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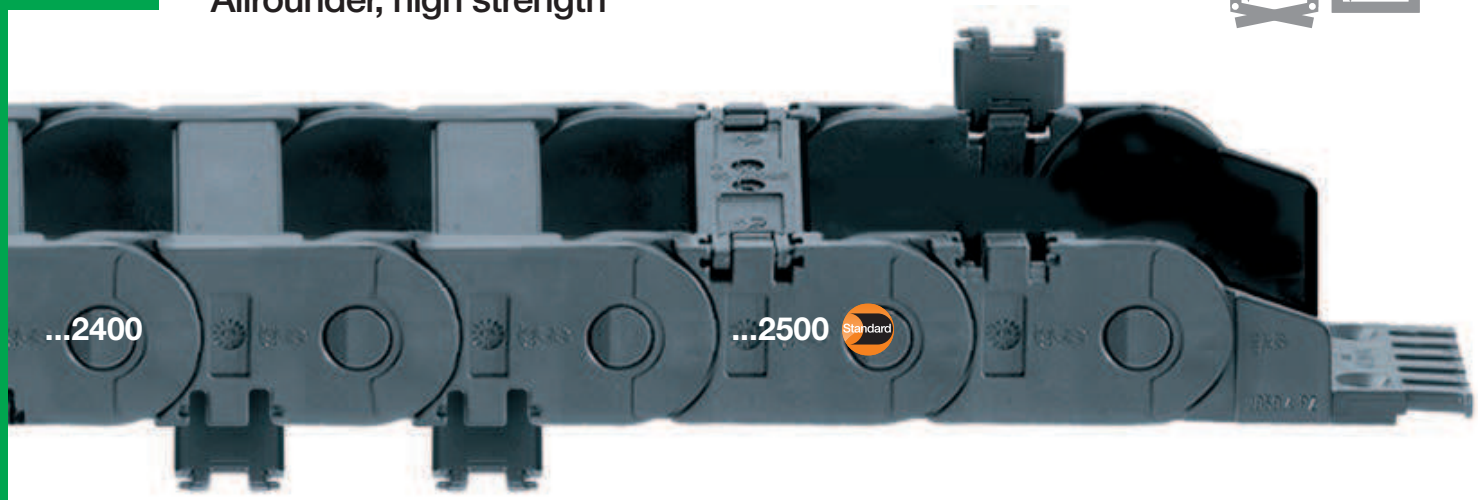
E2/000 | e-chains® 2400·2500 | Product range

Allrounder, high strength



e-chains® | 2400 snap-open along inner radius from both sides
e-chains® | 2500 snap-open along outer radius from both sides | Standard

e-chains® snap-open along the inner radius	e-chains® snap-open along the outer radius (Standard)	*Bi* [mm]	*Ba* [mm]	*R* Bend radii [mm]	2400 [kg/m]	2500 [kg/m]
2400. 02 .*R*.0	2500. 02 .*R*.0[1)]	25	41	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 0,77	≈ 0,77
2400. 03 .*R*.0	2500. 03 .*R*.0[1)]	38	54	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 0,83	≈ 0,83
2400. 05 .*R*.0	2500. 05 .*R*.0[1)]	57	73	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 0,91	≈ 0,91
2400. 07 .*R*.0	2500. 07 .*R*.0[1)]	77	93	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 1,01	≈ 1,01
2400. 09 .*R*.0	2500. 09 .*R*.0[1)]	89	105	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 1,08	≈ 1,08
2400. 10 .*R*.0	2500. 10 .*R*.0[1)]	103	119	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 1,15	≈ 1,15
2400. 12 .*R*.0	2500. 12 .*R*.0[1)]	125	141	| 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250	≈ 1,22	≈ 1,22

1) ⚠ ESD/ATEX version available from stock

Half e-tubes, series 2450 and full e-tube series 2480 ▶ from page 292
Non snap-open e-chains® E2 medium classics, series 200 ▶ www.igus.eu/200

