

e-chains® Series 14550 | Crossbars every link (crossbars removable along the inner and outer radius)
e-chains® Series 14650 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)
e-tubes Series R19050 | Fully enclosed (lids openable along the outer radius, from one side)

Part No.	Bi	Ba	14550	14650	19050	Part No.	Bi	Ba	14550	14650	19050	
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]	
14550. 14650.	05. R.0	50	77	≈ 3.28	≈ 3.27	14550. 14650.	28. R.0	287	314	≈ 5.01	≈ 4.13	
14550. 14650.	055. R.0	55	82	≈ 3.33	≈ 3.29	14550. 14650. 19050.	30. R.0	300	327	≈ 5.16	≈ 4.21	
14550. 14650.	06. R.0	65	92	≈ 3.37	≈ 3.31	14550. 14650.	31. R.0	312	339	≈ 5.20	≈ 4.23	
14550. 14650. 19050.	07. R.0	75	102	≈ 3.44	≈ 3.35	≈ 4.00	14550. 14650.	32. R.0	325	352	≈ 5.30	≈ 4.28
14550. 14650.	08. R.0	87	114	≈ 3.52	≈ 3.38	14550. 14650.	33. R.0	337	364	≈ 5.42	≈ 4.34	
14550. 14650. 19050.	10. R.0	100	127	≈ 3.61	≈ 3.43	≈ 4.33	14550. 14650. 19050.	35. R.0	350	377	≈ 5.62	≈ 4.44
14550. 14650.	11. R.0	112	139	≈ 3.73	≈ 3.49	14550. 14650.	36. R.0	362	389	≈ 5.53	≈ 4.39	
14550. 14650. 19050.	12. R.0	125	152	≈ 3.81	≈ 3.53	≈ 4.70	14550. 14650.	37. R.0	375	402	≈ 5.63	≈ 4.44
14550. 14650.	13. R.0	137	164	≈ 3.94	≈ 3.60	14550. 14650.	38. R.0	387	414	≈ 5.74	≈ 4.50	
14550. 14650. 19050.	15. R.0	150	177	≈ 3.98	≈ 3.62	≈ 5.04	14550. 14650. 19050.	40. R.0	400	427	≈ 6.01	≈ 4.63
14550. 14650.	16. R.0	162	189	≈ 4.09	≈ 3.67	14550. 14650.	41. R.0	412	439	≈ 5.94	≈ 4.60	
14550. 14650.	169. R.0	169	197	≈ 4.18	≈ 3.71	14550. 14650.	42. R.0	425	452	≈ 6.23	≈ 4.74	
14550. 14650. 19050.	17. R.0	175	202	≈ 4.23	≈ 3.74	≈ 5.41	14550. 14650.	43. R.0	437	464	≈ 6.07	≈ 4.66
14550. 14650.	182. R.0	182	210	≈ 4.27	≈ 3.76	14550. 14650.	45. R.0	450	477	≈ 6.40	≈ 4.83	
14550. 14650.	18. R.0	187	214	≈ 4.34	≈ 3.80	14550. 14650. 19050.	46. R.0	462	489	≈ 6.35	≈ 4.80	
14550. 14650. 19050.	20. R.0	200	227	≈ 4.39	≈ 3.82	≈ 5.64	14550. 14650.	47. R.0	475	502	≈ 6.39	≈ 4.82
14550. 14650.	207. R.0	207	235	≈ 4.44	≈ 3.84	14550. 14650.	48. R.0	487	514	≈ 6.64	≈ 4.95	
14550. 14650.	21. R.0	212	239	≈ 4.46	≈ 3.86	14550. 14650.	50. R.0	500	527	≈ 6.74	≈ 5.00	
14550. 14650.	22. R.0	225	252	≈ 4.53	≈ 3.89	14550. 14650.	51. R.0	512	539	≈ 6.65	≈ 4.95	
14550. 14650.	23. R.0	237	264	≈ 4.64	≈ 3.95	14550. 14650.	52. R.0	525	552	≈ 6.82	≈ 5.04	
14550. 14650. 19050.	25. R.0	250	277	≈ 4.76	≈ 4.00	≈ 6.32	14550. 14650.	53. R.0	537	564	≈ 6.92	≈ 5.09
14550. 14650.	26. R.0	262	289	≈ 4.85	≈ 4.05	14550. 14650.	55. R.0	550	577	≈ 7.34	≈ 5.30	
14550. 14650. 19050.	27. R.0	275	302	≈ 4.95	≈ 4.10	≈ 6.65	14550. 14650.	60. R.0	600	627	≈ 7.57	≈ 5.41

