

Price index



Series E4.32 Series H4.32 Series R4.32



Low noise version
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 E4.32/H4.32/R4.32:

- If a low-noise version is required
- At very high speeds and/or accelerations
- For long travels
- For high additional loads



When not to use it:

- When an extremely low vibration E-Chain® is required
- ▶ Series E6.35, page 8.50
- When a one-sided snap open E-Chain®/E-Tube is required for economic reasons
- ▶ Series 2600/2650/2680/2700, page 5.114

- 1 Straight run through inner-/outer-link design
- 2 Low-noise operation through integrated brake in the radial stop dog system
- 3 By the undercut design, very high stiffening and carrying capacity when shear forces are at work
- 4 15% more tensile strength (compared to the best old E4 series), better unsupported length through improved stop dog system and vertical radial stops
- 5 Crossbar available for faster assembly/disassembly - 385.X.Q
- 6 New Interior separation kit available
- 7 Version NC "without pretension" simply by turning outer links without rework possible
- 8 Crossbars are removable along both radii
- 9 Hinged snap-open removable lids - E-Tube
- 10 Wide, rounded plastic crossbars - cable friendly
- 11 Optimized glide pads - long service life
- 12 Smooth outline, dirt repellent
- 13 Strain relief with strain relief separators in the mounting bracket are available



Order example complete E-Chain®

Please indicate chain-lengths or number of links **Example: 4 m or 72 links**

4 m **E4.32.30.300.0**

E-Chain®

with 2 separators **282** assembled every 2nd link

Interior separation

1 set **E4.320.30.1.12.C**

Mounting bracket

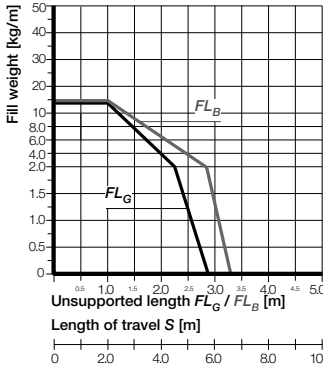
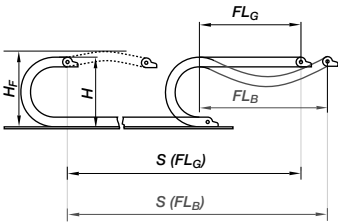


Unsupported length

FL_G = with straight upper run

FL_B = with permitted sag

Further information ► **Design, page 1.12**

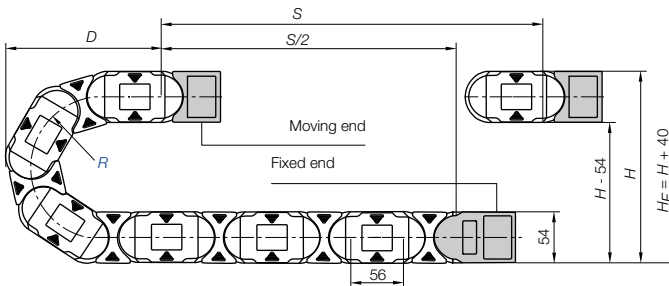


- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- H_F = Required clearance height
- H_{Ri} = Trough inner height
- D = Overlength E-Chain® radius in final position
- $K = \pi \cdot R + \text{"safety"}$
- D_2 = Over length - long travels, gliding
- K_2 = *Further add-on
- H_2 = *Mounting height

*If the mounting bracket location is set lower

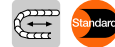
Other installation methods

- Vertical, hanging ≤ 80 m
- Vertical, standing ≤ 5 m
- Side mounted, un supp. $\leq 1,5$ m
- Rotary requires further calculation
- Unsupported length of upper run = upon request



Pitch = 56 mm/link Links/m = 18 (1008 mm) Chain length = $S/2 + K$

R	063	075	100	125	150	175	200	220	250	300
H_{+20}	180	204	254	304	354	404	454	494	554	654
D	146	158	183	208	233	258	283	303	333	383
K	310	350	430	505	585	665	745	805	900	1055
H_2	180	204	166	166	166	166	166	166	166	166
D_{+25}	146	158	370	470	500	655	770	900	930	1100
K_2	310	350	616	784	896	1120	1288	1456	1568	1904

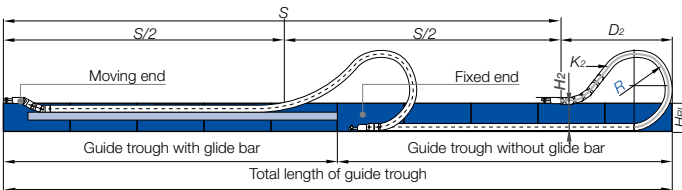


Short travels - unsupported

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 10 m to max. 200 m Chain length = $S/2 + K_2$



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



Gliding, long travel applications (max. 200 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.

