



e-chains® | E4.31L | Crossbars every link (openable along inner and outer radius, from both sides)

e-tubes | R4.31L | Fully enclosed (lids openable along inner and outer radius, from both sides)

Part No.	Part No.	Bi	Ba	E4.31L	R4.31L	Part No.	Part No.	Bi	Ba	E4.31L	R4.31L
e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
E4.31L.040.R.0	-	40	54	≈ 0.70	-	E4.31L.125.R.0	R4.31L.125.R.0**	125	139	≈ 0.96	≈ 1.28
E4.31L.050.R.0	R4.31L.050.R.0	50	64	≈ 0.74	≈ 0.87	E4.31L.137.R.0**	-	137	151	≈ 0.98	-
E4.31L.062.R.0	-	62	76	≈ 0.76	-	E4.31L.150.R.0	R4.31L.150.R.0**	150	164	≈ 1.00	≈ 1.40
E4.31L.075.R.0	R4.31L.075.R.0	75	89	≈ 0.78	≈ 1.01	E4.31L.162.R.0	-	162	176	≈ 1.04	-
E4.31L.087.R.0	-	87	101	≈ 0.83	-	E4.31L.175.R.0	R4.31L.175.R.0**	175	189	≈ 1.13	≈ 1.55
E4.31L.100.R.0	R4.31L.100.R.0	100	114	≈ 0.88	≈ 1.10	E4.31L.187.R.0**	-	187	201	≈ 1.17	-
E4.31L.112.R.0	-	112	126	≈ 0.93	-	E4.31L.200.R.0**	R4.31L.200.R.0**	200	214	≈ 1.17	≈ 1.68

**Width available upon request. Please consult igus® for delivery time.

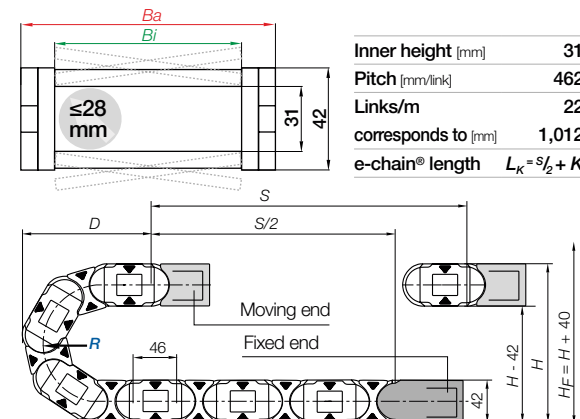
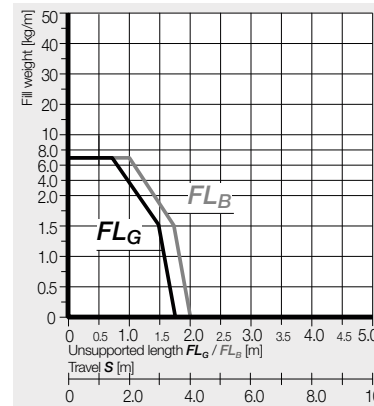
1) Radius not available for e-tubes