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

ESD/ATEX permanently conductive e-chains® - 2500 several widths with delivery from stock: inner widths *Bi* 25 - 125, radii *R* 055 - 175. Full ESD product range ▶ www.igus.eu/ESD

Open e-chains® in a flash with the igus® e-chain® opener

Reduce assembly time from 33 to 2 sec. with the igus® e-chain® opener. Open a long piece of e-chain® in one go. **Part No. 908.254.2400** for series 2400/2500. For widths *Bi* [mm]: 05, 07, 09

More information ▶ www.igus.eu/savetime

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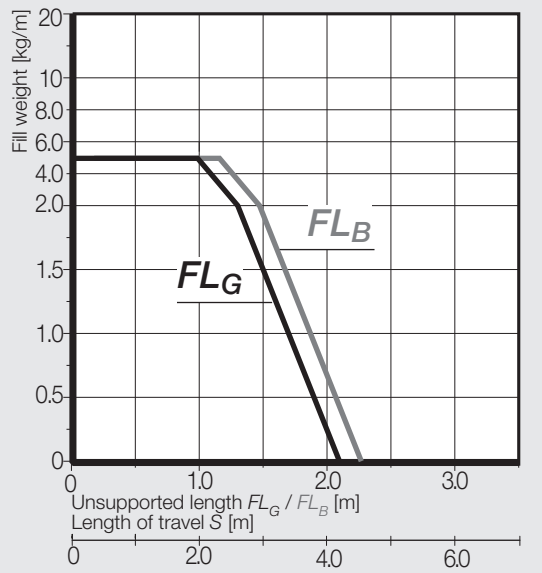
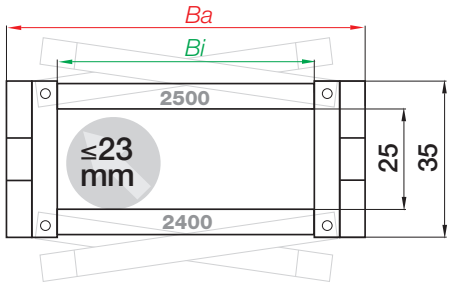
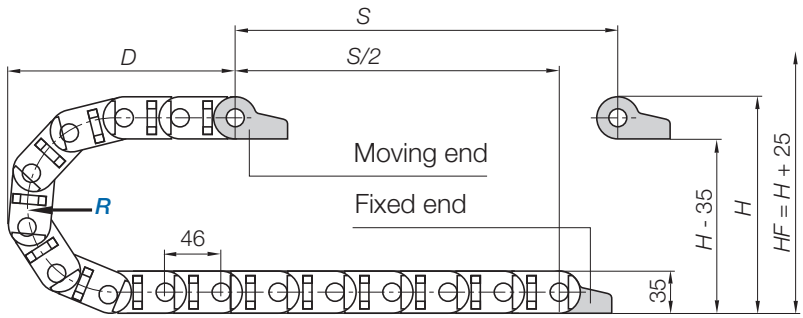
Unsupported applications | Short travels