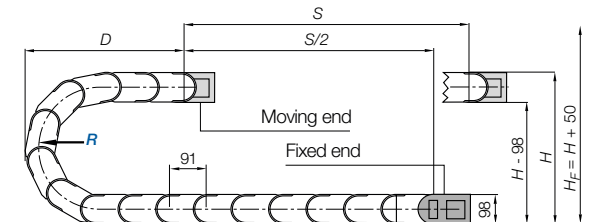
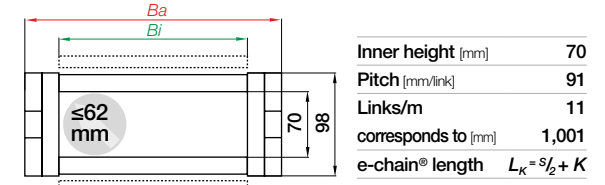
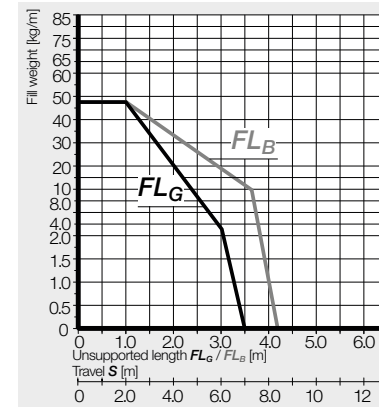
*Radius not available for e-tubes

Available bend radii

R [mm] | 150* | 175* | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |

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

14550.30.300.0 = crossbars every link / 14650.30.300.0 = crossbars every 2nd link / 19050.30.300.0 = fully enclosed

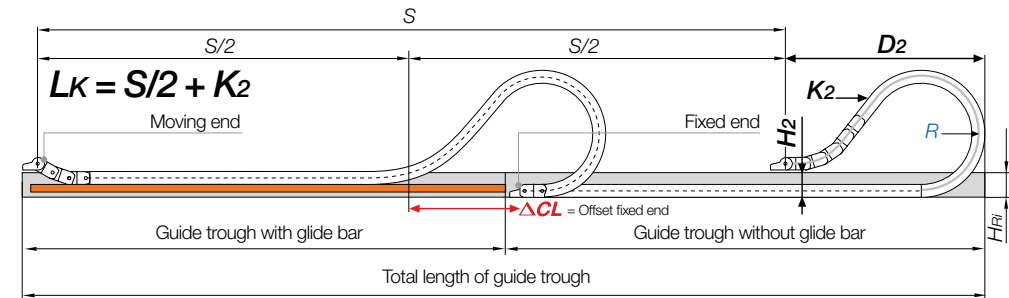


R	150*	175*	200	250	300	350	400	450	500	600
H	398	448	498	598	698	798	898	998	1,098	1,298
D	336	361	386	436	486	536	586	636	686	786
K	655	735	815	970	1,125	1,285	1,440	1,600	1,755	2,070

The required clearance height: $H_F = H + 50$ mm (with 2.5kg/m fill weight)

*Radius not available for e-tubes

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

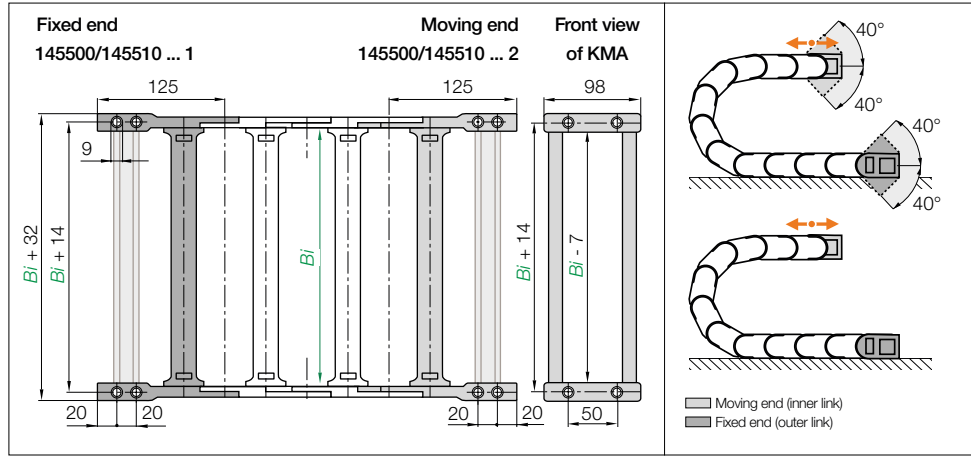


Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 8 and 12m we recommend an e-chain® with a longer unsupported length.

