



E2.1

New generation E2/000 e-chains® **New**



Advantages of the E2.1 series:

- More useable interior space with inner heights of 26, 38 and 48mm while the outer height is the same as the E2/000 e-chains®
- Easy to open - openable along the inner and outer radius, from both sides (left or right)
- Greater strength for unsupported applications
- Longer service life for gliding applications
- Integrated grid for interior separation in 2.5mm steps
- Cable-friendly due to smooth interior
- Quiet operation due to integrated brake
- igus® e-chain® opener for rapid opening in seconds, available for Series E2.38
- Complete interior separation range



When to use another e-chain® series:

- When a light, cost-effective e-chain®/e-tube with higher dynamics is needed ► **E4.1L, from page 524**
- When even higher strength is required ► **E4.1L, from page 524**
- For very simple applications with fast filling ► **easy chain®, page 198**

Universal connection:
many mounting options
with or without strain relief

Easy to open:
openable along the inner
and outer radius, from
both sides (left or right)

Cable-friendly:
very smooth
contours ensure
the longest
cable life

Economical:
E2.1 is lighter and
offers more inner
height than the E2/000
system with the same
outer dimensions

Quiet operation:
integrated brake
reduces noise

Long service life:
due to integrated
gliding surfaces even
on long travels

High strength:
large pin/bore and
crossbar with high
locking force

New generation E2/000 e-chains® - E2.1

The proven e-chain system® E2/000 has been the worldwide standard in machinery since the year 2000. Continuous improvements over many years have now been combined in the new generation E2.1 and a new standard has been set. More usable filling space with the same outer dimensions and lower noise with increased service life and strength.

- More useable interior space while the outer height is the same as the E2/000 e-chains®
- Easy to open - openable along the inner and outer radius, from both sides (left or right)
- Quiet operation due to optimised brake
- Greater strength for unsupported applications
- Longer service life for gliding applications
- Notched crossbar with 2.5mm spacing
- Complete interior separation range

Typical industries and applications

- Machine tools ● Wood processing machines
- General mechanical engineering and all other areas



Open 1m e-chain® in 2 seconds. igus® e-chain® opener for rapid opening in seconds, available for Series E2.38

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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E2i.1
crossbars openable along the
inner radius, from both sides

E2i.26**	26	upon request	upon request	35	048 - 250	2.25	342
E2i.38**	38	upon request	upon request	50	063 - 250	2.75	348
E2i.48**	48	upon request	upon request	64	075 - 300	3.00	354

**Available upon request. Please consult igus® for delivery time.



E2.1
crossbars openable along the
outer radius, from both sides

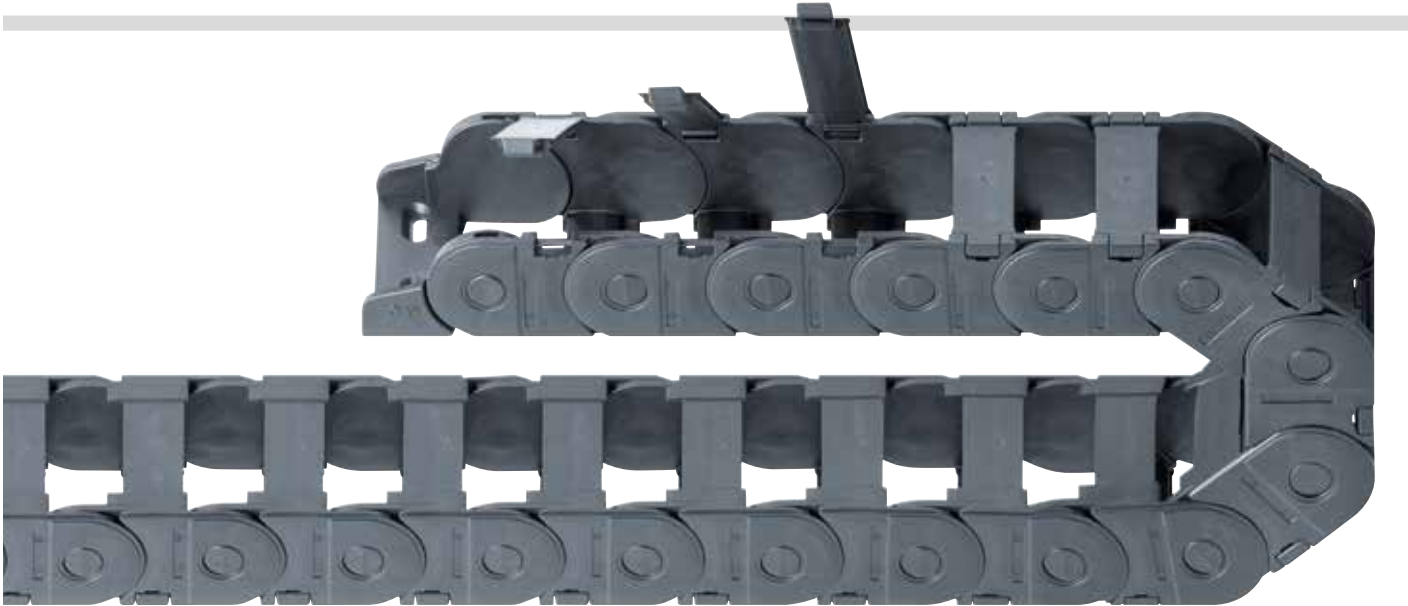
E2.26* New	26	38 - 77	55 - 94	35	048 - 250	2.25	342
E2.38* New	38	50 - 100	67 - 117	50	063 - 250	2.75	348
E2.48* New	48	75 - 150	97 - 172	64	075 - 300	3.00	354

*More widths upon request. Please consult igus® for delivery time.

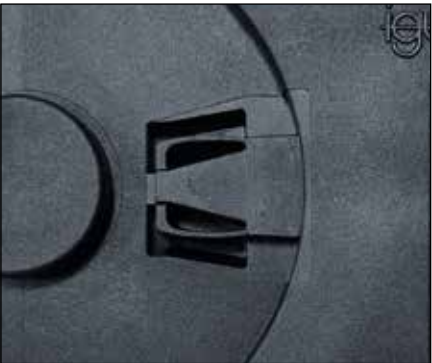


Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.



More useable filling space, quiet operation due to integrated brake - the new generation E2 e-chains®



Special brake in the stop-dogs reduces noise level by up to 3 dB(A)



Crossbar openable both sides and from above or from the side, using only a screwdriver



Separators are secure even when e-chain® is open



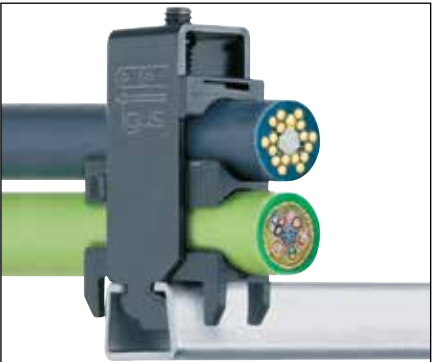
Plastic-metal mounting brackets for strong connection of the e-chain® to the machine, optionally available with C-profile



Integrated gliding surfaces ensure a long service life, even for long travels



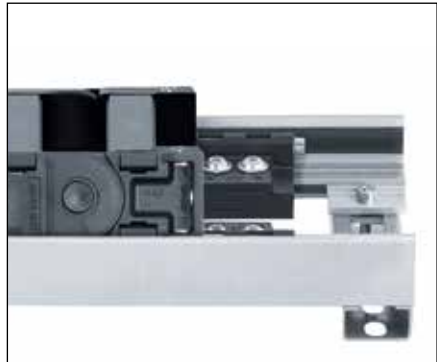
Lean separators enable extremely fast cable filling in several layers



Strain relief e.g. clamps, tie-wrap plates, nuggets, etc. ► From page 1300



Aluminium SuperTrough - the standard igus® guide trough ► From page 1208



Aluminium support tray for support of the lower run ► From page 1270

Technical data

	Speed gliding ¹⁾ / acceleration gliding ¹⁾	≤ 10 [m/s] / ≤ 50 [m/s ²]
	Speed FL_G / acceleration FL_G	≤ 20 [m/s] / ≤ 200 [m/s ²]
	Speed FL_B / acceleration FL_B	≤ 3 [m/s] / ≤ 6 [m/s ²]
	Material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid G	VDE 0304 IIC UL94-HB

■ **FL_G** = unsupported with straight upper run ■ **FL_B** = unsupported with permitted sag
1) For openable series along the inner radius in gliding applications, please consult igus®

Installation types, maximum travels

Series								
E2i.26 / E2.26	≤ 4.25m	≤ 100m	≤ 40m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request
E2i.38 / E2.38	≤ 5.5m	≤ 120m	≤ 50m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request
E2i.48 / E2.48	≤ 6.0m	≤ 150m	≤ 80m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request

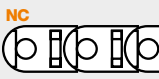
1) For openable series along the inner radius in gliding applications, please consult igus®

Reduce assembly time - E2.1 e-chain® opener

- igus® e-chain® opener for rapid opening in seconds, available for Series E2.38
 - Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
- More information ► www.igus.eu/E2.1opener



Options with order keys | Examples based on series E2i.38/E2.38

	Standard	Optional noise dampers	NC version - (No Camber) without pretension	Reverse Bend Radius (RBR) for circular movements
Part No. Standard	Part No. Low noise (with pads)	Part No. NC version	Part No. RBR	
				
E2i.38.065.R.0	ES2i.38.065.R.0	E2i.38.065.R.0.NC	E2i.38.065.R1/R2.0	
e-chain® openable along inner radius ¹⁾	e-chain® openable along inner radius ¹⁾	e-chain® openable along inner radius ¹⁾	e-chain® openable along inner radius ¹⁾	
E2.38.065.R.0	—	E2.38.065.R.0.NC	E2.38.065.R1/R2.0	
e-chain® openable along the outer radius ¹⁾		e-chain® openable along the outer radius ¹⁾	e-chain® openable along the outer radius ¹⁾	
	Ready to ship* in 24 - 48hrs.	Available upon request	Delivery time* 2-5 business days	Available upon request

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

1) For openable series along the inner radius in gliding applications, please consult igus®

Unsupported lengths +25% possible	ESD - electrically conductive material	Magnetically detectable plastic e-chains®
Part No. XXL material ²⁾	Part No. igumid ESD	Part No. igumid DT
		
E2i.38.065.R.0.XXL	E2i.38.065.R.0.ESD	E2i.38.065.R.0.DT
e-chain® openable along inner radius ¹⁾	e-chain® openable along inner radius ¹⁾	e-chain® openable along inner radius ¹⁾
E2.38.065.R.0.XXL	E2.38.065.R.0.ESD	E2.38.065.R.0.DT
e-chain® openable along the outer radius ¹⁾	e-chain® openable along the outer radius ¹⁾	e-chain® openable along the outer radius ¹⁾
Available upon request	Available upon request	Available upon request

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

1) For openable series along the inner radius in gliding applications, please consult igus®

2) Bottom part made from XXL material

Order example | Examples based on series E2.38

	Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:		
e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 22 links	E2.38.065.100.0	
+ Mounting brackets	1 set (with tiwrap plates)	2606.34PZB	
Interior separation	with 2 separators assembled every 2 nd link	2 x 38.1.1	
Order text:	1 m E2.38.065.100.0 + 2606.34PZB + 2 x 38.1.1		

Order key and colour examples | Examples based on series E2i.38/E2.38



Order key

e-chains® openable along the inner radius

E2i.38.065.100.0

e-chains® openable along the outer radius

E2.28.065.100.0



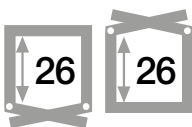
Order index for colour options

Colour	Order index	Colour	Order index
 Black	Standard .0	 Orange	Special colour .2
 Silver-grey	Special colour .31	 Yellow	Special colour .4
 White	Special colour .1	 Light grey	Special colour .14
 Grey-white	Special colour .1S		

Black e-chains® available from stock.

Above special colours upon request.

Quiet operation, stronger and quicker to open



e-chains® | Series E2i.26 | Crossbars openable along the inner radius, from both sides
e-chains® | Series E2.26 | 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]	E2i.26 [kg/m]	E2.26 [kg/m]
E2i.26.025.R.0*	E2.26.025.R.0*	25	42	048 055 075 100 125 150 175 200 225 250	≈ 0.77	≈ 0.77
E2i.26.038.R.0*	E2.26.038.R.0	38	55	048 055 075 100 125 150 175 200 225 250	≈ 0.84	≈ 0.84
E2i.26.057.R.0*	E2.26.057.R.0	57	74	048 055 075 100 125 150 175 200 225 250	≈ 0.92	≈ 0.92
E2i.26.077.R.0*	E2.26.077.R.0	77	94	048 055 075 100 125 150 175 200 225 250	≈ 0.99	≈ 0.99
E2i.26.089.R.0*	E2.26.089.R.0*	89	106	048 055 075 100 125 150 175 200 225 250	≈ 1.03	≈ 1.03
E2i.26.103.R.0*	E2.26.103.R.0*	103	120	048 055 075 100 125 150 175 200 225 250	≈ 1.10	≈ 1.10
E2i.26.125.R.0*	E2.26.125.R.0*	125	142	048 055 075 100 125 150 175 200 225 250	≈ 1.19	≈ 1.19

*Width available upon request. Please consult igus® for delivery time.
Complete Part No. with required radius (R). Example: **E2.26.038.048.0**

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

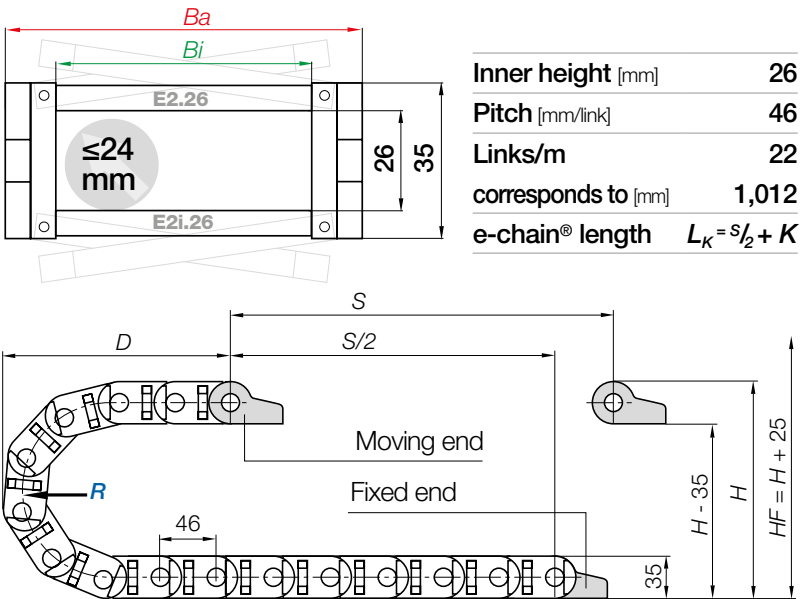
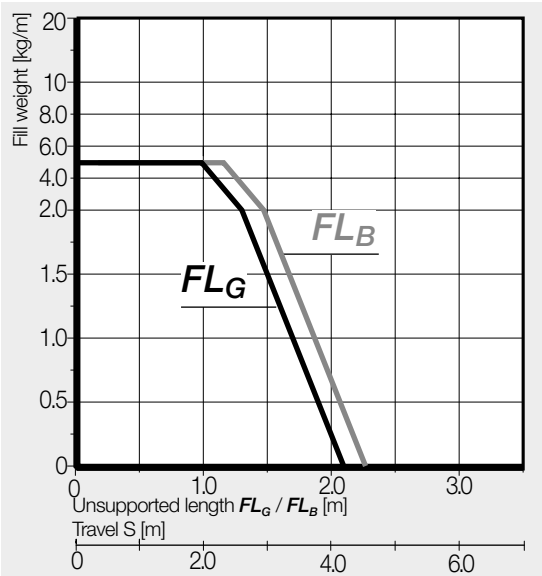
More information ► From page 1270

Unsupported applications | Short travels

► 1300

► 1220

E2i.26
E2.26

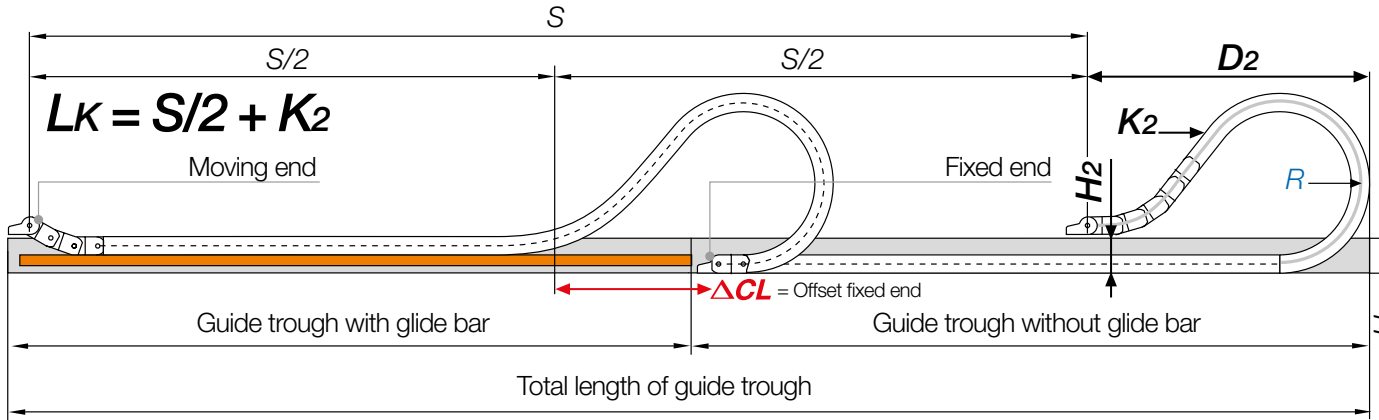


R	048	055	075	100	125	150	175	200	225	250
H	131	145	185	235	285	335	385	435	485	535
D	135	142	162	187	212	237	262	287	312	337
K	245	265	330	410	485	565	645	725	800	880

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

Before using series E2i.26 on long travels please consult igus®.

Gliding applications | For long travels from 10m to max. 100m



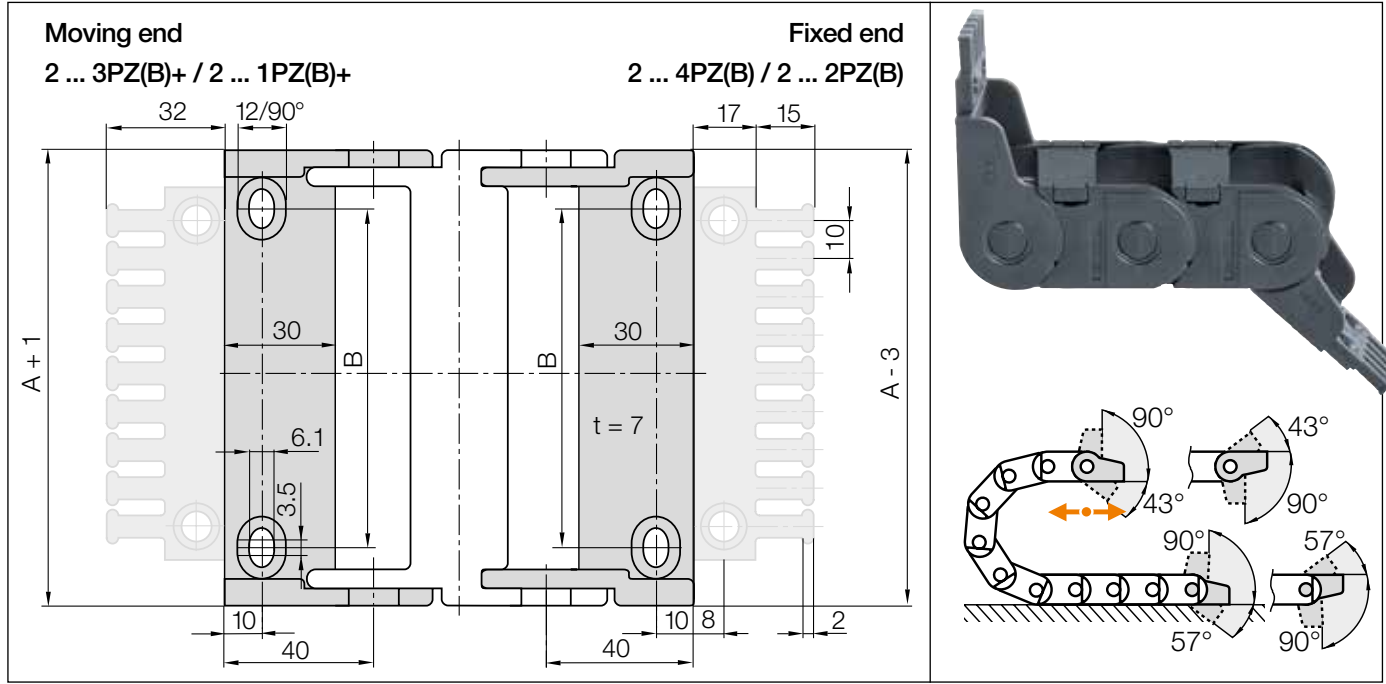
Note: Before using series E2i.26 on long travels please consult igus®.

