164**
- If chip protection is necessary
 - ▶ **Series 18840, page 7.164**

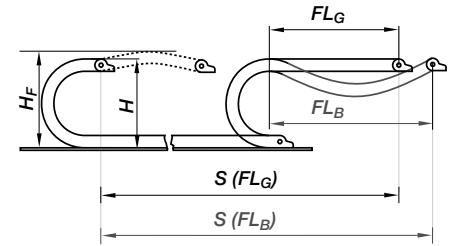
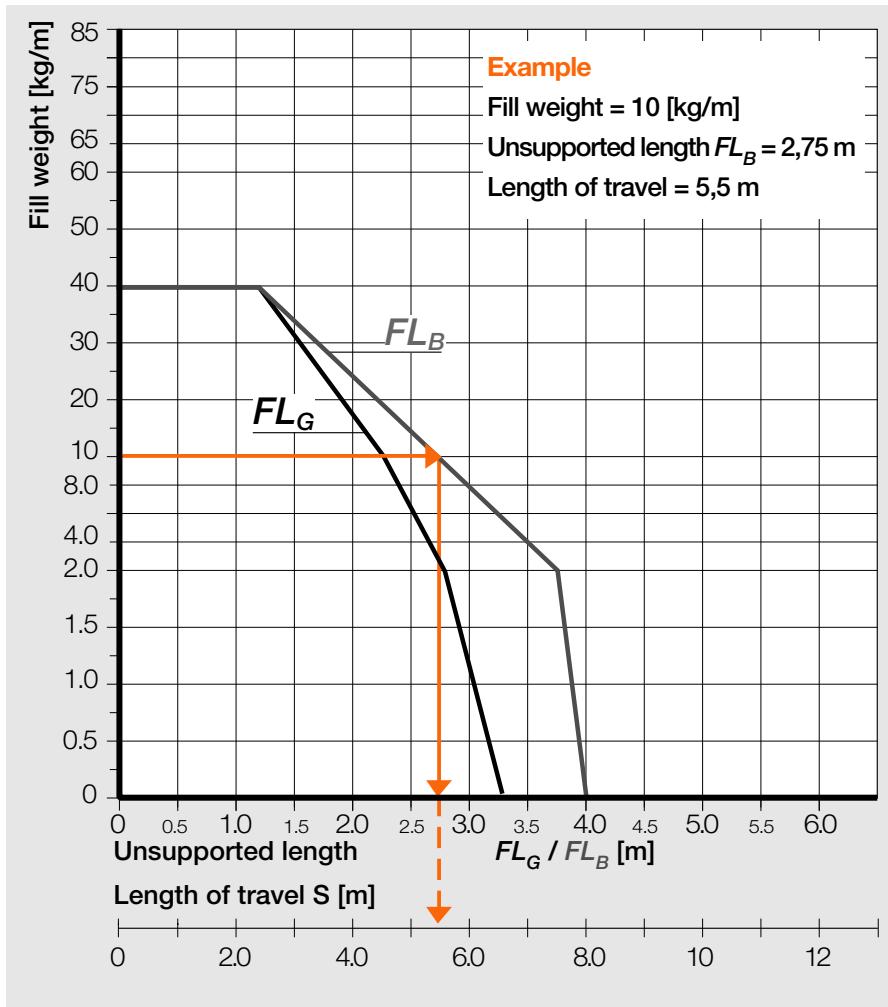


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/14240



Standard e-chain Unsupported applications

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. More information ► **Design, page 1.8**

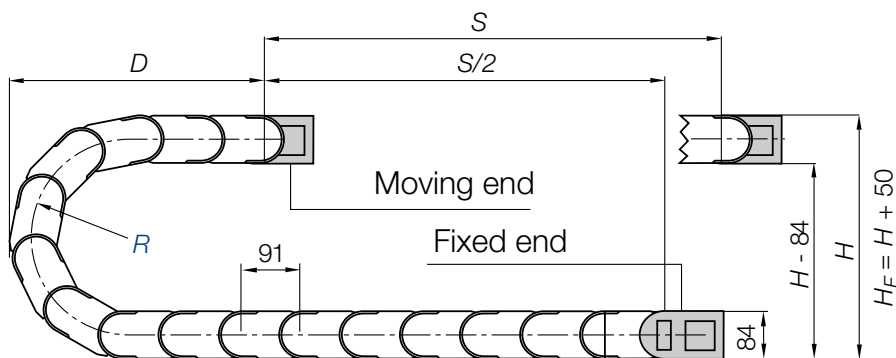
Gliding applications

Travels up to 150 m.
 More information ► **page 7.196**

Technical Data

Speed, material, temperature and flammability class ► **page 7.162**

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



R	135	150	175	200	250	300	400	500
H_{+25}^0	360	385	435	485	585	685	885	1085
D	270	285	310	335	385	435	535	635
K	650	750	825	900	1050	1225	1450	1775

The required clearance height: $H_F = H + 50$ mm (with 2,0 kg/m fill weight)

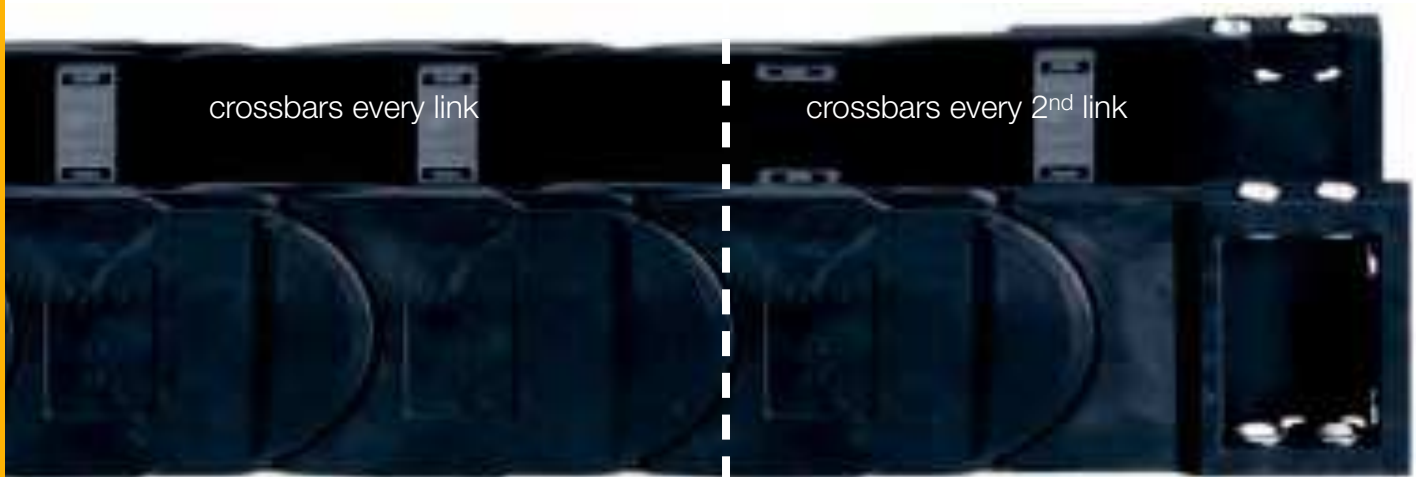


FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



e-chains® | Series 14240 crossbars every link | Series 14340 crossbars every 2nd link