Inner height 25 mm
Pitch 46 mm/link
Links/m 22 (1012 mm)
Chain length $S/2 + K$

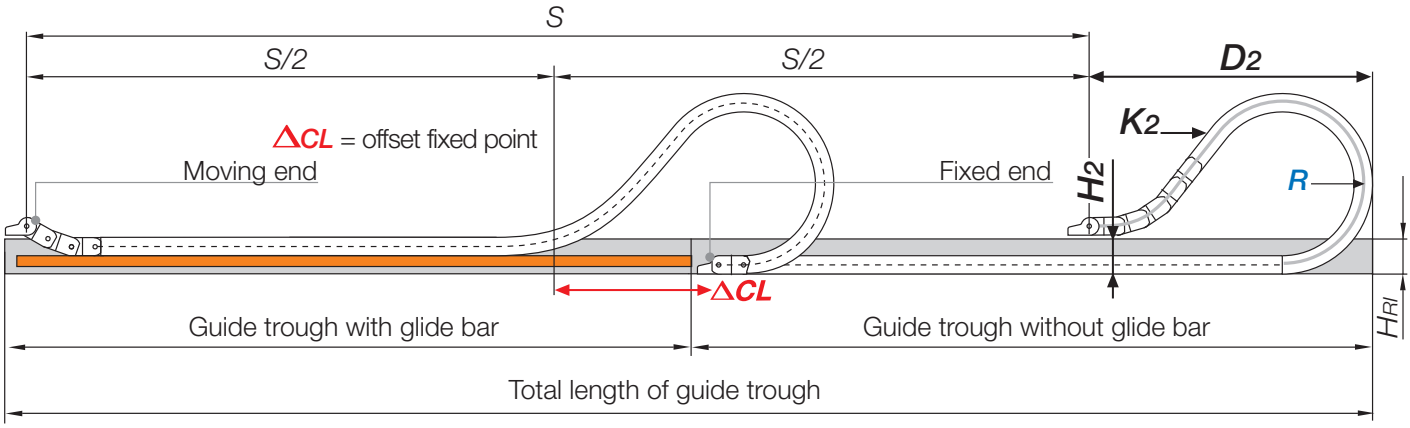


R	055	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880

The required clearance height: $H_F = H + 25$ mm (with 1,5 kg/m fill weight)

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

Gliding applications | Long travels from 10 m to max. 100 m



Note: for long travel (gliding) applications, please consult igus®.

For long travels, igus® specifies series **2500** that snaps open along the outer radius.

In case of travels between 4 and 10 m we recommend a longer unsupported length. **Chain length** $S/2 + K_2$

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	1040	1130
K_2	265	330	644	736	1012	1242	1472	1610	1794
ΔCL	–	–	204	244	364	504	674	754	804

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

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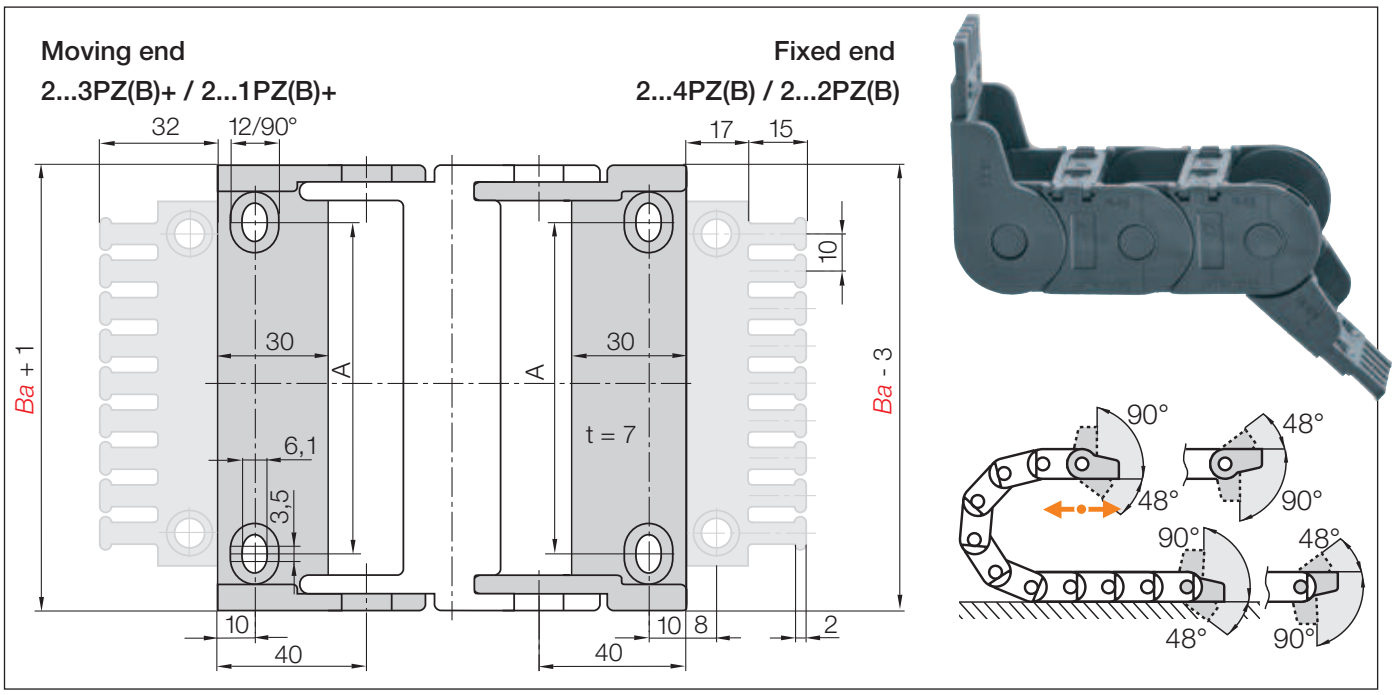
E2/000 | e-chains® 2400·2500 | Accessories