For long travels, igus® recommends series E2.26 openable along the outer radius.

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

R	048	055	075	100	125	150	175	200	225	250
H ₂	131	110	150	100	100	100	100	100	100	100
D ₂ ⁺²⁵	135	145	162	380	440	590	755	950	1,040	1,130
K ₂	245	265	330	644	736	1,012	1,242	1,472	1,610	1,794
ΔCL	—	—	—	204	244	364	504	674	754	804

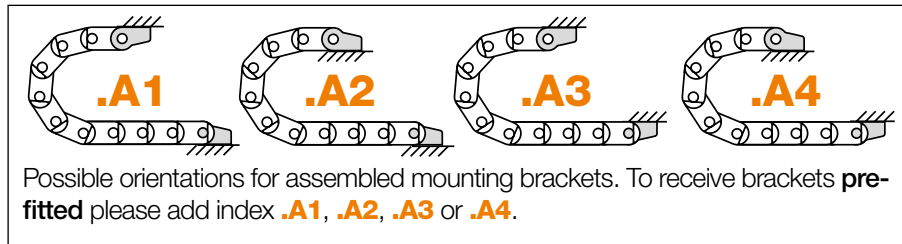
Before using series E2i.26 on long travels please consult igus®.



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

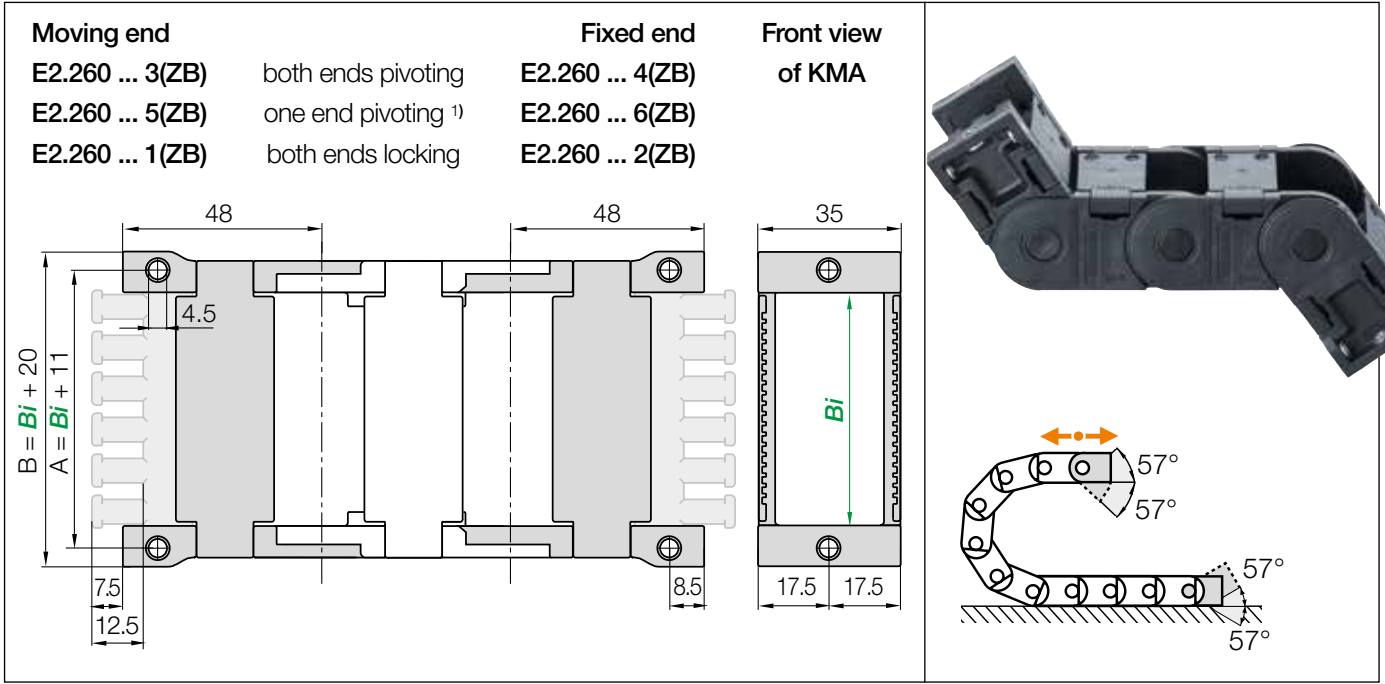
Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
025. ▶	2020.34PZB+	2020.34PZ+	2020.12PZB+	2020.12PZ+	41	12	3
038. ▶	2030.34PZB+	2030.34PZ+	2030.12PZB+	2030.12PZ+	54	25	4
057. ▶	2050.34PZB+	2050.34PZ+	2050.12PZB+	2050.12PZ+	73	44	6
077. ▶	2070.34PZB+	2070.34PZ+	2070.12PZB+	2070.12PZ+	93	64	8
089. ▶	2090.34PZB+	2090.34PZ+	2090.12PZB+	2090.12PZ+	105	77	9
103. ▶	2100.34PZB+	2100.34PZ+	2100.12PZB+	2100.12PZ+	119	90	10
125. ▶	2125.34PZB+	2125.34PZ+	2125.12PZB+	2125.12PZ+	141	112	12

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: 2020.34PZBK1+



2030.34PZB+.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

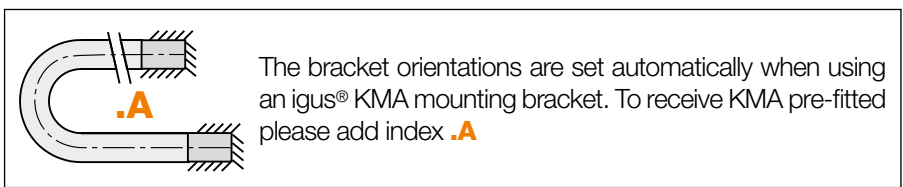


KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA with tiewrap plates both ends pivoting	Part No. full set KMA with tiewrap plates one end pivoting ¹⁾	Part No. full set KMA with tiewrap plates both ends locking	A [mm]	B [mm]	Bi [mm]	Number of teeth
025. ▶	E2.260.025.34ZB*	E2.260.025.56ZB*	E2.260.025.12ZB*	36	45	25	2
038. ▶	E2.260.038.34ZB	E2.260.038.56ZB	E2.260.038.12ZB	49	58	38	4
057. ▶	E2.260.057.34ZB	E2.260.057.56ZB	E2.260.057.12ZB	68	77	57	6
077. ▶	E2.260.077.34ZB	E2.260.077.56ZB	E2.260.077.12ZB	88	97	77	7
089. ▶	E2.260.089.34ZB*	E2.260.089.56ZB*	E2.260.089.12ZB*	100	109	89	9
103. ▶	E2.260.103.34ZB*	E2.260.103.56ZB*	E2.260.103.12ZB*	114	123	103	10
125. ▶	E2.260.125.34ZB*	E2.260.125.56ZB*	E2.260.125.12ZB*	136	145	125	12

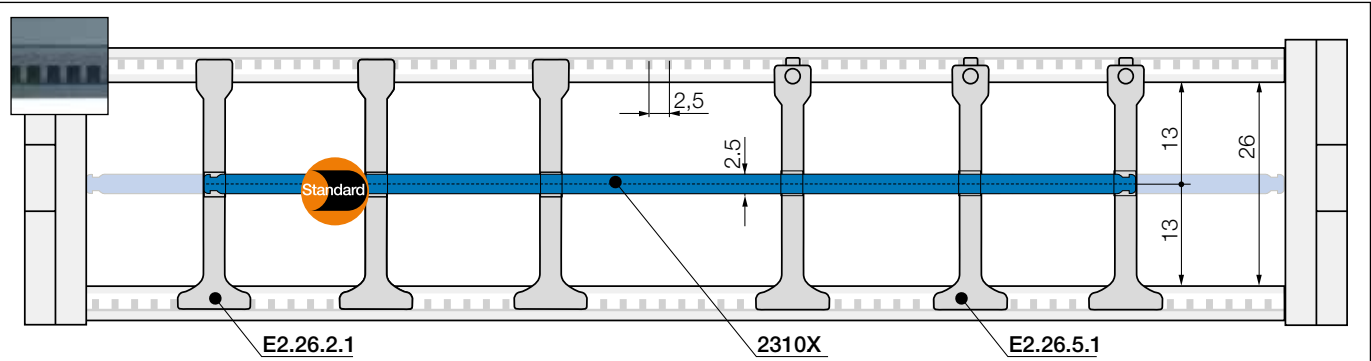
*Width available upon request. Please consult igus® for delivery time. 1) One end pivoting only to the inner radius

Optional strain relief: without tiewrap plates, please state part number **without index ZB!** (KMA = plastic-metal mounting bracket)

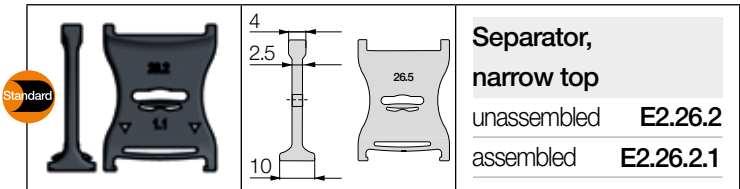


E2.260.038.12ZB.A Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Width index
Series

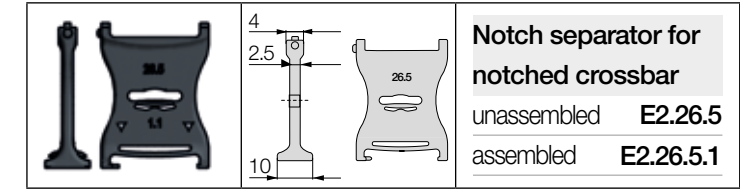
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



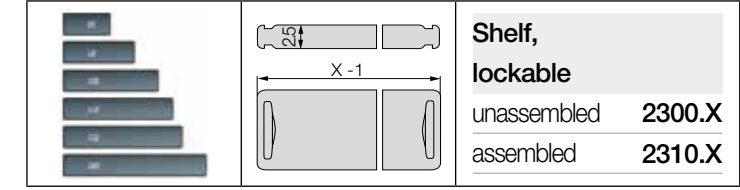
No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



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



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



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	
	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

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 screws
- Part No. 26.Z. More information ► From page 1326



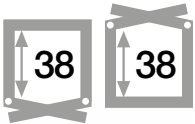
E2.1 e-chain® with extender crossbars - guidance for hydraulic hoses

- Safe, space-saving guidance of two hydraulic hoses
 - Special solution for heavy machinery, e.g. for elevating work platforms
 - Very hose-friendly guidance due to optimised inner contours of the e-chain®
- More information ► www.igus.eu/hydraulicchain



E2.1 e-chain® with extender crossbars, guidance for hydraulic hoses - can be fitted along supporting legs
More information ► www.igus.eu/hydraulicchain

Quiet operation, stronger and quicker to open



e-chains® | Series E2i.38 | Crossbars openable along the inner radius, from both sides
e-chains® | Series E2.38 | 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]	E2.38 [kg/m]	E2i.38 [kg/m]
E2i.38. 050 .R.0*	E2.38. 050 .R.0	50	67	063 075 100 125 150 175 200 250	≈ 1.01	≈ 1.01
E2i.38. 065 .R.0*	E2.38. 065 .R.0	65	82	063 075 100 125 150 175 200 250	≈ 1.08	≈ 1.08
E2i.38. 075 .R.0*	E2.38. 075 .R.0	75	92	063 075 100 125 150 175 200 250	≈ 1.12	≈ 1.12
E2i.38. 090 .R.0*	E2.38. 090 .R.0*	90	107	063 075 100 125 150 175 200 250	≈ 1.19	≈ 1.19
E2i.38. 100 .R.0*	E2.38. 100 .R.0	100	117	063 075 100 125 150 175 200 250	≈ 1.22	≈ 1.22
E2i.38. 125 .R.0*	E2.38. 125 .R.0*	125	142	063 075 100 125 150 175 200 250	≈ 1.33	≈ 1.33
E2i.38. 150 .R.0*	E2.38. 150 .R.0*	150	167	063 075 100 125 150 175 200 250	≈ 1.44	≈ 1.44
E2i.38. 175 .R.0*	E2.38. 175 .R.0*	175	192	063 075 100 125 150 175 200 250	≈ 1.55	≈ 1.55

*Width available upon request. Please consult igus® for delivery time.
Complete Part No. with required radius (R). Example: **E2.38.065.100.0**

Reduce assembly time - E2.1 e-chain® opener

- igus® e-chain® opener for rapid opening in seconds, available for Series E2.38
- Reduce opening times from 33 to 2 seconds
- Open a long e-chain® section in one go

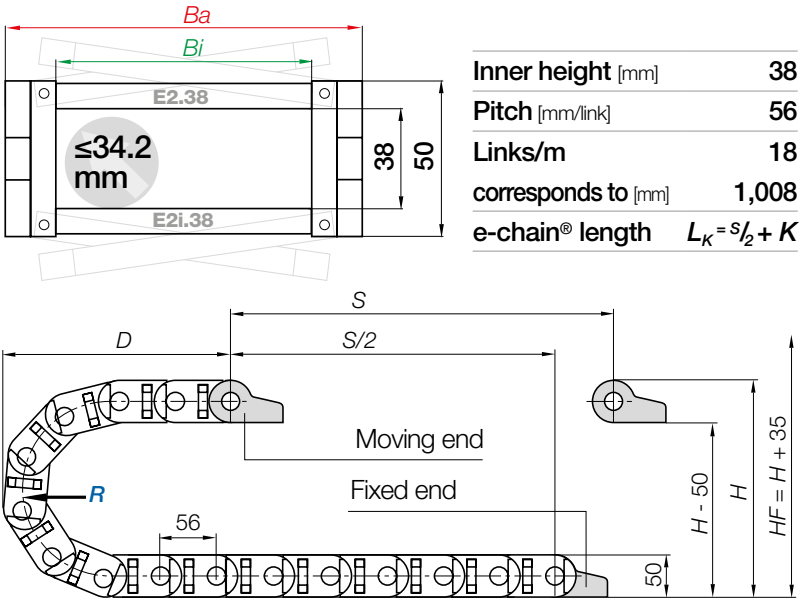
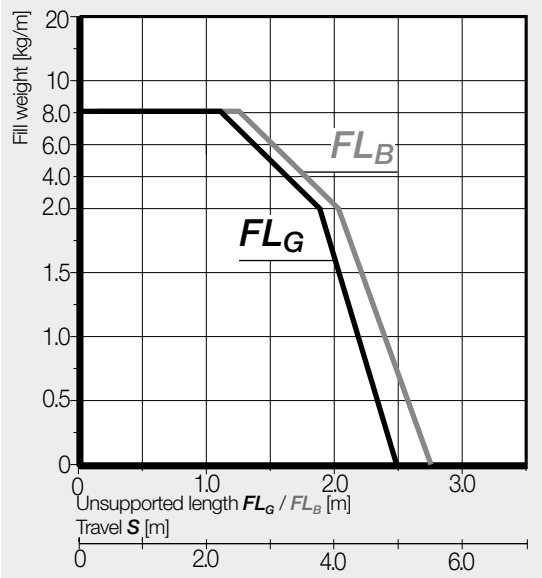
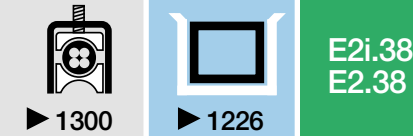
More information ► www.igus.eu/E2.1opener

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

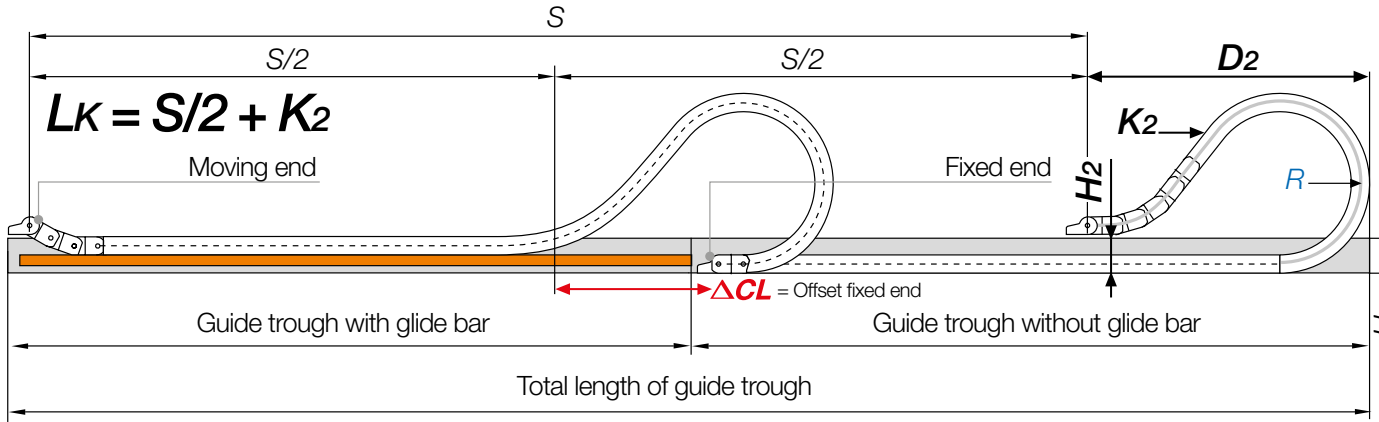
Unsupported applications | Short travels



R	063	075	100	125	150	175	200	250
H	176	200	250	300	350	400	450	550
D	172	184	209	234	259	284	309	359
K	310	350	430	505	585	665	745	900

The required clearance height: $H_F = H + 35\text{mm}$ (with 2.0kg/m fill weight)
Before using series E2i.38 on long travels please consult igus®.