Part No.		<i>Bi</i>	<i>Ba</i>	14240	14340	
crossbars every link	crossbars every 2 nd link	[mm]	[mm]	[kg/m]	[kg/m]	
14240.	14340. 05.	R.0	50	76	≈ 2,37	≈ 2,32
14240.	14340. 06.	R.0	68	94	≈ 2,40	≈ 2,33
14240.	14340. 07.	R.0	75	101	≈ 2,42	≈ 2,34
14240.	14340. 087.	R.0	87	114	≈ 2,47	≈ 2,36
14240.	14340. 10.	R.0	100	126	≈ 2,52	≈ 2,39
14240.	14340. 11.	R.0	108	134	≈ 2,55	≈ 2,40
14240.	14340. 112.	R.0	112	139	≈ 2,55	≈ 2,41
14240.	14340. 12.	R.0	125	151	≈ 2,62	≈ 2,44
14240.	14340. 137.	R.0	137	164	≈ 2,66	≈ 2,46
14240.	14340. 15.	R.0	150	176	≈ 2,72	≈ 2,49
14240.	14340. 162.	R.0	162	189	≈ 2,73	≈ 2,49
14240.	14340. 17.	R.0	168	194	≈ 2,79	≈ 2,52
14240.	14340. 18.	R.0	175	201	≈ 2,82	≈ 2,53
14240.	14340. 187.	R.0	187	214	≈ 2,84	≈ 2,55
14240.	14340. 20.	R.0	200	226	≈ 2,89	≈ 2,58
14240.	14340. 212.	R.0	212	239	≈ 2,95	≈ 2,60

Part No.		<i>Bi</i>	<i>Ba</i>	14240	14340	
crossbars every link	crossbars every 2 nd link	[mm]	[mm]	[kg/m]	[kg/m]	
14240.	14340. 23.	R.0	225	251	≈ 3,01	≈ 2,63
14240.	14340. 237.	R.0	237	264	≈ 3,04	≈ 2,65
14240.	14340. 25.	R.0	250	276	≈ 3,10	≈ 2,68
14240.	14340. 262.	R.0	262	289	≈ 3,11	≈ 2,69
14240.	14340. 28.	R.0	275	301	≈ 3,19	≈ 2,72
14240.	14340. 29.	R.0	287	314	≈ 3,20	≈ 2,73
14240.	14340. 30.	R.0	300	326	≈ 3,30	≈ 2,78
14240.	14340. 312.	R.0	312	339	≈ 3,31	≈ 2,79
14240.	14340. 325.	R.0	325	351	≈ 3,37	≈ 2,81
14240.	14340. 337.	R.0	337	364	≈ 3,40	≈ 2,83
14240.	14340. 350.	R.0	350	376	≈ 3,56	≈ 2,91
14240.	14340. 362.	R.0	362	389	≈ 3,61	≈ 2,93
14240.	14340. 375.	R.0	375	401	≈ 3,64	≈ 2,95
14240.	14340. 387.	R.0	387	414	≈ 3,69	≈ 2,97
14240.	14340. 400.	R.0	400	426	≈ 3,73	≈ 2,99

Available bending radii *R* [mm] 135 | 150 | 175 | 200 | 250 | 300 | 400 | 500

Supplement Part No. with required radius (*R*). Example: 14240.30.300.0

When to use e-chains® with crossbars every link: ● Lateral acceleration > 0,5m/s² ● High fill weights and rigid hydraulic hoses ● Humidity: > 85%, temperature: > 50°C (122° F)

When to use e-chains® with crossbars every 2nd link: ● Suitable for nearly all applications ● Lower price



Standard e-chains® incl. accessories from stock. **Delivery in 24h or today.***

*Delivery time means time until shipping of goods



With the space-saving igus® E4 Polymer e-chains® the overall dimension for the installation of this crane system was considerably reduced



Part No. of e-chain® links as single parts ► page 7.163

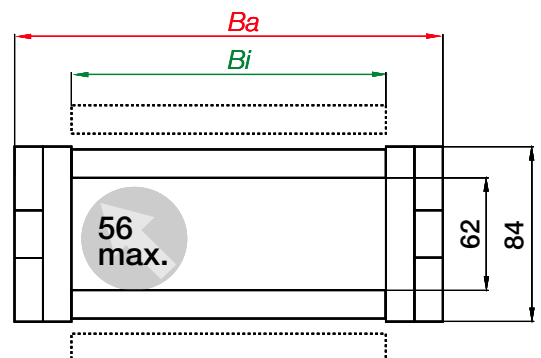


Order key for all types

14240. 30. 300. 0 e-chain® (crossbars every link)
14340. 30. 300. 0 e-chain® (crossbars every 2nd link)



Dimensioning



14240.30.300.0 = e-chain® with **crossbars every link**, inner width Bi 300 mm, radius R 300 mm, color black
14340.30.300.0 = e-chain® with **crossbars every 2nd link**, inner width Bi 300 mm, radius R 300 mm, color black
 More order examples, variations and configurations ► page 7.198



QuickLock crossbars | Quick opening - up to 25% faster assembly

Part No.	QuickLock crossbar for				<i>Bi</i>		
crossbars every link	crossbars every 2 nd link	Inner radius	Outer radius	Both radii	[mm]		
14240.14340.	10	QZ.R.0	10	QE.R.0	10	Q.R.0	100
14240.14340.	11	QZ.R.0	11	QE.R.0	11	Q.R.0	108
14240.14340.	112	QZ.R.0	112	QE.R.0	112	Q.R.0	112
14240.14340.	12	QZ.R.0	12	QE.R.0	12	Q.R.0	125
14240.14340.	137	QZ.R.0	137	QE.R.0	137	Q.R.0	137
14240.14340.	15	QZ.R.0	15	QE.R.0	15	Q.R.0	150
14240.14340.	162	QZ.R.0	162	QE.R.0	162	Q.R.0	162
14240.14340.	17	QZ.R.0	17	QE.R.0	17	Q.R.0	168
14240.14340.	18	QZ.R.0	18	QE.R.0	18	Q.R.0	175
14240.14340.	187	QZ.R.0	187	QE.R.0	187	Q.R.0	187
14240.14340.	20	QZ.R.0	20	QE.R.0	20	Q.R.0	200
14240.14340.	212	QZ.R.0	212	QE.R.0	212	Q.R.0	212
14240.14340.	23	QZ.R.0	23	QE.R.0	23	Q.R.0	225
14240.14340.	237	QZ.R.0	237	QE.R.0	237	Q.R.0	237
14240.14340.	25	QZ.R.0	25	QE.R.0	25	Q.R.0	250
14240.14340.	262	QZ.R.0	262	QE.R.0	262	Q.R.0	262

Part No.	QuickLock crossbar for				<i>Bi</i>		
crossbars every link	crossbars every 2 nd link	Inner radius	Outer radius	Both radii	[mm]		
14240.14340.	28	QZ.R.0	28	QE.R.0	28	Q.R.0	275
14240.14340.	29	QZ.R.0	29	QE.R.0	29	Q.R.0	287
14240.14340.	30	QZ.R.0	30	QE.R.0	30	Q.R.0	300
14240.14340.	312	QZ.R.0	312	QE.R.0	312	Q.R.0	312
14240.14340.	325	QZ.R.0	325	QE.R.0	325	Q.R.0	325
14240.14340.	337	QZ.R.0	337	QE.R.0	337	Q.R.0	337
14240.14340.	350	QZ.R.0	350	QE.R.0	350	Q.R.0	350
14240.14340.	362	QZ.R.0	362	QE.R.0	362	Q.R.0	362
14240.14340.	375	QZ.R.0	375	QE.R.0	375	Q.R.0	375
14240.14340.	387	QZ.R.0	387	QE.R.0	387	Q.R.0	387
14240.14340.	400	QZ.R.0	400	QE.R.0	400	Q.R.0	400

QuickLock crossbars: inner widths from 100 mm possible!

