



e-chains® | Series 15050 Crossbars every link (crossbars removable along the inner and outer radius)
e-chains® | Series 15150 Crossbars every 2nd link (crossbars removable along the inner and outer radius)
e-tubes | Series R19850 Fully enclosed (lids openable along the outer radius, from one side)

Part No.	Bi	Ba	15050	15150	19850	Part No.	Bi	Ba	15050	15150	19850
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]
15050. 15150. -	05. R.0	50	80	≈ 3.85 ≈ 3.84	-	15050. 15150. -	28. R.0	287	318	≈ 5.54 ≈ 4.69	-
15050. 15150. -	055.R.0	55	85	≈ 3.90 ≈ 3.86	-	15050 [▲] 15150. 19850.	30. R.0	300	330	≈ 5.76 ≈ 4.80 ≈ 7.49	-
15050. 15150. -	06. R.0	65	95	≈ 3.95 ≈ 3.88	-	15050. 15150. -	31. R.0	312	343	≈ 5.80 ≈ 4.82	-
15050 [▲] 15150. 19850.	07. R.0	75	105	≈ 4.00 ≈ 3.92 ≈ 4.46	-	15050. 15150. -	32. R.0	325	355	≈ 5.85 ≈ 4.84	-
15050. 15150. -	08. R.0	87	117	≈ 4.05 ≈ 3.96	-	15050. 15150. -	33. R.0	337	368	≈ 6.03 ≈ 4.93	-
15050. 15150. 19850.	10. R.0	100	130	≈ 4.18 ≈ 4.00 ≈ 4.74	-	15050. 15150. 19850.	35. R.0	350	380	≈ 6.18 ≈ 5.01 ≈ 8.24	-
15050. 15150. -	11. R.0	112	143	≈ 4.31 ≈ 4.07	-	15050. 15150. -	36. R.0	362	393	≈ 6.19 ≈ 5.02	-
15050 [▲] 15150. 19850.	12. R.0	125	155	≈ 4.38 ≈ 4.10 ≈ 5.10	-	15050. 15150. -	37. R.0	375	405	≈ 6.20 ≈ 5.02	-
15050. 15150. -	13. R.0	137	168	≈ 4.51 ≈ 4.17	-	15050. 15150. -	38. R.0	387	418	≈ 6.29 ≈ 5.06	-
15050 [▲] 15150. 19850.	15. R.0	150	180	≈ 4.58 ≈ 4.20 ≈ 5.53	-	15050. 15150. 19850.	40. R.0	400	430	≈ 6.49 ≈ 5.16 ≈ 9.20	-
15050. 15150. -	16. R.0	162	193	≈ 4.69 ≈ 4.26	-	15050. 15150. -	41. R.0	412	443	≈ 6.64 ≈ 5.24	-
15050. 15150. -	169.R.0	169	200	≈ 4.77 ≈ 4.30	-	15050. 15150. -	42. R.0	425	455	≈ 6.80 ≈ 5.31	-
15050. 15150. 19850.	17. R.0	175	205	≈ 4.80 ≈ 4.31 ≈ 5.88	-	15050. 15150. -	43. R.0	437	468	≈ 6.86 ≈ 5.35	-
15050. 15150. -	182.R.0	182	213	≈ 4.85 ≈ 4.33	-	15050. 15150. -	45. R.0	450	480	≈ 6.93 ≈ 5.38	-
15050. 15150. -	18. R.0	187	218	≈ 4.91 ≈ 4.37	-	15050. 15150. 19850.	46. R.0	462	493	≈ 6.95 ≈ 5.39 ≈ 9.66	-
15050 [▲] 15150. 19850.	20. R.0	200	230	≈ 4.93 ≈ 4.38 ≈ 6.11	-	15050. 15150. -	47. R.0	475	505	≈ 7.08 ≈ 5.46	-
15050. 15150. -	207.R.0	207	238	≈ 4.99 ≈ 4.41	-	15050. 15150. -	48. R.0	487	518	≈ 7.16 ≈ 5.49	-
15050. 15150. -	21. R.0	212	243	≈ 5.04 ≈ 4.43	-	15050. 15150. -	50. R.0	500	530	≈ 7.22 ≈ 5.52	-
15050. 15150. -	22. R.0	225	255	≈ 5.10 ≈ 4.47	-	15050. 15150. -	51. R.0	512	543	≈ 7.24 ≈ 5.53	-
15050. 15150. -	23. R.0	237	268	≈ 5.24 ≈ 4.53	-	15050. 15150. -	52. R.0	525	555	≈ 7.28 ≈ 5.56	-
15050 [▲] 15150. 19850.	25. R.0	250	280	≈ 5.32 ≈ 4.58 ≈ 6.83	-	15050. 15150. -	53. R.0	537	568	≈ 7.44 ≈ 5.63	-
15050. 15150. -	26. R.0	262	293	≈ 5.41 ≈ 4.62	-	15050. 15150. -	55. R.0	550	580	≈ 7.92 ≈ 5.87	-
15050. 15150. 19850.	27. R.0	275	305	≈ 5.52 ≈ 4.68 ≈ 7.26	-	15050. 15150. -	60. R.0	600	630	≈ 8.12 ≈ 5.97	-