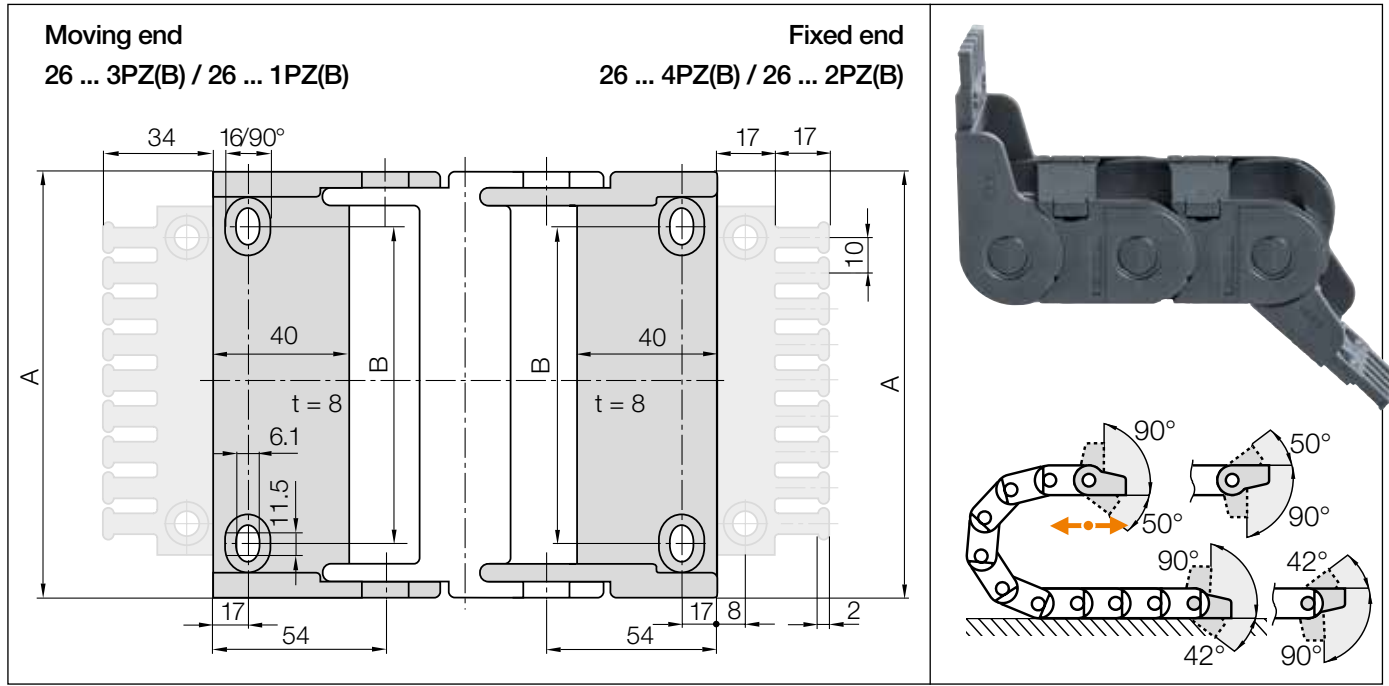
Gliding applications | For long travels from 10m to max. 120m



Note: Before using series E2i.38 on long travels please consult igus®.
For long travels, igus® recommends series E2.38 openable along the outer radius.
In case of travels between 5 and 10m we recommend an e-chain® with a longer unsupported length.

R	063	075	100	125	150	175	200	250
H ₂	176	200	166	166	166	166	166	166
D ₂ ⁺²⁵	172	184	395	510	545	700	805	995
K ₂	310	350	616	784	896	1,120	1,288	1,624
ΔCL	–	–	144	244	244	374	464	594

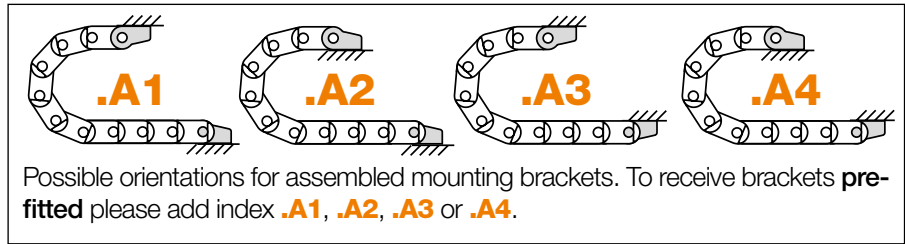
Before using series E2i.38 on long travels please consult igus®.



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]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
050. ▶	2605.34PZB	2605.34PZ	2605.12PZB	2605.12PZ	68	30	5
065. ▶	2606.34PZB	2606.34PZ	2606.12PZB	2606.12PZ	83	45	5
075. ▶	2607.34PZB	2607.34PZ	2607.12PZB	2607.12PZ	93	55	7
090. ▶	2609.34PZB	2609.34PZ	2609.12PZB	2609.12PZ	108	70	9
100. ▶	2610.34PZB	2610.34PZ	2610.12PZB	2610.12PZ	118	80	10
125. ▶	2612.34PZB	2612.34PZ	2612.12PZB	2612.12PZ	143	105	12
150. ▶	2615.34PZB	2615.34PZ	2615.12PZB	2615.12PZ	168	130	15
175. ▶	2617.34PZB	2617.34PZ	2617.12PZB	2617.12PZ	193	155	17

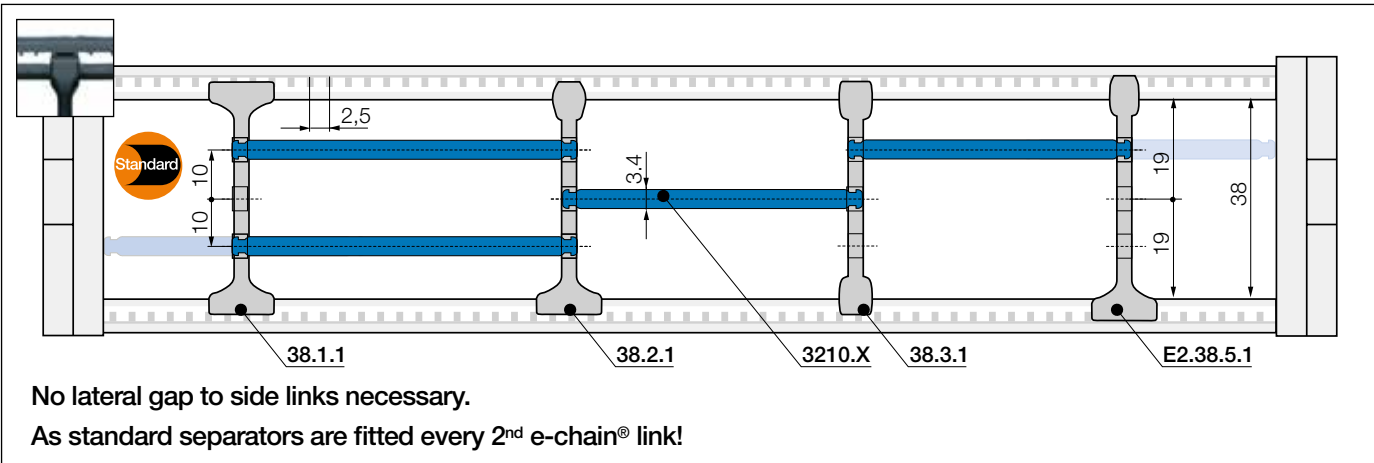
Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: **2606.34PZBK1**



2606.34PZB.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series



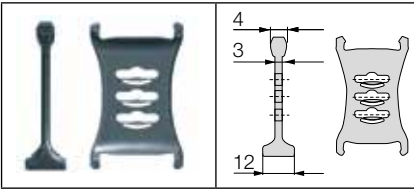
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



	Standard separator, wide base	
	unassembled	38.1
	assembled	38.1.1

Standard - for any application

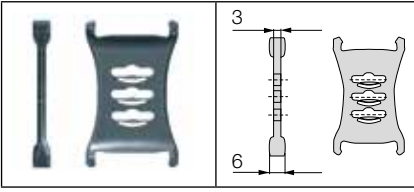
Separator with a wide base for maximum holding force in the e-chain®.



	Separator, narrow top	
	unassembled	38.2
	assembled	38.2.1

For even faster installation

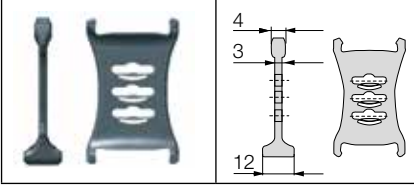
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.



	Separator, narrow	
	unassembled	38.3
	assembled	38.3.1

For small cables

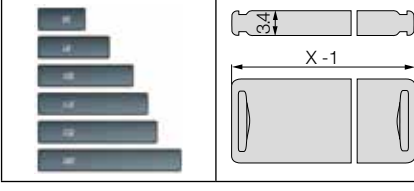
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.



	Notch separator for notched crossbar	
	unassembled	E2.38.5
	assembled	E2.38.5.1

Locks securely in preset increments

Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.



	Shelf, lockable	
	unassembled	3200.X
	assembled	3210.X

Horizontal separation

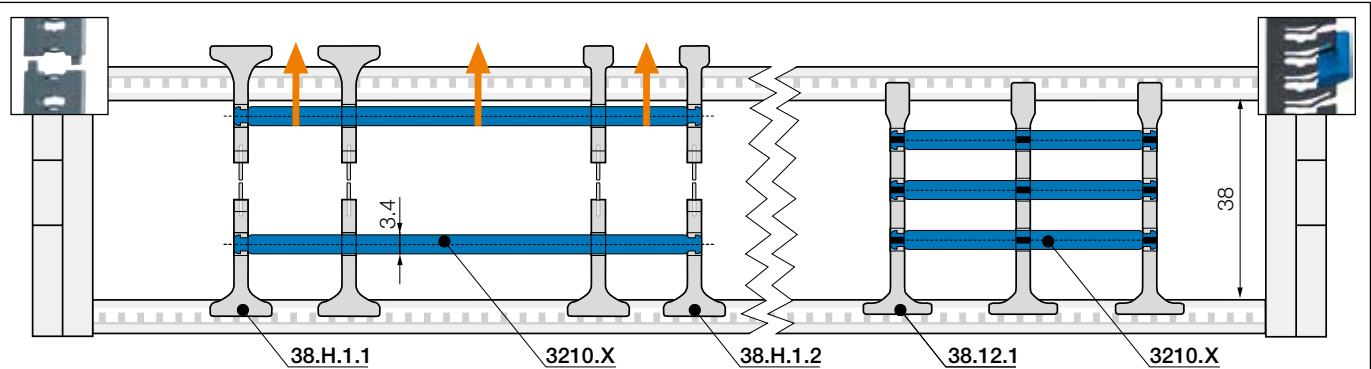
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

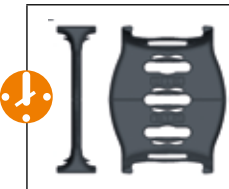
Width = X [mm]

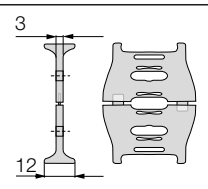


X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
100	3200.100	3210.100	175	3200.175	3210.175			
115	3200.115	3210.115	200	3200.200	3210.200			

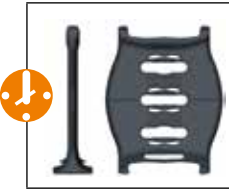


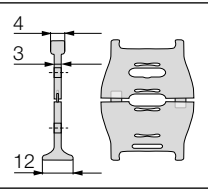
No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



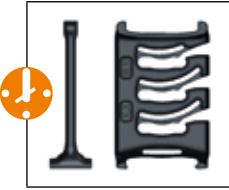


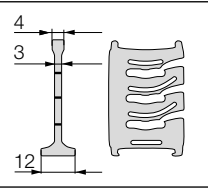
Split separator, wide base/top	
unassembled	38.H.1
assembled	38.H.1.1





Split separator, narrow top	
unassembled	38.H.2
assembled	38.H.2.1



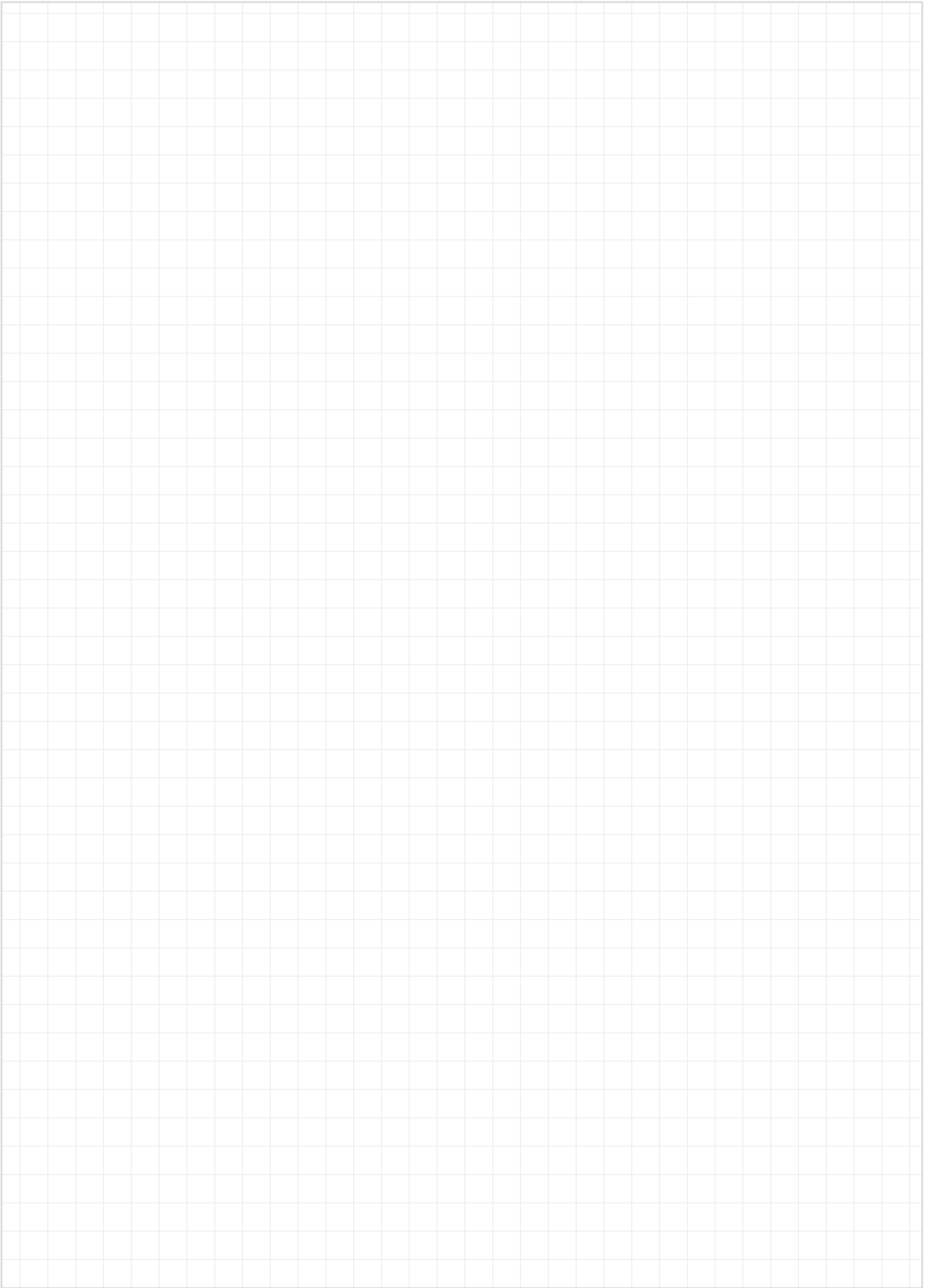


Lean separator	
unassembled	38.12
assembled	38.12.1

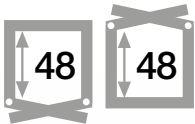
Split separators
In order to fill e-chains® more easily and effectively, these separators can be split in the middle. This allows easier access to middle shelf partitions. Fast assembly and easy retrofit. 2 types available: with wide or narrow top.

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® readychain® factory)



Quiet operation, stronger and quicker to open



e-chains® | Series E2i.48 Crossbars openable along the inner radius, from both sides
e-chains® | Series E2.48 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]										E2.48 [kg/m]	
				075	100	125	150	200	250	300				E2.48	E2i.48
E2i.48. 050 .R.0*	E2.48. 050 .R.0*	50	72	075	100	125	150	200	250	300				≈ 1.77	≈ 1.77
E2i.48. 075 .R.0*	E2.48. 075 .R.0	75	97	075	100	125	150	200	250	300				≈ 1.86	≈ 1.86
E2i.48. 100 .R.0*	E2.48. 100 .R.0	100	122	075	100	125	150	200	250	300				≈ 2.00	≈ 2.00
E2i.48. 115 .R.0*	E2.48. 115 .R.0*	115	137	075	100	125	150	200	250	300				≈ 2.06	≈ 2.06
E2i.48. 125 .R.0*	E2.48. 125 .R.0*	125	147	075	100	125	150	200	250	300				≈ 2.12	≈ 2.12
E2i.48. 150 .R.0*	E2.48. 150 .R.0	150	172	075	100	125	150	200	250	300				≈ 2.24	≈ 2.24
E2i.48. 175 .R.0*	E2.48. 175 .R.0*	175	197	075	100	125	150	200	250	300				≈ 2.36	≈ 2.36
E2i.48. 200 .R.0*	E2.48. 200 .R.0*	200	222	075	100	125	150	200	250	300				≈ 2.48	≈ 2.48
E2i.48. 225 .R.0*	E2.48. 225 .R.0*	225	247	075	100	125	150	200	250	300				≈ 2.60	≈ 2.60
E2i.48. 250 .R.0*	E2.48. 250 .R.0*	250	272	075	100	125	150	200	250	300				≈ 2.72	≈ 2.72

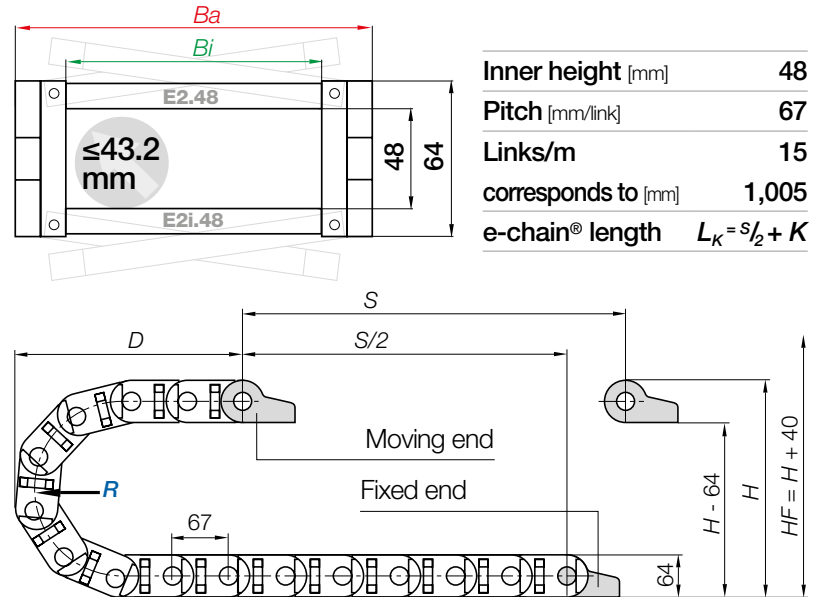
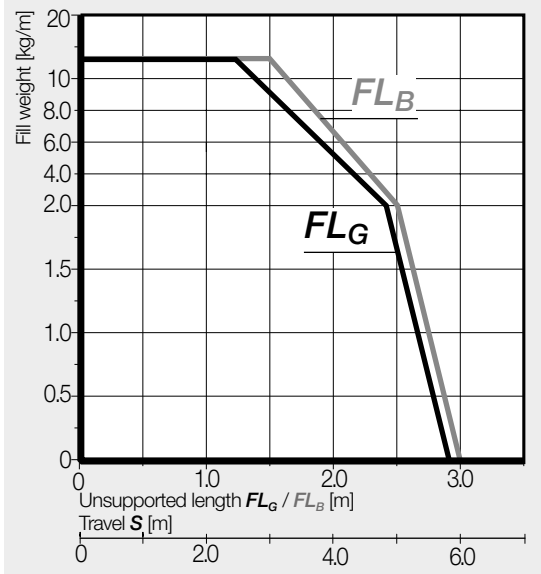
*Width available upon request. Please consult igus® for delivery time.
Complete Part No. with required radius (R). Example: **E2.48.075.075.0**

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 1264



Unsupported applications | Short travels

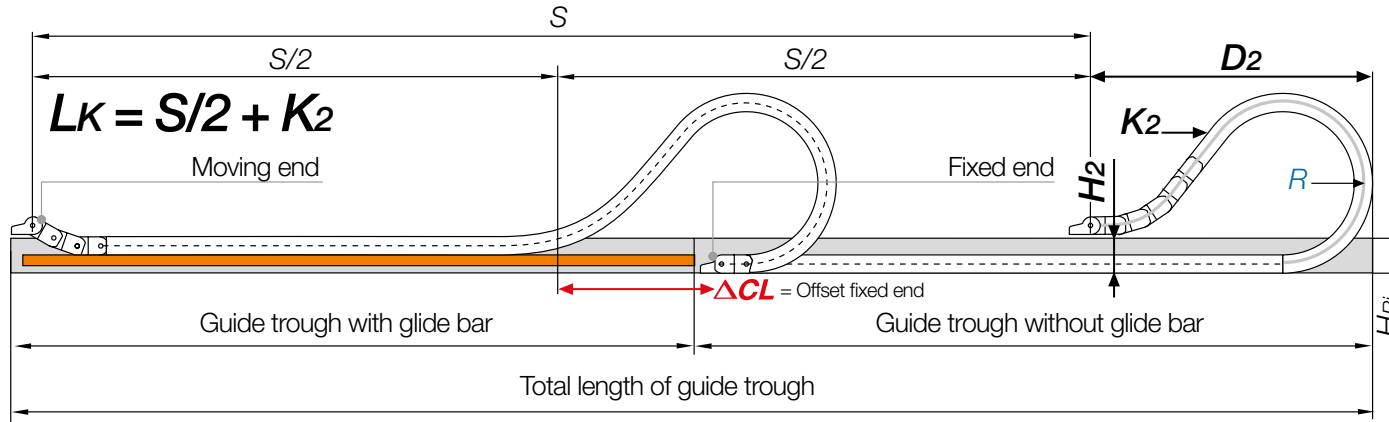


Inner height [mm]	48
Pitch [mm/link]	67
Links/m	15
corresponds to [mm]	1,005
e-chain® length $L_K = \frac{S}{2} + K$	

R	075	100	125	150	200	250	300
H	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1,080

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.5kg/m fill weight)
Before using series E2i.48 on long travels please consult igus®.