Available bending radii *R* [mm] | 135 | 150 | 175 | 200 | 250 | 300 | 400 | 500

Supplement Part No. with required radius (*R*). Example: 14240.30QZ.300.0



For e-chains® with **QuickLock crossbar** supplement Part No. with required Index **QZ / QE / Q**

Part No. 14240.30QZ.300.0 = QuickLock crossbar for inner radius

Part No. 14240.30QE.300.0 = QuickLock crossbar for outer radius

Part No. 14240.30Q .300.0 = QuickLock crossbar for both radii



e-chain® with QuickLock crossbars - Delivery time: 3-5 work days.*

*Delivery time means time until shipping of goods

...-10 dB(A)

depends on environmental conditions,
similar to figure

...NC-Version



Noise dampening | ≈ -10 dB(A)

With pads		<i>Bi</i>	With pads		<i>Bi</i>
crossbars every link	crossbars every 2nd link	[mm]	crossbars every link	crossbars every 2nd link	[mm]
S14240.	S14340. 05.	R.0 50	S14240.	S14340. 23.	R.0 225
S14240.	S14340. 06.	R.0 68	S14240.	S14340. 237.	R.0 237
S14240.	S14340. 07.	R.0 75	S14240.	S14340. 25.	R.0 250
S14240.	S14340. 087.	R.0 87	S14240.	S14340. 262.	R.0 262
S14240.	S14340. 10.	R.0 100	S14240.	S14340. 28.	R.0 275
S14240.	S14340. 11.	R.0 108	S14240.	S14340. 29.	R.0 287
S14240.	S14340. 112.	R.0 112	S14240.	S14340. 30.	R.0 300
S14240.	S14340. 12.	R.0 125	S14240.	S14340. 312.	R.0 312
S14240.	S14340. 137.	R.0 137	S14240.	S14340. 325.	R.0 325
S14240.	S14340. 15.	R.0 150	S14240.	S14340. 337.	R.0 337
S14240.	S14340. 162.	R.0 162	S14240.	S14340. 350.	R.0 350
S14240.	S14340. 17.	R.0 168	S14240.	S14340. 362.	R.0 362
S14240.	S14340. 18.	R.0 175	S14240.	S14340. 375.	R.0 375
S14240.	S14340. 187.	R.0 187	S14240.	S14340. 387.	R.0 387
S14240.	S14340. 20.	R.0 200	S14240.	S14340. 400.	R.0 400
S14240.	S14340. 212.	R.0 212			



NC-Version | Without pretension

NC-Version		<i>Bi</i>	NC-Version		<i>Bi</i>
crossbars every link	crossbars every 2nd link	[mm]	crossbars every link	crossbars every 2nd link	[mm]
14240.	14340. 05.	R.0.NC 50	14240.	14340. 23.	R.0.NC 225
14240.	14340. 06.	R.0.NC 68	14240.	14340. 237.	R.0.NC 237
14240.	14340. 07.	R.0.NC 75	14240.	14340. 25.	R.0.NC 250
14240.	14340. 087.	R.0.NC 87	14240.	14340. 262.	R.0.NC 262
14240.	14340. 10.	R.0.NC 100	14240.	14340. 28.	R.0.NC 275
14240.	14340. 11.	R.0.NC 108	14240.	14340. 29.	R.0.NC 287
14240.	14340. 112.	R.0.NC 112	14240.	14340. 30.	R.0.NC 300
14240.	14340. 12.	R.0.NC 125	14240.	14340. 312.	R.0.NC 312
14240.	14340. 137.	R.0.NC 137	14240.	14340. 325.	R.0.NC 325
14240.	14340. 15.	R.0.NC 150	14240.	14340. 337.	R.0.NC 337
14240.	14340. 162.	R.0.NC 162	14240.	14340. 350.	R.0.NC 350
14240.	14340. 17.	R.0.NC 168	14240.	14340. 362.	R.0.NC 362
14240.	14340. 18.	R.0.NC 175	14240.	14340. 375.	R.0.NC 375
14240.	14340. 187.	R.0.NC 187	14240.	14340. 387.	R.0.NC 387
14240.	14340. 20.	R.0.NC 200	14240.	14340. 400.	R.0.NC 400
14240.	14340. 212.	R.0.NC 212			

Available bending radii *R* [mm] 135 | 150 | 175 | 200 | 250 | 300 | 400 | 500

Supplement Part No. with required radius (*R*). Example: S14240.30.300.0 or 14240.30.300.0.NC



For e-chains® with noise dampening pads supplement Part No. with required index "S"

Example: Part No. S14240.30.300.0 = e-chain® (crossbars every link) with noise dampening

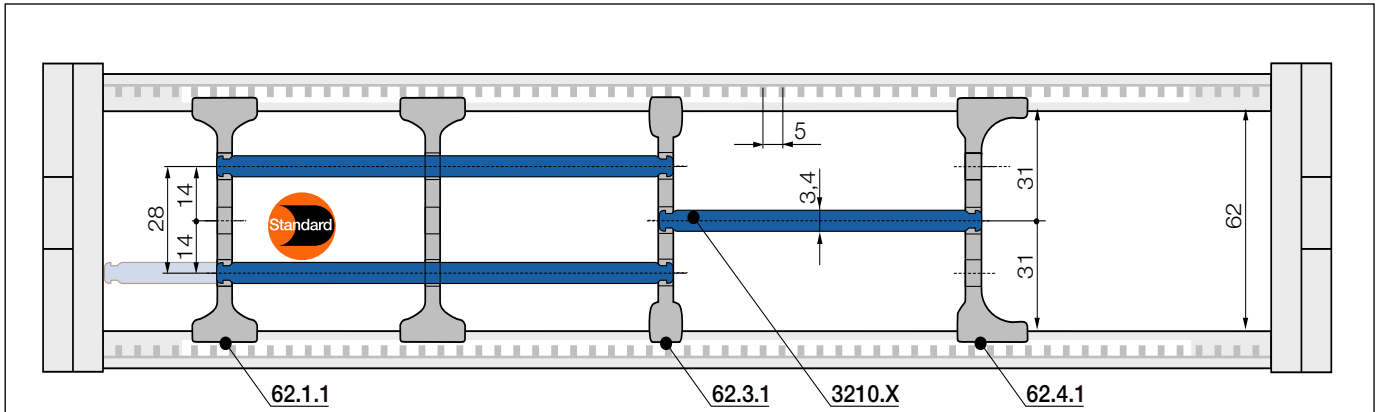
For NC-e-chains® without pretension supplement Part No. with required index "NC"

Example: Part No. 14240.30.300.0.NC = e-chain® (crossbars every link) without pretension


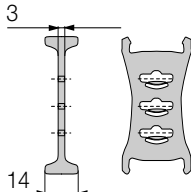


Low-noise e-chain® and NC-Version - Delivery time: 3-5 workdays*

*Delivery time means time until shipping of goods


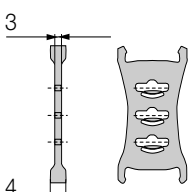


Note: No lateral spacing to side links necessary!
In the standard configuration separators are assembled every 2nd e-chain® link!

Standard separator, wide base
unassembled **62.1**
assembled **62.1.1**


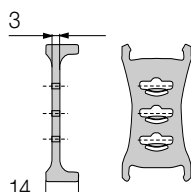
Standard - for all applications
Separator with a wide base for maximum locking strength and safe standing in e-chains®.

Separator, narrow base*
unassembled **62.3**
assembled **62.3.1**

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

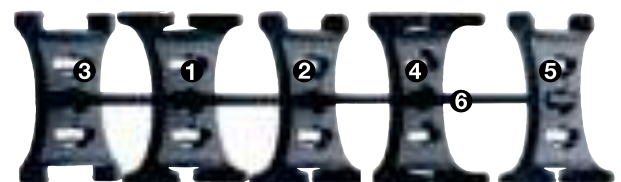
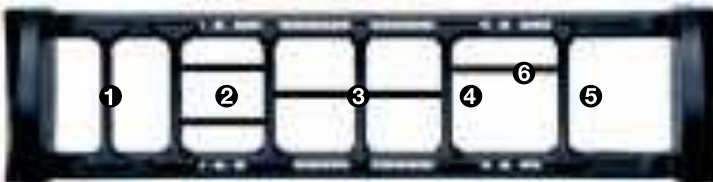
*available upon request. Delivery time: approx. 1-2 weeks after receipt of order

