

... 2400

... 2500

Standard

e-chains® Series 2400 Crossbars openable along the inner radius, from both sides
e-chains® Series 2500 Crossbars openable along the outer radius, from both sides

Part No. e-chains® openable along inner radius	Part No. e-chains® openable along outer radius	Bi [mm]	Ba [mm]	R Available bend radii [mm]	2400 [kg/m]	2500 [kg/m]
2400.02.R.0	2500.02.R.0 [▲]	25	41	055 075 100 125 150 175 200 225 250	≈ 0.77	≈ 0.77
2400.03.R.0 [⊙]	2500.03.R.0 [⊙]	38	54	055 075 100 125 150 175 200 225 250	≈ 0.83	≈ 0.83
2400.05.R.0	2500.05.R.0 [⊙]	57	73	055 075 100 125 150 175 200 225 250	≈ 0.91	≈ 0.91
2400.07.R.0	2500.07.R.0 [▲]	77	93	055 075 100 125 150 175 200 225 250	≈ 1.01	≈ 1.01
2400.09.R.0	2500.09.R.0 [▲]	89	105	055 075 100 125 150 175 200 225 250	≈ 1.08	≈ 1.08
2400.10.R.0	2500.10.R.0 [⊙]	103	119	055 075 100 125 150 175 200 225 250	≈ 1.15	≈ 1.15
2400.12.R.0	2500.12.R.0 [▲]	125	141	055 075 100 125 150 175 200 225 250	≈ 1.22	≈ 1.22

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

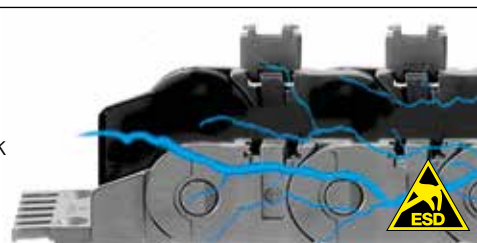
⊙ RBR version (Reverse Bend Radius), some radii available from stock. More information ► From page 130

Half e-tubes, series 2450 and full e-tubes, series 2480 ► From page 400

Complete Part No. with required radius (R). Example: 2500.03.100.0

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 or at ► www.igus.eu/esd



Rotating energy supply systems with Reverse Bend Radius (RBR) - some radii available from stock

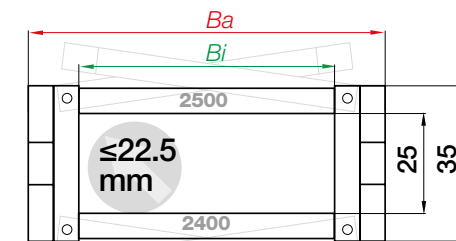
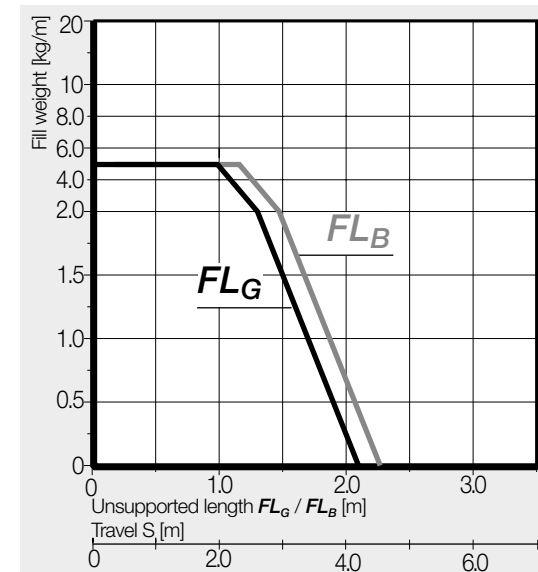
- Maximum rotation angle in minimal installation space
 - Minimal friction forces and maximum service life
 - Short delivery times, from stock
- More information and the complete product range ► From page 130