▲ ESD version (Electro Static Discharge) available from stock. More information ► From page 142

Available bend radii

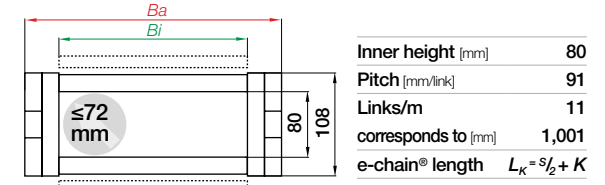
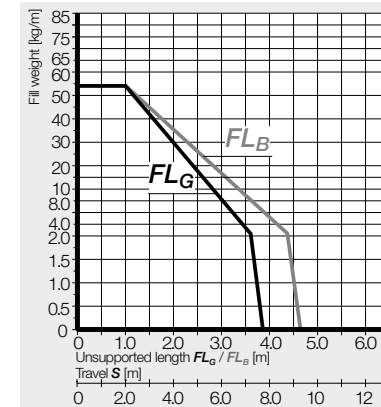
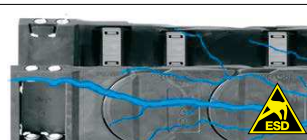
R [mm] | 150* | 200 | 250 | 300 | 350 | 400 | 500 | 600 |

Complete Part No. with required radius (R). Example:

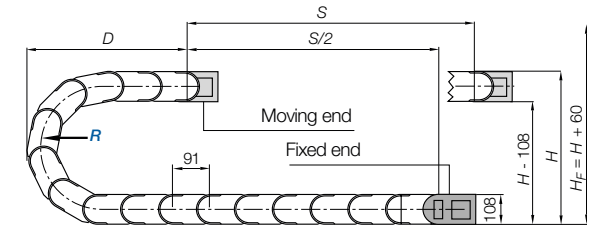
15050.30.300.0 = crossbars every link / 15150.30.300.0 = crossbars every 2nd link / 19850.30.300.0 = fully enclosed

ESD - many sizes from stock

- Standardised product made from igumid ESD
 - ESD material tested for over 10 million cycles for the toughest requirements
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information and the complete product range ► From page 142



Inner height [mm]	80
Pitch [mm/link]	91
Links/m	11
corresponds to [mm]	1,001
e-chain® length $L_K = S/2 + K$	

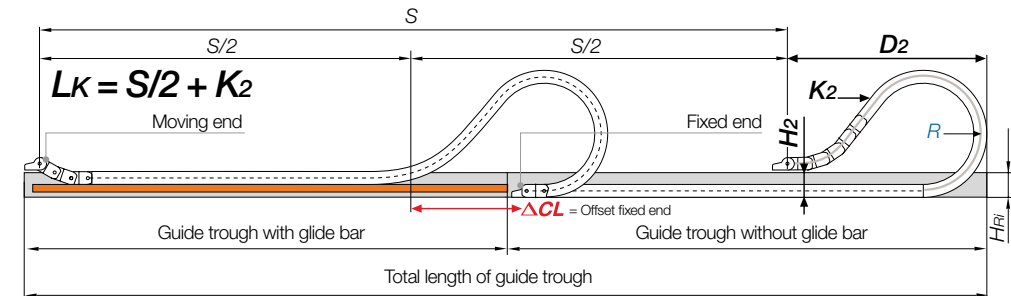


R	150*	200	250	300	350	400	500	600
H _{±25} ⁰	408	508	608	708	808	908	1,108	1,308
D	341	391	441	491	541	591	691	791
K	655	815	970	1,125	1,285	1,440	1,755	2,070