Asymmetrical separator*
unassembled **62.4**
assembled **62.4.1**

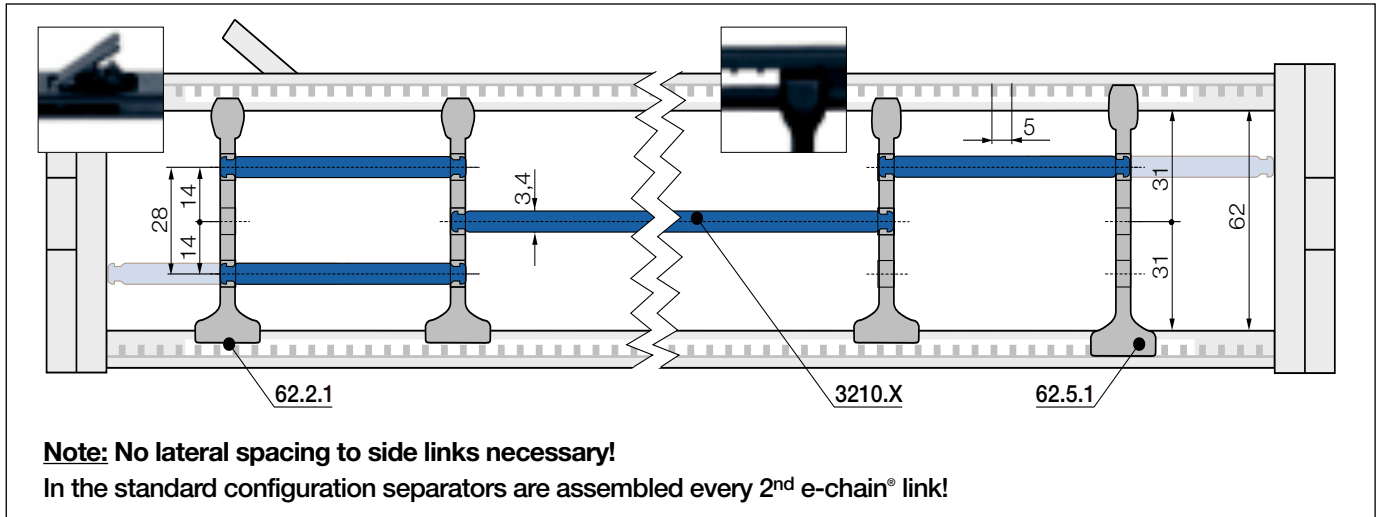
For side-mounted applications
Asymmetrical separator, for defined distance. No additional spacers necessary for e-chains®.

*available upon request. Delivery time: approx. 1-2 weeks after receipt of order



- ① Standard separator, wide base - Part No. 62.1
- ② Separator for QuickLock crossbar - Part No. 62.2
- ③ Separator, narrow base - Part No. 62.3
- ④ Separator, asymmetrical - Part No. 62.4
- ⑤ Notch separator - Part No. 62.5
- ⑥ Full-width self, lockable - Part No. 3200.XX

New generation interior separation



Separator for QuickLock crossbar*
unassembled **62.2**
assembled **62.2.1**

For even faster installation

Separator for igus® QuickLock crossbar 385.X.Q. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).

Notch separator for notch crossbar*
unassembled **62.5**
assembled **62.5.1**

Locks safely onto in 5 mm increments

Notch separator for the new notch crossbar, with scaling on the notch crossbars. For exact positioning in e-chains®. Recommended for side-mounted applications.

*available upon request. Delivery time: approx. 1-2 weeks after receipt of order

Full-width shelf, lockable
unassembled **3200.X**
assembled **3210.X**

Horizontal separation

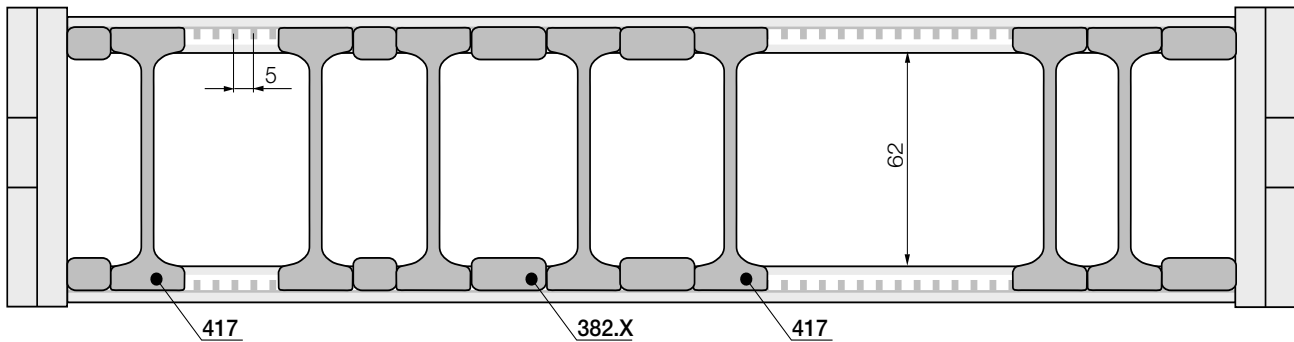
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 3 levels.



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
100	3200.100	3210.100	175	3200.175	3210.175			
115	3200.115	3210.115	200	3200.200	3210.200			

Option 1 | Separators and spacers* (*side-mounted applications)



Note: No lateral spacing to side links necessary!

In the standard configuration separators are assembled every 2nd e-chain® link!

		Separator for e-chains® unassembled 407 assembled 417
		Spacer* for e-chains® unassembled 381.XX assembled 382.XX

Separator 407

For a vertical subdividing. Offers safe stability due to its wide base design, also when used with thick cables or hoses.

Spacer* 381.XX

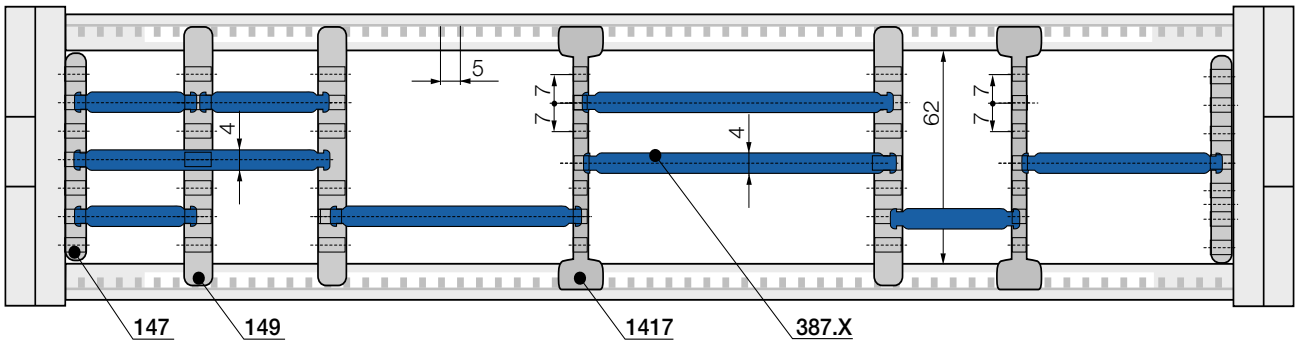
Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar. (not for long travel applications). **XX = width of the spacer** (please choose between 10, 15, 20 mm).

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	386.18	387.18	050	386.50	387.50	108	386.108	387.108
023	386.23	387.23	054	386.54	387.54	125	386.125	387.125
025	386.25	387.25	062	386.62	387.62	150	386.150	387.150
028	386.28	387.28	075	386.75	387.75	175	386.175	387.175
033	386.33	387.33	087	386.87	387.87	200	386.200	387.200
043	386.43	387.43	100	386.100	387.100	208	386.208	387.208


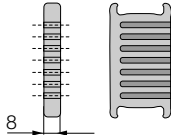
Previous interior separation All elements can still be ordered ► www.igus.de/en/14540

Option 2 | Shelves




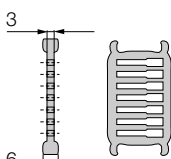
Note: No lateral spacing to side links necessary!

In the standard configuration separators are assembled every 2nd e-chain® link!

		Middle plate for e-chains® unassembled 148 assembled 149
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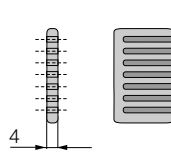
Middle plate 148

Middle plates form the basic pattern of a shelf system. Shelves 386.X (table left page) can be arranged at 7 different heights (in 7 mm increments).