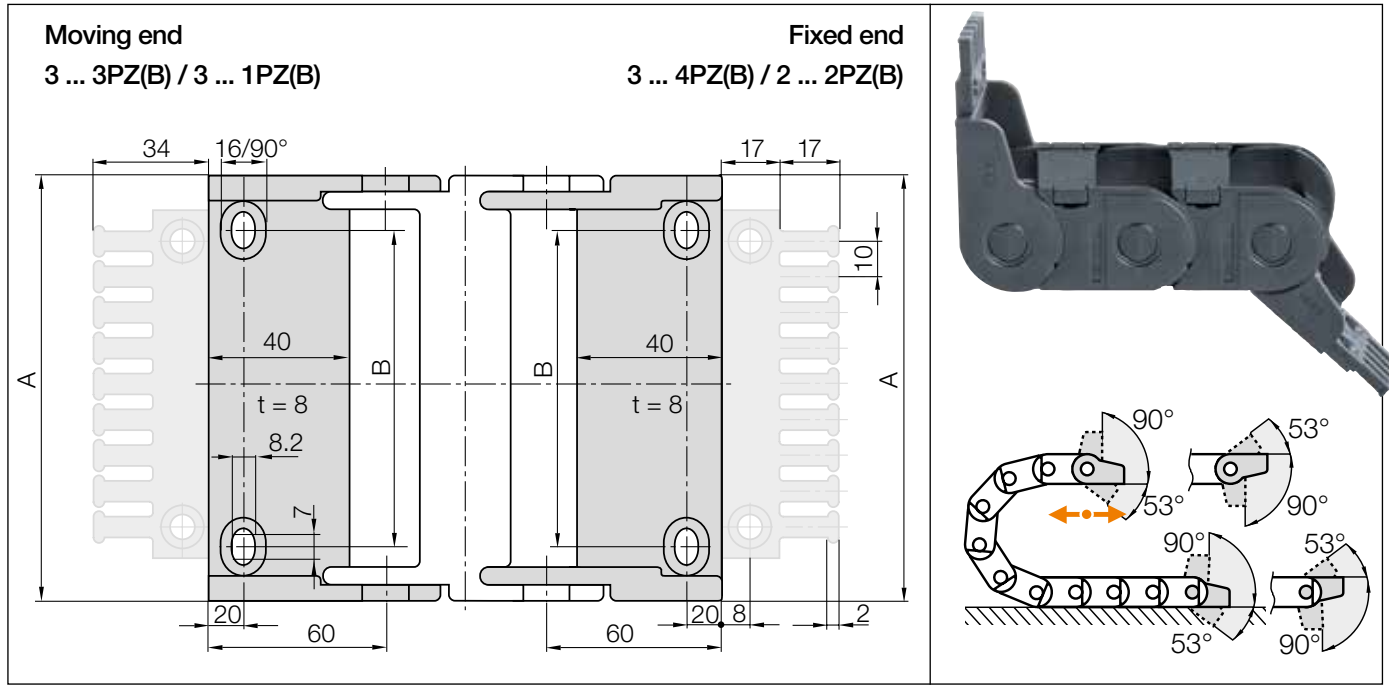
Gliding applications | For long travels from 10m to max. 150m



Note: Before using series E2i.48 on long travels please consult igus®.
For long travels, igus® recommends series E2.48 openable along the outer radius.
In case of travels between 6 and 10m we recommend an e-chain® with a longer unsupported length.

R	075	100	125	150	200	250	300
H ₂	214	264	186	186	186	186	186
D ₂ ⁺²⁵	208	233	475	570	780	1,010	1,150
K ₂	370	450	804	1,005	1,340	1,675	1,943
ΔCL	–	–	233	303	463	643	733

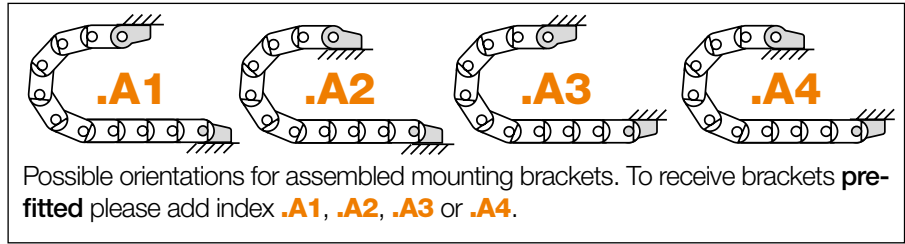
Before using series E2i.48 on long travels please consult igus®.



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

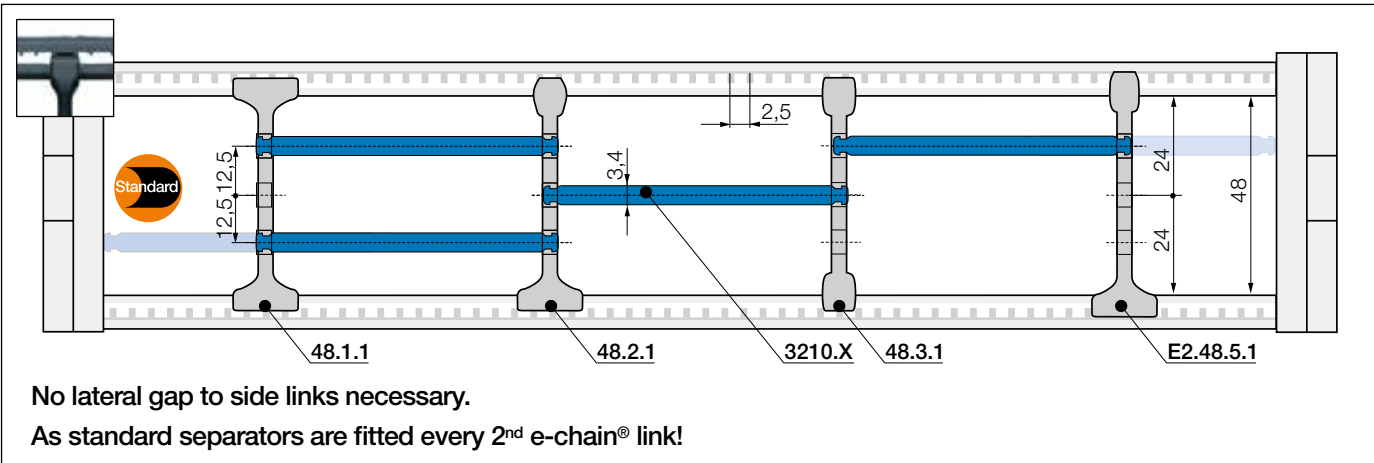
Width index	Part No. full set pivoting		Part No. full set locking		A	B	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate	[mm]	[mm]	
050. ▶	3050.34PZB	3050.34PZ	3050.12PZB	3050.12PZ	71	28	5
075. ▶	3075.34PZB	3075.34PZ	3075.12PZB	3075.12PZ	96	53	7
100. ▶	3100.34PZB	3100.34PZ	3100.12PZB	3100.12PZ	121	78	10
115. ▶	3115.34PZB	3115.34PZ	3115.12PZB	3115.12PZ	136	93	11
125. ▶	3125.34PZB	3125.34PZ	3125.12PZB	3125.12PZ	146	103	12
150. ▶	3150.34PZB	3150.34PZ	3150.12PZB	3150.12PZ	171	128	15
175. ▶	3175.34PZB	3175.34PZ	3175.12PZB	3175.12PZ	196	153	17
200. ▶	3200.34PZB	3200.34PZ	3200.12PZB	3200.12PZ	221	178	20
225. ▶	3225.34PZB	3225.34PZ	3225.12PZB	3225.12PZ	246	203	22
250. ▶	3250.34PZB	3250.34PZ	3250.12PZB	3250.12PZ	271	228	25

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: 3275.34PZBK1



3075.34PZB.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



		Standard separator, wide base unassembled 48.1 assembled 48.1.1
		Separator, narrow top unassembled 48.2 assembled 48.2.1
		Separator, narrow unassembled 48.3 assembled 48.3.1
		Notch separator for notched crossbar unassembled E2.48.5 assembled E2.48.5.1
		Shelf, lockable unassembled 3200.X assembled 3210.X

Standard - for any application

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

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 in the e-chain®.

Locks securely in preset increments

Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

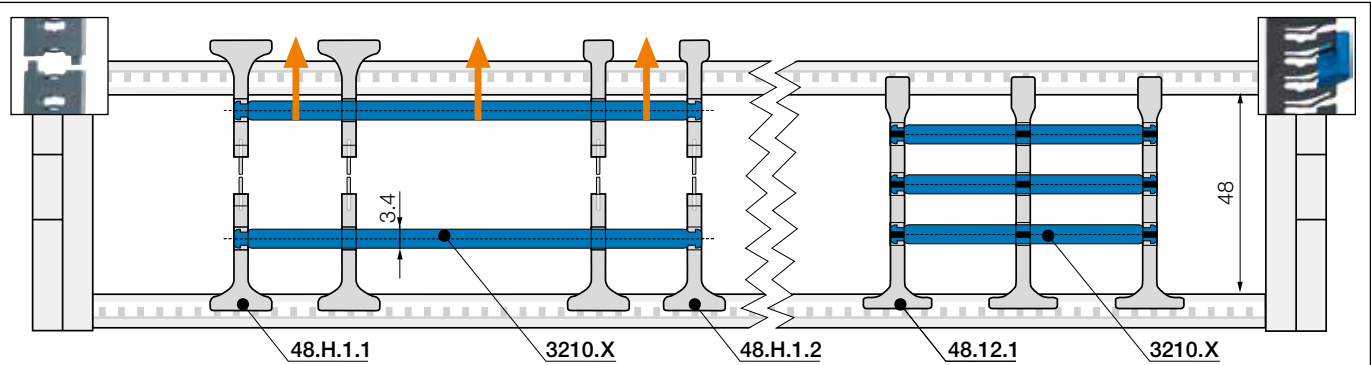
Horizontal separation

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
050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
100	3200.100	3210.100	175	3200.175	3210.175			
115	3200.115	3210.115	200	3200.200	3210.200			



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

		Split separator, wide base/top unassembled 48.H.1 assembled 48.H.1.1
		Split separator, narrow top unassembled 48.H.2 assembled 48.H.2.1
		Lean separator unassembled 48.12 assembled 48.12.1

Split separators

In order to fill e-chains® more easily and effectively, these separators can be split in the middle. This allows easier access to middle shelf partitions. Fast assembly and easy retrofit. 2 types available: with wide or narrow top.

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® readychain® factory)



Crossbar with integrated grid and openable at both ends - from the top or the side with a screwdriver



E2/000

All-rounder for a wide range of applications



Advantages of the E2/000 series:

- When a medium-sized, strong system (e-chains®, half e-tubes, completely enclosed e-tubes) is required
- For unsupported lengths up to 3.0m and fill weights up to 13kg/m
- For long travels up to 150m
- If an openable system is required to quickly open from either the left or right
- Various fastening options



When to use another e-chain® series:

- When a stronger, light, cost-effective e-chain®/e-tube is required ► **E4.1L**, page 524
- For very simple applications with fast filling
► **easy chain®**, page 198
- When very sealed e-tubes are required
► **E2 R100 e-tube**, page 428
► **E2 R e-tube**, page 454
► **R2.1 e-tube**, page 478
► **RX e-tube**, page 502

Universal connection:
many mounting options
with or without strain relief

Easy assembly:
e-chain® links
openable on
left or right

High strength:
large pin/bore and
crossbar with high
locking force

Long service life:
lateral gliding
surfaces

For long
unsupported lengths:
double stop-dog system

Variety of options:
e-chains® openable
along inner or outer
radius from both sides,
e-tubes and half e-tubes
openable along inner
radius from both sides

The all-rounder for a wide range of applications - E2/000

Series E2/000 is the fourth generation in this size. All past experience went into this series: easy and versatile assembly combined with ruggedness - high strength paired with quieter motion - long cable life and many mounting options. The design is consistent across all E2/000 variants. It is the standard product for machinery around the world.

Typical industries and applications

● Material handling ● Construction machinery
● Woodworking machines ● Machine tools
● Glass machines ● Plastic machines ●
Long travel applications in many industries ●
Semiconductors ● Theatre, entertainment and
amusement parks, etc. ● Vehicles ● General
machinery, etc.



Electrically conductive ESD e-chains® -
several series available from stock



46dB(A) - level determined at the igus® test-lab,
v = 1.0m/s unsupported, e.g. series 2600.05.075.0



UL94-V0 classifications upon request



IPA Qualification Certificate - Report IG 1303-640-1:
ISO Class 2, according to DIN EN ISO 14644-1 for System
E2/000, Series 1500.050.038.0. at v = 0.5 / 1.0 / 2.0m/s



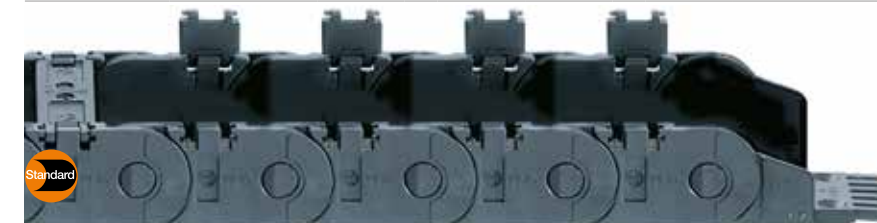
IPA Qualification Certificate - Report IG 0308-295:
ISO Class 3, according to DIN EN ISO 14644-1 for
System E2/000, Series 2500.05.055.0. at v = 2.0m/s

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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E2/000 e-chains®
crossbars openable along the
inner radius, from both sides

1400	21	15 - 125	28.5 - 138.5	28	035 - 180	1.75	368
2400	25	25 - 125	41 - 141	35	055 - 250	2.25	380
2600	35	50 - 175	66 - 194	50	063 - 250	2.75	392
3400	45	50 - 250	70 - 270	64	075 - 300	3.00	408



**E2/000 e-chains® -
standard for system E2**
crossbars openable along the
outer radius, from both sides

1500	21	15 - 125	28.5 - 138.5	28	035 - 180	1.75	368
2500	25	25 - 125	41 - 141	35	055 - 250	2.25	380
2700	35	50 - 175	66 - 194	50	063 - 250	2.75	392
3500	45	50 - 250	70 - 270	64	075 - 300	3.00	408
255	24	38 - 103	54 - 119	35	055 - 250	1.80	424



E2/000 half e-tubes
crossbars openable along the
inner radius, from both sides. Non-
openable lids along the outer radius

1450	21	15 - 125	28.5 - 138.5	28	075 - 180	1.75	374
2450	25	25 - 125	41 - 141	35	055 - 250	2.25	386
2650	35	50 - 175	66 - 194	50	100 - 250	2.75	400
3450	45	50 - 250	70 - 270	64	125 - 300	3.00	416



E2/000 full e-tubes
lids openable along the inner
radius, from both sides. Non-
openable lids along the outer radius

1480	21	15 - 125	28.5 - 138.5	28	075 - 180	1.75	374
2480	25	25 - 125	41 - 141	35	075 - 250	2.25	386
2680	35	50 - 175	66 - 194	50	100 - 250	2.75	400
3480	45	50 - 250	70 - 270	64	125 - 300	3.00	416



Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.