The required clearance height: $H_F = H + 60\text{mm}$ (with 3.0kg/m fill weight)

*Radius not available for e-tubes

Gliding applications | For travel lengths from 12m to max. 250m

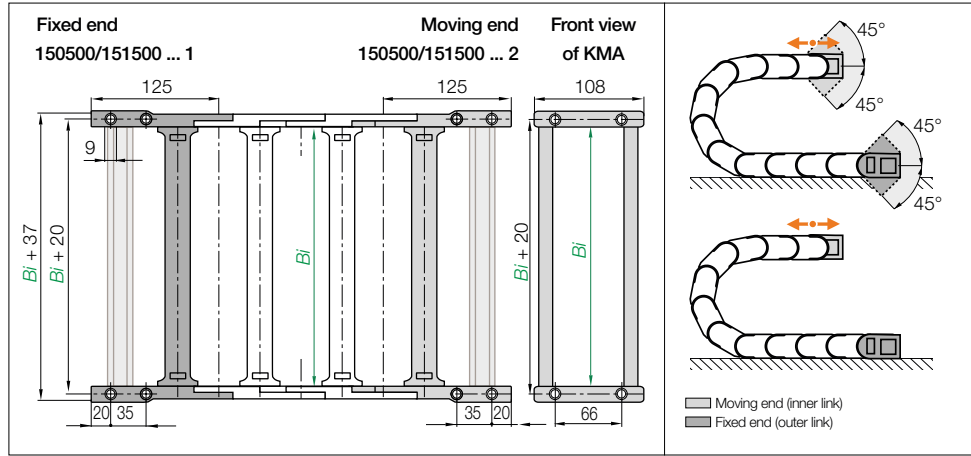


Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 9 and 12m we recommend an e-chain® with a longer unsupported length.

R	150*	200	250	300	350	400	500	600 ¹⁾
H ₂	242	242	242	242	242	242	242	-
D ₂ ⁺²⁵	550	800	950	1,200	1,550	1,700	2,175	-
K ₂	910	1,274	1,638	2,002	2,457	2,730	3,458	-
ΔCL	209	409	509	709	1,009	1,109	1,484	-

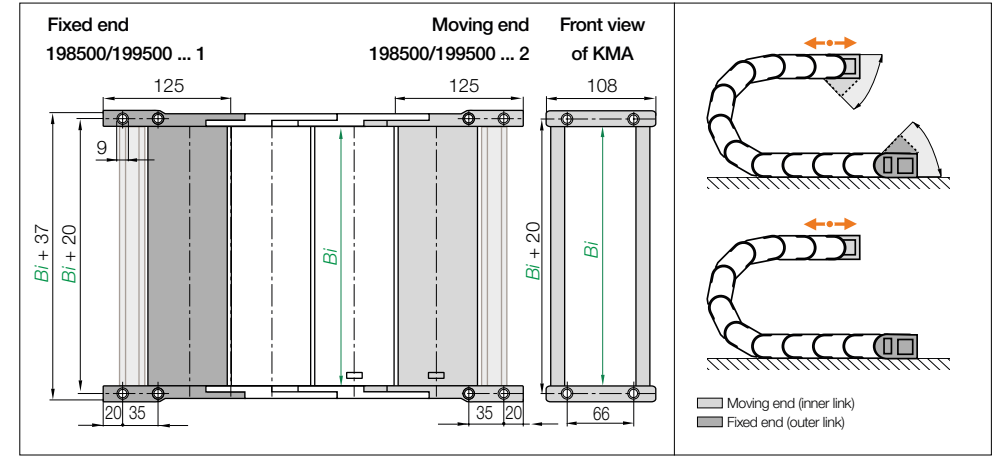
¹⁾Radius not available for e-tubes | R 600 not suitable For travel lengths. Please consult igus®.