		Slotted separator for e-chains® unassembled 1407 assembled 1417
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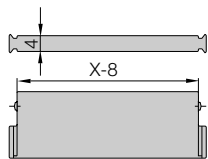
Slotted separator 1407

For very fine subdivisions. However, they cannot be retro-fitted into an existing separation system without dismantling the interior separators first.

		Side plate for e-chains® unassembled 146 assembled 147
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Side plate 146

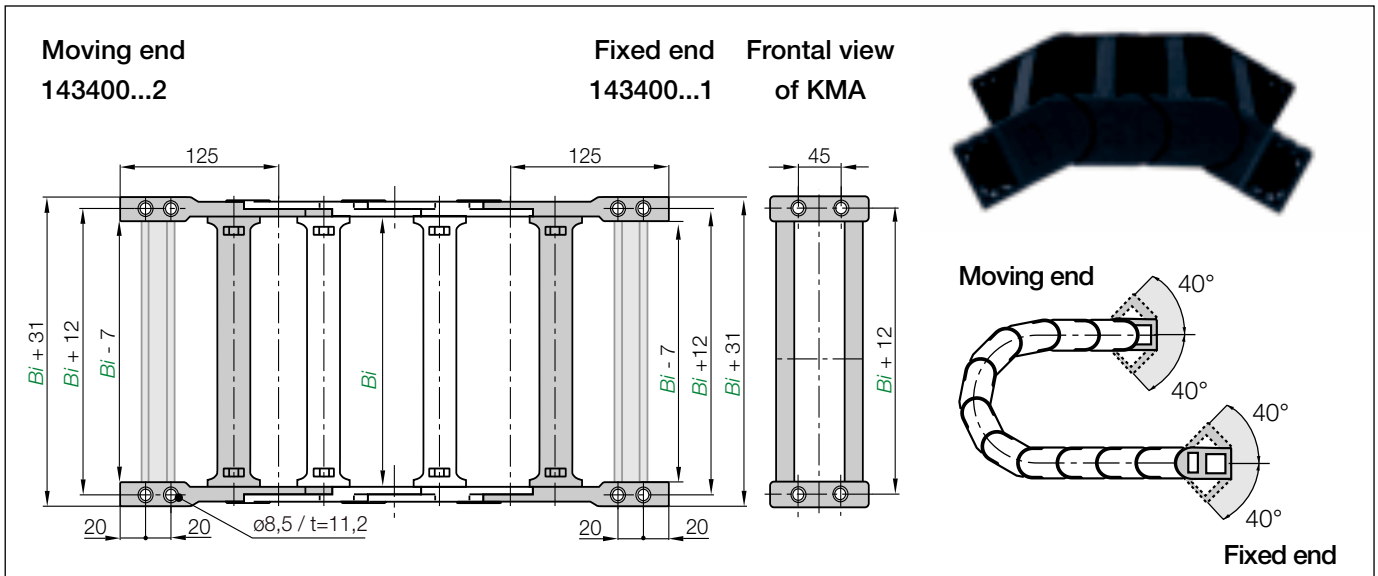
Works like middle plate.
Allows modular shelving close to the side links.

		Shelf (18-149 mm) unassembled 386.X assembled 387.X
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Shelf 386.X

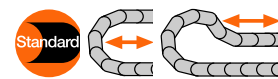
For horizontal separation. Shelves of various widths can be arranged at 7 different heights (in 7 mm increments).

For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment. Recommended for unsupported and gliding applications

Width index	Part No. full set pivoting (+ C-profile option)	Bi [mm]	Width index	Part No. full set pivoting (+ C-profile option)	Bi [mm]
05.	▶ 143400. 05. 12.C	50	23.	▶ 143400. 23. 12.C	225
06.	▶ 143400. 06. 12.C	68	237.	▶ 143400. 237. 12.C	237
07.	▶ 143400. 07. 12.C	75	25.	▶ 143400. 25. 12.C	250
087.	▶ 143400. 087. 12.C	87	262.	▶ 143400. 262. 12.C	262
10.	▶ 143400. 10. 12.C	100	28.	▶ 143400. 28. 12.C	275
11.	▶ 143400. 11. 12.C	108	29.	▶ 143400. 29. 12.C	287
112.	▶ 143400. 112. 12.C	112	30.	▶ 143400. 30. 12.C	300
12.	▶ 143400. 12. 12.C	125	312.	▶ 143400. 312. 12.C	312
137.	▶ 143400. 137. 12.C	137	325.	▶ 143400. 325. 12.C	325
15.	▶ 143400. 15. 12.C	150	337.	▶ 143400. 337. 12.C	337
162.	▶ 143400. 162. 12.C	162	350.	▶ 143400. 350. 12.C	350
17.	▶ 143400. 17. 12.C	168	362.	▶ 143400. 362. 12.C	362
18.	▶ 143400. 18. 12.C	175	375.	▶ 143400. 375. 12.C	375
187.	▶ 143400. 187. 12.C	187	387.	▶ 143400. 387. 12.C	387
20.	▶ 143400. 20. 12.C	200	400.	▶ 143400. 400. 12.C	400
212.	▶ 143400. 212. 12.C	212			



- Standard
- For tight installation conditions
- Option: integrated chainfix strain relief with C-profile
- Corrosion resistant
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting)

143400.30.12.C



Single-part order:

Mounting bracket **Moving end**

143400.30.2.C

Mounting bracket **Fixed end**

143400.30.1.C

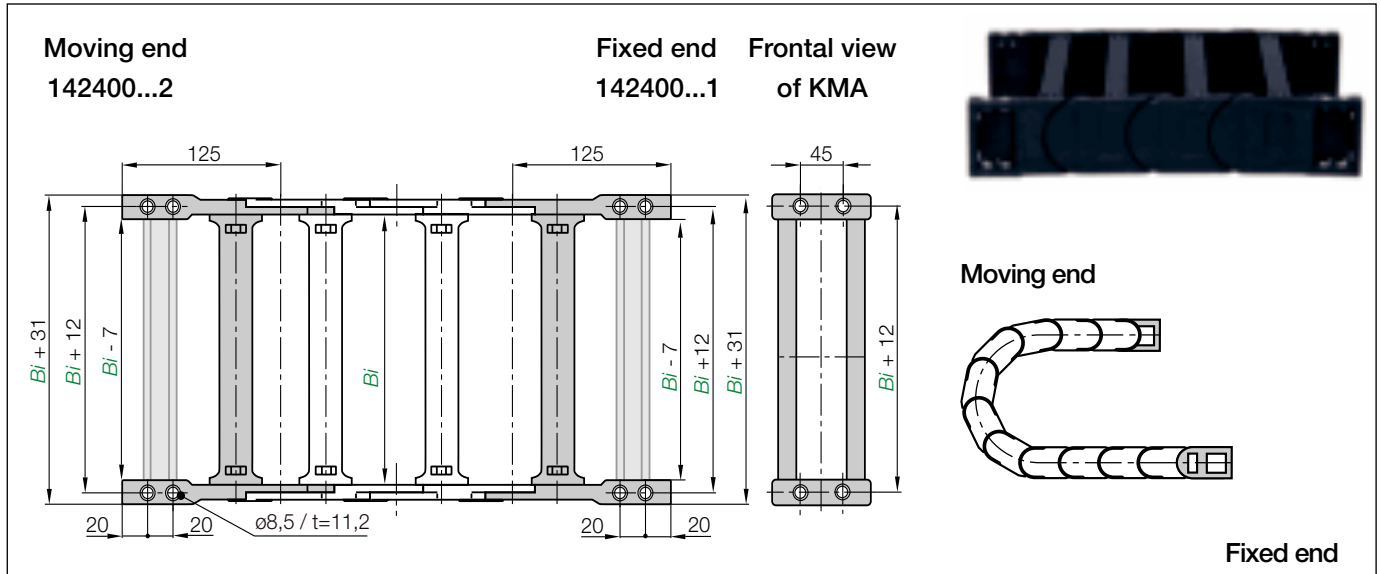


Strain relief, e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

E4/light | 14240-14340 | KMA mounting brackets locking

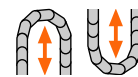
14240
14340

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment. Recommended for vertical hanging and standing applications