Openable mechanism, openable along the left or right and to 180°



Lean separators enable extremely fast cable filling in several layers



Separators are secure even when e-chain® is open



Half e-tube - fully enclosed along the outer radius. Openable along the inner radius on left or right



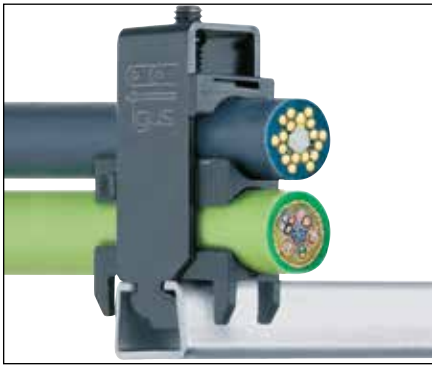
Fast closing by hand - secure without additional locking devices



Mechanical opening from the top - rapid opening with a screwdriver or the e-chain® opener



Open E2/000 in a flash with the e-chain® opener ► www.igus.eu/E2opener



Strain relief e.g. clamps, tiwrap plates, nuggets, etc. ► **From page 1300**



e-chains® with extender crossbars - large increase of the interior space



Aluminium SuperTrough - the standard igus® guide trough ► **From page 1208**



rol e-chain® E2/000 - rolling instead of gliding. Reduce driving force



Aluminium and steel support tray for support of the lower run ► **From page 1264**

Technical data

	Speed gliding ¹⁾ / acceleration gliding ¹⁾	≤ 10 [m/s] / ≤ 50 [m/s ²]
	Speed FL_G / acceleration FL_G	≤ 20 [m/s] / ≤ 200 [m/s ²]
	Speed FL_B / acceleration FL_B	≤ 3 [m/s] / ≤ 6 [m/s ²]
	Material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid G	VDE 0304 IIC UL94-HB

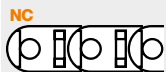
■ **FL_G** = unsupported with straight upper run ■ **FL_B** = unsupported with permitted sag
1) For openable series along the inner radius in gliding applications, please consult igus®

Installation types, maximum travels

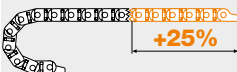
Series								
	Unsupported	Gliding ¹⁾	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary	Zig-zag	Unsupported length lower run
1400 / 1500 / 1450 / 1480	≤ 3.9m	≤ 75m	≤ 20m	≤ 2.0m	≤ 0.7m	with rework	upon request	upon request
2400 / 2500 / 2450 / 2480	≤ 4.25m	≤ 100m	≤ 40m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request
2600 / 2700 / 2650 / 2680	≤ 5.5m	≤ 120m	≤ 50m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request
3400 / 3500 / 3450 / 3480	≤ 6.0m	≤ 150m	≤ 80m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request
255	≤ 3.6m	≤ 100m	≤ 40m	≤ 3.0m	≤ 1.0m	with rework	upon request	upon request

1) For openable series along the inner radius in gliding applications, please consult igus®

Options with order keys | Examples based on series 2400/2500/2450/2480

 Standard	Optional noise dampers	NC version - (No Camber) without pretension	Reverse Bend Radius (RBR) for circular movements
Part No. Standard	Part No. Low noise (with pads)	Part No. NC version	Part No. RBR
			
2400.03.R.0 e-chain® openable along inner radius ¹⁾	S2400.03.R.0 e-chain® openable along inner radius ¹⁾	2400.03.R.0.NC e-chain® openable along inner radius ¹⁾	2400.03.R1/R2.0 e-chain® openable along inner radius ¹⁾
2500.03.R.0 e-chain® openable along the outer radius	—	2500.03.R.0.NC e-chain® openable along the outer radius	2500.03.R1/R2.0 e-chain® openable along the outer radius
2450.03.R.0 Half e-tube openable along the inner radius ¹⁾	S2450.03.R.0 Half e-tube openable along the inner radius ¹⁾	2450.03.R.0.NC Half e-tube openable along the inner radius ¹⁾	RBR for e-tubes - please consult igus®
2480.03.R.0 e-tube openable along the inner radius ¹⁾	S2480.03.R.0 e-tube openable along the inner radius ¹⁾	2480.03.R.0.NC e-tube openable along the inner radius ¹⁾	RBR for e-tubes - please consult igus®
 Ready to ship* in 24 - 48hrs.	Delivery time* 3-5 business days	Delivery time* 2-5 business days	Delivery time* several series from stock

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Unsupported lengths +25% possible	No burning-in of hot swarf up to +850°C (+1562° F)	ESD - electrically conductive material	Magnetically detectable plastic e-chains®
Part No. XXL material²⁾	Part No. igumid HT	Part No. igumid ESD	Part No. igumid DT
			
2400.03.R.0.XXL e-chain® openable along inner radius ¹⁾	2480.03.R.0.HT Complete e-tube	2400.03.R.0.ESD e-chain® openable along inner radius ¹⁾	2400.03.R.0.DT e-chain® openable along inner radius ¹⁾
2500.03.R.0.XXL e-chain® openable along the outer radius	2480.03.HT.R.0 e-tube outer radius lid only	2500.03.R.0.ESD e-chain® openable along the outer radius	2500.03.R.0.DT e-chain® openable along the outer radius
2450.03.R.0.XXL Half e-tube openable along the inner radius ¹⁾	—	2450.03.R.0.ESD Half e-tube openable along the inner radius ¹⁾	2450.03.R.0.DT Half e-tube openable along the inner radius ¹⁾
2480.03.R.0.XXL e-tube openable along the inner radius ¹⁾	—	2480.03.R.0.ESD e-tube openable along the inner radius ¹⁾	2480.03.R.0.DT e-tube openable along the inner radius ¹⁾
Delivery time* 5 business days	Delivery time* 7-10 business days	Delivery time* several series from stock	Delivery time* upon request

1) Before using this series in gliding applications, please consult igus® 2) Lower part made from XXL material

Order example | Examples based on series 2500

 Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:	
e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 22 links 2500.03.100.0
+ Mounting brackets	1 set (with tiwrap plates) 2030.34PZB+
Interior separation	with 2 separators assembled every 2 nd link 2 x 25.1.1
Order text:	1 m 2500.03.100.0 + 2030.34PZB+ + 2 x 25.1.1

Magnetically detectable plastic e-chains® for the food and tobacco industry

- igumid DT - automatic detection by all common metal detection systems
- Particles as small as 1.0mm can be recognised for fragments passing at speeds of 20m/min

More information ► www.igus.eu/detectable-chain



Order key and colour examples | Examples based on series 2400/2500/2450/2480

 **Order key**

e-chains® openable along the outer radius **2500.03.100.0**

e-chains® openable along the inner radius **2400.03.100.0**

Half e-tube openable along the inner radius **2450.03.100.0**

Full e-tube openable along the inner radius **2480.03.100.0**

Series / Type 

Width index (depends on **B**)

Bend radius **R**

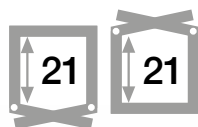
Colour index (standard black)

Order index for colour options

Colour	Order index	Colour	Order index
 Black	Standard .0	 Orange	Special colour .2
 Silver-grey	Special colour .31	 Yellow	Special colour .4
 White	Special colour .1	 Light grey	Special colour .14
 Grey-white	Special colour .1S		

Black e-chains® available from stock.

Above special colours upon request.



e-chains® | Series 1400 | Crossbars openable along the inner radius, from both sides
e-chains® | Series 1500 | 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]	1400 [kg/m]	1500 [kg/m]
1400.015 .R.0	1500.015 .R.0 ¹⁾	15	28.5	035 038 048 075 100 125 145 180	≈ 0.46	≈ 0.46
1400.020 .R.0	1500.020 .R.0	20	33.5	035 038 048 075 100 125 145 180	≈ 0.47	≈ 0.47
1400.025 .R.0	1500.025 .R.0 ¹⁾	25	38.5	035 038 048 075 100 125 145 180	≈ 0.49	≈ 0.49
1400.038 .R.0	1500.038 .R.0 ¹⁾	38	51.5	035 038 048 075 100 125 145 180	≈ 0.53	≈ 0.53
1400.050 .R.0	1500.050 .R.0 ¹⁾	50	63.5	035 038 048 075 100 125 145 180	≈ 0.56	≈ 0.56
1400.068 .R.0	1500.068 .R.0 ¹⁾	68	81.5	035 038 048 075 100 125 145 180	≈ 0.63	≈ 0.63
1400.080 .R.0	1500.080 .R.0 ¹⁾	80	93.5	035 038 048 075 100 125 145 180	≈ 0.67	≈ 0.67
1400.100 .R.0	1500.100 .R.0	100	113.5	035 038 048 075 100 125 145 180	≈ 0.74	≈ 0.74
1400.125 .R.0	1500.125 .R.0	125	138.5	035 038 048 075 100 125 145 180	≈ 0.83	≈ 0.83

1) Available as ESD version from stock

Half e-tubes, series 1450 and full e-tube series 1480 ► From page 374

Complete Part No. with required radius (R). Example: 1500.038.100.0

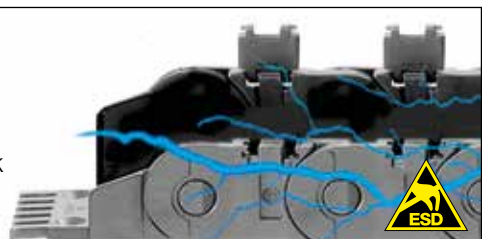
Reduce assembly time - E2/000 e-chain® opener

- Reduce opening times from 33 to 2 seconds
- Open a long e-chain® section in one go
- For widths Bi [mm]: 20, 50, 68, 80, 100
- Part No. 908.254.1400 for series 1400/1500
- More information ► www.igus.eu/E2opener



ESD - many sizes from stock

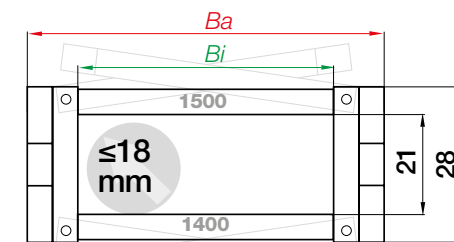
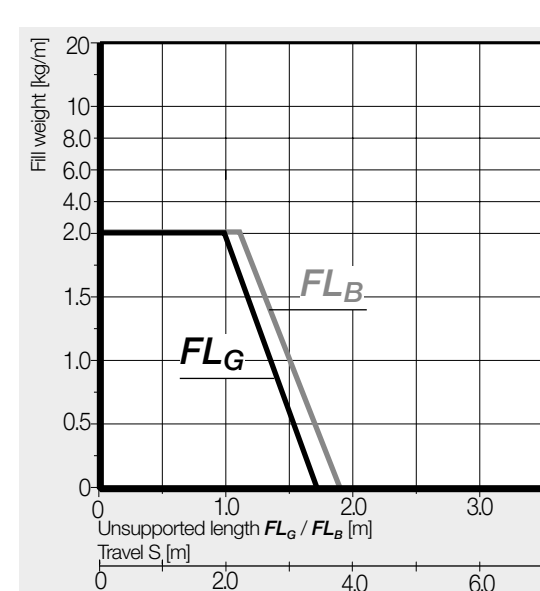
- Standardised product made from igumid ESD
- ESD material tested with over 10 million cycles for the toughest requirements
- Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information ► www.igus.eu/esd



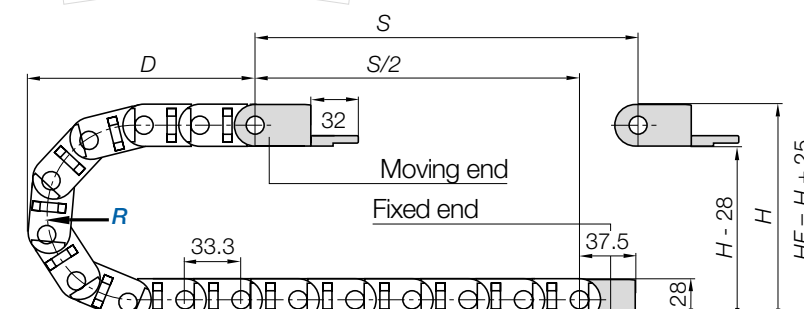
► 1300



► 1218



Inner height [mm]	21
Pitch [mm/link]	33.3
Links/m	30
corresponds to [mm]	1,000
e-chain® length	$L_K = \frac{S}{2} + K$

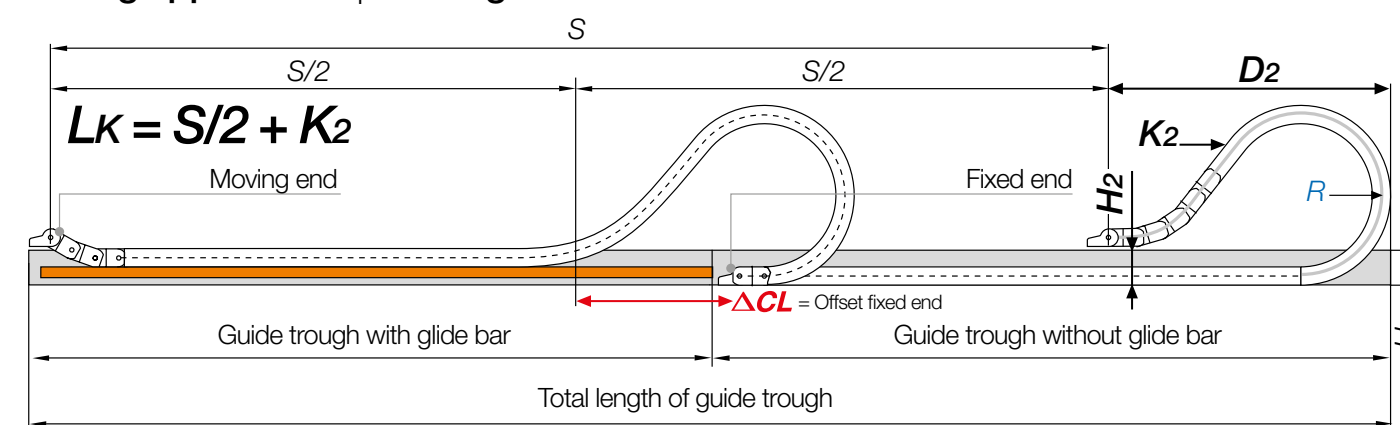


R	035	038	048	075	100	125	145	180
H	98	104	124	178	228	278	318	388
D	99	102	112	139	164	189	209	244
K	180	190	220	305	385	460	525	635

The required clearance height: $H_F = H + 25\text{mm}$ (with 0.5kg/m fill weight)

Before using series 1400 on long travels please consult igus®.

Gliding applications | For long travels from 10m to max. 75m



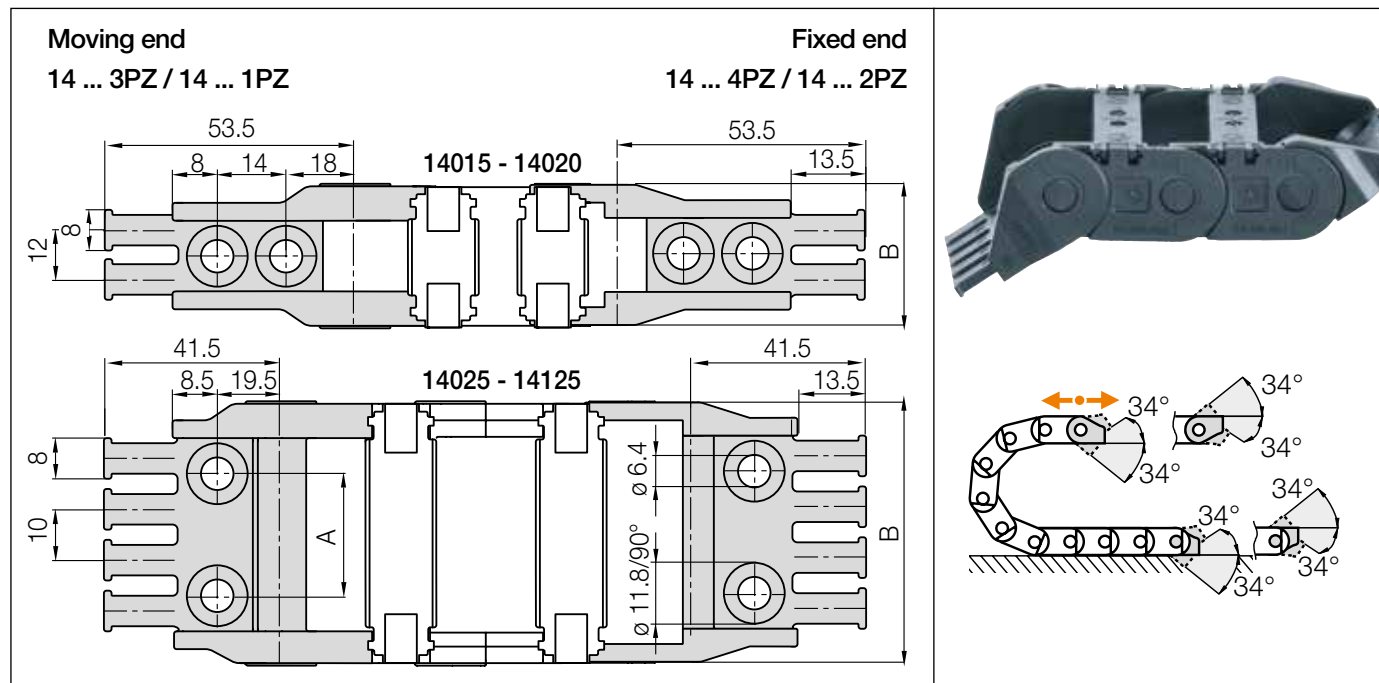
Note: before using series 1400/1450/1480 on long travels please consult igus®.

For long travels, igus® recommends series 1500 openable along the outer radius.

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

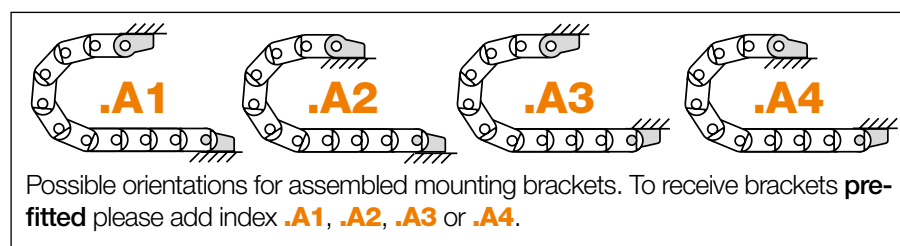
R	035	038	048	075	100	125	145	180
H ₂	70	76	96	150	100	100	100	100
D ₂ ⁺²⁵	99	102	112	139	340	495	540	690
K ₂	180	190	220	305	600	800	940	1,170
ΔCL	—	—	—	—	179	305	340	445

Before using series 1400 on long travels please consult igus®.



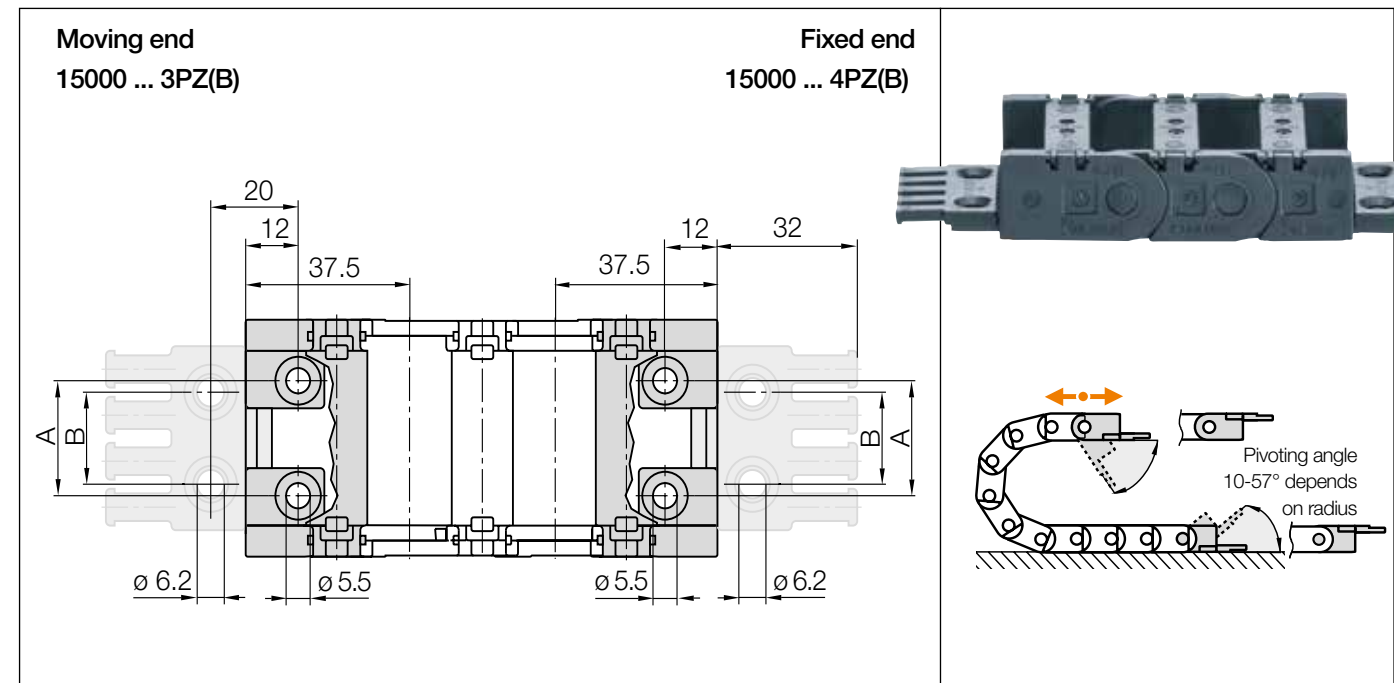
Polymer pivoting | Recommended for unsupported and gliding applications
Polymer locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015. ▶	14015.34PZ	—	14015.12PZ	—	—	28.5	2
020. ▶	14020.34PZ	—	14020.12PZ	—	—	33.5	2
025. ▶	14025.34PZ	—	14025.12PZ	—	13	38.5	2
038. ▶	14038.34PZ	—	14038.12PZ	—	24	51.5	4
050. ▶	14050.34PZ	—	14050.12PZ	—	36	63.5	5
068. ▶	14068.34PZ	—	14068.12PZ	—	54	81.5	7
080. ▶	14080.34PZ	—	14080.12PZ	—	66	93.5	8
100. ▶	14100.34PZ	—	14100.12PZ	—	86	113.5	10
125. ▶	14125.34PZ	—	14125.12PZ	—	111	138.5	13



14038.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

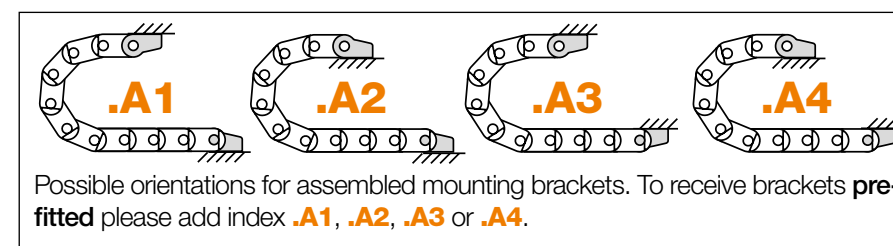


Polymer pivoting | Recommended for unsupported and gliding applications
For tight installation spaces

Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015. ▶	—	—	—	—	—	—	—
020. ▶	—	—	—	—	—	—	—
025. ▶	15000.025.34PZB	15000.025.34PZ	—	—	12	15	3
038. ▶	15000.038.34PZB	15000.038.34PZ	—	—	25	20	4
050. ▶	15000.050.34PZB	15000.050.34PZ	—	—	37	30	5
068. ▶	15000.068.34PZB	15000.068.34PZ	—	—	55	40	6
080. ▶	15000.080.34PZB	15000.080.34PZ	—	—	67	60	8
100. ▶	15000.100.34PZB	15000.100.34PZ	—	—	87	80	10
125. ▶	15000.125.34PZB*	15000.125.34PZ*	—	—	112	100	12

*Tiewrap plate (consists of 2x2050.ZB) does not snap on but needs to be bolted down separately.