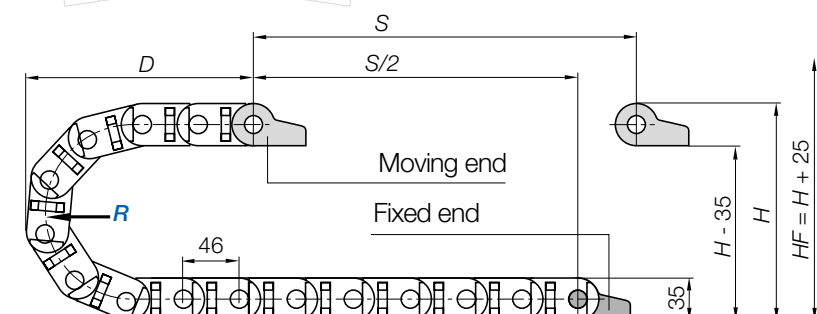
► 1392



► 1312



Inner height [mm]	25
Pitch [mm/link]	46
Links/m	22
corresponds to [mm]	1,012
e-chain® length	$L_K = S/2 + K$

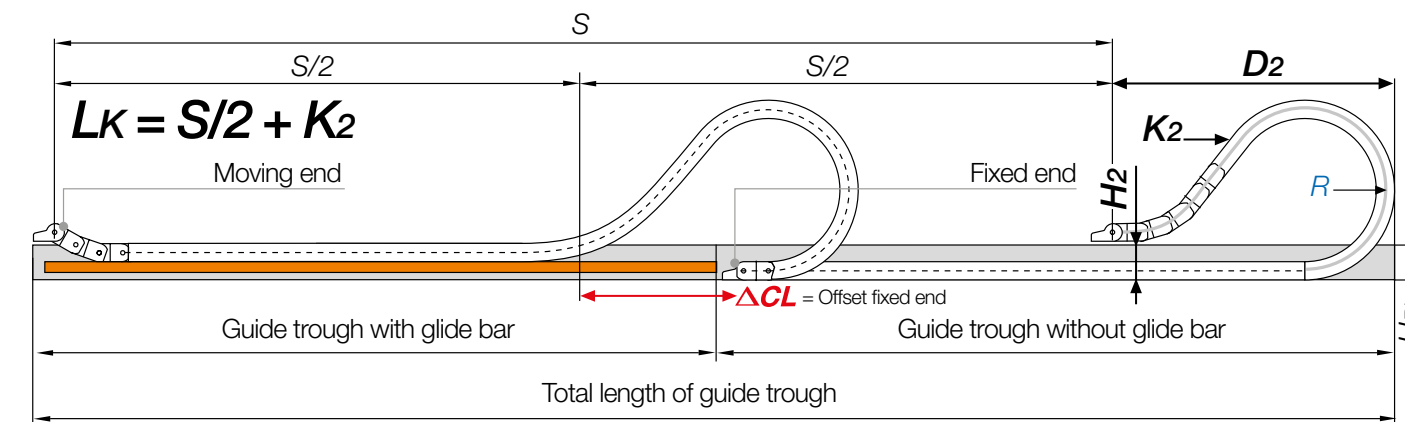


R	055	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880

The required clearance height: $H_F = H + 25\text{mm}$ (with 1.5kg/m fill weight)

Before using series 2400 on long travels please consult igus®.