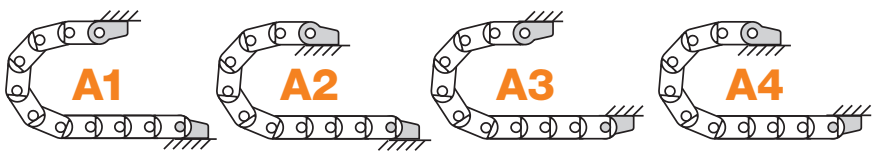
Mounting brackets, polymer | Pivoting | Locking



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

Width Index		Part No. full set **pivoting** **with** tiewrap plates	**without** tiewrap plates	Part No. full set **locking** **with** tiewrap plates	**without** tiewrap plates	A [mm]	Number of teeth
.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 tiewrap plate + 10 cable tiewraps, please add index **K1+** ▶ **e.g. 2020.34PZBK1+**



Possible installation orientations for assembled mounting brackets.
For the **preassembled** mode please add index **A1**... **A4**.

Part No. structure

2020. 34 PZB+ A1

- A...must be indicated on preassembled configurations
- With strain relief tiewrap plates
- **Full set pivoting = 34**
- Mounting bracket for selected width index

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶from page 656

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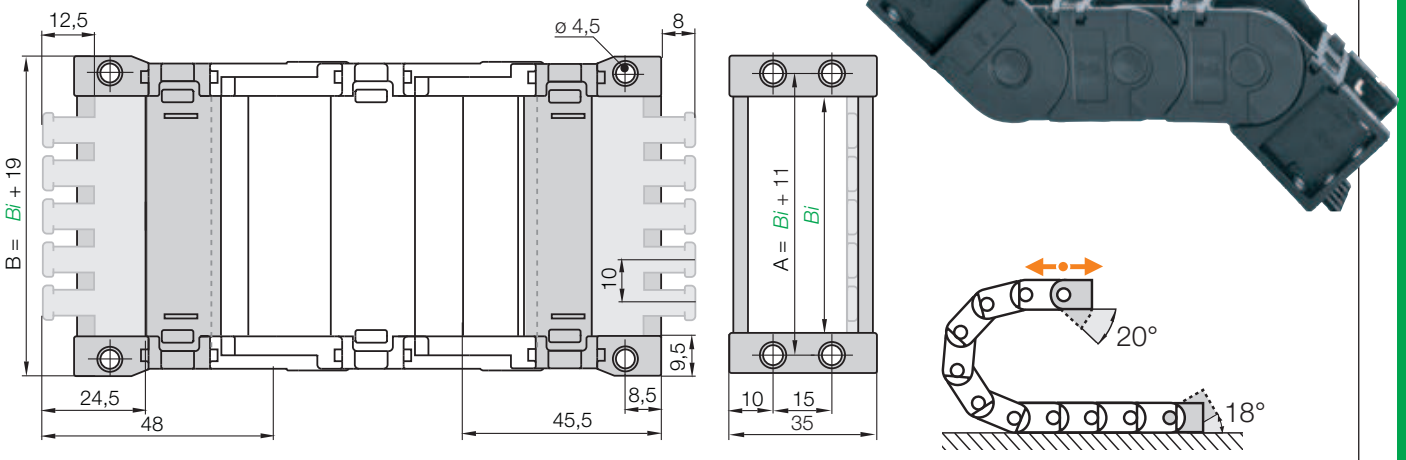
E2/000 | e-chains® 2400·2500 | Accessories