Note: mounting brackets not to assemble at the gable end.



15000.038.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Width index
 Series



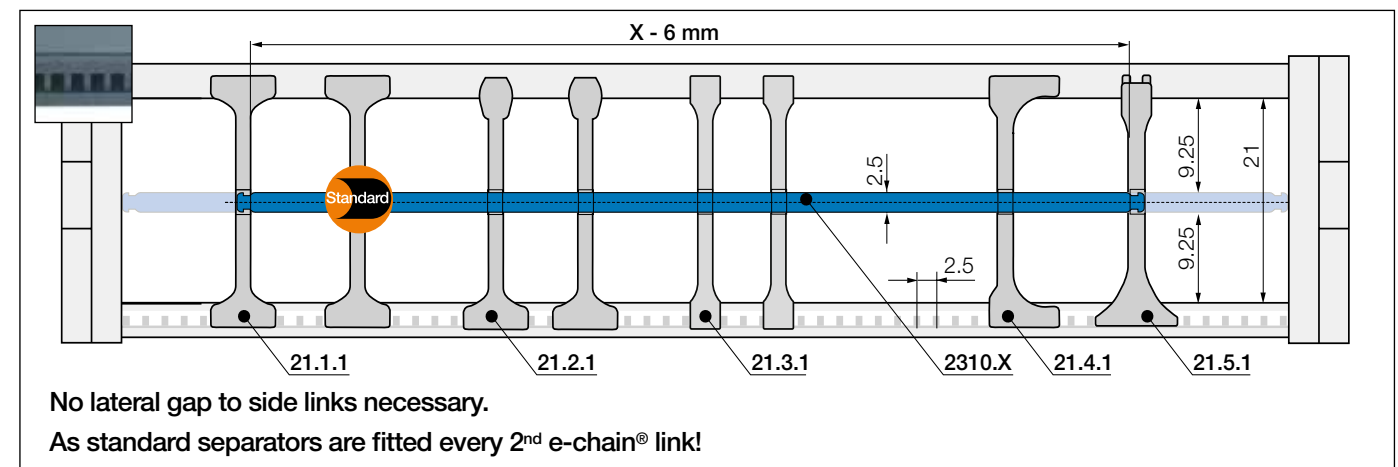
Option: steel mounting bracket, locking. For e-chains® and e-tubes, Part No. 14000.12

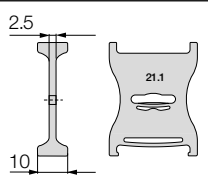
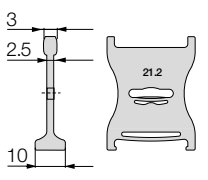
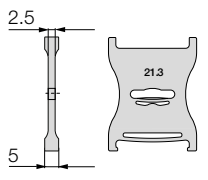
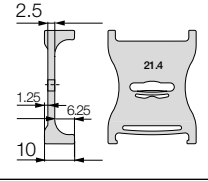
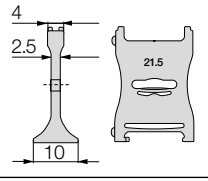
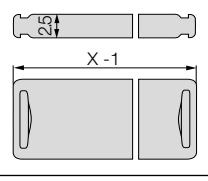
● Locking connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/1400 ► www.igus.eu/1500



		Standard separator, wide base unassembled 21.1 assembled 21.1.1
		Separator, narrow top unassembled 21.2 assembled 21.2.1
		Separator, narrow unassembled 21.3 assembled 21.3.1
		Separator, asymmetrical unassembled 21.4 assembled 21.4.1
		Notch separator for notched crossbar unassembled 21.5 assembled 21.5.1
		Shelf, lockable unassembled 2300.X assembled 2310.X

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

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 in the e-chain®.

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

Locks securely in preset increments
Notch separator for exact positioning in e-chains®. 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]			X [mm]			X [mm]		
	unassembled	assembled		unassembled	assembled		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

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 screws

Part No. 21.1.Z. More information ► From page 1326



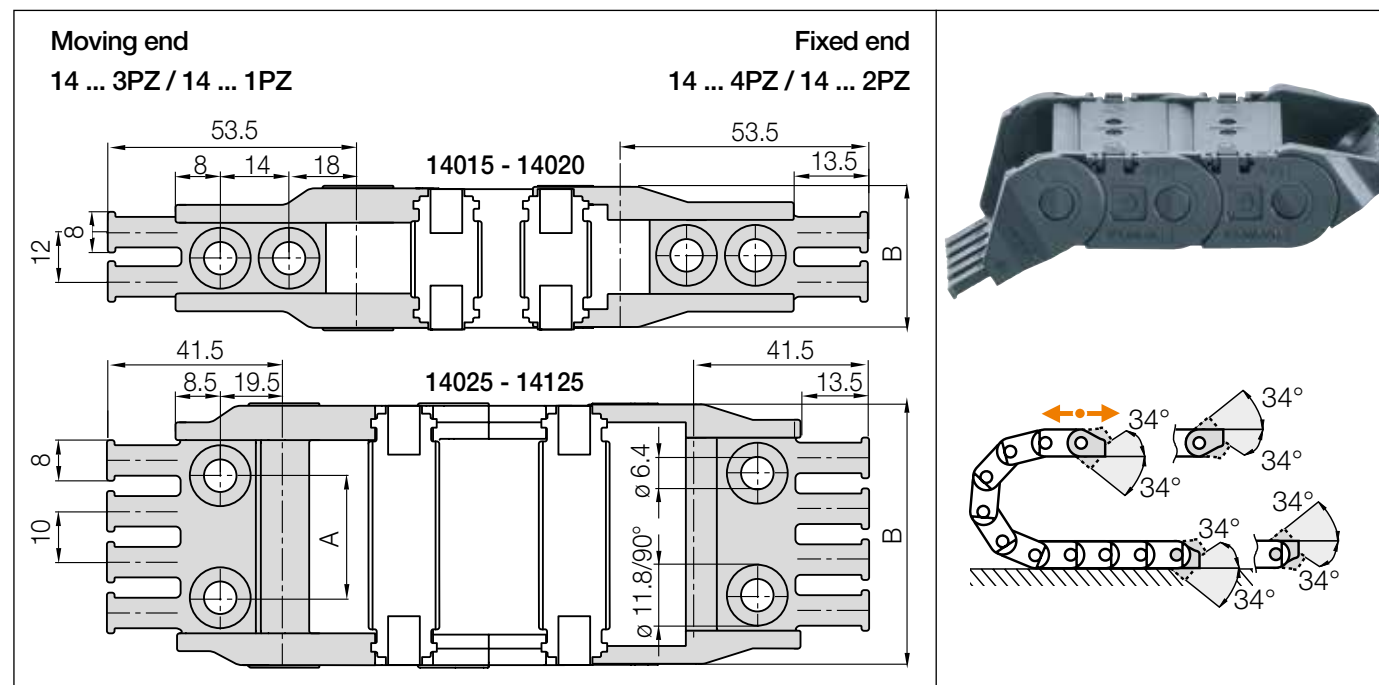
Aluminium support tray

- 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

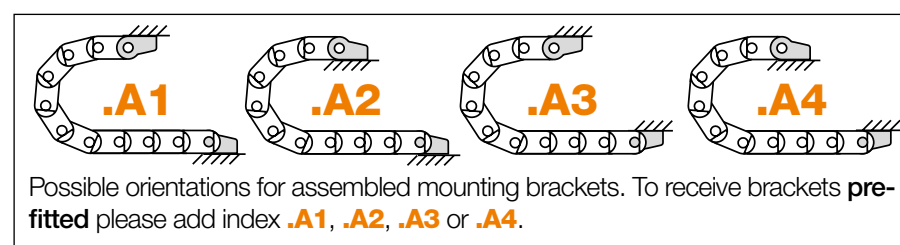


E2/000 series 1400 in aircraft refuelling truck - telescopic crane with six sections



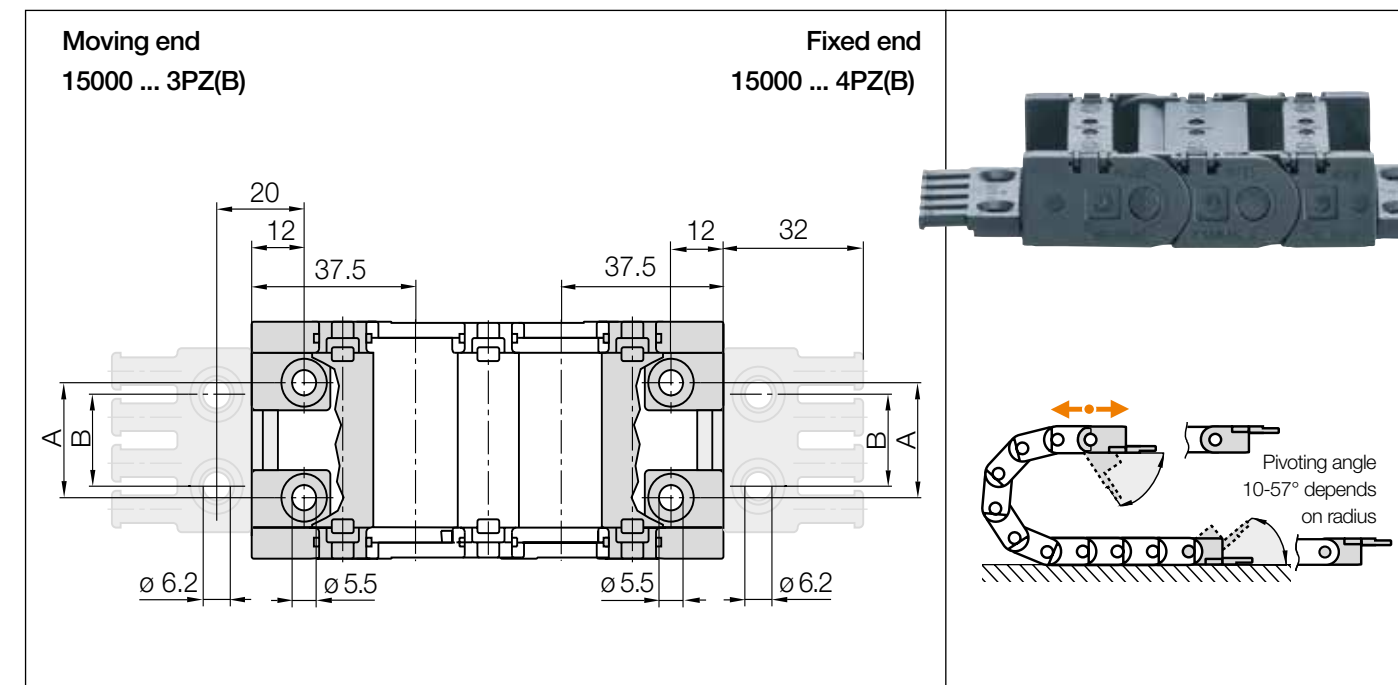
Polymer pivoting | Recommended for unsupported applications
Polymer locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015. ▶	14015.34PZ	–	14015.12PZ	–	–	28.5	2
020. ▶	14020.34PZ	–	14020.12PZ	–	–	33.5	2
025. ▶	14025.34PZ	–	14025.12PZ	–	13	38.5	2
038. ▶	14038.34PZ	–	14038.12PZ	–	24	51.5	4
050. ▶	14050.34PZ	–	14050.12PZ	–	36	63.5	5
068. ▶	14068.34PZ	–	14068.12PZ	–	54	81.5	7
080. ▶	14080.34PZ	–	14080.12PZ	–	66	93.5	8
100. ▶	14100.34PZ	–	14100.12PZ	–	86	113.5	10
125. ▶	14125.34PZ	–	14125.12PZ	–	111	138.5	13



14038.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

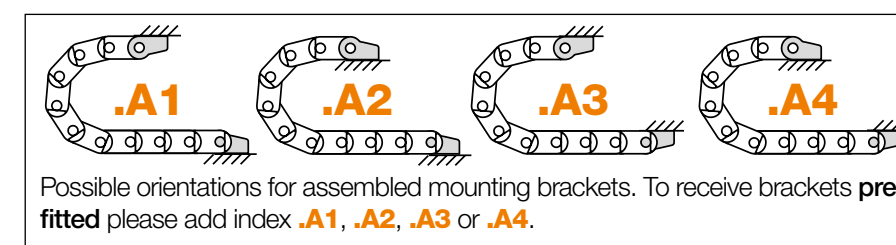


Polymer pivoting | Recommended for unsupported and gliding applications
For tight installation spaces

Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015. ▶	–	–	–	–	–	–	–
020. ▶	–	–	–	–	–	–	–
025. ▶	15000.025.34PZB	15000.025.34PZ	–	–	12	15	3
038. ▶	15000.038.34PZB	15000.038.34PZ	–	–	25	20	4
050. ▶	15000.050.34PZB	15000.050.34PZ	–	–	37	30	5
068. ▶	15000.068.34PZB	15000.068.34PZ	–	–	55	40	6
080. ▶	15000.080.34PZB	15000.080.34PZ	–	–	67	60	8
100. ▶	15000.100.34PZB	15000.100.34PZ	–	–	87	80	10
125. ▶	15000.125.34PZB*	15000.125.34PZ*	–	–	112	100	12

*Tiewrap plate (consists of 2x2050.ZB) does not snap on but needs to be bolted down separately.

Note: mounting brackets not to assemble at the gable end.



15000.038.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Width index
Series

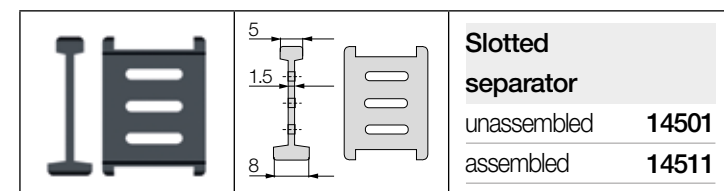
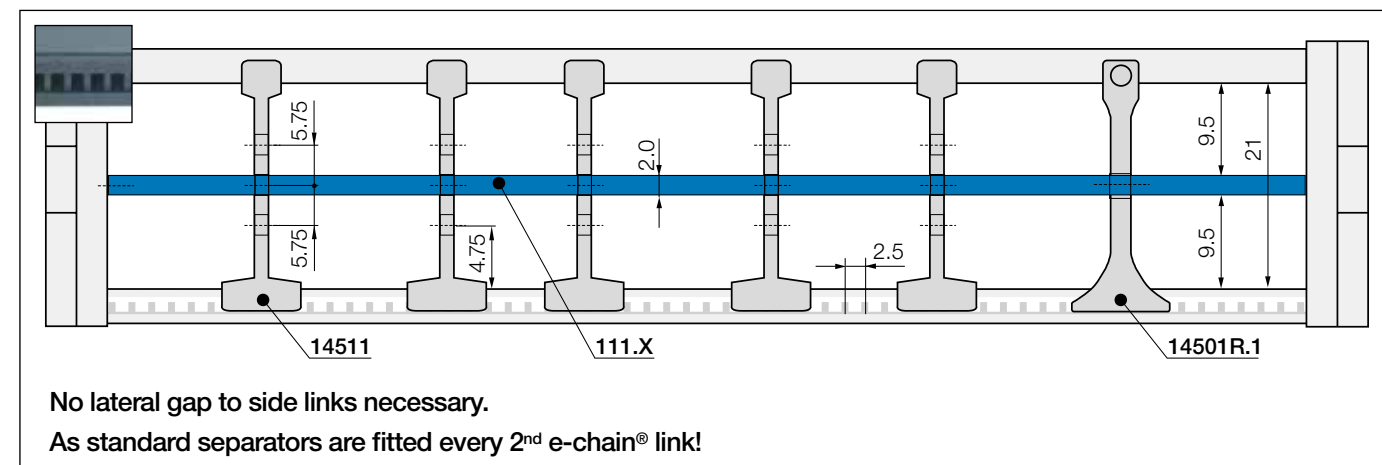


Option: steel mounting bracket, locking. For e-chains® and e-tubes, Part No. 14000.12

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

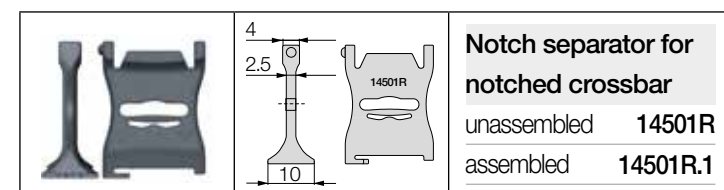
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Interior separation



Slotted separator

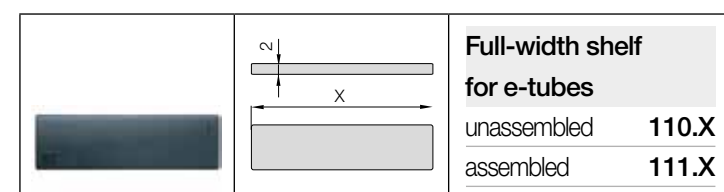
Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.



Locks securely in preset increments

Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

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



Full-width shelf

This option is for applications with many small cables with similar diameters. For full width separation.