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

Technical Data



Details of material properties
► **page 1.38**

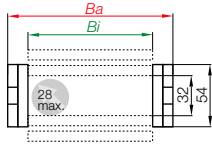
For support of the lower run - Support Tray tool kit available ► page 9.70

System E4.1
Inner height: 32 mm

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► page 7.15



Part No. structure

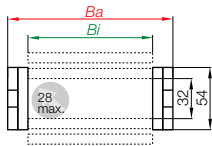
E4.32. 30. 300. 0



Series E4.32 - E-Chain® with crossbars every link



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

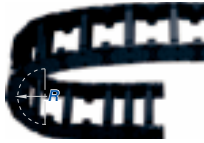


Part No. structure

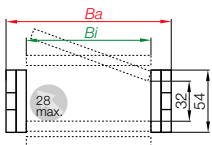
H4.32. 20. 300. 0



Series H4.32 - E-Chain® with crossbars every 2nd link



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



Part No. structure

R4.32. 30. 300. 0



Series R4.32 - Fully enclosed E-Tube



- Fully enclosed
- Excellent cable protection against dirt
- Protection against hot chips
- 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.



Part No.	<i>Bi</i> [mm]	<i>Ba</i> [mm]	E4.32 [kg/m]	H4.32 [kg/m]	R4.32 [kg/m]
E4.32/H4.32/R4.32.05.	50	73	1,567	1,425	2,450
E4.32/H4.32.06.	68	91	1,697	1,490	-
E4.32/H4.32/R4.32.07.	75	98	1,730	1,507	2,570
E4.32/H4.32.087.	87	110	1,803	1,543	-
E4.32/H4.32/R4.32.10.	100	123	1,886	1,584	2,650
E4.32/H4.32/R4.32.11.	108	131	1,942	1,612	2,760
E4.32/H4.32.112.	112	136	1,956	1,619	-
E4.32/H4.32/R4.32.12.	125	148	2,069	1,676	2,850
E4.32/H4.32.137.	137	161	2,122	1,702	-
E4.32/H4.32/R4.32.15.	150	173	2,212	1,747	3,010
E4.32/H4.32.162.	162	186	2,240	1,762	-
E4.32/H4.32/R4.32.17.	168	191	2,323	1,803	3,210
E4.32/H4.32.18.	175	198	2,345	1,814	-
E4.32/H4.32.187.	187	211	2,392	1,837	-
E4.32/H4.32/R4.32.20.	200	223	2,518	1,900	3,410
E4.32/H4.32.212.	212	236	2,568	1,925	-
E4.32/H4.32.23.	225	248	2,669	1,976	-
E4.32/H4.32.237.	237	261	2,698	1,990	-
E4.32/H4.32/R4.32.25.	250	273	2,834	2,059	3,860
E4.32/H4.32.262.	262	286	2,917	2,100	-
E4.32/H4.32.28.	275	298	2,989	2,136	-
E4.32/H4.32.29.	287	311	3,023	2,153	-
E4.32/H4.32/R4.32.30.	300	323	3,151	2,217	4,250
E4.32/H4.32.312.	312	336	3,175	2,229	-
E4.32/H4.32.325.	325	348	3,277	2,280	-
E4.32/H4.32.337.	337	361	3,338	2,311	-
E4.32/H4.32.350.	350	373	3,565	2,424	-
E4.32/H4.32.362.	362	386	3,662	2,473	-
E4.32/H4.32.375.	375	398	3,735	2,509	-
E4.32/H4.32.387.	387	411	3,803	2,543	-
E4.32/H4.32.400.	400	423	3,868	2,575	-

*Removable lid only, no hinged option · **not available for R4.32

Available bending radii

R [mm] **063*** **075*** **100*** 125 150 175 200 220 250 300

Supplement Part No. with required radius. Example: E4.32.30.**300**.0

0 = standard color, other colors ▶ page 1.39 · Pitch: 56 mm/link - Links/m = 18



Order-key for further options and versions for this series ▶ page 7.46

System E4.1

Inner height: 32 mm

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Extender crossbar for large diameter hoses ▶ page 7.42



▶ page 7.15

Single crossbar, E-Chain®, Part No. 385.Bi

Single lid, E-Tube, Part No. 775.Bi

Outer side link, single part Part No. E4.32.01
(suitable for all radii)

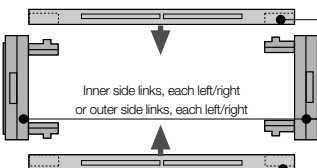
Inner side link, single part Part No. E4.32.02. **R**

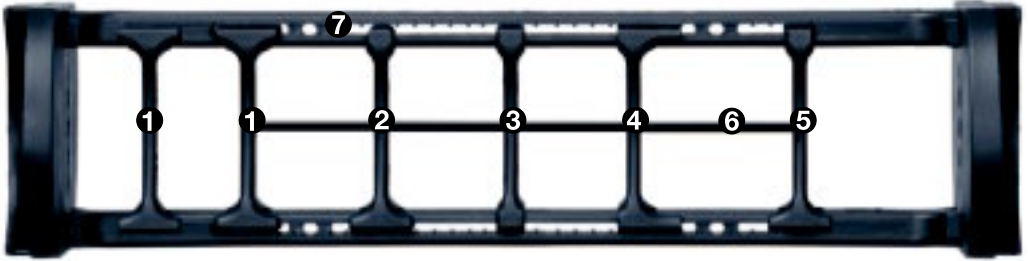
Single bottom, E-Tube, Part No. 776.Bi

Part No. E-Chain® links, single parts

Inner side link

Outer side link





Optimized and extended interior separation range for Series E4.32. Wear optimized geometry with a high locking strength. The very cable friendly design increases your cables cycle life even further. Universally suitable for E-Chains® and E-Tubes, 1x slotted!