Width index	Part No. full set locking (+ C-profile option)	Bi [mm]	Width index	Part No. full set locking (+ C-profile option)	Bi [mm]
05.	▶ 142400. 05. 12.C	50	23.	▶ 142400. 23. 12.C	225
06.	▶ 142400. 06. 12.C	68	237.	▶ 142400. 237. 12.C	237
07.	▶ 142400. 07. 12.C	75	25.	▶ 142400. 25. 12.C	250
087.	▶ 142400. 087. 12.C	87	262.	▶ 142400. 262. 12.C	262
10.	▶ 142400. 10. 12.C	100	28.	▶ 142400. 28. 12.C	275
11.	▶ 142400. 11. 12.C	108	29.	▶ 142400. 29. 12.C	287
112.	▶ 142400. 112. 12.C	112	30.	▶ 142400. 30. 12.C	300
12.	▶ 142400. 12. 12.C	125	312	▶ 142400. 312. 12.C	312
137.	▶ 142400. 137. 12.C	137	325.	▶ 142400. 325. 12.C	325
15.	▶ 142400. 15. 12.C	150	337.	▶ 142400. 337. 12.C	337
162.	▶ 142400. 162. 12.C	162	350.	▶ 142400. 350. 12.C	350
17.	▶ 142400. 17. 12.C	168	362	▶ 142400. 362. 12.C	362
18.	▶ 142400. 18. 12.C	175	375.	▶ 142400. 375. 12.C	375
187.	▶ 142400. 187. 12.C	187	387.	▶ 142400. 387. 12.C	387
20.	▶ 142400. 20. 12.C	200	400.	▶ 142400. 400. 12.C	400
212.	▶ 142400. 212. 12.C	212			



- Locked connections
- At high acceleration
- Universally mountable
- C-profile option
- Corrosion resistant
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking)

142400.30.12.C



Single-part order:

Mounting bracket **Moving end**

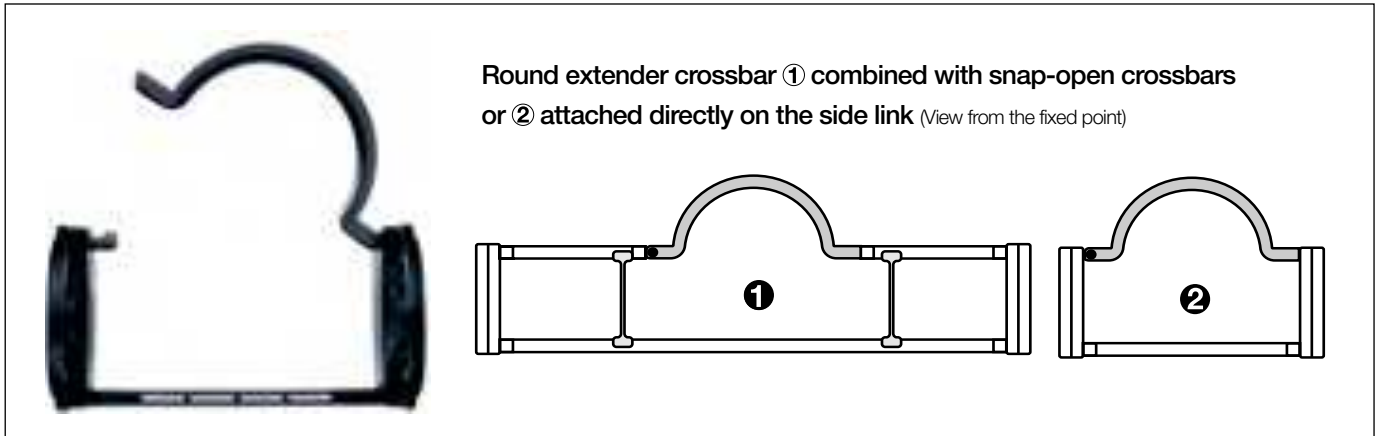
142400.30.2.C

Mounting bracket **Fixed end**

142400.30.1.C



Strain relief, e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



Extender crossbars | careful guide of hoses applications

- Suitable for hoses with a maximum outer diameter of 115 mm
- Gliding with crossbars assembled along outer radius and a special guide trough
- Extender crossbar ① for snap-open crossbars or ② attached directly on the side link

Part No. single part	Max Ø [mm] hose	Form	② Installation on side link	① Combination with snap-open crossbars
385.15.RHD115	115	○ round	no	yes
385.18.RD115	115	○ round	yes	no



Order examples - extender crossbar

① Combination with snap-open crossbars

RHD115 for outer radius "E" incl. e-chain®:

14240.10/15RHE115/10.R.0

RHD115 for inner radius "Z" incl. e-chain®:

14240.10/15RHZ115/10.R.0

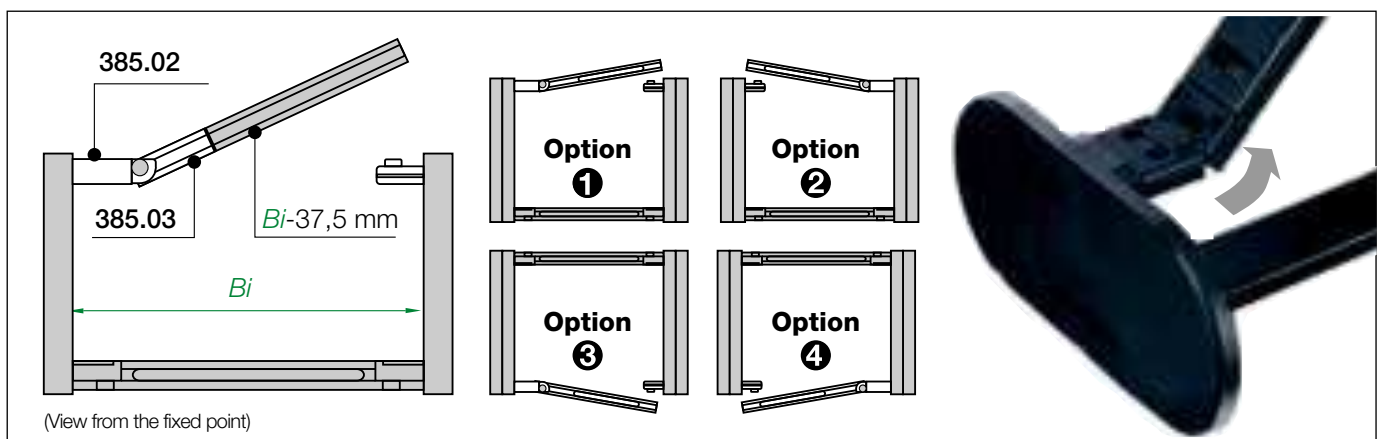
② Installation on side link

RD115 for outer radius "E" incl. e-chain®:

14240.18RDE115.R.0

RD115 for inner radius "Z" incl. e-chain®:

14240.18RDZ115.R.0



Hinged crossbars

- Typically e-chain® crossbars are completely removable. For cases where the snap-open crossbars have to remain at the open link of the e-chain®, a hinged design has been developed
- Please consult igus® for design assistance
- **Hinged crossbar: Part No. 385.02**
Snap-open crossbar (shortened): *Bi*-37,5 mm Part No. **385.03**
(smallest inner width *Bi* = 87,5)



Order example (here: inner width *Bi* 150)