R	150*	175*	200	250	300	350	400	450	500	600 ²⁾
H ₂	266	266	266	266	266	266	266	266	266	-
D ₂ ²⁵	450	530	710	920	1,120	1,340	1,530	1,048	1,830	-
K ₂	819	1,001	1,274	1,638	1,911	2,184	2,548	2,821	3,185	-
ΔCL	124	159	209	359	509	659	829	959	1,159	-

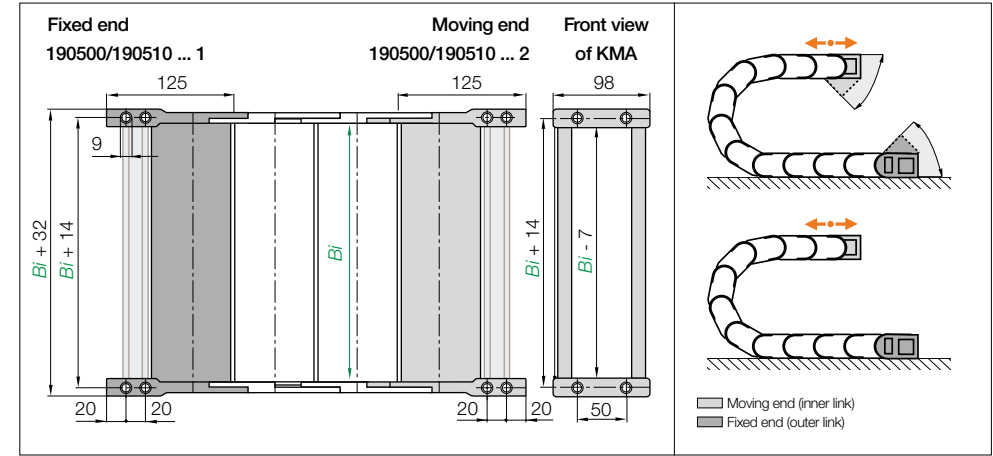
*Radius not available for e-tubes 2) R 600 not suitable For travel lengths. Please consult igus®.



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.	▶ 145500.05 .12.C	145510.05 .12.C	50	28.	▶ 145500.28 .12.C	145510.28 .12.C	287
055.	▶ 145500.055 .12.C	145510.055 .12.C	55	30.	▶ 145500.30 .12.C	145510.30 .12.C	300
06.	▶ 145500.06 .12.C	145510.06 .12.C	65	31.	▶ 145500.31 .12.C	145510.31 .12.C	312
07.	▶ 145500.07 .12.C	145510.07 .12.C	75	32.	▶ 145500.32 .12.C	145510.32 .12.C	325
08.	▶ 145500.08 .12.C	145510.08 .12.C	87	33.	▶ 145500.33 .12.C	145510.33 .12.C	337
10.	▶ 145500.10 .12.C	145510.10 .12.C	100	35.	▶ 145500.35 .12.C	145510.35 .12.C	350
11.	▶ 145500.11 .12.C	145510.11 .12.C	112	36.	▶ 145500.36 .12.C	145510.36 .12.C	362
12.	▶ 145500.12 .12.C	145510.12 .12.C	125	37.	▶ 145500.37 .12.C	145510.37 .12.C	375
13.	▶ 145500.13 .12.C	145510.13 .12.C	137	38.	▶ 145500.38 .12.C	145510.38 .12.C	387
15.	▶ 145500.15 .12.C	145510.15 .12.C	150	40.	▶ 145500.40 .12.C	145510.40 .12.C	400
16.	▶ 145500.16 .12.C	145510.16 .12.C	162	41.	▶ 145500.41 .12.C	145510.41 .12.C	412
169.	▶ 145500.169 .12.C	145510.169 .12.C	169	42.	▶ 145500.42 .12.C	145510.42 .12.C	425
17.	▶ 145500.17 .12.C	145510.17 .12.C	175	43.	▶ 145500.43 .12.C	145510.43 .12.C	437
182.	▶ 145500.182 .12.C	145510.182 .12.C	182	45.	▶ 145500.45 .12.C	145510.45 .12.C	450
18.	▶ 145500.18 .12.C	145510.18 .12.C	187	46.	▶ 145500.46 .12.C	145510.46 .12.C	462
20.	▶ 145500.20 .12.C	145510.20 .12.C	200	47.	▶ 145500.47 .12.C	145510.47 .12.C	475
207.	▶ 145500.207 .12.C	145510.207 .12.C	207	48.	▶ 145500.48 .12.C	145510.48 .12.C	487
21.	▶ 145500.21 .12.C	145510.21 .12.C	212	50.	▶ 145500.50 .12.C	145510.50 .12.C	500
22.	▶ 145500.22 .12.C	145510.22 .12.C	225	51.	▶ 145500.51 .12.C	145510.51 .12.C	512
23.	▶ 145500.23 .12.C	145510.23 .12.C	237	52.	▶ 145500.52 .12.C	145510.52 .12.C	525
25.	▶ 145500.25 .12.C	145510.25 .12.C	250	53.	▶ 145500.53 .12.C	145510.53 .12.C	537
26.	▶ 145500.26 .12.C	145510.26 .12.C	262	55.	▶ 145500.55 .12.C	145510.55 .12.C	550
27.	▶ 145500.27 .12.C	145510.27 .12.C	275	60.	▶ 145500.60 .12.C	145510.60 .12.C	600