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- ① Standard Separator, wide foot - Part. No. 32.1
- ② Separator for QuickLock crossbar - Part. No. 32.2
- ③ Narrow separator - Part. No. 32.3
- ④ Asymmetric separator - Part. No. 32.4
- ⑤ Notch separator - Part. No. 32.5

Realize a better separation with fewer, standardized parts

- Optimized and extended interior separation range
- The very cable friendly design increases your cables cycle life even further
- Same separation for E-Chains® and E-Tubes
- Safe force closure connection
- Cable friendly plastic crossbars, optimized for low cable wear and long cycle life
- Faster and easier assembly

igus® GmbH
51147 Cologne



⑥ Functionality - full-width shelf, lockable - Part. No. 3200.XX

⑥ For horizontal separation: Full-width shelf

- Shelf locks safely into separators on both ends through special locking clip
- Separators can be moved freely over the shelf in horizontal direction
- No side plates necessary
- Partial horizontal shelving possible



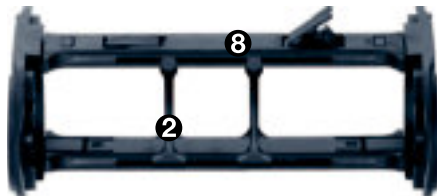
⑦ Standard* for all E4 crossbars and lids/bottoms: lock-in and scaling

*First few sizes available. Completion of the product range by the end of 2009

⑦ Notch crossbars, notch bottoms and lids

- No additional spacers necessary for side-mounted applications
- High locking strength of the separator in lock-in position
- Clearly visible, plane scaling
- Clearly notches and scaling on crossbars for E-Chains® and bottoms and lids of E-Tubes

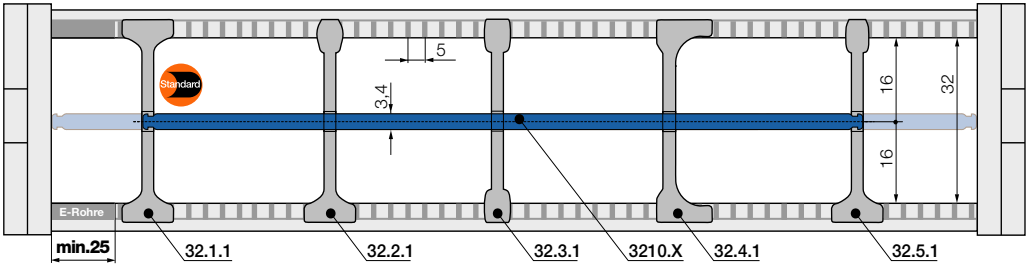
Internet: www.igus.eu
E-mail: info@igus.de



⑧ QuickLock crossbar, single part - Part No. 385.X.Q
(X = Inner width Bi E-Chains® / Q = QuickLock)

⑧ Optimized QuickLock crossbar

- One-click opening of the QuickLock crossbar = 25 % faster assembly compared to standard crossbars
 - Quick assembly/disassembly
 - Faster assembly with less effort
 - Free access to the top, E-Chain® can remain in the guide trough
- www.igus.de/en/E4schnelleMontage



In the standard configuration, a separator is mounted at every second chain link!

Note: Observe a lateral spacing of at least 25 mm (E-Tube)!

Standard - for all applications

① Separator with wide foot for maximum locking strength and safe standing in E-Chains® and E-Tubes

For even faster installation

② Separator for igus® ③ QuickLock crossbar 385.X.Q. Firm hold to one side with a wide foot, narrow on opposed side for easy cable assembly (slight grip)

For many thin cables

④ Separator with narrow feet for a large number of thin cables side by side. Saves space in E-Chains® and E-Tubes.

Fore side-mounted applications

⑤ Asymmetrical separator, for defined distance. No additional spacers necessary for E-Chains® and E-Tubes

Locks safely onto in 5 mm increments

⑥ Notch separator for ⑦ the new notch crossbar. With scaling on the notch crossbars. For exact positioning in E-Chains® and E-Tubes

Horizontal separation

⑧ Full-width shelf (Inner widths 50 - 250 mm). Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 1 level.

 3 12		Standard separator, wide foot unassembled 32.1 assembled 32.1.1	
 7 3 12		Separator for QuickLock crossbar unassembled 32.2 assembled 32.2.1	
 3 8		Separator, narrow foot unassembled 32.3 assembled 32.3.1	
 3 2.75 0.25 12		Asymmetrical separator unassembled 32.4 assembled 32.4.1	
 7 3 12		Notch separator unassembled 32.5 assembled 32.5.1	
 X-1		Full-width shelf, lockable unassembled 3200.X assembled 3210.X XX = Width - see table below!	