14240.15.Z.R.0 =

14240.15.01.R.0

Supplement Index "Z" with required option number ①, ②, ③ or ④



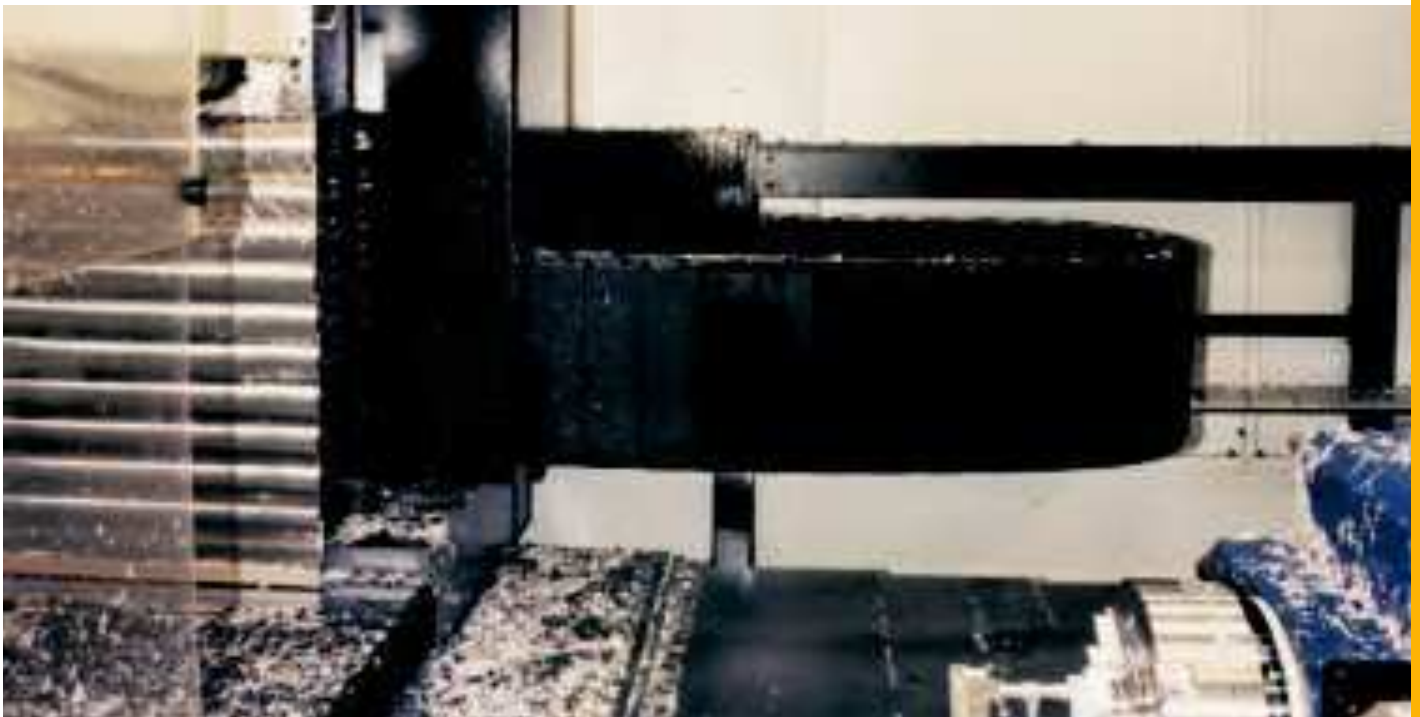
Strain relief system

Clamps, tiwrap plates, nuggets and plug-in clips. The complete chainfix range with many order options ► **from page 10.1**

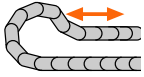


Support tray tool kit

For support of the lower run. Simple one-piece support trays according to your requirements and specification ► **from page 9.70**

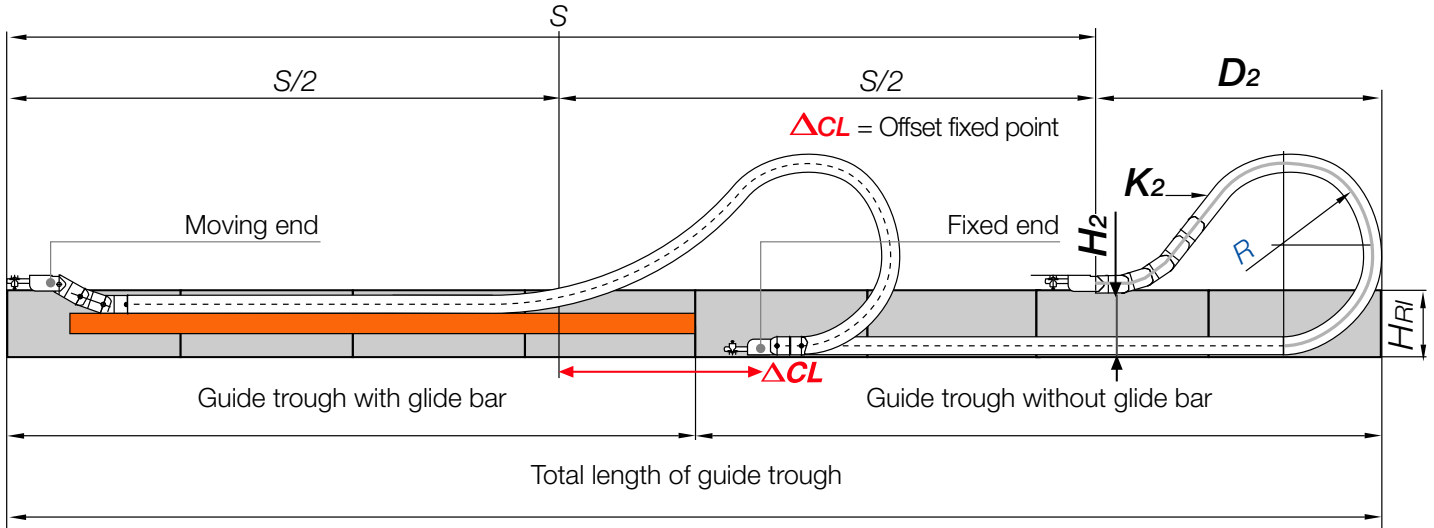


Series R188 for side-mounted applications - chip-proof e-tube from the E4 assembly kit on a machine tool here



Gliding applications | For long travels from 12 m to max. 250 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. For travels more than 100 m we recommend to realize the engineering of such a plant by our technicians. **In case of travels between 9 and 12 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



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

R	135	150	175	200	250	300	400	500
H ₂	266	266	266	266	266	266	266	266
D ₂ ⁺²⁵	390	450	550	710	920	1120	1530	1850
K ₂	728	819	1001	1274	1638	1911	2548	3185
ΔCL	124	159	209	359	509	659	959	1159



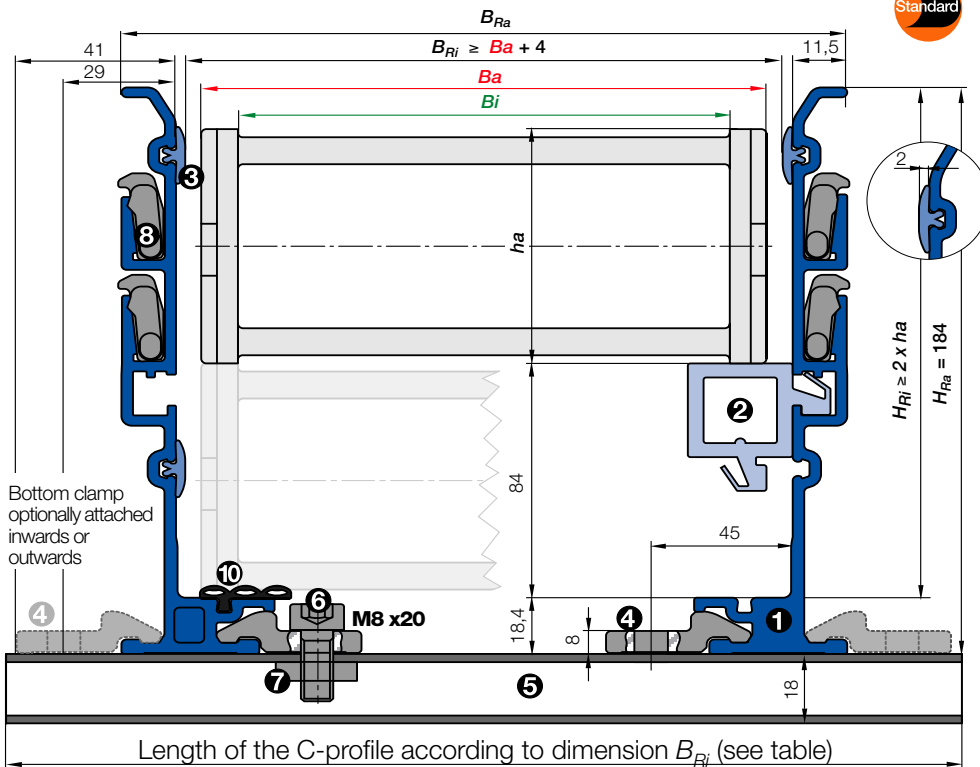
The complete range of special solutions for long travel applications incl. order function ► from page 9.76