Available bend radii

R [mm] | 055¹⁾ | 063¹⁾ | 075 | 100 | 125 | 150 | 175 | 200 | 250 |

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

E4.31L.050.075.0 = crossbars every link / R4.31L.050.075.0 = fully enclosed

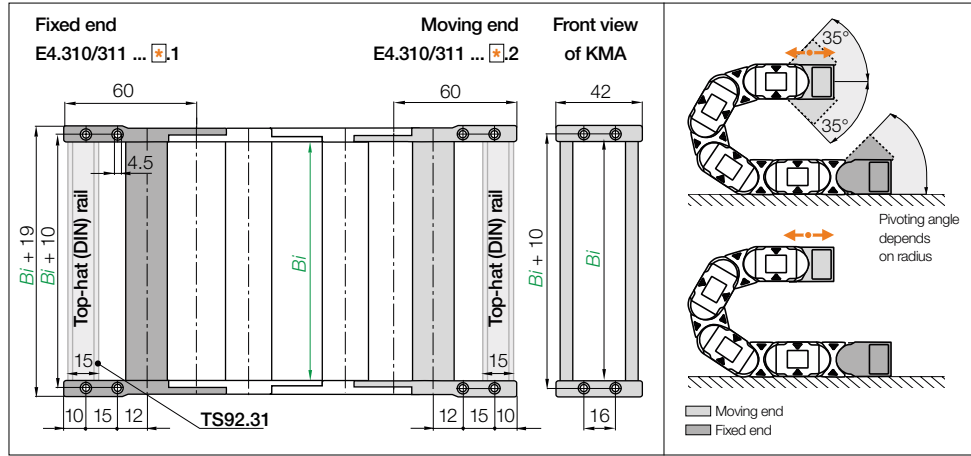


	055 ¹⁾	063 ¹⁾	075	100	125	150	175	200	250
R	055 ¹⁾	063 ¹⁾	075	100	125	150	175	200	250
H	152	168	192	242	292	342	392	442	542
D	145	153	165	190	215	240	265	290	340
K	265	290	330	410	485	565	645	725	880

The required clearance height: $H_F = H + 40$ mm (with 1.0kg/m fill weight)

1) Radius not available for e-tubes

If a gliding application is required for a long travel, 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]
040.	E4.310.040.12.C	E4.311.040.12.C	40	125.	E4.310.125.12.C	E4.311.125.12.C	125
050.	E4.310.050.12.C	E4.311.050.12.C	50	137.	E4.310.137.12.C*	E4.311.137.12.C*	137
062.	E4.310.062.12.C	E4.311.062.12.C	62	150.	E4.310.150.12.C	E4.311.150.12.C	150
075.	E4.310.075.12.C	E4.311.075.12.C	75	162.	E4.310.162.12.C	E4.311.162.12.C	162
087.	E4.310.087.12.C	E4.311.087.12.C	87	175.	E4.310.175.12.C	E4.311.175.12.C	175
100.	E4.310.100.12.C	E4.311.100.12.C	100	187.	E4.310.187.12.C*	E4.311.187.12.C*	187
112.	E4.310.112.12.C	E4.311.112.12.C	112	200.	E4.310.200.12.C*	E4.311.200.12.C*	200

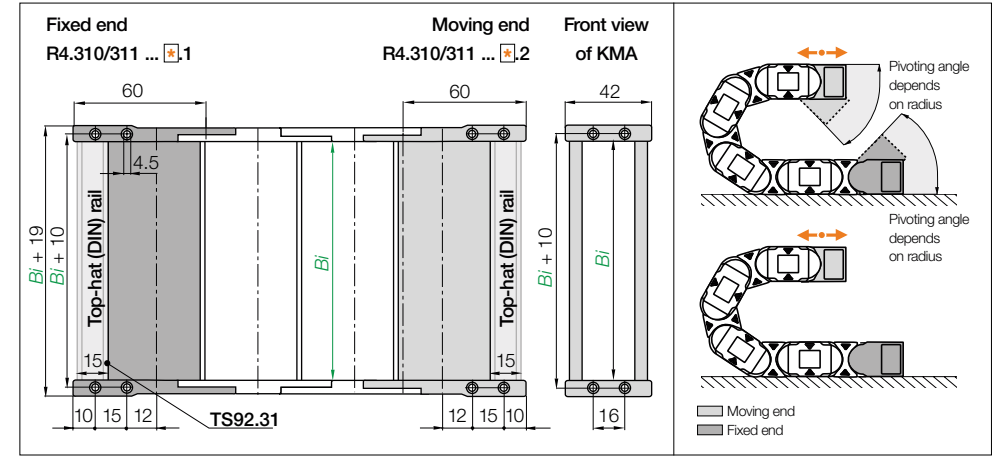
(KMA = polymer metal mounting bracket) For the TS92.31 top-hat (DIN) rail option please add index .C

*Width available upon request. Delivery time upon request. **Note:** If a gliding application is required for a long travel, please consult igus®.