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► page 7.15

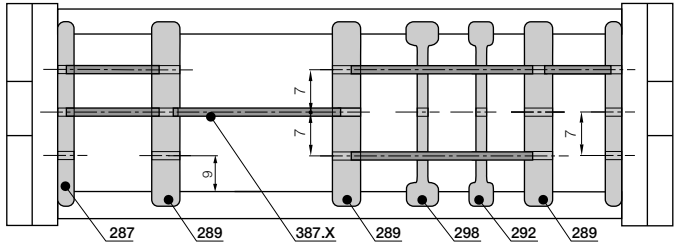
Width X [mm]	Part No. unassembled	Part No. assembled	Width X [mm]	Part No. unassembled	Part No. assembled
050	3200.050	3210.050	150	3200.150	3210.150
075	3200.075	3210.075	175	3200.175	3210.175
100	3200.100	3210.100	200	3200.200	3210.200
115	3200.115	3210.115	225	3200.225	3210.225
125	3200.125	3210.125	250	3200.250	3210.250



Interior separation configurator online ► www.igus.eu/iaconfigurator



Standard_02 - Proven and tested interior separation elements for special and extremely variable partitioning! For use with many cables of differing diameters. E-Chains® and E-Tubes can be subdivided both vertically and horizontally.



Split separator T323, to be split for shelf 386.X

Split separator for E-Chains®	
unassembled	T323
assembled	T323M



More proven interior separation elements

● **Split separator T323** - ideal for subsequent shelving or for the initial assembly of the E-Chain®. Fast assembly and disassembly possible through hinge/push mechanism. Saves assembly time. Enhances flexibility. (For Shelf 386.X).



Side plate 286

Side plate for E-Chains®/E-Tubes	
unassembled	286
assembled	287



● **Side plates 286, middle plates 288 und Shelves 386.X** form the basic pattern of a shelf system. Shelves of various widths can be arranged at 3 different heights (in 7 mm increments).



Middle plate 288

Middle plate for E-Chains®/E-Tubes	
unassembled	288
assembled	289



● For special applications: **Vertical separator with injection moulded shelf 281.S.57** (57,5 mm) or **281.S.45** (45 mm).



Slotted separator 291

Slotted separator for E-Chains®	
unassembled	291
assembled	292



● **Slotted separators 291** (not for E-Tubes), are used for very fine subdivisions. However, they cannot be retrofitted into an existing separation system without dismantling the interior separators first.



Open slotted separator 297

Open slotted separator for E-Chains®/E-Tubes	
unassembled	297
assembled	298



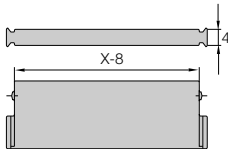
● The unilateral **open, slotted separator 297** can be retrofitted into an existing interior separation system without a need for dismantling the interior separators. During an installation of open slotted separators, the top and bottom notches cannot be occupied by shelves.



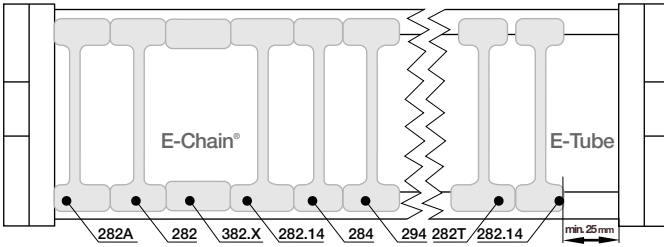
Shelf 386.X

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
075	386.75	387.75

Width X [mm]	Part No. unassembled	Part No. assembled
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
225	386.225	387.225



For new constructions, we recommend the new igus® interior separation kit
Previous interior separation - will continue to be available!



Vertical separators are used if a vertical subdivision is required. In the standard configuration, a separator is mounted at every second E-Chain® link. **Note:** Observe a lateral spacing of at least 25 mm (E-Tube)!

Vertical separators and spacers

● **Standard separator 281 for E-Chains®** offers safe stability due to its broad foot design, also when used with thick cables or hoses. If the distance needed between separators is greater than this separator's dimension, we offer the **Vertical separator 281.14**.

● **Standard separator 281 for E-Chains®** offers safe stability due to its broad foot design, also when used with thick cables or hoses. If the distance needed between separators is greater than this separator's dimension, we offer the **Vertical separator 281.14**.

● **Vertical separator 283 with a narrow foot for E-Chains®** 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 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).

● **Locking separator 293 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 (not for E-Tubes).

● **Asymmetric separator 281A for E-Chains®** (not for E-Tubes) with an 12-mm base, for combinations between spacers of different widths and vertical separators in side-mounted applications, for instance.

	Vertical separator for E-Chains®
	unassembled 281 assembled 282

	Vertical separator for E-Tubes
	unassembled 281T assembled 282T

	Vertical separator for E-Chains®/E-Tubes
	unassembled 281.14 assembled 282.14

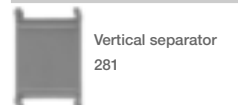
	Vertical separator for E-Chains®
	unassembled 283 assembled 284

	Spacer* for E-Chains®
	unassembled 381.XX assembled 382.XX

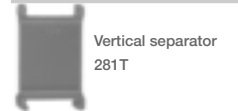
	Locking separator for E-Chains®
	unassembled 293 assembled 294