H₂ = Mounting height (if the moving end is set lower) K₂ = Further add-on (if the moving end is set lower) ΔCL = Offset fixed point S = Length of travel
D₂ = Over length - long travels, gliding R = Bending radius H_{Ri} = Inner trough height S/2 = Half length of travel

Part No. 974.30.SL | 974.31.SL | Trough height: 184 mm
Aluminum "SuperTrough" | Basic Version

14240
14340



Installation set "Basic" with C-Profile

Bottom clamp optionally attached inwards or outwards

14240.30.300.0 ▶ Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.05	80	-
.06	98	-
.07	105	-
.087	118	960.50.175
.10	130	960.50.200
.11	138	960.50.200
.112	143	960.50.200
.12	155	960.50.225
.137	168	960.50.225
.15	180	960.50.250
.162	193	960.50.250
.17	198	960.50.250
.18	205	960.50.275
.187	218	960.50.275
.20	230	960.50.300
.212	243	960.50.300
.23	255	960.50.325
.237	268	960.50.325
.25	280	960.50.350
.262	293	960.50.350
.28	305	960.50.375
.29	318	960.50.375
.30	330	960.50.400
.312	343	960.50.400
.325	355	960.50.425
.337	368	960.50.425
.350	380	960.50.450
.362	393	960.50.450
.375	405	960.50.475
.387	418	960.50.475
.400	430	960.50.500

- **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, galvanized steel ▶ table ⑥ Screw M8 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series 14240.30.300.0 with $B_{Ri} = 330$

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

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

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

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)

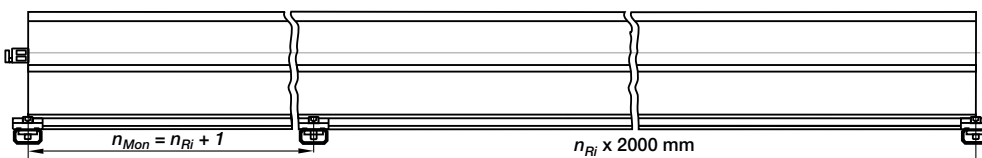
Order text: 17 installation sets **Part No. 960.50.400**

Module for the fixed end ▶ page 9.16

Order text: 1 set **Part No. 974.81**

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

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

Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ▶ from page 9.34

- Trough set
- Installation set
- Glide bar
- C-Profile
- B_a = Outer width e-chains*
- B_i = Inner width e-chains*
- B_{Ri} = Inner trough width
- B_{Ra} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- n_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

E4/light | Series 14240·14340 | Options and order key



Standard

Additional noise dampening with pads

QuickLock crossbar - reduce assembly time up to 25%

Part No.
Standard
e-chains®/e-tubes



Part No.
Low noise (with pads)
e-chains®/e-tubes



Part No.
QuickLock crossbar
for inner radius



Part No.
QuickLock crossbar
for outer radius

Part No.
QuickLock crossbar
for both radii

QuickLock crossbars: inner widths from *Bi* 100 mm!



14240.30.R.0

Crossbar every link

S14240.30.R.0

Crossbar every link

14240.30QZ.R.0

Crossbar every link

14240.30QE.R.0

Crossbar every link

14240.30Q.R.0

Crossbar every link

14340.30.R.0

Crossbar every 2nd link

S14340.30.R.0

Crossbar every 2nd link

14340.30QZ.R.0

Crossbar every 2nd link

14340.30QE.R.0

Crossbar every 2nd link

14340.30Q.R.0

Crossbar every 2nd link



**Delivery in
24h or today!***

**Delivery time:
3-5 work days**

**Delivery time:
3-5 work days**

**Delivery time:
3-5 work days**

**Delivery time:
3-5 work days**

Combination possibilities | Examples

	Low-noise option	QuickLock crossbar	NC-Version	RBR-Version	XXL-Material	ESD-Material
Low-noise option		S14240.30Q.R.0	S14240.30.R.0.NC	-	S14240.30.R.0.XXL	S14240.30.R.0.ESD
QuickLock crossbar	S14240.30Q.R.0		14240.30Q.R.0.NC	14240.30Q.R1/R2.0	14240.30Q.R.0.XXL	14240.30Q.R.0.ESD
NC-Version	S14240.30.R.0.NC	14240.30Q.R.0.NC		-	-	14240.30.R.0.ESD.NC
RBR-Version	-	14240.30Q.R1/R2.0	-		-	14240.30.R1/R2.0.ESD
XXL-Material	S14240.30.R.0.XXL	14240.30Q.R.0.XXL	-	-		-
ESD-Material	S14240.30.R.0.ESD	14240.30Q.R.0.ESD	14240.30.R.0.ESD.NC	14240.30.R1/R2.0.ESD	-	-


*for gliding applications please consult igus®

E4/light | Series 14240·14340 | Options and order key

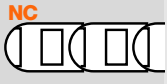
NC-Version -
(no camber)
without pretension

Reverse bending
radius for circular
movements

Unsupported
lengths +25%
possible

ATEX/ESD classi-
fied e-chains® -
 II 2 GD

Part No.
NC-Material
e-chains®/e-tubes



14240.30.R.0.NC

Crossbar every link

14340.30.R.0.NC

Crossbar every 2nd link

Delivery time:
3-5 work days

Part No.
RBR
e-chains®/e-tubes



14240.30.R1/R2.0

Crossbar every link

14340.30.R1/R2.0

Crossbar every 2nd link

Delivery time:
10 work days

(2-5 work days with
express surcharge)

Part No.
XXL-Material**
e-chains®/e-tubes



14240.30.R.0.XXL

Crossbar every link

14340.30.R.0.XXL

Crossbar every 2nd link

Delivery time:
1-2 weeks

**Sidebands made from
XXL-Material

Part No.
ESD-Material
e-chains®/e-tubes



14240.30.R.0.ESD

Crossbar every link

14340.30.R.0.ESD

Crossbar every 2nd link

Delivery time:
5 work days

Order example | Order key and color options

 **Order example for complete e-chain® (3,0 m, with crossbars every link), color black, mounting brackets with C-profiles and interior separation:**

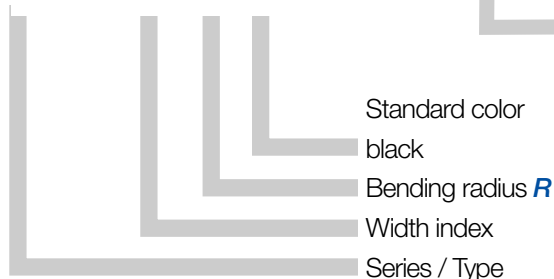
e-chain® (3,0 m) Please indicate e-chain® length or number of links: 3,0 m or 33 links **14240.30.300.0**

+ **Mounting brackets** 1 set (with integrated C-profiles) **143400.30.12.C**

+ **Interior separation** with 2 separators assembled every 2nd link **2 x 417**

Order text: 3,0 m 14240.30.300.0 + 143400.30.12.C + 2 x Part No. 417

 **Order key**
14240.30.300.0



Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains® from stock! *Colored e-chains® can delivered in 15 work days (5 work days at an express surcharge).

 **Available from stock. Delivery in 24h or today!***

*Delivery time means time until shipping of goods