Strain relief elements with tiewrap teeth

- Stepped strain relief element outside of the e-chain® cross section
- For e-chains® and e-tubes
- Easy to retrofit
- Simple installation into top hat (DIN) rail 15 (TS92.31)

Part No. CFV.31.N15 - more information ▶ From page 1428



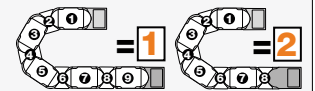
KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

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]
050.	R4.310.050.12.C	R4.311.050.12.C	050	150.	R4.310.150.12.C*	R4.311.150.12.C*	150
075.	R4.310.075.12.C	R4.311.075.12.C	075	175.	R4.310.175.12.C*	R4.311.175.12.C*	175
100.	R4.310.100.12.C	R4.311.100.12.C	100	200.	R4.310.200.12.C*	R4.311.200.12.C*	200
125.	R4.310.125.12.C*	R4.311.125.12.C*	125				

(KMA = polymer metal mounting bracket) For the TS92.31 top-hat (DIN) rail option please add index .C

*Width available upon request. Delivery time upon request. **Note:** If a gliding application is required for a long travel, please consult igus®.

Note: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index 1 (for odd) or 2 (for even) depending on an even or odd number of links required.

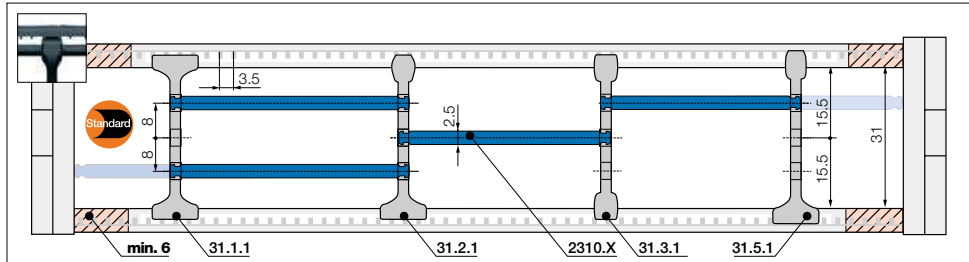


Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index .A. For types pre-fitted **with C-profile**, please attach index .A1, .A2, .A3 or .A4.

E4.310.100.12.C.A2 Order example

- .A... to indicate option with brackets pre-fitted
- C-profile option
- Full set
- Even numbers of links
- Width index
- Series

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



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 6mm** | **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!

Standard separator, wide base

unassembled **31.1**
assembled **31.1.1**

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

Separator, narrow top

unassembled **31.2**
assembled **31.2.1**

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

Separator, narrow

unassembled **31.3**
assembled **31.3.1**

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

Notch separator for notched crossbar

unassembled **31.5**
assembled **315.1**

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

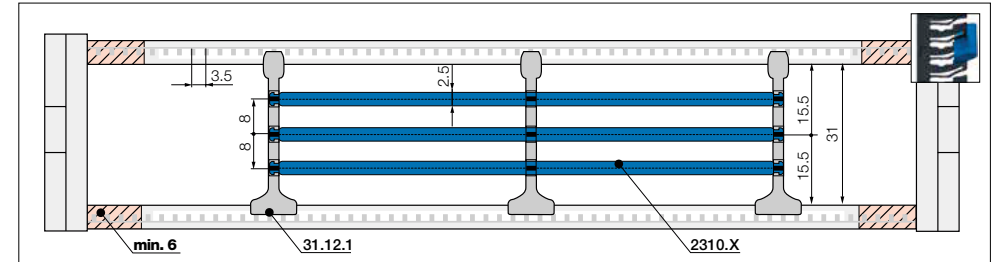
Shelf, lockable

unassembled **2300.X**
assembled **2310.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
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.87	2310.087
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.90	2310.090
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 6mm** | **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!

Lean separator¹⁾

unassembled **31.12**
assembled **31.12.1**

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



Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- Part No. 31.Z - more information ▶ From page 1424**



Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
 - Noise-reducing glide strip integrated as standard
 - Easy installation and connection of the e-tube
 - Open design - dirt and debris fall through
- More information ▶ From page 1362**