	Asymmetric separator for E-Chains®
	unassembled 281A assembled 282A

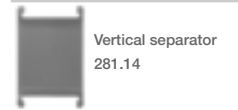
*For side-mounted applications



Vertical separator 281



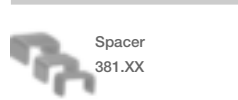
Vertical separator 281T



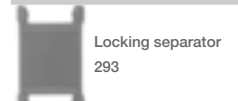
Vertical separator 281.14



Vertical separator 283



Spacer 381.XX



Locking separator 293



Asymmetric separator 281A

System E4.1
Inner height: 32 mm

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

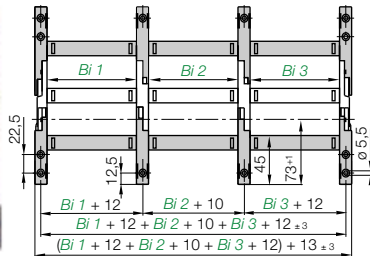
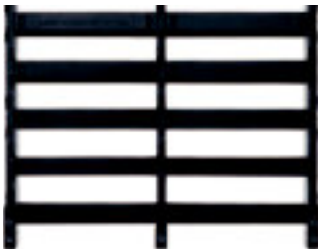
- For applications in which particularly high fill weights necessitate extremely wide E-Chains® (up to 3000 mm)
- The extension link design allows virtually limitless side-by-side attachment of chains
- The unsupported length of a chain can be increased when additional loads are required
- Extension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

E4.32.10 /20 /10. 200.0

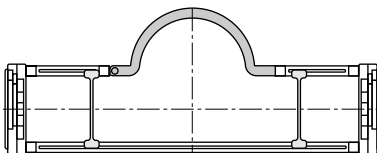
E4.32.Bi1/Bi2/Bi3. R.0



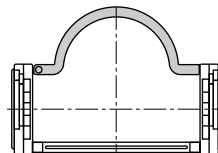
Consult igus® for your extender crossbar applications. We are happy to assist you with your design layout

Extender crossbars - careful guide of hoses applications

- Suitable for hoses with a maximum outer diameter of 105 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



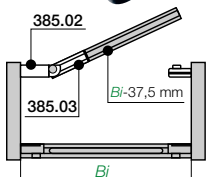
385.15RHD115 round extender crossbar combined with snap-open crossbars



385.18RD115 round strap attached directly on the side link

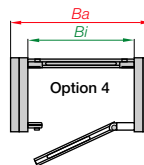
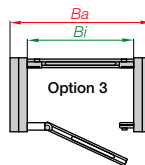
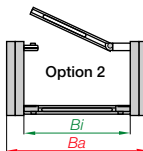
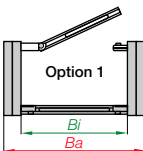
Part No.	Max Ø [mm] hose	Form	Installation side link	Combination with snap-open crossb.
385.15.RHD115	105	○	-	+
385.18.RD115	105	○	+	-

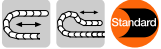
○ = round + = yes / - = no



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
- 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





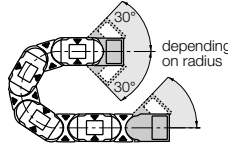
The Standard - Option KMA* - pivoting

- Recommended for unsupported and gliding applications
- Universal mountable with attachment capability on all sides
- Bolted connection outside of chain cross-section
- Confined installation conditions
- Corrosion resistant

*KMA = Polymer Metal Mounting Bracket

Moving end

E4.320/R4.320...□.2

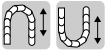
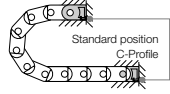


Fixed end

E4.320/R4.320...□.1



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



Option KMA - locking

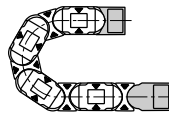
- Recommended for vertical hanging / standing applications

Additionally:

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

Moving end

E4.321/R4.321...□.2

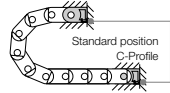


Fixed end

E4.321/R4.321...□.1



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



Fixed end

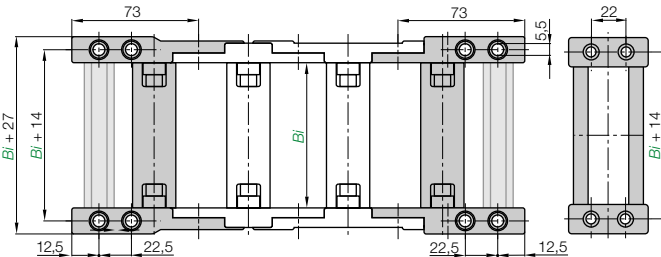
E4.320/R4.320...□.1 (pivoting)

E4.321/R4.321...□.1 (locking)