Gliding applications | For travel lengths 10m to max. 100m



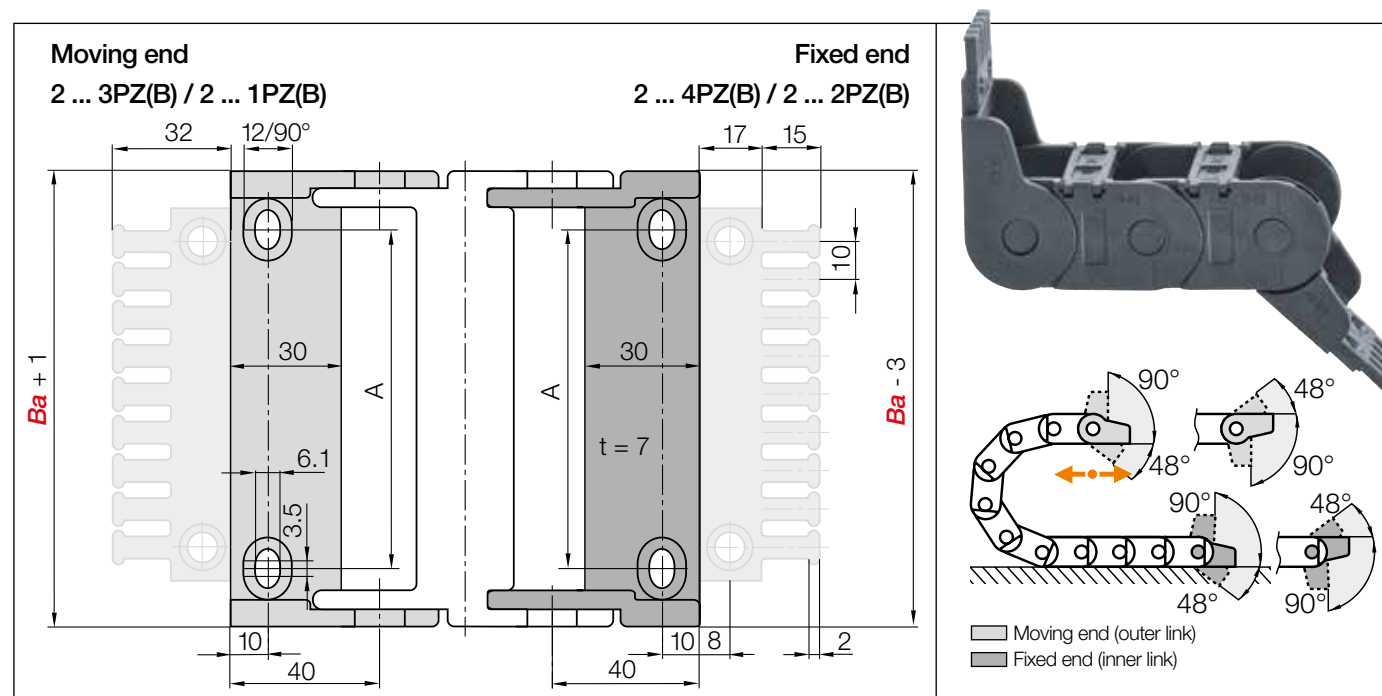
Note: before using series 2400/2450/2480 on long travels please consult igus®.

For long travels, igus® recommends series 2500 openable along the outer radius.

In case of travels between 4 and 10m we recommend an e-chain® with a longer unsupported length.

R	055	075	100	125	150	175	200	225	250
H ₂	110	150	100	100	100	100	100	100	100
D ₂ +25	142	162	380	440	590	755	950	1,040	1,130
K ₂	265	330	644	736	1,012	1,242	1,472	1,610	1,794
ΔCL	–	–	204	244	364	504	674	754	804

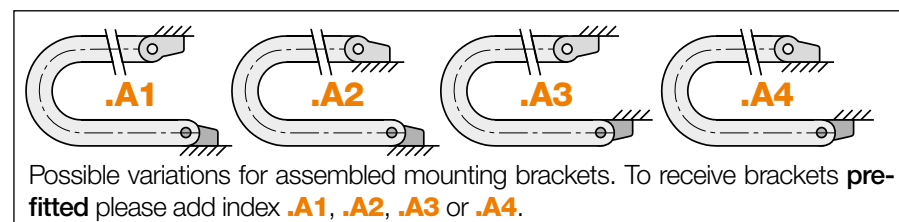
Before using series 2400 on long travels please consult igus®.