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

Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]	Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]
05.	▶ 150500.05 .12.C	▶ 151500.05 .12.C	50	28.	▶ 150500.28 .12.C	▶ 151500.28 .12.C	287
055.	▶ 150500.055 .12.C	▶ 151500.055 .12.C	55	30.	▶ 150500.30 .12.C	▶ 151500.30 .12.C	300
06.	▶ 150500.06 .12.C	▶ 151500.06 .12.C	65	31.	▶ 150500.31 .12.C	▶ 151500.31 .12.C	312
07.	▶ 150500.07 .12.C	▶ 151500.07 .12.C	75	32.	▶ 150500.32 .12.C	▶ 151500.32 .12.C	325
08.	▶ 150500.08 .12.C	▶ 151500.08 .12.C	87	33.	▶ 150500.33 .12.C	▶ 151500.33 .12.C	337
10.	▶ 150500.10 .12.C	▶ 151500.10 .12.C	100	35.	▶ 150500.35 .12.C	▶ 151500.35 .12.C	350
11.	▶ 150500.11 .12.C	▶ 151500.11 .12.C	112	36.	▶ 150500.36 .12.C	▶ 151500.36 .12.C	362
12.	▶ 150500.12 .12.C	▶ 151500.12 .12.C	125	37.	▶ 150500.37 .12.C	▶ 151500.37 .12.C	375
13.	▶ 150500.13 .12.C	▶ 151500.13 .12.C	137	38.	▶ 150500.38 .12.C	▶ 151500.38 .12.C	387
15.	▶ 150500.15 .12.C	▶ 151500.15 .12.C	150	40.	▶ 150500.40 .12.C	▶ 151500.40 .12.C	400
16.	▶ 150500.16 .12.C	▶ 151500.16 .12.C	162	41.	▶ 150500.41 .12.C	▶ 151500.41 .12.C	412
169.	▶ 150500.169 .12.C	▶ 151500.169 .12.C	169	42.	▶ 150500.42 .12.C	▶ 151500.42 .12.C	425
17.	▶ 150500.17 .12.C	▶ 151500.17 .12.C	175	43.	▶ 150500.43 .12.C	▶ 151500.43 .12.C	437
182.	▶ 150500.182 .12.C	▶ 151500.182 .12.C	182	45.	▶ 150500.45 .12.C	▶ 151500.45 .12.C	450
18.	▶ 150500.18 .12.C	▶ 151500.18 .12.C	187	46.	▶ 150500.46 .12.C	▶ 151500.46 .12.C	462
20.	▶ 150500.20 .12.C	▶ 151500.20 .12.C	200	47.	▶ 150500.47 .12.C	▶ 151500.47 .12.C	475
207.	▶ 150500.207 .12.C	▶ 151500.207 .12.C	207	48.	▶ 150500.48 .12.C	▶ 151500.48 .12.C	487
21.	▶ 150500.21 .12.C	▶ 151500.21 .12.C	212	50.	▶ 150500.50 .12.C	▶ 151500.50 .12.C	500
22.	▶ 150500.22 .12.C	▶ 151500.22 .12.C	225	51.	▶ 150500.51 .12.C	▶ 151500.51 .12.C	512
23.	▶ 150500.23 .12.C	▶ 151500.23 .12.C	237	52.	▶ 150500.52 .12.C	▶ 151500.52 .12.C	525
25.	▶ 150500.25 .12.C	▶ 151500.25 .12.C	250	53.	▶ 150500.53 .12.C	▶ 151500.53 .12.C	537
26.	▶ 150500.26 .12.C	▶ 151500.26 .12.C	262	55.	▶ 150500.55 .12.C	▶ 151500.55 .12.C	550
27.	▶ 150500.27 .12.C	▶ 151500.27 .12.C	275	60.	▶ 150500.60 .12.C	▶ 151500.60 .12.C	600

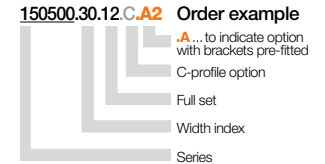
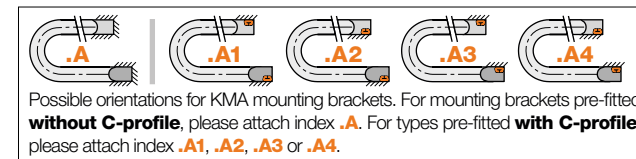
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