Moving end

(pivoting) E4.320/R4.320...□.2

(locking) E4.321/R4.321...□.2



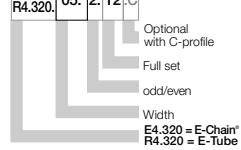
Width index	Part No. pivoting	Part No. locking	Bi (mm)	Width index	Part No. pivoting	Part No. locking	Bi (mm)
.05	E4/R4.320	E4/R4.321	.05 □.12 □ 50	.23	E4.320	E4.321	.23 □.12 □ 225
.06	E4.320	E4.321	.06 □.12 □ 68	.237	E4.320	E4.321	.237 □.12 □ 237
.07	E4/R4.320	E4/R4.321	.07 □.12 □ 75	.25	E4/R4.320	E4/R4.321	.25 □.12 □ 250
.087	E4.320	E4.321	.087 □.12 □ 87	.262	E4.320	E4.321	.262 □.12 □ 262
.10	E4/R4.320	E4/R4.321	.10 □.12 □ 100	.28	E4.320	E4.321	.28 □.12 □ 275
.11	E4/R4.320	E4/R4.321	.11 □.12 □ 108	.29	E4.320	E4.321	.29 □.12 □ 287
.112	E4.320	E4.321	.112 □.12 □ 112	.30	E4/R4.320	E4/R4.321	.30 □.12 □ 300
.12	E4/R4.320	E4/R4.321	.12 □.12 □ 125	.312	E4.320	E4.321	.312 □.12 □ 312
.137	E4.320	E4.321	.137 □.12 □ 137	.325	E4.320	E4.321	.325 □.12 □ 325
.15	E4/R4.320	E4/R4.321	.15 □.12 □ 150	.337	E4.320	E4.321	.337 □.12 □ 337
.162	E4.320	E4.321	.162 □.12 □ 162	.350	E4.320	E4.321	.350 □.12 □ 350
.17	E4/R4.320	E4/R4.321	.17 □.12 □ 168	.362	E4.320	E4.321	.362 □.12 □ 362
.18	E4.320	E4.321	.18 □.12 □ 175	.375	E4.320	E4.321	.375 □.12 □ 375
.187	E4.320	E4.321	.187 □.12 □ 187	.387	E4.320	E4.321	.387 □.12 □ 387
.20	E4/R4.320	E4/R4.321	.20 □.12 □ 200	.400	E4.320	E4.321	.400 □.12 □ 400
.212	E4.320	E4.321	.212 □.12 □ 212				

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

Dimensions and order configurations

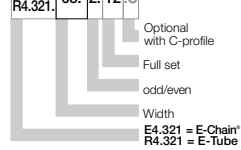
Part No. structure (pivoting)

E4.320, R4.320, 05, 2, 12, C



Part No. structure (locking)

E4.321, R4.321, 05, 2, 12, C



Note: The E4.1 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. depend 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:

E4.320, 05, 2, 12, C (even)

Single-part order:

E4.320, 05, 2, 1, C (even)

Mounting bracket moving end

E4.320, 05, 2, 1, C (even)

Mounting bracket fixed end





Chainfix steel clamps and Chainfix stainless-steel clamps - max. pull forces, adjustable with hexagon socket. Available as single, double or triple clamps

Chainfix clamps for the C-profile

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



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**

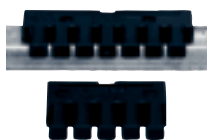
Cable ø [mm]	Part No. clamp	Part No. bottom part
04 - 08	CFC-08-M	CFC-08-C
08 - 12	CFC-12-M	CFC-12-C
12 - 16	CFC-16-M	CFC-16-C
16 - 20	CFC-20-M	CFC-20-C
20 - 24	CFC-24-M	CFC-24-C



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**

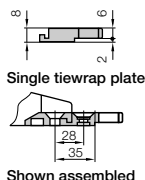
Part No.	ø max. conduit [mm]	Width [mm]
CFN.20	20	10,8
CFN.30.52	30	16,8
CFN.20.N35	20	20,0



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

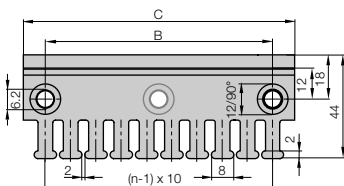
Can be plugged into the KMA C-profile. Easy to assemble without any screws. Easily solvable with screwdriver nevertheless safe stop. For all E-Chains® with KMA and integrated C-profile. **Details ▶ chapter 10**

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



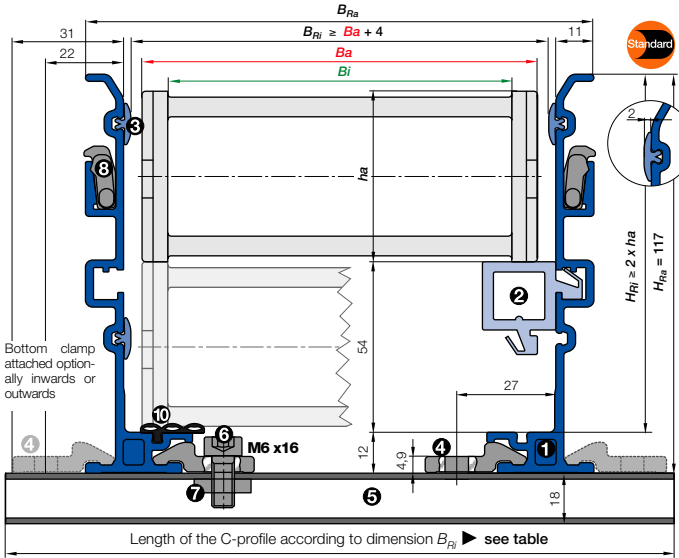
Chainfix tiwrap plate as individual part

As individual component screwed on KMA, can also be plugged into the mounting bracket. **Details ▶ chapter 10**



Tiwrap plate	No. of teeth	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)