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

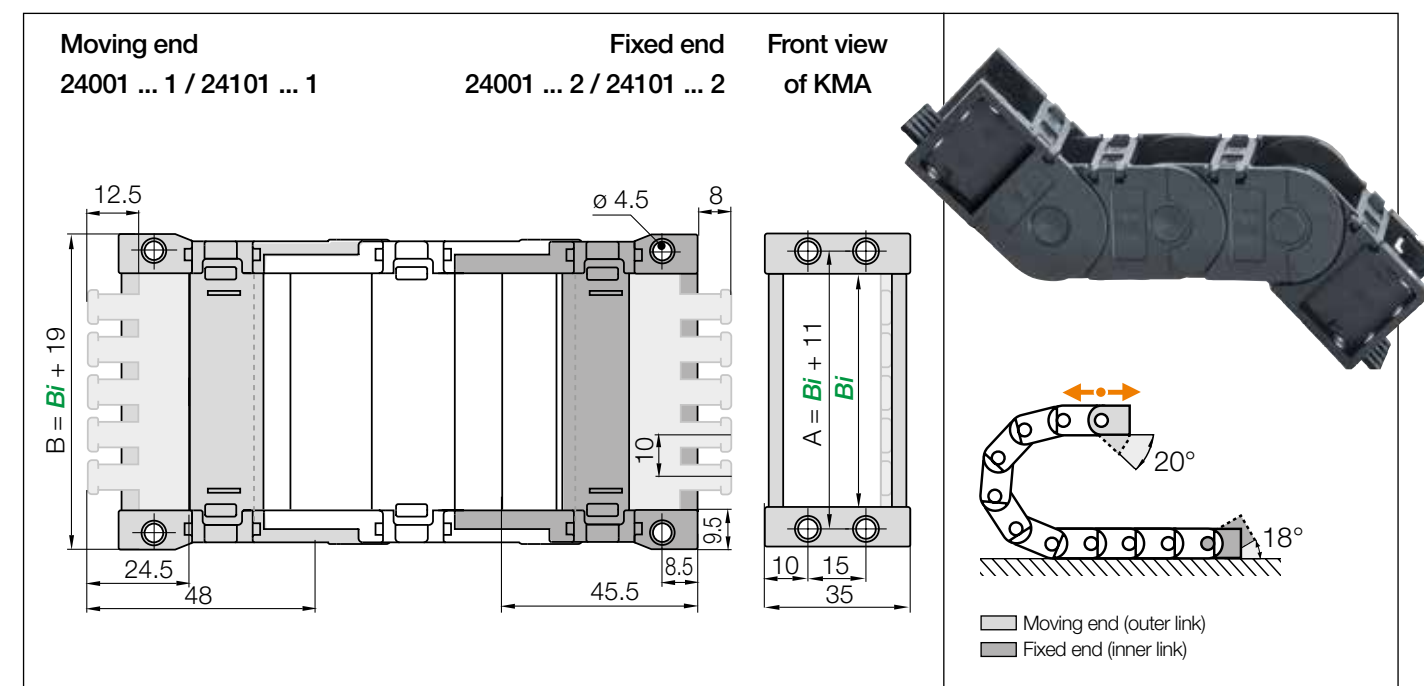
Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	Number of teeth
	with tie-wrap plates	without tie-wrap plate	with tie-wrap plates	without tie-wrap plate		
02. ▶	2020.34PZB	2020.34PZ	2020.12PZB	2020.12PZ	12	3
03. ▶	2030.34PZB	2030.34PZ	2030.12PZB	2030.12PZ	25	4
05. ▶	2050.34PZB	2050.34PZ	2050.12PZB	2050.12PZ	44	6
07. ▶	2070.34PZB	2070.34PZ	2070.12PZB	2070.12PZ	64	8
09. ▶	2090.34PZB	2090.34PZ	2090.12PZB	2090.12PZ	77	9
10. ▶	2100.34PZB	2100.34PZ	2100.12PZB	2100.12PZ	90	10
12. ▶	2125.34PZB	2125.34PZ	2125.12PZB	2125.12PZ	112	12

