



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	-	040	054	≈ 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	050	064	≈ 0.74	≈ 0.87	E4.31L.137.R.0**	-	137	151	≈ 0.98	-
E4.31L.062.R.0	-	062	076	≈ 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**	075	089	≈ 0.78	≈ 1.01	E4.31L.162.R.0	-	162	176	≈ 1.04	-
E4.31L.087.R.0	-	087	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.	-	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.

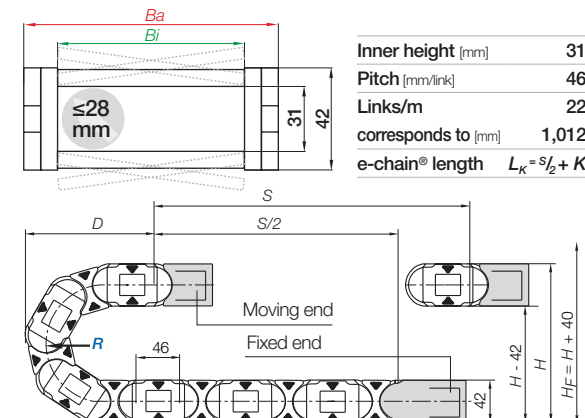
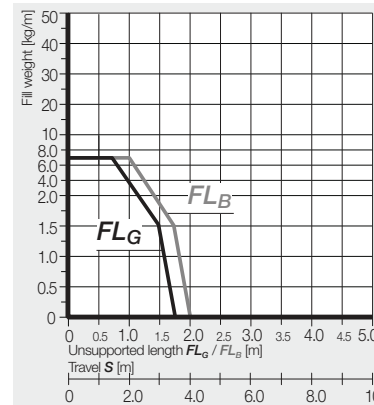
1) Radius not available for e-tubes

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

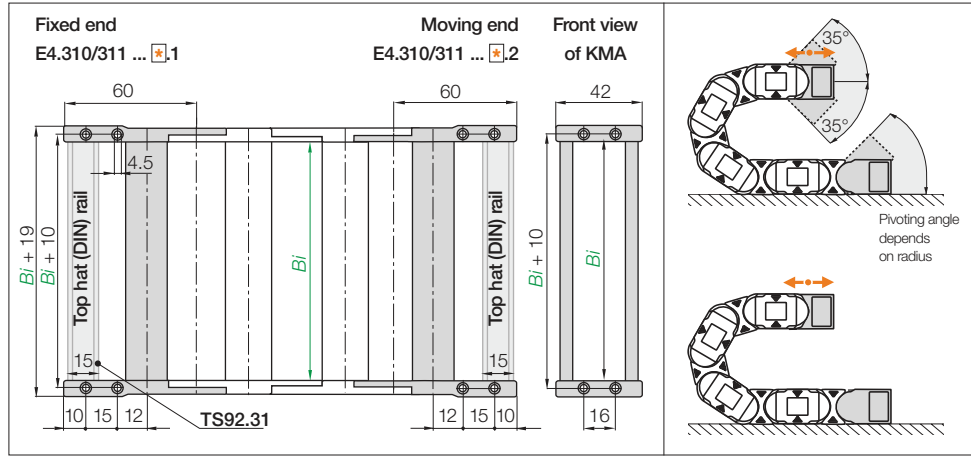


R	055 ¹⁾	063 ¹⁾	075	100	125	150	175	200	250
H	152	168	192	242	292	342	392	442	542
D	145	153	165	190	215	240	265	290	340
K	265	290	330	410	485	565	645	725	880

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	040	125.	E4.310.125.12.C	E4.311.125.12.C	125
050.	E4.310.050.12.C	E4.311.050.12.C	050	137.	E4.310.137.12.C*	E4.311.137.12.C*	137
062.	E4.310.062.12.C	E4.311.062.12.C	062	150.	E4.310.150.12.C	E4.311.150.12.C	150
075.	E4.310.075.12.C	E4.311.075.12.C	075	162.	E4.310.162.12.C	E4.311.162.12.C	162
087.	E4.310.087.12.C	E4.311.087.12.C	087	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