Full-width shelves
Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
015	110.15	111.15	038	110.38	111.38	080	110.80	111.80
020	110.20	111.20	050	110.50	111.50	100	110.100	111.100
025	110.25	111.25	068	110.68	111.68	125	110.125	111.125

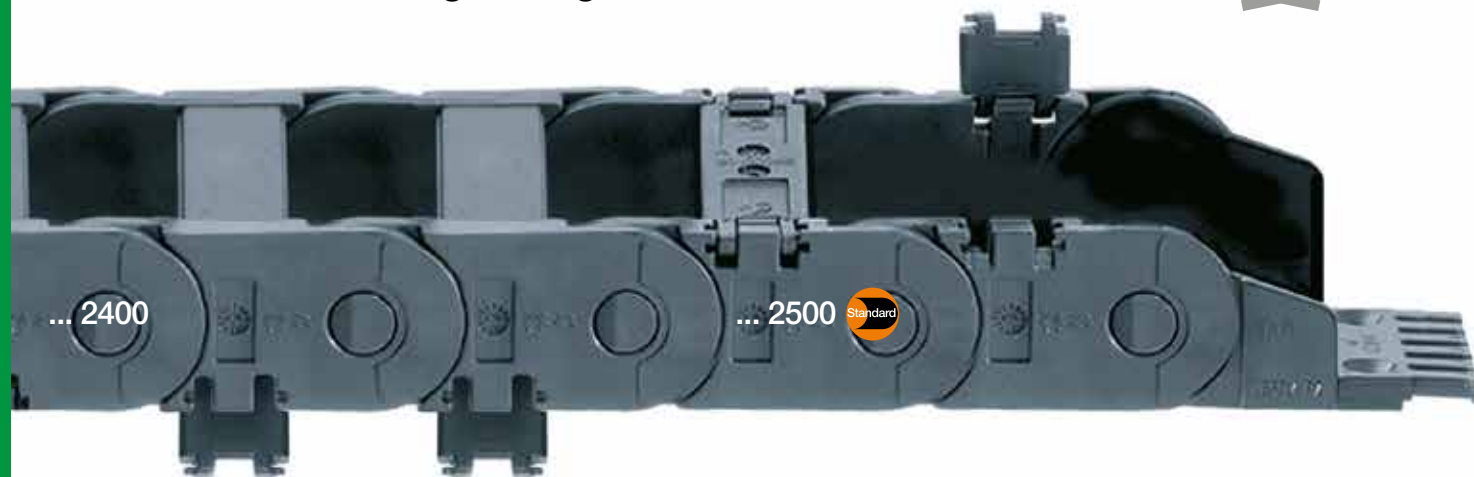
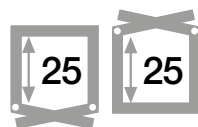
Aluminium support tray

- 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



Delivery of an igus® readychain® - here system E2/000 complete with chainflex® cables pre-fitted



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 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) Available as ESD version from stock

Half e-tubes, series 2450 and full e-tube series 2480 ► From page 386

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

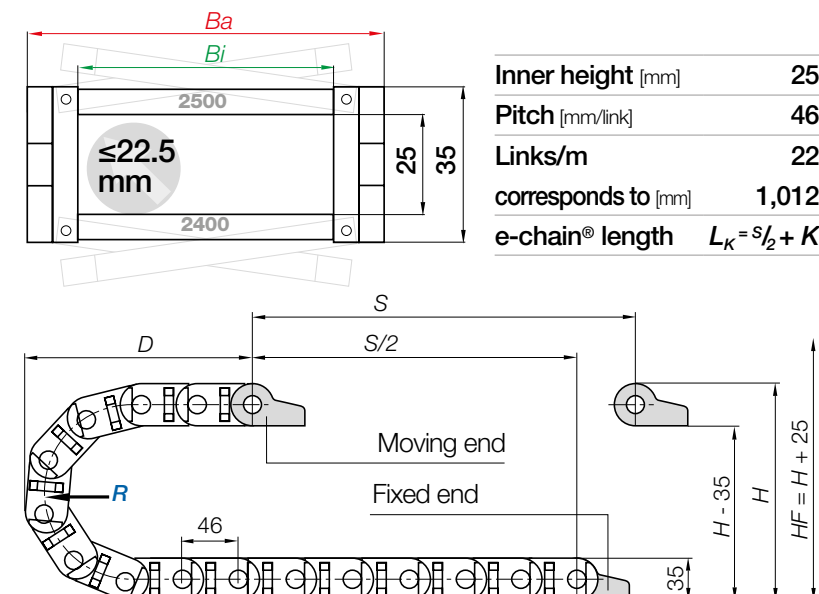
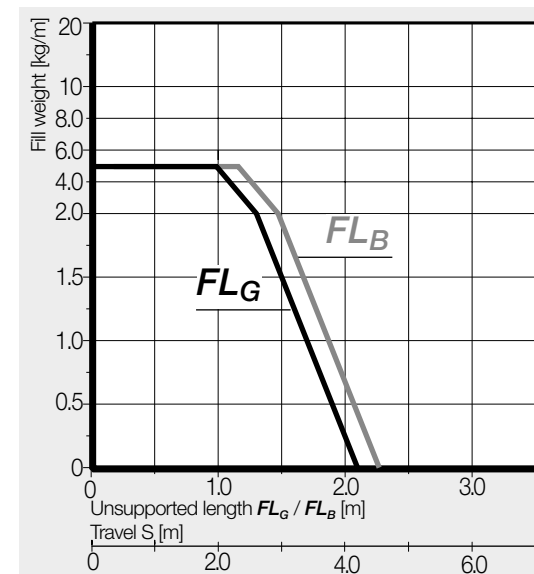
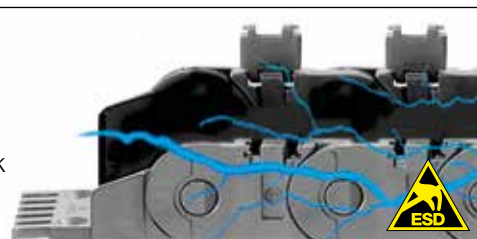
Reduce assembly time - E2/000 e-chain® opener

- Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
 - For widths Bi [mm]: 05, 07, 09
 - Part No. 908.254.2400 for series 2400/2500
- More information ► www.igus.eu/E2opener



ESD - many sizes from stock

- Standardised product made from igumid ESD
 - ESD material tested with over 10 million cycles for the toughest requirements
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information ► www.igus.eu/esd

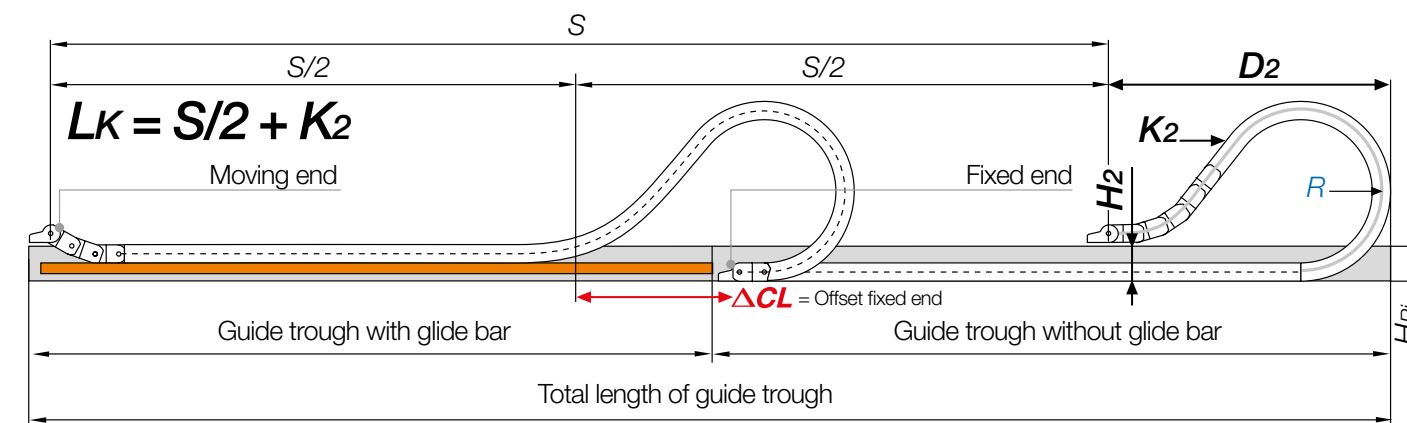


R	055	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880

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 long travels from 10m to max. 100m



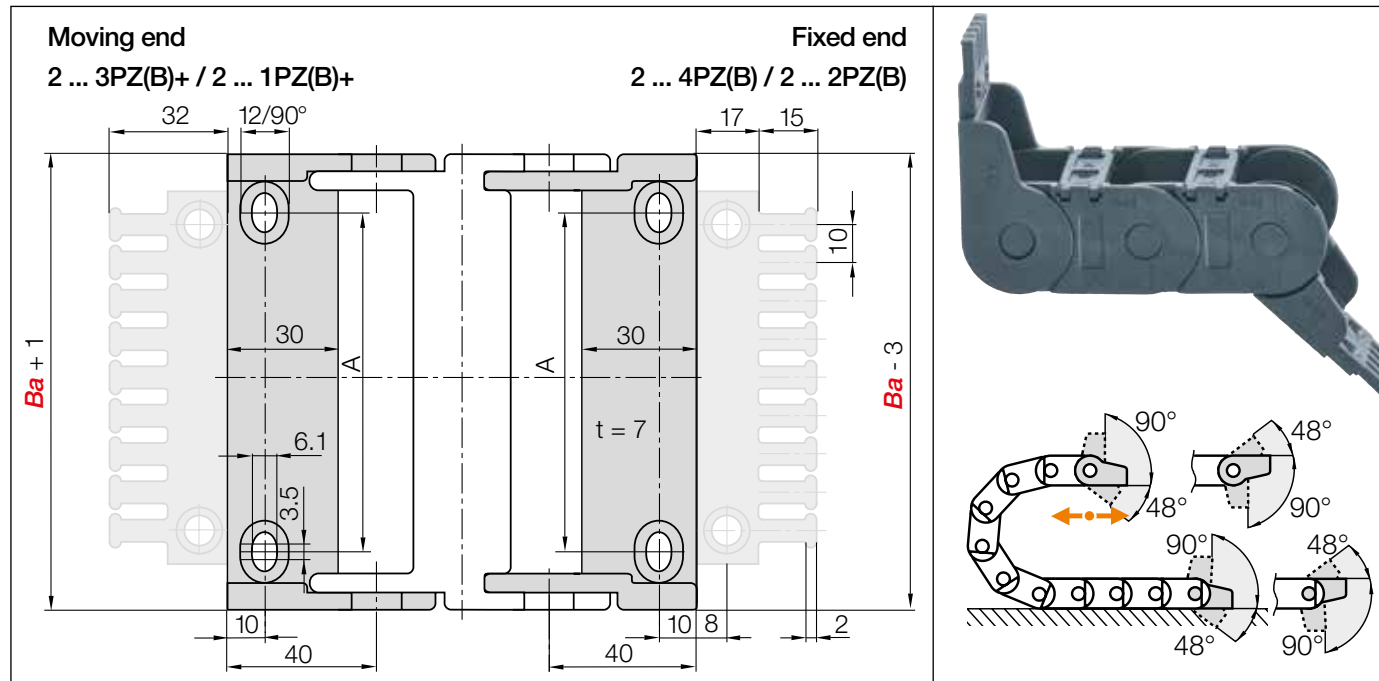
Note: before using series 2400/2450/2480 on long travels please consult igus®.

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

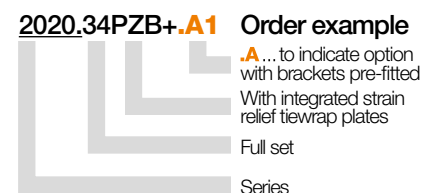
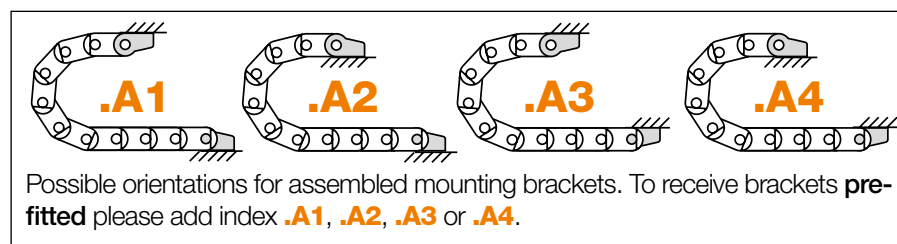
Before using series 2400 on long travels please consult igus®.



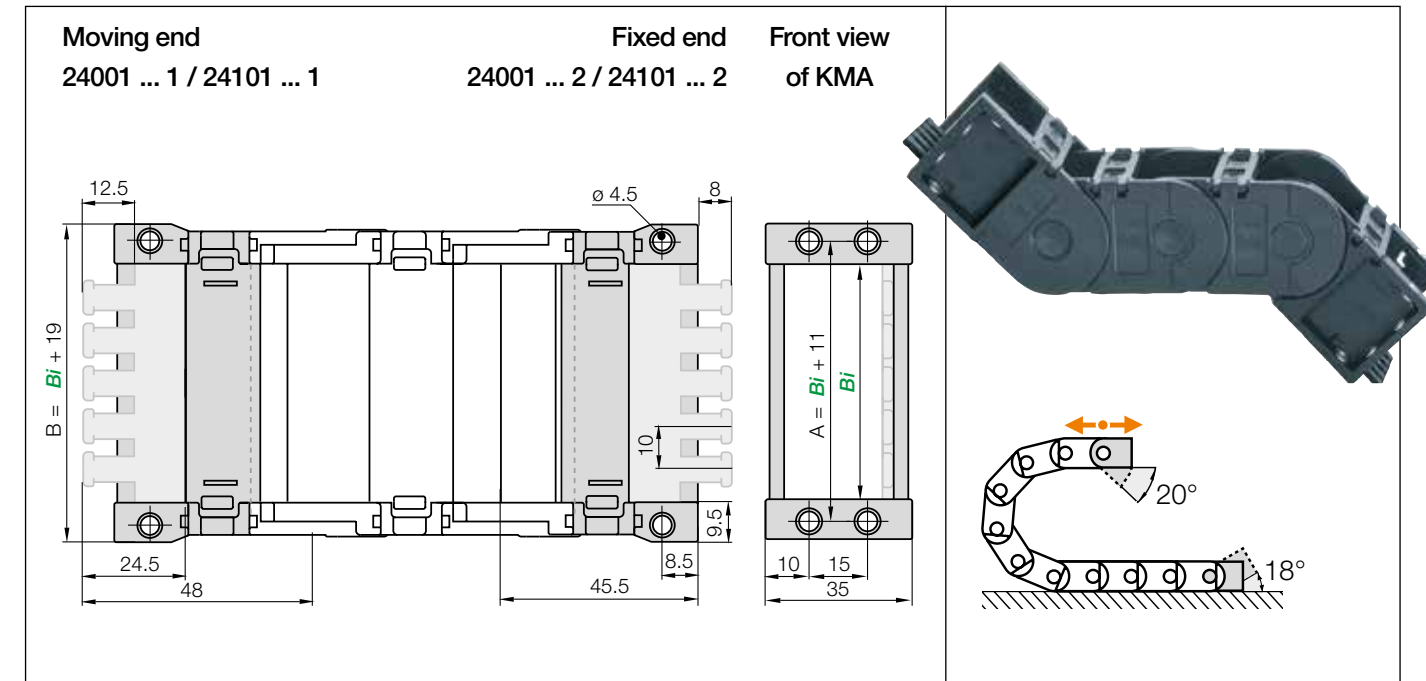
Polymer pivoting	Recommended for unsupported and gliding applications
Polymer locking	Recommended for vertical hanging and standing applications

Width index	Part No. full set pivoting		Part No. full set locking		A	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate	[mm]	
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**. Example: **2020.34PZBK1+**



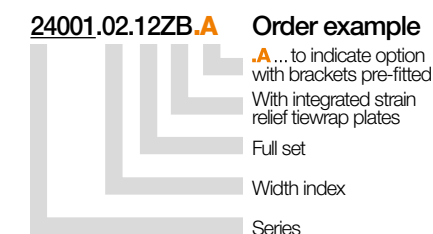
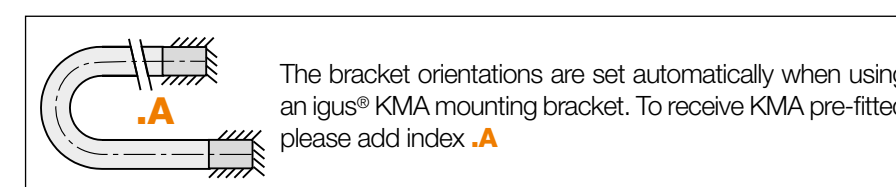
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300



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	B	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate	[mm]	[mm]	
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)



Option: steel mounting bracket, pivoting. For e-chains® and e-tubes, Part No. 2000.32

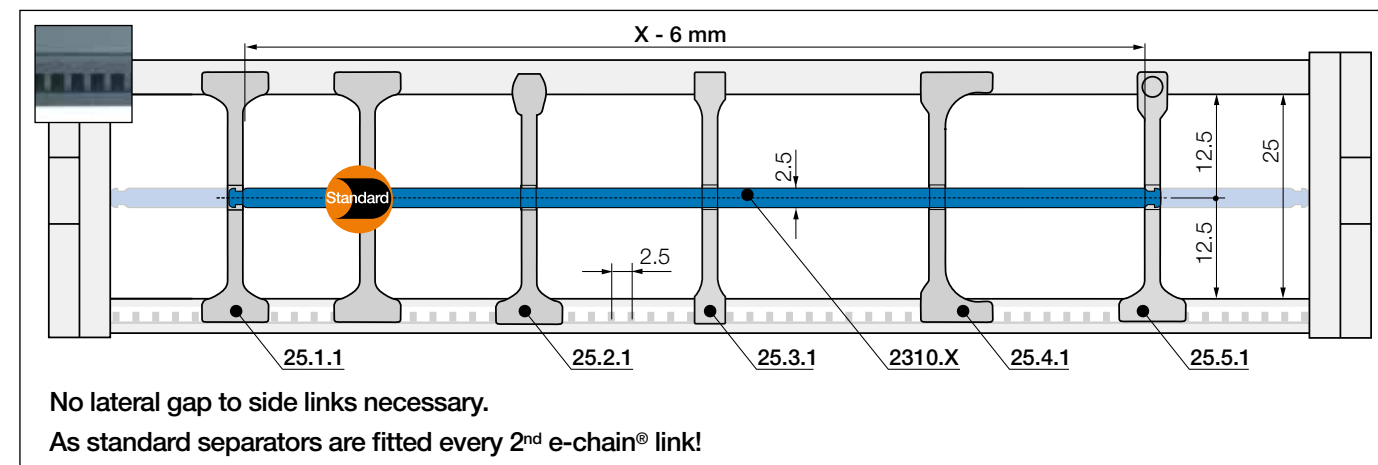
- Pivoting connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive



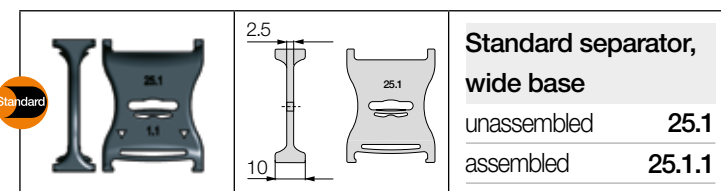
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Interior separation | Increase cable service life

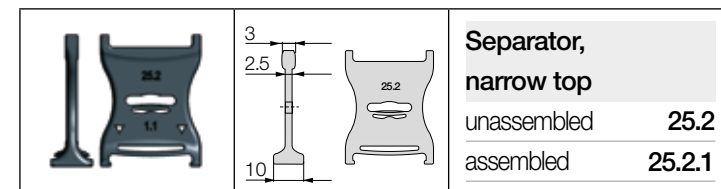
Previous generation of interior separation with other options ► www.igus.eu/2400 ► www.igus.eu/2500



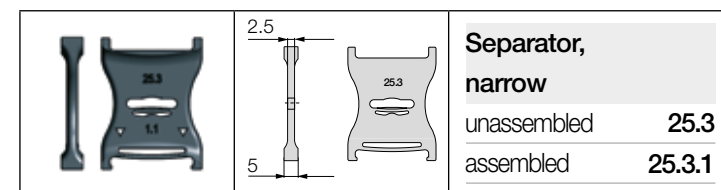
No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



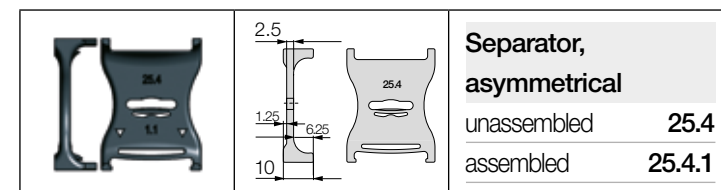
Standard separator, wide base
unassembled 25.1
assembled 25.1.1



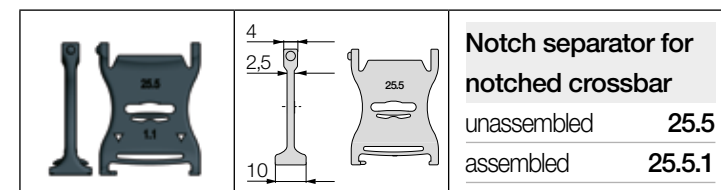
Separator, narrow top
unassembled 25.2
assembled 25.2.1