Full set with tie-wrap plate + 10 cable tie-wraps, please add index **K1**. Example: 2020.34PZBK1



2020.34PZBA1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tie-wrap plates
 Full set
 Series

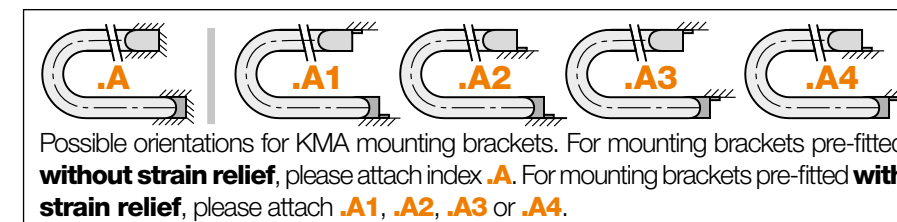
Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392



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		A [mm]	B [mm]	Number of teeth
	with tie-wrap plates	without tie-wrap plate	with tie-wrap plates	without tie-wrap plate			
02. ▶	24001.02.12ZB	24001.02.12	24101.02.12ZB	24101.02.12	36	44	2
03. ▶	24001.03.12ZB	24001.03.12	24101.03.12ZB	24101.03.12	49	57	4
05. ▶	24001.05.12ZB	24001.05.12	24101.05.12ZB	24101.05.12	68	76	6
07. ▶	24001.07.12ZB	24001.07.12	24101.07.12ZB	24101.07.12	88	86	7
09. ▶	24001.09.12ZB	24001.09.12	24101.09.12ZB	24101.09.12	100	108	9
10. ▶	24001.10.12ZB	24001.10.12	24101.10.12ZB	24101.10.12	114	122	10
12. ▶	24001.12.12ZB	24001.12.12	24101.12.12ZB	24101.12.12	136	144	12

(KMA = polymer metal mounting bracket)



24001.02.12ZB.A2 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tie-wrap plates
 Full set
 Width index
 Series

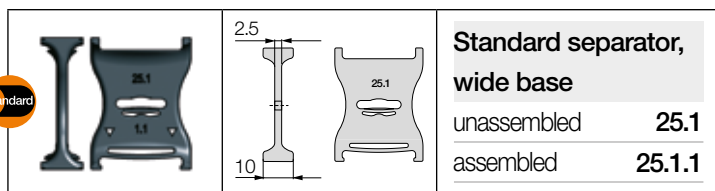
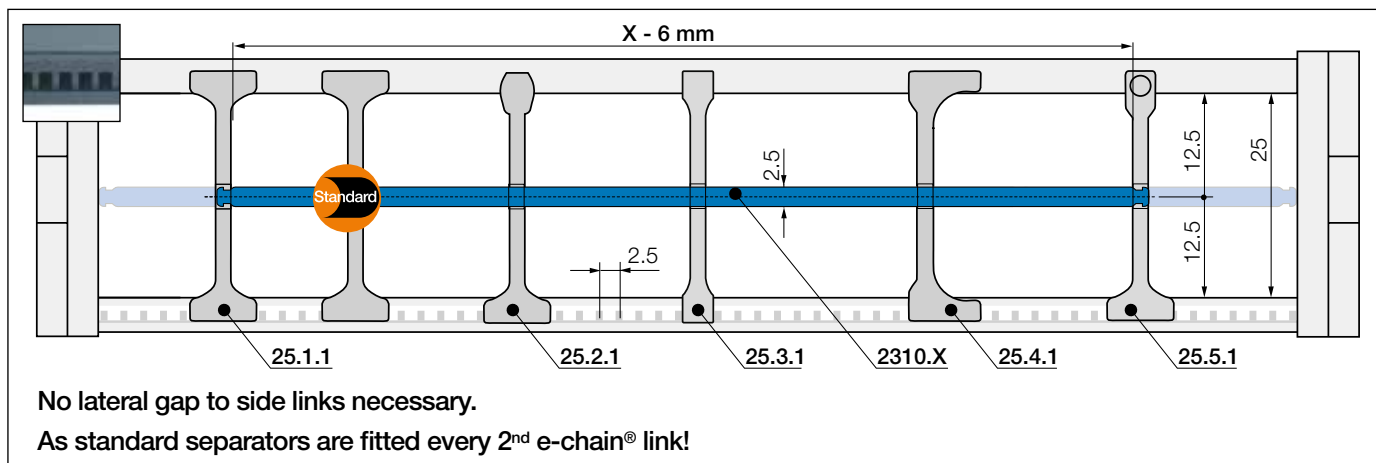