KMA mounting brackets | Attachment from any side | Pivoting | Locking

Moving end
24001...1 / 24101...1

Fixed end
24001...2 / 24101...2

Frontal view of KMA

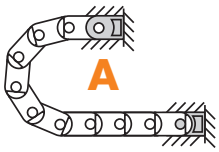


KMA pivoting | Recommended for unsupported and gliding applications

KMA locking | Recommended for vertical hanging and standing applications

Width Index		Part No. full set **KMA pivoting** **with** tiewrap plates	**without** tiewrap plates	Part No. full set **KMA locking** **with** tiewrap plates	**without** tiewrap plates	A [mm]	B [mm]	Number of teeth
.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)



The attachment orientations are set automatically in the choice of the KMA mounting bracket.For the **preassembled** mode please add index **A**.

Part No. structure

24001. 02. 12ZBA

- A…must be indicated on preassembled configurations
- **Full set** with strain relief tiewrap plates
- **Width index**
- KMA pivoting

Option: steel pivoting Part No. 2000.32 - for e-chains® and e-tubes available

● Pivoting connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶from page 656

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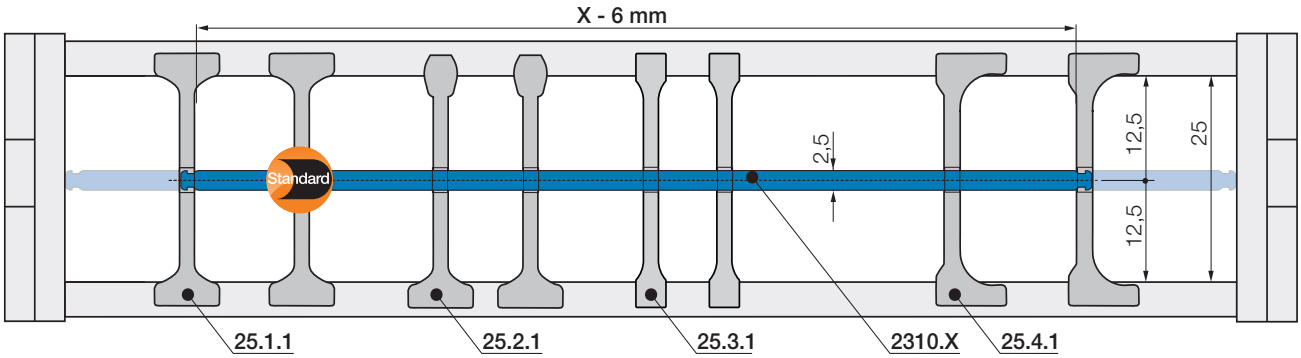
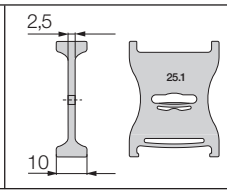
E2/000 | e-chains® 2400·2500 | Accessories

Interior separation | New generation

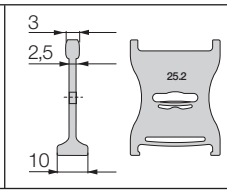
Previous interior separation with optional elements ▶www.igus.eu/2400 ▶www.igus.eu/2500



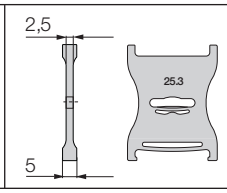
No lateral spacing to side links necessary.
As standard separators are assembled every 2nd e-chain® link.