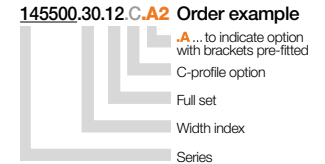
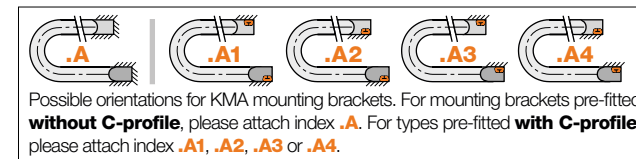
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



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.	▶ 190500.07 .12.C	190510.07 .12.C	75	25.	▶ 190500.25 .12.C	190510.25 .12.C	250
10.	▶ 190500.10 .12.C	190510.10 .12.C	100	27.	▶ 190500.27 .12.C	190510.27 .12.C	275
12.	▶ 190500.12 .12.C	190510.12 .12.C	125	30.	▶ 190500.30 .12.C	190510.30 .12.C	300
15.	▶ 190500.15 .12.C	190510.15 .12.C	150	35.	▶ 190500.35 .12.C	190510.35 .12.C	350
17.	▶ 190500.17 .12.C	190510.17 .12.C	175	40.	▶ 190500.40 .12.C	190510.40 .12.C	400
20.	▶ 190500.20 .12.C	190510.20 .12.C	200	46.	▶ 190500.46 .12.C	190510.46 .12.C	462

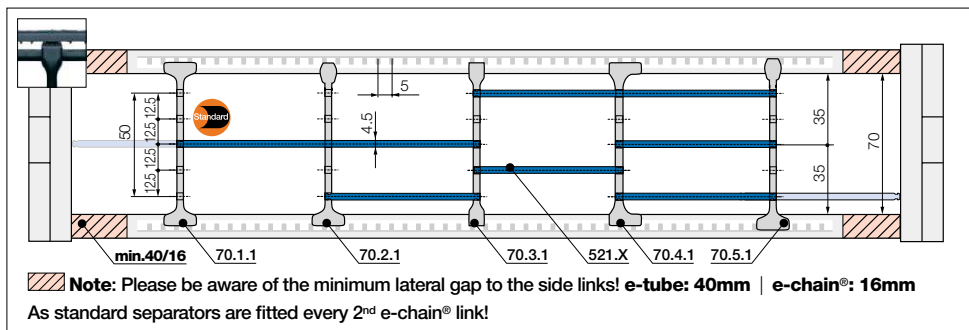
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



