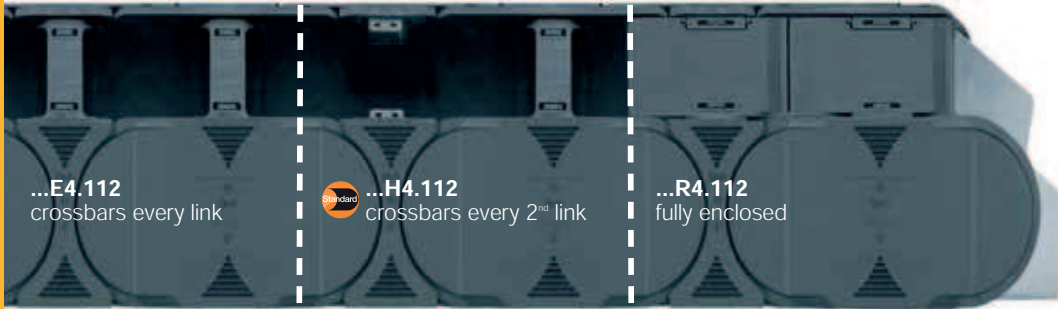
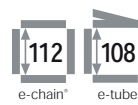


Series E4.112 | Product range

Stable due to undercut design, new very large inner height



...E4.112 crossbars every link

...H4.112 crossbars every 2nd link

...R4.112 fully enclosed

- e-chains® | Series E4.112 crossbars every link (crossbars removable along both radii)
- e-chains® | Series H4.112 crossbars every 2nd link (crossbars removable along both radii)
- e-tubes | Series R4.112 fully enclosed (hinged snap-open removable lids along outer radius)

Part No. e-chains® / e-tubes	Bi [mm]	Ba [mm]	E4.112 [kg/m]	H4.112 [kg/m]	R4.112 [kg/m]	Part No. e-chains® / e-tubes	Bi [mm]	Ba [mm]	E4.112 [kg/m]	H4.112 [kg/m]	R4.112 [kg/m]
E4. H4. -	112. 05. R.0	50	102	≈ 6,89	≈ 6,88	-					
E4. H4. -	112. 06. R.0	65	117	≈ 6,95	≈ 6,91	-					
E4. H4. -	112. 07. R.0	75	127	≈ 6,99	≈ 6,93	-					
E4. H4. -	112. 08. R.0	87	139	≈ 7,05	≈ 6,96	-					
E4. H4. -	112. 10. R.0	100	152	≈ 7,10	≈ 6,99	-					
E4. H4. -	112. 11. R.0	112	164	≈ 7,18	≈ 7,03	-					
E4. H4. -	112. 12. R.0	125	177	≈ 7,23	≈ 7,05	-					
E4. H4. -	112. 13. R.0	137	189	≈ 7,31	≈ 7,09	-					
E4. H4. -	112. 15. R.0	150	202	≈ 7,34	≈ 7,11	-					
E4. H4. -	112. 16. R.0	162	214	≈ 7,41	≈ 7,14	-					
E4. H4. -	112. 17. R.0	175	227	≈ 7,49	≈ 7,18	-					
E4. H4. -	112. 18. R.0	187	239	≈ 7,56	≈ 7,22	-					
E4. H4. R4.	112. 20. R.0	200	252	≈ 7,60	≈ 7,24	≈ 9,26					
E4. H4. -	112. 21. R.0	212	264	≈ 7,64	≈ 7,26	-					
E4. H4. -	112. 22. R.0	225	277	≈ 7,69	≈ 7,28	-					
E4. H4. -	112. 23. R.0	237	289	≈ 7,76	≈ 7,32	-					
E4. H4. R4.	112. 25. R.0	250	302	≈ 7,83	≈ 7,35	≈ 9,91					
E4. H4. -	112. 26. R.0	262	314	≈ 7,89	≈ 7,38	-					
E4. H4. -	112. 27. R.0	275	327	≈ 7,95	≈ 7,41	-					
E4. H4. -	112. 28. R.0	287	339	≈ 7,99	≈ 7,43	-					
E4. H4. R4.	112. 30. R.0	300	352	≈ 8,09	≈ 7,48	≈ 10,53					
E4. H4. -	112. 31. R.0	312	364	≈ 8,11	≈ 7,49	-					
E4. H4. -	112. 32. R.0	325	377	≈ 8,18	≈ 7,52	-					
E4. H4. -	112. 33. R.0	337	389	≈ 8,25	≈ 7,56	-					
E4. H4. R4.	112. 35. R.0	350	402	≈ 8,38	≈ 7,63	≈ 11,18					
E4. H4. -	112. 36. R.0	362	414	≈ 8,32	≈ 7,60	-					
E4. H4. -	112. 37. R.0	375	427	≈ 8,38	≈ 7,63	-					
E4. H4. -	112. 38. R.0	387	439	≈ 8,46	≈ 7,67	-					
E4. H4. R4.	112. 40. R.0	400	452	≈ 8,63	≈ 7,75	≈ 11,82					
E4. H4. -	112. 41. R.0	412	464	≈ 8,58	≈ 7,73	-					
E4. H4. -	112. 42. R.0	425	477	≈ 8,77	≈ 7,82	-					
E4. H4. -	112. 43. R.0	437	489	≈ 8,67	≈ 7,77	-					
E4. H4. -	112. 45. R.0	450	502	≈ 8,88	≈ 7,88	-					
E4. H4. -	112. 46. R.0	462	514	≈ 8,85	≈ 7,86	-					
E4. H4. -	112. 47. R.0	475	527	≈ 8,87	≈ 7,87	-					
E4. H4. -	112. 48. R.0	487	539	≈ 9,03	≈ 7,95	-					
E4. H4. R4.	112. 50. R.0	500	552	≈ 9,09	≈ 7,98	≈ 13,11					
E4. H4. -	112. 51. R.0	512	564	≈ 9,03	≈ 7,95	-					
E4. H4. -	112. 52. R.0	525	577	≈ 9,15	≈ 8,01	-					
E4. H4. -	112. 53. R.0	537	589	≈ 9,20	≈ 8,04	-					
E4. H4. -	112. 55. R.0	550	602	≈ 9,47	≈ 8,17	-					
E4. H4. -	112. 60. R.0	600	652	≈ 9,62	≈ 8,25	-					