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

Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]	Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]
07.	▶ 198500.07 .12.C	▶ 199500.07 .12.C	75	25.	▶ 198500.25 .12.C	▶ 199500.25 .12.C	250
10.	▶ 198500.10 .12.C	▶ 199500.10 .12.C	100	27.	▶ 198500.27 .12.C	▶ 199500.27 .12.C	275
12.	▶ 198500.12 .12.C	▶ 199500.12 .12.C	125	30.	▶ 198500.30 .12.C	▶ 199500.30 .12.C	300
15.	▶ 198500.15 .12.C	▶ 199500.15 .12.C	150	35.	▶ 198500.35 .12.C	▶ 199500.35 .12.C	350
17.	▶ 198500.17 .12.C	▶ 199500.17 .12.C	175	40.	▶ 198500.40 .12.C	▶ 199500.40 .12.C	400
20.	▶ 198500.20 .12.C	▶ 199500.20 .12.C	200	46.	▶ 198500.46 .12.C	▶ 199500.46 .12.C	462

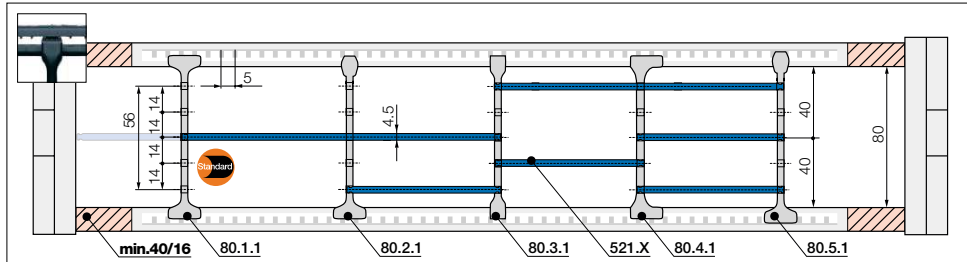
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.co.uk/15050



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 40mm** | **e-chain®: 16mm**
As standard separators are fitted every 2nd e-chain® link!

		4		Standard separator, wide base
		18		unassembled 80.1 assembled 80.1.1

Standard - for any application
Separator with a wide base for maximum holding force.

		8		Separator, narrow top
		18		unassembled 80.2 assembled 80.2.1

For even faster installation
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

		4		Separator, narrow
		8		unassembled 80.3 assembled 80.3.1

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space.

		4		Separator, asymmetrical
		18		unassembled 80.4 assembled 80.4.1

For side-mounted applications
Asymmetrical separator, for defined gap distance. No additional spacers required.

		8		Notch separator for notched crossbar
		18		unassembled 80.5 assembled 80.5.1

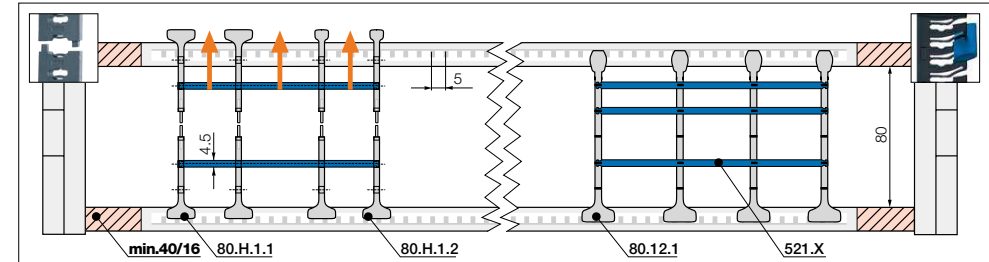
Locks securely in preset increments
Notch separator for exact positioning. Recommended for side-mounted applications.

		52		Shelf, lockable
		X-1		unassembled 520.X assembled 521.X

Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
		050	520.050	521.050	150	520.150	521.150	300	520.300
	065	520.065	521.065	175	520.175	521.175	350	520.350	521.350
	075	520.075	521.075	200	520.200	521.200	375	520.375	521.375
	100	520.100	521.100	225	520.225	521.225	387	520.387	521.387
	125	520.125	521.125	250	520.250	521.250	450	520.450	521.450

Interior separation | To allow faster filling



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 40mm** | **e-chain®: 16mm**
As standard separators are fitted every 2nd e-chain® link!

		4		Split separator, wide base/top
		18		unassembled 80.H.1 assembled 80.H.1.1

Split separators
In order to fill e-chains® more easily and effectively, these separators can be split in the middle. This allows easier access to middle shelf partitions. Fast assembly and easy retrofit. 2 types available: with wide or narrow top.