- Ba** = Outer width E-Chains* / E-Tube
 - Bi** = Inner width E-Chains* / E-Tube
 - ha** = Outer height E-Chains* / E-Tube
 - H_{Ri}** = Inner trough height
 - H_{Ra}** = Outer trough height
 - B_{Ri}** = Inner trough width ▶ depends on dim. Ba
 - B_{Ra}** = Outer trough width
 - n_{Mon}** = Number of installation sets (left/right)
 - n_{Ri}** = Number of trough sets (left/right)
 - H_{Ri} ≥ 2 × ha**
 - B_{Ri} ≥ Ba + 4**
- = Guide trough set ● = Glide bar
 - = Installation set "Basic" ● = C-Profile

Installation set "Basic" with C-Profile

Bottom Clamp attached optionally inwards or outwards

E4.32.05.200.0 ▶ Order example

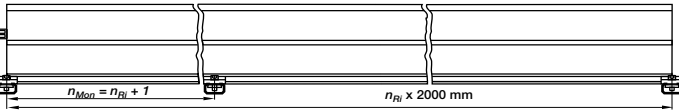
B _{Ri} [mm]	Part No.		
	attached inwards	attached outwards	
.05	77	960.30.125	960.30.175
.06	95	960.30.150	960.30.200
.07	102	960.30.150	960.30.200
.08	114	960.30.175	960.30.225
.10	127	960.30.175	960.30.225
.11	135	960.30.200	960.30.250
.112	140	960.30.200	960.30.250
.12	152	960.30.200	960.30.250
.13	165	960.30.225	960.30.275
.15	177	960.30.225	960.30.275
.162	190	960.30.250	960.30.300
.17	195	960.30.250	960.30.300
.18	202	960.30.250	960.30.300
.187	215	960.30.275	960.30.325
.20	227	960.30.275	960.30.325
.212	240	960.30.300	960.30.350
.23	252	960.30.300	960.30.350
.237	265	960.30.325	960.30.375
.25	277	960.30.325	960.30.375
.262	290	960.30.350	960.30.400
.28	302	960.30.350	960.30.400
.29	315	960.30.375	960.30.425
.30	327	960.30.375	960.30.425
.312	340	960.30.400	960.30.450
.325	352	960.30.400	960.30.450
.337	365	960.30.425	960.30.475
.350	377	960.30.425	960.30.475
.362	390	960.30.450	960.30.500
.375	402	960.30.450	960.30.500
.387	415	960.30.475	960.30.525
.400	427	960.30.475	960.30.525



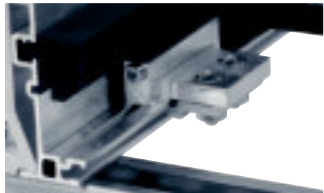
- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, steel galvanized ⑥ Screw M6 x16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series E4.32.30.300.0 with B_{Ri} = 327

- 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. **972.30.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. **972.31.SL**
- Installation set "Basic" complete (guide trough-sets + 1)
Order text: 17 installation sets "Basic" Part No. **960.30.375**
- Module for the fixed end
Order text: 1 set Part No. **972.80**
- Option:** For an additional noise dampening with dampening profile, please add Index A Example: Part No. **972.30.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": **972.50.XXX** instead of (960.30.XXX) on the right column "attached outwards"

Phone +49- (0) 22 03-96 49-800
 Fax +49- (0) 22 03-96 49-222

▶ chapter 10

▶ chapter 9

▶ page 7.15


Standard

 Part. No.
Standard
 E-Chains®/E-Tubes

E4.32.30.R.0
 (Crossbar every link)

H4.32.30.R.0
 (Crossbar every 2nd link)

R4.32.30.R.0
 (E-Tube, closed)

Delivery time
 24h or today

Additional noise dampening with pads

 Part. No.
Low noise (with pads)
 E-Chains®/E-Tubes

ES4.32.30.R.0
 (Crossbar every link)

HS4.32.30.R.0
 (Crossbar every 2nd link)

RS4.32.30.R.0
 (E-Tube, closed)

Delivery time
 3-5 workdays

QuickLock crossbar - save up to 25% assembly time

 Part. No.
QuickLock crossbar*
 for inner radius

E4.32.30.QZ.R.0
 (Crossbar every link)

H4.32.30.QZ.R.0
 (Crossbar every 2nd link)

R4.32.30.QZ.R.0**
 (E-Tube, closed)

Delivery time
 3-5 workdays

 Part. No.
QuickLock crossbar*
 for Outer radius

QuickLock crossbars: smallest inner width from B/10 (100 mm)!