*Radius not available for e-tubes

Available bending radii R [mm] 200* | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 750 | 1000

Supplement Part No. with required radius (R). Examples:

E4.112.30.300.0 = e-chain® with crossbars every link, inner width Bi 300 mm, radius R 300 mm, colour black

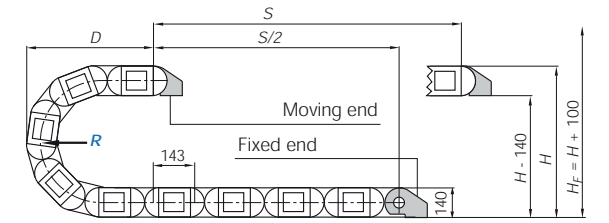
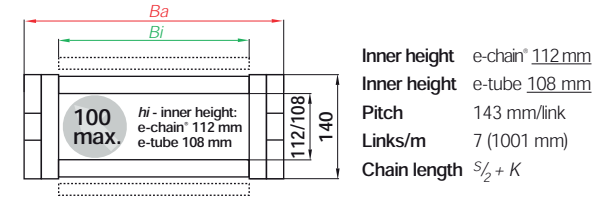
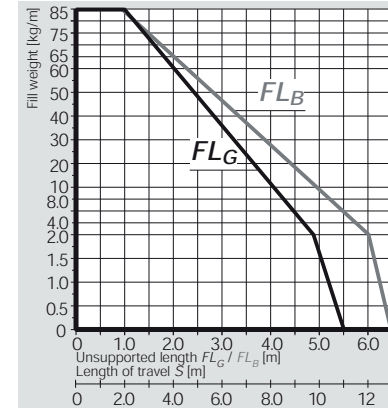
H4.112.30.300.0 = e-chain® with crossbars every 2nd link, inner width Bi 300 mm, radius R 300 mm, colour black

R4.112.30.300.0 = e-tube fully enclosed, inner width Bi 300 mm, radius R 300 mm, colour black