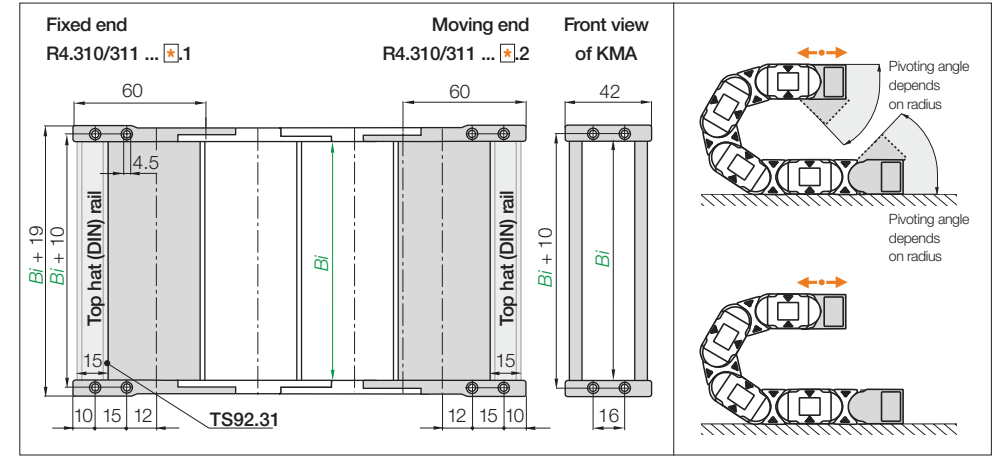
(KMA = polymer metal mounting bracket) For the TS92.31 top-hat (DIN) rail option please add index .C

*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 tie-wrap 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 1330

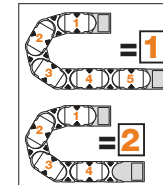


KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

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®.

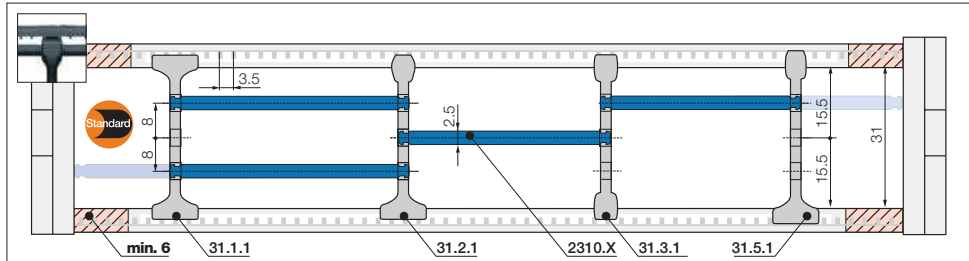


Note: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index 1 (for odd) or 2 (for even) depending on an even or odd number of links required. Please add the index .A2 for the preassembled standard version, with C-profile in the inner radius at the moving end and in the outer radius at the fixed end.

E4.310.100.2.12.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, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



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 in the e-chain®.

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 in the e-chain®.

Notch separator for notched crossbar

unassembled	31.5
assembled	315.1

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

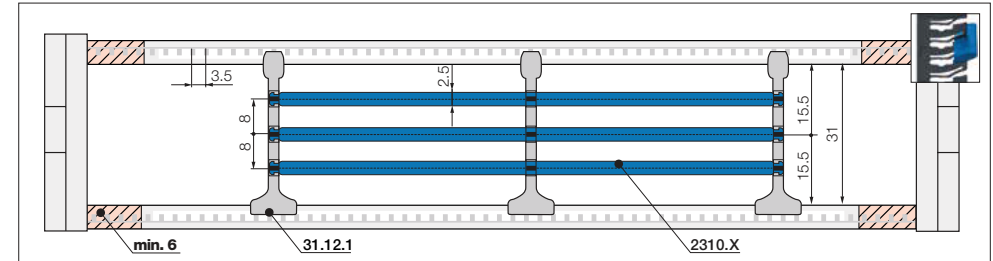
Shelf, lockable

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 separator

unassembled	31.12
assembled	31.12.1

Lean separators
New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time
(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® harnessing factory)



Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point in the e-chain®
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any tools
- Part No. 31.Z. More information ► From page 1326**



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-chain®
 - Open design - dirt and debris fall through
- More information ► From page 1270**



Swarf up to +850°C

- e-tubes to withstand +850°C swarf, as a special option
 - No hot swarf melting or embedding into the chain
 - igus® igumid HT material
- More information ► www.igus.eu/HT**