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/14550



Standard separator, wide base

unassembled	70.1
assembled	70.1.1

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

Separator, narrow top

unassembled	70.2
assembled	70.2.1

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

Separator, narrow

unassembled	70.3
assembled	70.3.1

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

Separator, asymmetrical

unassembled	70.4
assembled	70.4.1

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

Notch separator for notched crossbar

unassembled	70.5
assembled	70.5.1

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

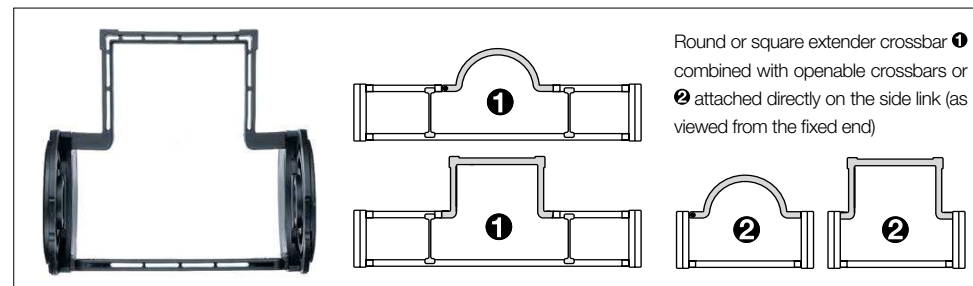
Shelf, lockable

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]		X [mm]		X [mm]			
	unassembled	assembled	unassembled	assembled	unassembled	assembled		
050	520.050	521.050	150	520.150	521.150	300	520.300	521.300
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

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 $\varnothing \leq$ [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-chain®, please add index **E: 14550.10/15RHD****E115/10.R.0**

To receive extender crossbar RD115 pre-fitted along the inner radius of the-chain®, please add index **Z: 14550.10/15RHD****Z115/10.R.0**

Order example: ❷ fitted to side link

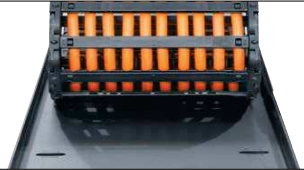
To receive extender crossbar RD115 pre-fitted along the outer radius of the-chain®, please add index **E: 14550.17RDE****115.R.0**

To receive extender crossbar RD115 pre-fitted along the inner radius of the-chain®, please add index **Z: 14550.17RD****Z115.R.0**

Steel support tray for support of the lower run

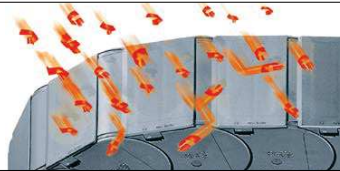
- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

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**

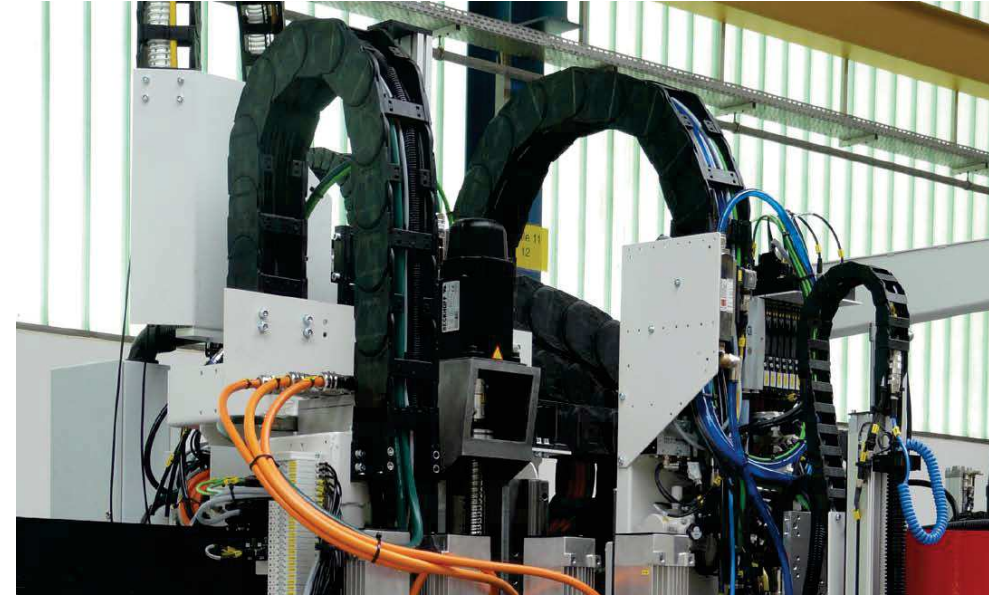
- e-chain® opener tools for easy opening and closing of e-chains®
- Simple opening and closing of e-chain® crossbars
- Also for use in hard to reach locations
- Significant assembly time reduction

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



Various igus® e-chains® installed vertically including light-weight E4/light e-chains®