E4.1 | Series E4.112 | Dimensions



Unsupported applications | Short travels

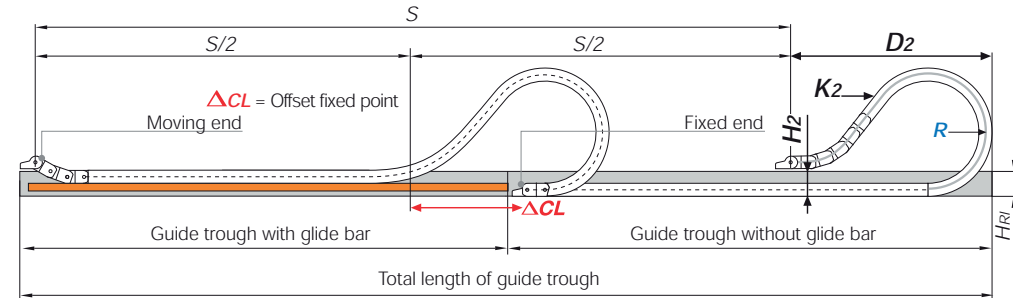


	R	200*	250	300	350	400	450	500	550	600	750	1000
H		545	645	745	845	945	1045	1145	1245	1345	1645	2145
D		415	465	515	565	615	665	715	765	815	965	1215
K		915	1075	1230	1390	1545	1700	1860	2015	2175	2645	3430

The required clearance height: $H_F = H + 100$ mm (with 5,0 kg/m fill weight)

*Radius not available for e-tubes

Gliding applications | Long travels from 14 m to max. 450 m



Note: For long travel (gliding) applications, please consult igus®.

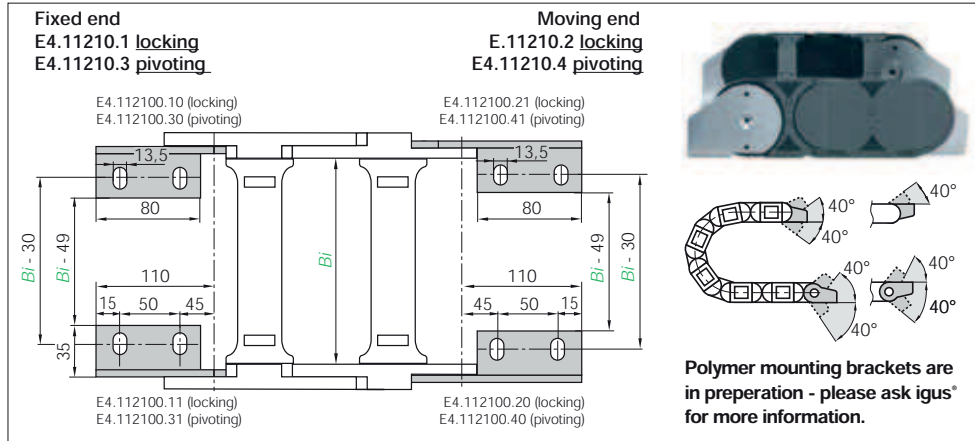
In case of travels between 11 and 14 m we recommend a longer unsupported length. Chain length $S/2 + K_2$

	R	200*	250	300	350	400	450	500	550	600	750	1000
H ₂		325	325	325	325	325	325	325	325	325	-	-
D ₂		900	1000	1100	1250	1450	1600	1700	1900	2050	-	-
K ₂		1573	1716	1859	2288	2574	2860	3146	3432	3861	-	-
ΔCL		450	500	550	650	800	900	950	1100	1200	-	-

*Radius not available for e-tubes

E4.1 | Series E4.112 | Accessories

Steel mounting brackets | pivoting | locking



Steel pivoting | Recommended for unsupported, gliding and vertical hanging applications
Steel locking | Recommended for unsupported, gliding, vertical hanging, standing applications

Part No.	Mounting bracket	pivoting
E4.11210.1.34.VS.E	Full set (both sides), ending with outer side link, screwed - Standard	
E4.11210.2.34.VS.E	Full set (both sides), beginning with outer side link (moving end), ending with inner side link (fixed end), screwed - Standard	

Stainless steel version available - please add index **.E** (Material: stainless steel 1.4301)

Part No.	Mounting bracket	locking
E4.11210.1.12.VS.E	Full set (both sides), ending with outer side link, screwed - Standard	
E4.11210.2.12.VS.E	Full set (both sides), beginning with outer side link (moving end), ending with inner side link (fixed end), screwed - Standard	