		8		Split separator, narrow top
		18		unassembled 80.H.2 assembled 80.H.2.1

		8		Lean separator¹⁾
		18		unassembled 80.12 assembled 80.12.1

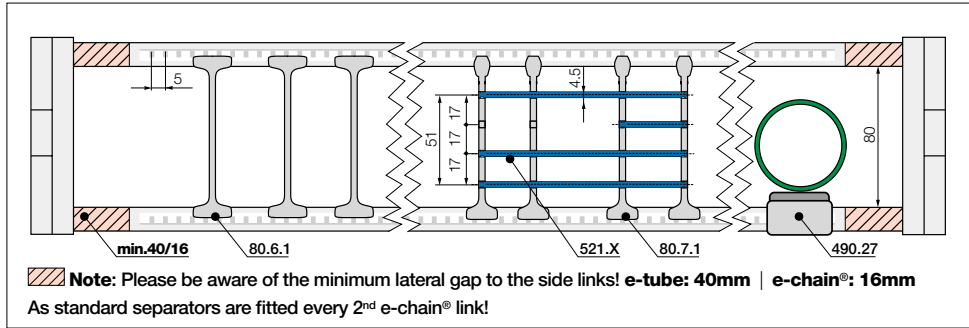
Lean separators¹⁾
For quick fitting of shelves in several layers.
1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%²⁾.

²⁾ Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory



More interior separation options



	<p>4</p> <p>25</p>	<p>Notch locking separator*, lockable for e-chains®</p> <p>unassembled 80.6</p> <p>assembled 80.6.1</p>
	<p>8</p> <p>4</p> <p>18</p>	<p>Separator, one end locking</p> <p>unassembled 80.7</p> <p>assembled 80.7.1</p>
	<p>27</p>	<p>Rollclip*, for e-chains®</p> <p>unassembled 489.27</p> <p>assembled 490.27</p>

Notch locking separator* for increased holding force

Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

Separator, one end locking

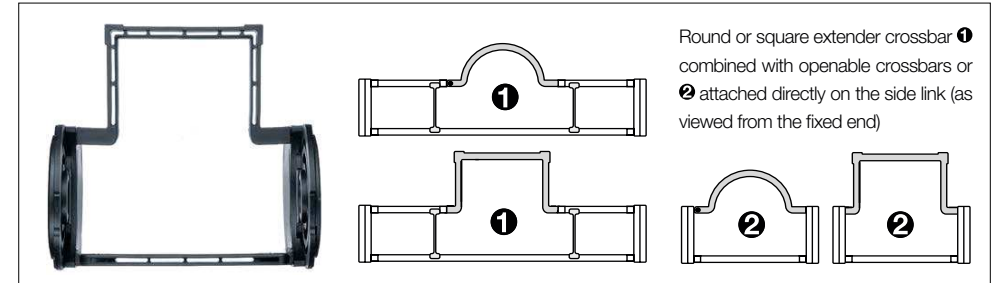
Offset slots for more variability.

Rollclip*

Minimises abrasion of sensitive hoses. Simply clamps onto the opening crossbar. The movable rollers compensate for relative movement between the e-chain® and hose.

*Only suitable for e-chains®

Extender crossbar with fixed width



Extender crossbars with fixed width | Safe guiding for large hoses

- Suitable for hoses with a maximum outer diameter of 270mm.
- Option ❶ extender crossbars with fixed width to combine with openable crossbars
- Option ❷ extender crossbars with fixed width attached directly on the side link
- Optionally openable along the inner "Z" or the outer radius "E"
- Gliding with crossbars assembled along the outer radius and a special guide trough

Part No. extender crossbar with fixed width, as individual parts	Hose Ø ≤ [mm]	Extender crossbar shape	❷ Fitted to side link	❶ Combine with openable crossbars
450.15RHD115	115	○ round	No	Yes
450.17RD115	115	○ round	Yes	No
450.25D150	150	□ square	Yes	No
450.30D200	200	□ square	Yes	No
450.35D250	220	□ square	Yes	No
450.40D300	270	□ square	Yes	No
450.20HD150	150	□ square	No	Yes
450.25HD200	200	□ square	No	Yes
450.30HD250	220	□ square	No	Yes