E4.32.30.QE.R.0
 (Crossbar every link)

H4.32.30.QE.R.0
 (Crossbar every 2nd link)

R4.32.30.QE.R.0**
 (E-Tube, closed)

Delivery time
 3-5 workdays

 Part. No.
QuickLock crossbar*
 both sides

E4.32.30.Q.R.0
 (Crossbar every link)

H4.32.30.Q.R.0
 (Crossbar every 2nd link)

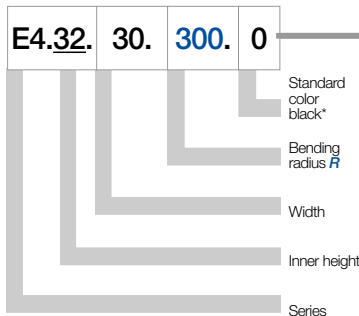
R4.32.30.Q.R.0**
 (E-Tube, closed)

Delivery time
 3-5 workdays

 * available from fall 2009
 ** upon request

 * available from fall 2009
 ** upon request

 * available from fall 2009
 ** upon request

Order example - Standard


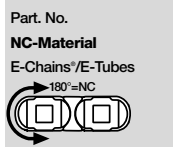
All E-Chains® made from igumid G are available in the colors listed in the table. Additional colors are usually feasible. (Standard color black). Colored E-Chains® are basically not available from stock.

Color options for igus® E-Chains® and E-Tubes. Standard color black (from stock)

E-Chains®/E-Tubes	igus® color index	Ral-numbers (approx.)	Delivery time
black	Index .0	⇒ RAL 9004	from stock
white*	Index .1	⇒ RAL 9003	2-4 weeks
violet*	Index .5	⇒ RAL 4008	2-4 weeks
yellow*	Index .4	⇒ RAL 1018	2-4 weeks
orange*	Index .2	⇒ RAL 2003	2-4 weeks
red*	Index .6	⇒ RAL 3002	2-4 weeks
blue*	Index .8	⇒ RAL 5005	2-4 weeks
green*	Index .7	⇒ RAL 6011	2-4 weeks
grey*	Index .3 (E-Chains®)	⇒ RAL 7023	2-4 weeks
dusty grey*	Index .3 (E-Tubes)	⇒ RAL 7037	2-4 weeks
agate grey*	Index .11	⇒ RAL 7038	2-4 weeks
light grey*	Index .14	⇒ RAL 7035	2-4 weeks
black grey*	Index .13	⇒ RAL 7021	2-4 weeks
yellow/black*	Index .9	–	2-4 weeks

*Delivery Time and pricing for colored E-Chains® upon request

Easy turning of the outer link without rework



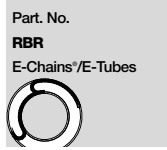
E4.32.30.R.0.NC
(Crossbar every link)

H4.32.30.R.0.NC
(Crossbar every 2nd link)

R4.32.30.R.0.NC
(E-Tube, closed)

Delivery time
24h or today

Reverse bending radius for circular movements



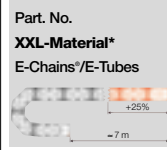
E4.32.30.R1/R2.0
(Crossbar every link)

H4.32.30.R1/R2.0
(Crossbar every 2nd link)

R4.32.30.R1/R2.0
(E-Tube, closed)

Delivery time
3-5 workdays

Unsupported lengths +25% possible



E4.32.30.R.0.XXL
(Crossbar every link)

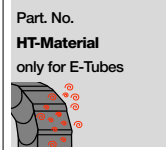
H4.32.30.R.0.XXL
(Crossbar every 2nd link)

R4.32.30.R.0.XXL
(E-Tube, closed)

Delivery time
1-2 weeks

*Sidelbands made from XXL-Material

No burning-in of hot chips up to 850°C (1562° F)



R4.32.30.R.0.HT
Complete E-Tube*

R4.32.30.HT.R.0
Lid and bottom

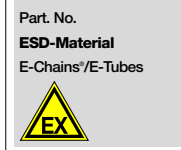
R4.32.30.HTZ.R.0
Bottom only

R4.32.30.HTE.R.0
Lid only

Delivery time
up to 4 weeks

*for gliding applications please consult igus®

ATEX/ESD classified E-Chains® - II 2 GD



E4.32.30.R.0.ESD
(Crossbar every link)

H4.32.30.R.0.ESD
(Crossbar every 2nd link)

R4.32.30.R.0.ESD
(E-Tube, closed)

Delivery time
up to 2 weeks

Combination possibilities, examples:

	Low noise Option	QuickLock crossbar	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low noise Option		ES4.32.30Q.R.0	ES4.32.30.R.0.NC	-	ES4.32.30.R.0.XXL	RS4.32.30.R.0.HT	ES4.32.30.R.0.ESD
QuickLock crossbar	ES4.32.30Q.R.0		E4.32.30Q.R.0.NC	E4.32.30Q.R1/R2.0	E4.32.30Q.R.0.XXL	-	E4.32.30Q.R.0.ESD
NC-Version	ES4.32.30.R.0.NC	E4.32.30Q.R.0.NC		-	-	R4.32.30.R.0.HT.NC	E4.32.30.R.0.ESD.NC
RBR-Version	-	E4.32.30Q.R1/R2.0	-		-	R4.32.30.R1/R2.0.HT	E4.32.30.R1/R2.0.ESD
XXL-Material	ES4.32.30.R.0.XXL	E4.32.30Q.R.0.XXL	-	-		-	-
HT-Material*	RS4.32.30.R.0.HT	-	R4.32.30.R.0.HT.NC	R4.32.30.R1/R2.0.HT	-		-
ESD-Material	ES4.32.30.R.0.ESD	E4.32.30Q.R.0.ESD	E4.32.30.R.0.ESD.NC	E4.32.30.R1/R2.0.ESD	-	-	

*for gliding applications please consult igus®