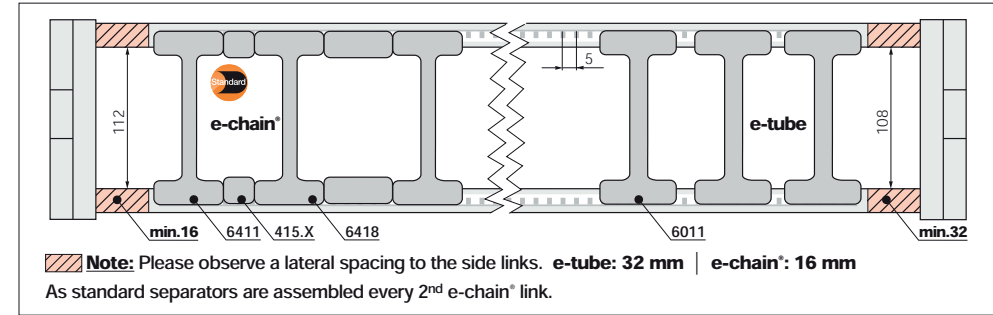
Stainless steel version available - please add index **.E** (Material: stainless steel 1.4301)

Note: Depending on the e-chain® length, the carrier will end with **1** outer or **2** inner side links. For the best appearance, make sure the e-chain® ends with **1** outer side link whenever possible. (with odd number of links)

Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ► from page 656

E4.1 | Series E4.112 | Accessories

Interior separation | Option 1 | Separators and spacers (option 2 ► next page)



		Separator for e-chains®
	4	unassembled 6401
	20	assembled 6411

Separator 6401 (e-chains® only)
 For a vertical subdivision. Offers safe stability due to its wide base design, also when used with thick cables or hoses.

		Separator for e-tubes
	6	unassembled 6001
	24	assembled 6011

Separator 6001 (e-tubes only)
 For a vertical subdivision. Offers safe stability due to its wide base design, also when used with thick cables or hoses.

		Locking separator for e-chains®
	4	unassembled 6408
	20	assembled 6418

Locking separator 6408 (e-chains® only)
 For applications exposed to very high humidity (> 85%). Locks with extra retention force. Tip: one locking separator per e-chain® link for better mounting.

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

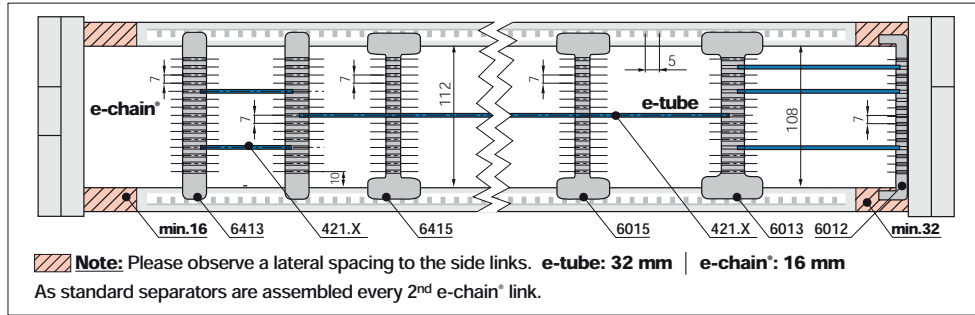
Spacer* 405.XX (e-chains® only)
 Separators can be fixed in position by spacers. The available interior height is reduced by 2 mm per spacer (4 mm when spacers are fitted on both sides). To avoid this, the parts can also be installed from the outside on the opening crossbar. (not for long travel applications). **XX = width of the spacer** (please choose between 10, 15, 20, 30, 40 mm).

		Rollclip for e-chains®
	27	unassembled 489.27
		assembled 490.27

Additional elements - interior separation Rollclip
 Minimises abrasion of particularly sensitive hoses - simply clamped onto the opening crossbar. The movable rollers compensate for relative movement between the e-chain® and hose.