Option: steel mounting bracket, pivoting. For e-chains® and e-tubes, Part No. 2000.32
 ● Pivoting connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive

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

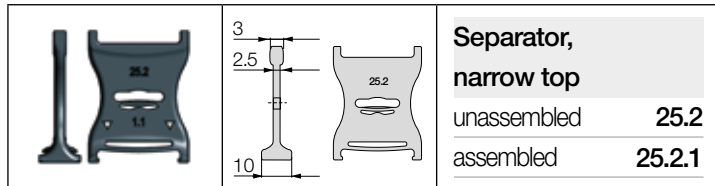
Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/2400 ► www.igus.eu/2500



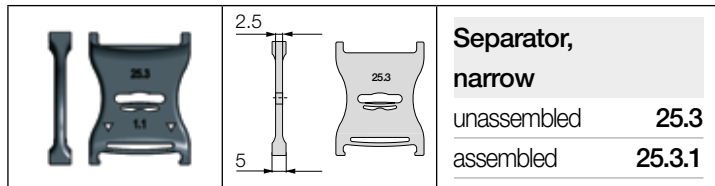
Standard - for any application

Separator with a wide base for maximum holding force.



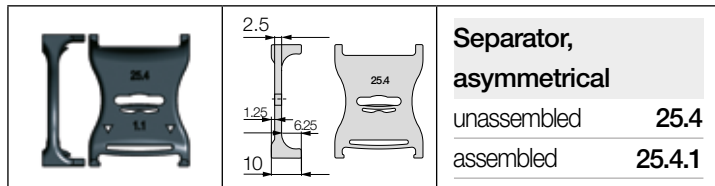
For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.



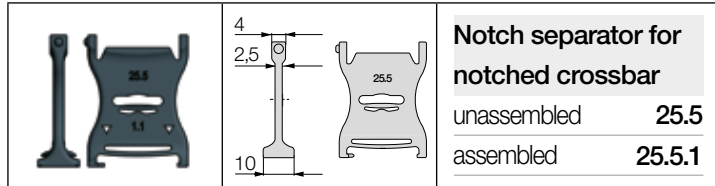
For small cables

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



For side-mounted applications

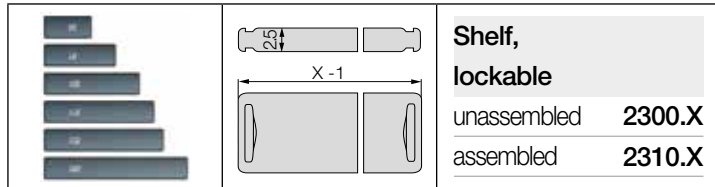
Asymmetrical separator, for defined gap distance. No additional spacers required.



Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

Note: For this series notches only on fixed crossbars, not on openable crossbars



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.