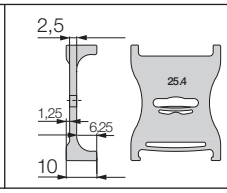
Standard separator, wide base	
unassembled	**25.1**
assembled	**25.1.1**



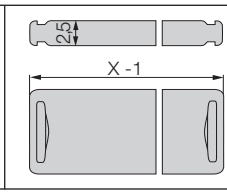
Separator, narrow head	
unassembled	**25.2**
assembled	**25.2.1**



Separator, narrow base	
unassembled	**25.3**
assembled	**25.3.1**



Separator, asymmetrical	
unassembled	**25.4**
assembled	**25.4.1**



Full-width shelf, lockable	
unassembled	**2300.X**
assembled	**2310.X**

Standard - for any application

Separator with a wide base for maximum holding strength in the e-chain®.

For even faster installation

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

For thin cables

Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.

For side-mounted applications

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

Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Separators can be moved freely over the shelf in horizontal direction. Can be fitted at one height.

Lockable full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width 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**

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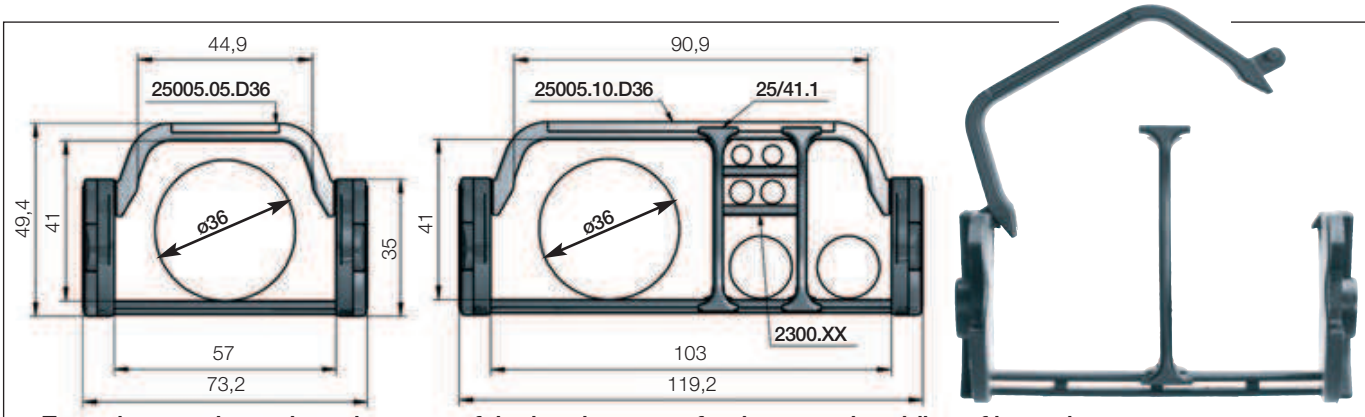
e-chains® 2400·2500 | Further accessories

Extender crossbars



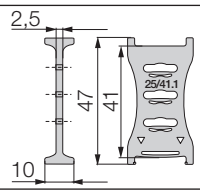
Extender crossbars - large increase of the interior space for the smooth guiding of larger hoses.
Suitable for hoses with an outer diameter of max. 36 mm.

Extender crossbars for e-chains® **snap-open along the inner radius**	Extender crossbars for e-chains® **snap-open along the outer radius**	*Bi* [mm]	*Ba* [mm]	*R* 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

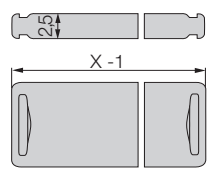
Supplement Part No. with required radius *(R)*. Example: **2500.05D36.100.0**

Interior separation for extender crossbars



Standard separator, wide base

unassembled **25/41.1**
assembled **25/41.1.1**



Full-width shelf, lockable

unassembled **2300.X**
assembled **2310.X**

Standard separator, wide base

For maximum holding strength and safe standing. In standard configuration separators are assembled every 2nd link.

Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Separators can be moved freely over the shelf in horizontal direction. Can be fitted at 3 different heights.