E4.1 | Series E4.112 | Accessories

Interior separation | Option 2 | Shelves



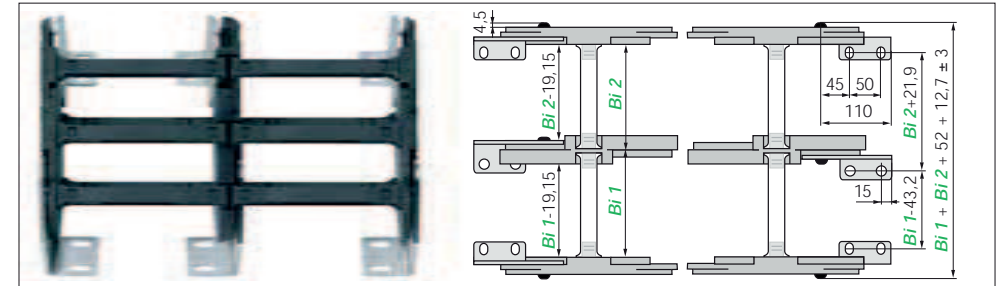
		Open, slotted separator for e-chains[®] unassembled 6405 assembled 6415
		Open, slotted separator for e-tubes unassembled 6005 assembled 6015
		Middle plate for e-chains[®] unassembled 6403 assembled 6413
		Middle plate for e-tubes unassembled 6003 assembled 6013
		Side plate for e-chains[®]/e-tubes unassembled 6002 assembled 6012
		Shelf (18-149 mm) unassembled 420.X assembled 421.X

Shelves

Width X	unassembled	assembled	Width X	unassembled	assembled	Width X	unassembled	assembled	Width X	unassembled	assembled
018	420.18	421.18	033	420.33	421.33	075	420.75	421.75	150	420.150	421.150
023	420.23	421.23	043	420.43	421.43	088	420.88	421.88	175	420.175	421.175
025	420.25	421.25	050	420.50	421.50	100	420.100	421.100	187	420.187	421.187
028	420.28	421.28	062	420.62	421.62	125	420.125	421.125	200	420.200	421.200

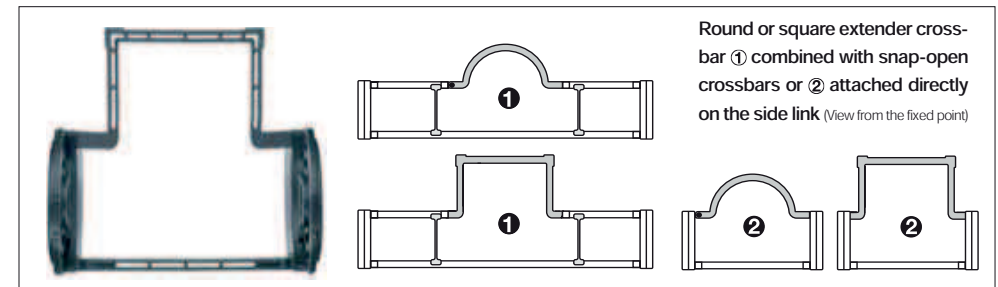
E4.1 | Series E4.112 | Further Accessories

Extension links | Extender crossbars



Extension links | For extremely wide e-chains[®] up to 3,0 m

- Virtually unlimited side-by-side attachment for high fill weights necessitate extremely wide e-chains[®] (up to 3000 mm)
- The unsupported length FL_G max. can be increased when fill weights are required



Extender crossbars | Safe guiding for large hoses

- Suitable for hoses with a maximum outer diameter of 245 mm
- Gliding with crossbars assembled along outer radius and a special guide trough
- Extender crossbar ① for snap-opening 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
450.15.RHD115	115	○ round	no	yes
450.17.RD115	115	○ round	yes	no
450.25.D150	150	□ square	yes	no
450.30.D200	200	□ square	yes	no
450.35.D250	220	□ square	yes	no
450.40.D300	270	□ square	yes	no
450.20.HD150	150	□ square	no	yes
450.25.HD200	200	□ square	no	yes
450.30.HD250	220	□ square	no	yes

The igus[®] e-chain[®] opener reduces assembly time

e-chain[®] opener tools for convenient opening and closing of E4 series igus[®] e-chains[®] ● For e-chains[®] with many crossbars the assembly is much easier ● In areas difficult to access mounting is simplified offering big savings in assembly time
More information ► www.igus.eu/E4savetime