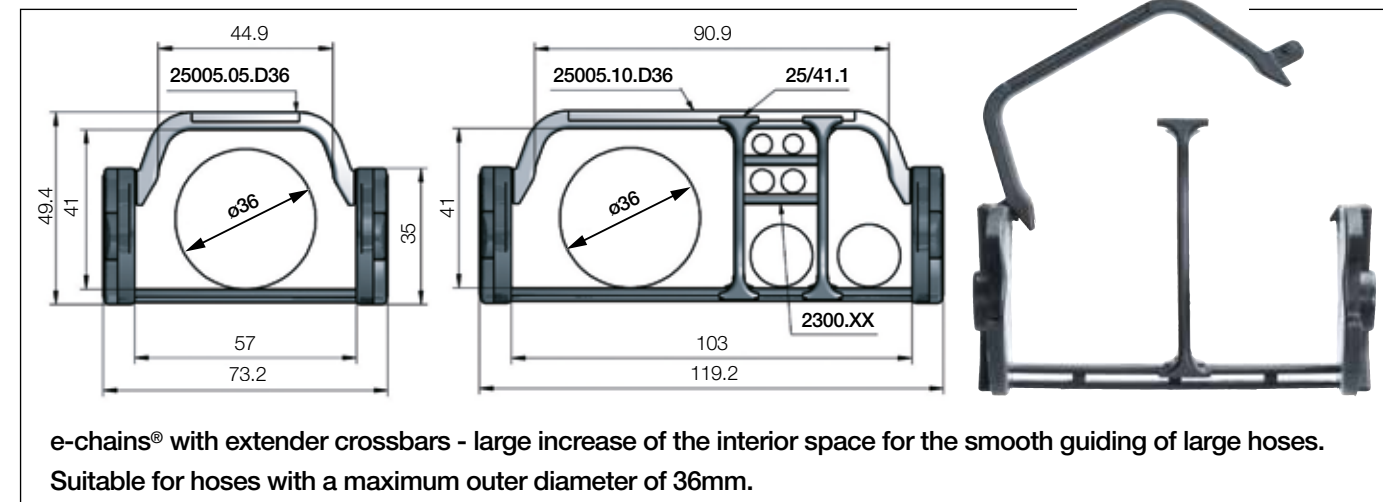
Shelves

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	2300.087	2310.087
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	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

e-chains® with extender crossbar | Product Range

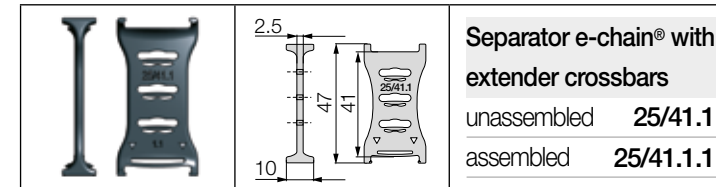


Part No. e-chains® Extender crossbars openable along inner radius	Part No. e-chains® Extender crossbars openable along outer radius	Bi [mm]	Ba [mm]	R Available bend radii [mm]
2400.05.D36 .R.0	2500.05.D36 .R.0	57	73	055* 075 100 125 150 175 200 225 250
2400.10.D36 .R.0	2500.10.D36 .R.0	103	119	055* 075 100 125 150 175 200 225 250

* Radius 055 only possible with e-chains® series 2500, openable along outer radius!

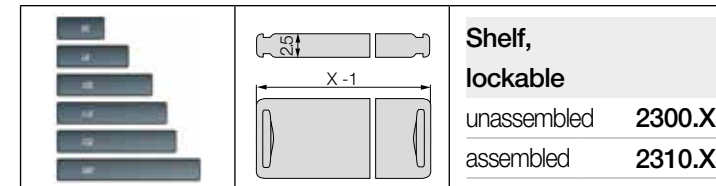
Complete Part No. with required radius (R). Example: 2500.05.D36.100.0

Interior separation for e-chains® with extender crossbars



Standard separator, wide base

Separator with a wide base for maximum holding force. As standard separators are fitted every 2nd e-chain® link!



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.

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. 2020.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-chain®
 - Open design - dirt and debris fall through
- More information ► From page 1362