Separator with integrated strain relief

Strain relief separator Part No. 2020.Z can be integrated into the mounting bracket and can be placed at any point of the e-chain®. It combines strain relief and interior separation, it can be installed on the first or last e-chain® link and is easy to assemble without any screws. **More information ▶from page 676**

Optional: support tray kit - for support of the lower run

- Simple one-piece support trays according to your requirements and specification
- Easy installation onto your machine, on profiles or wall-mount brackets
- igus® support tray - available in 2 types and 4 options

More information ▶from page 740

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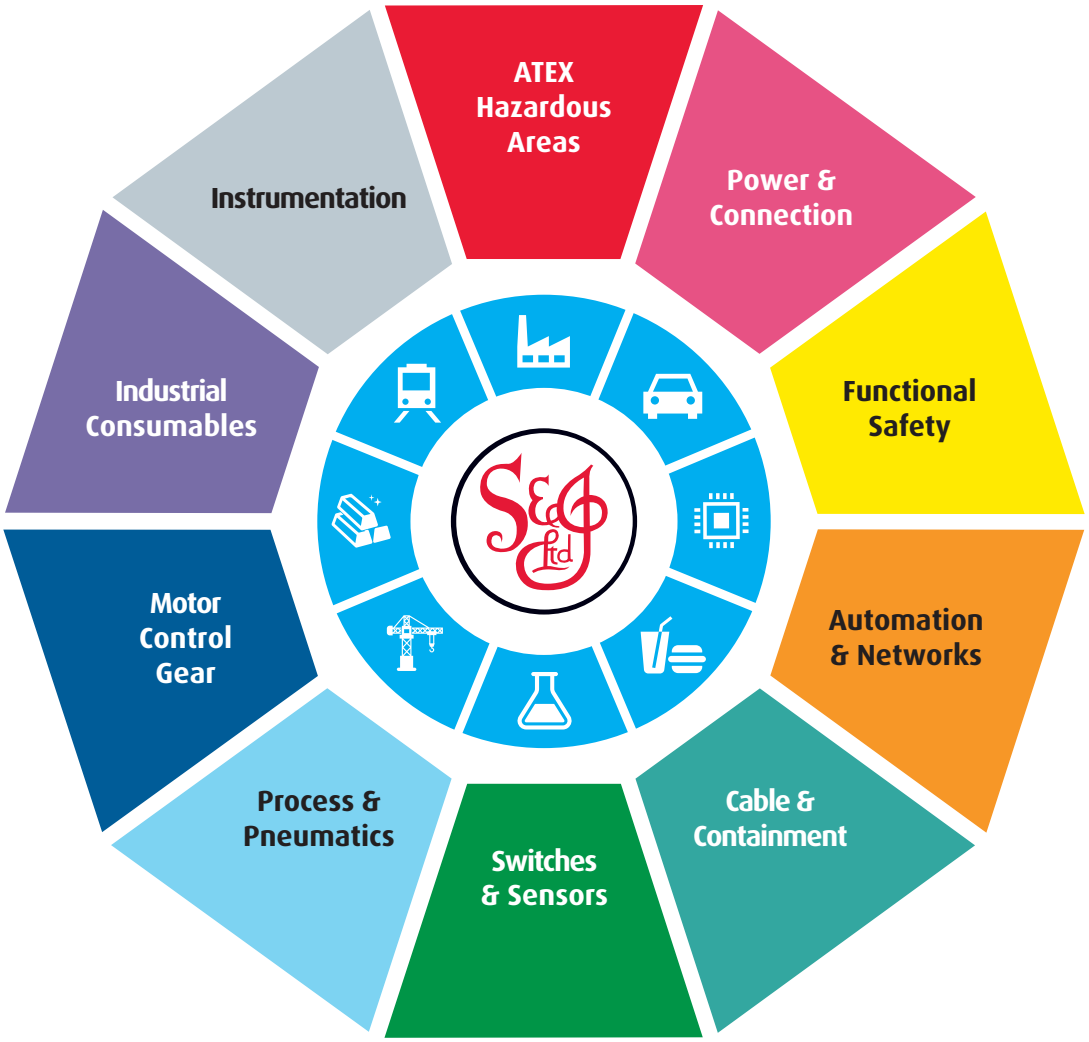

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