Order example: ❶ combined with openable crossbars

To receive extender crossbar RHD115 pre-fitted along the outer radius of the e-chain®, please add index **E: 15050.10/15RHD**E115/10.R.0

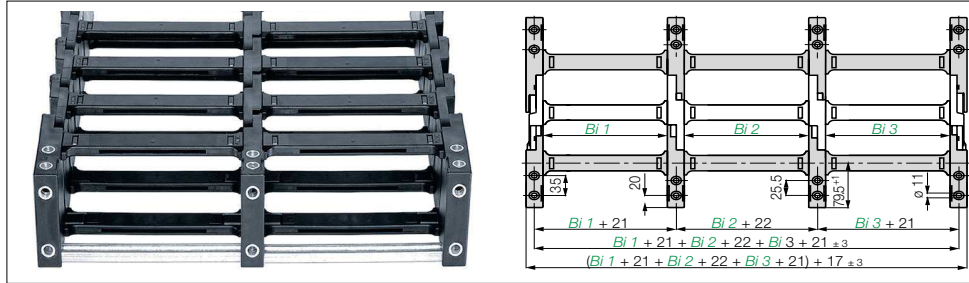
To receive extender crossbar RHD115 pre-fitted along the inner radius of the e-chain®, please add index **Z: 15050.10/15RHD**Z115/10.R.0

Order example: ❷ fitted to side link

To receive extender crossbar RD115 pre-fitted along the outer radius of the e-chain®, please add index **E: 15050.17R**D115.R.0

To receive extender crossbar RD115 pre-fitted along the inner radius of the e-chain®, please add index **Z: 15050.17R**D115.R.0

Extension links



Extension links | For extremely wide e-chains® up to 3.0m

- Virtually unlimited side-by-side extension
- For extremely wide e-chains® up to 3000mm
- Unsupported length FL_G max. can be increased when heavy fill weights are required
- e-chains® and e-tubes can be combined
- Attached with KMA or steel mounting brackets

Part No.	Part No.	Part No.
Extension link e-chain®	Extension link e-tube	Extension link as an individual part
15050.Bi1/Bi2/Bi3.R.0	R19850.Bi1/Bi2/Bi3.R.0	522.R.

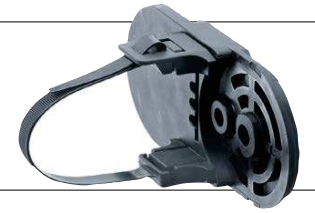
Complete Part No. with the width index *Bi1/Bi2/Bi3/etc.* and the radius (*R*). Example: 14040.10/20/10.200.0



Handling unit indoor crane - long unsupported span with an igus® E4 series

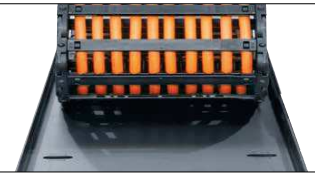
E4 snapclip - clip-on tiewrap

- For side-mounted applications, compatible with many E4 e-chains®
 - Serves as a clip-on, lateral guide for hoses and cables on e-chains®
 - The loops can be adjusted as required
- More information ► www.igus.co.uk/15050



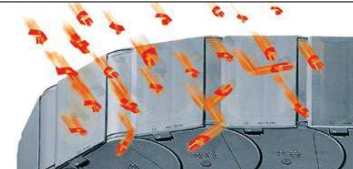
Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
 - To your requirements and specification
 - 4 options available
- More information ► From page 1356



Hot swarf up to +850°C for e-tubes

- Lids and shelves, on which +850°C hot swarf bounces off, as special production with the igus® material igumid HT
 - No hot swarf melting or embedding into the chain
- More information ► www.igus.co.uk/HT



Reduce assembly time - E4 e-chain® opener

- e-chain® opener tools for easy opening and closing of e-chains®
 - Simple opening and closing of e-chain® crossbars
 - Also for use in hard to reach locations
 - Significant assembly time reduction
- More information ► www.igus.co.uk/E4savetime



Roller crossbars - increase the service life of cables and hoses

- Significantly reduce jacket abrasion of very stiff cables and hoses with rolling contact surfaces equipped with tribo-optimised bearings
 - For sensitive hoses in restricted space
 - Usable along the inner and/or outer radius, retrofit possible
- More information ► upon request