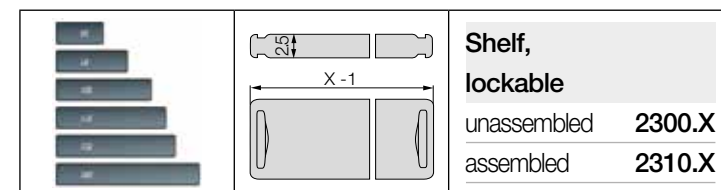
Separator, narrow
unassembled 25.3
assembled 25.3.1



Separator, asymmetrical
unassembled 25.4
assembled 25.4.1



Notch separator for notched crossbar
unassembled 25.5
assembled 25.5.1



Shelf, lockable
unassembled 2300.X
assembled 2310.X

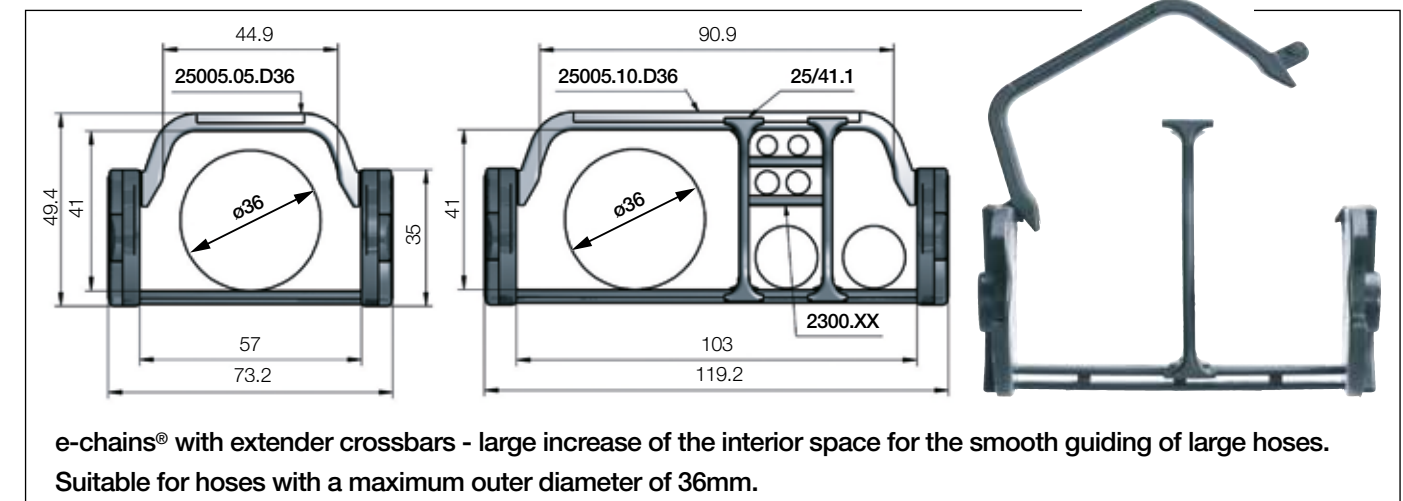
Shelves

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



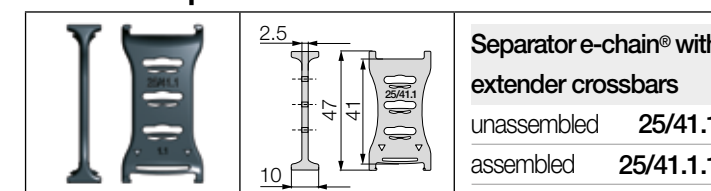
e-chains® with extender crossbars - large increase of the interior space for the smooth guiding of large hoses.
Suitable for hoses with a maximum outer diameter of 36mm.

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

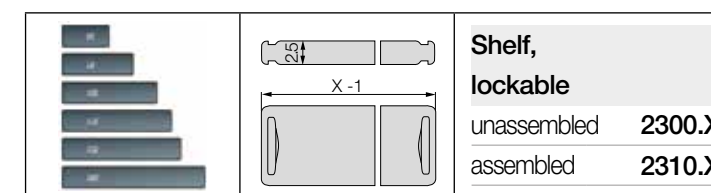
* Radius 055 only possible with e-chains® series 2500, openable along outer radius!

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

Interior separation for e-chains® with extender crossbars



Separator e-chain® with extender crossbars
unassembled 25/41.1
assembled 25/41.1.1



Shelf, lockable
unassembled 2300.X
assembled 2310.X

Standard separator, wide base

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





Half e-tubes | Series 2450 | Crossbars openable along inner radius from both sides, closed along outer radius
Full e-tubes | Series 2480 | Lids openable along inner radius from both sides, fully enclosed

Part No. half e-tubes openable along the inner radius	Part No. full e-tubes openable along the inner radius	Bi	Ba	R Available bend radii	2450	2480
		[mm]	[mm]	[mm]	[kg/m]	[kg/m]
2450.02.R.0	2480.02.R.0	25	41	055* 075 100 125 150 175 200 225 250	≈ 0.80	≈ 0.82
2450.03.R.0	2480.03.R.0	38	54	055* 075 100 125 150 175 200 225 250	≈ 0.88	≈ 0.92
2450.05.R.0	2480.05.R.0	57	73	055 075 100 125 150 175 200 225 250	≈ 0.99	≈ 1.03
2450.07.R.0	2480.07.R.0	77	93	055 075 100 125 150 175 200 225 250	≈ 1.12	≈ 1.17
2450.09.R.0	2480.09.R.0	89	105	055* 075 100 125 150 175 200 225 250	≈ 1.20	≈ 1.26
2450.10.R.0	2480.10.R.0	103	119	055* 075 100 125 150 175 200 225 250	≈ 1.27	≈ 1.34
2450.12.R.0	2480.12.R.0	125	141	055* 075 100 125 150 175 200 225 250	≈ 1.35	≈ 1.43

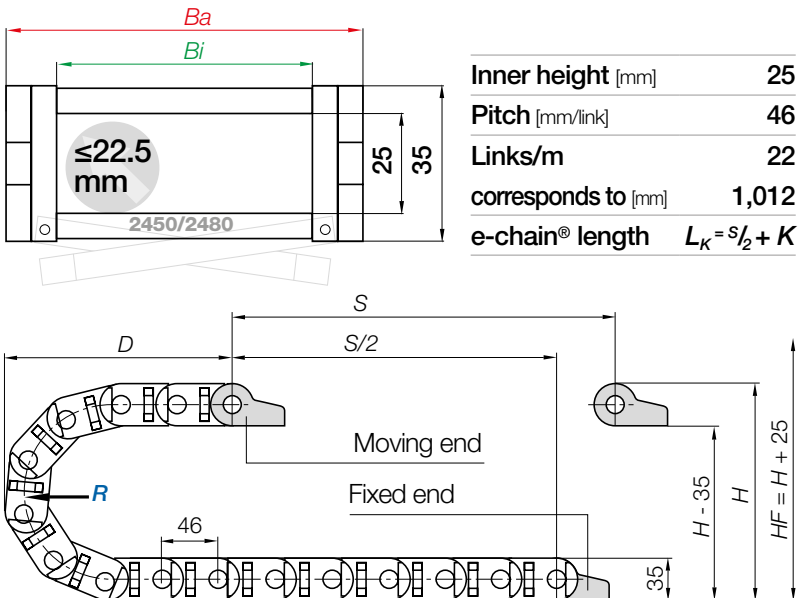
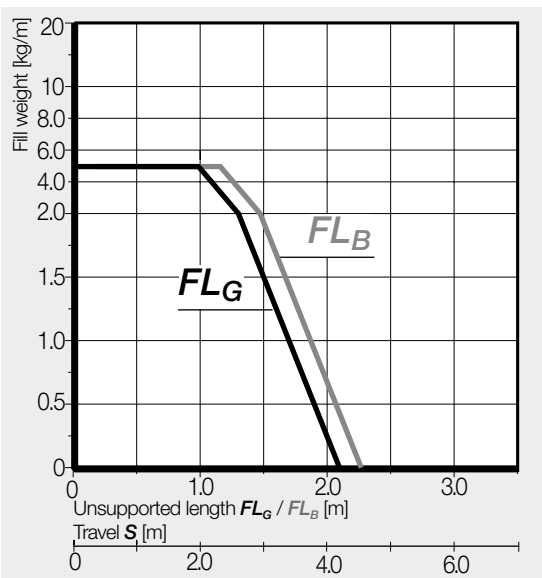
*Radius available upon request. Please consult igus® for price and delivery time.

For the 055 radius the e-tube is not completely enclosed. Please consult igus®.

Complete Part No. with required radius (R). Example: 2450.03.100.0

Reduce assembly time - E2/000 e-chain® opener

- Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
 - For widths Bi [mm]: 05, 07, 09
 - Part No. 908.254.2400 for series 2450
- More information ► www.igus.eu/E2opener

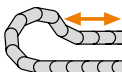


Inner height [mm]	25
Pitch [mm/link]	46
Links/m	22
corresponds to [mm]	1,012
e-chain® length	$L_K = \frac{S}{2} + K$

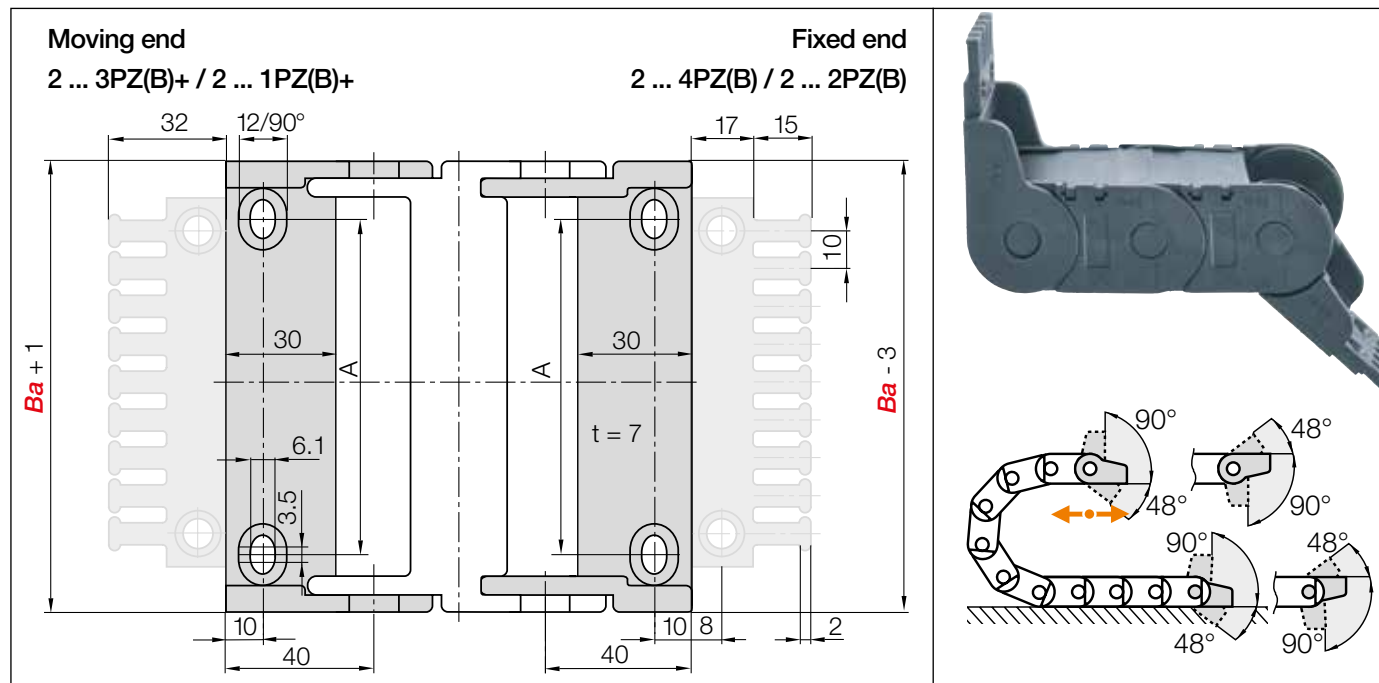
R	055*	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880

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

*Radii for several widths available upon request (please see product range table). Before using series 2450/2480 on long travels please consult igus®.



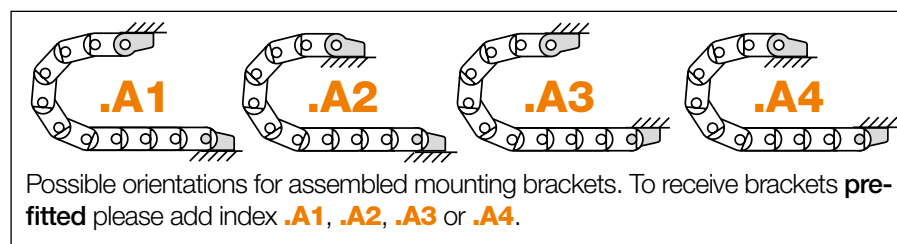
i If a gliding application is required for a long travel, please consult igus®.



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

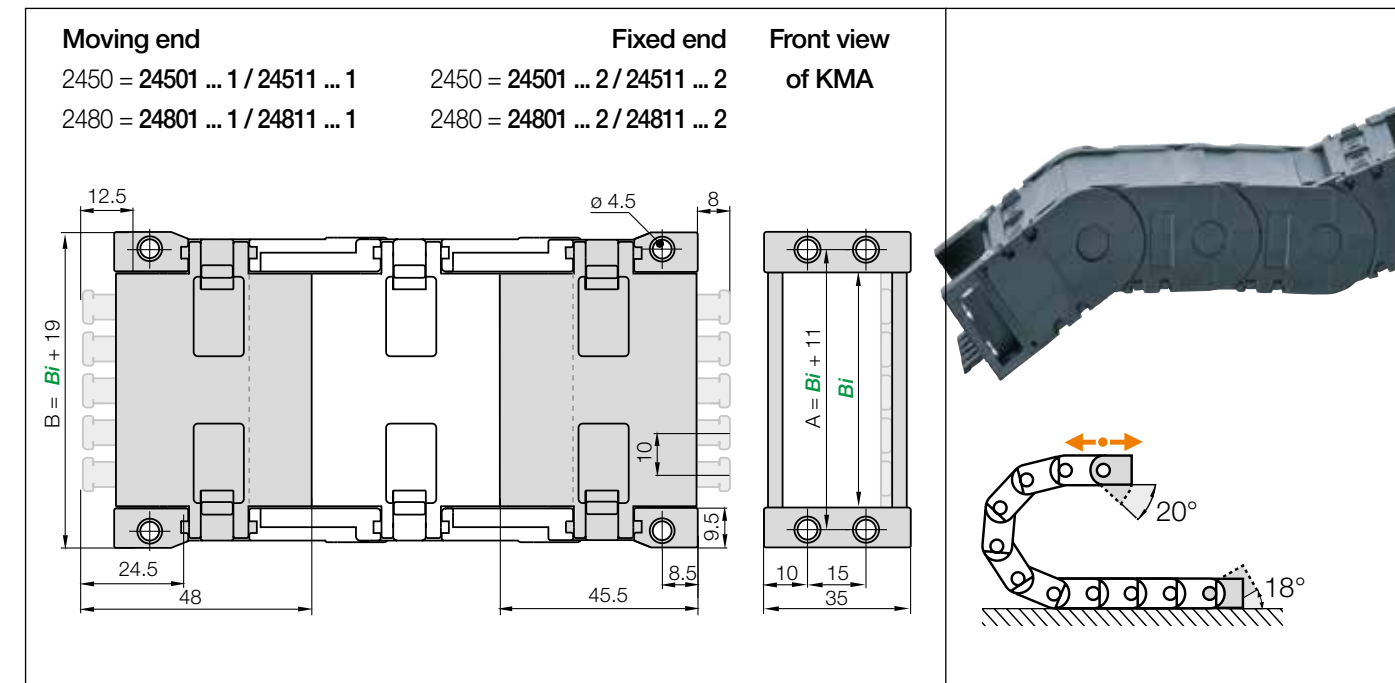
Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate		
02. ▶	2020.34PZB+	2020.34PZ+	2020.12PZB+	2020.12PZ+	12	3
03. ▶	2030.34PZB+	2030.34PZ+	2030.12PZB+	2030.12PZ+	25	4
05. ▶	2050.34PZB+	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 tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: **2020.34PZBK1+**



2020.34PZB+.A1 Order example
.A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



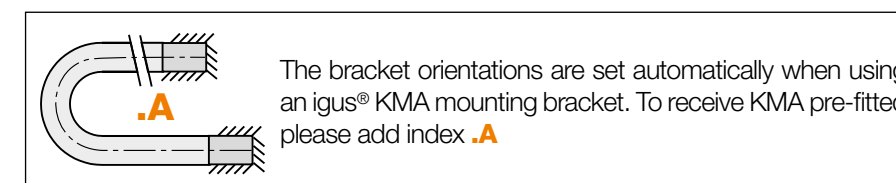
KMA pivoting | Recommended for unsupported applications
KMA locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting ¹⁾				Part No. full set KMA locking ²⁾				A	B	Number
	with tiewrap plates		without tiewrap plate		with tiewrap plates		without tiewrap plate		[mm]	[mm]	of teeth
02. ▶	24501	24801 .02.12ZB	24501	24801 .02.12	24511	24811 .02.12ZB	24511	24811 .02.12	36	44	2
03. ▶	24501	24801 .03.12ZB	24501	24801 .03.12	24511	24811 .03.12ZB	24511	24811 .03.12	49	57	4
05. ▶	24501	24801 .05.12ZB	24501	24801 .05.12	24511	24811 .05.12ZB	24511	24811 .05.12	68	76	6
07. ▶	24501	24801 .07.12ZB	24501	24801 .07.12	24511	24811 .07.12ZB	24511	24811 .07.12	88	86	7
09. ▶	24501	24801 .09.12ZB	24501	24801 .09.12	24511	24811 .09.12ZB	24511	24811 .09.12	100	108	9
10. ▶	24501	24801 .10.12ZB	24501	24801 .10.12	24511	24811 .10.12ZB	24511	24811 .10.12	114	122	10
12. ▶	24501	24801 .12.12ZB	24501	24801 .12.12	24511	24811 .12.12ZB	24511	24811 .12.12	136	144	12

1) KMA pivoting Part No. 24501 for half e-tube series 2450 / KMA pivoting Part No. 24801 for full e-tube series 2480

2) KMA locking Part No. 24511 for half e-tube series 2450 / KMA locking Part No. 24811 for full e-tube series 2480

(KMA = polymer metal mounting bracket)



24501.02.12ZB.A Order example
.A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Width index
 Series

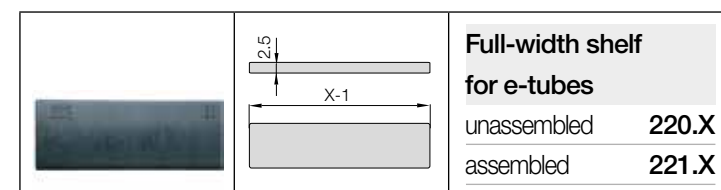
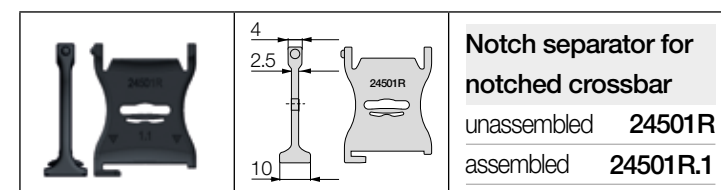
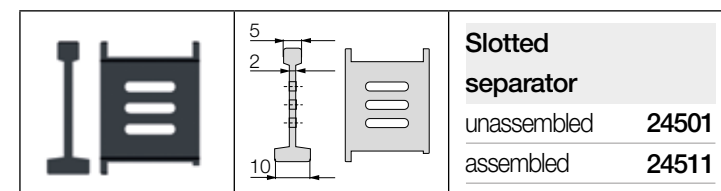
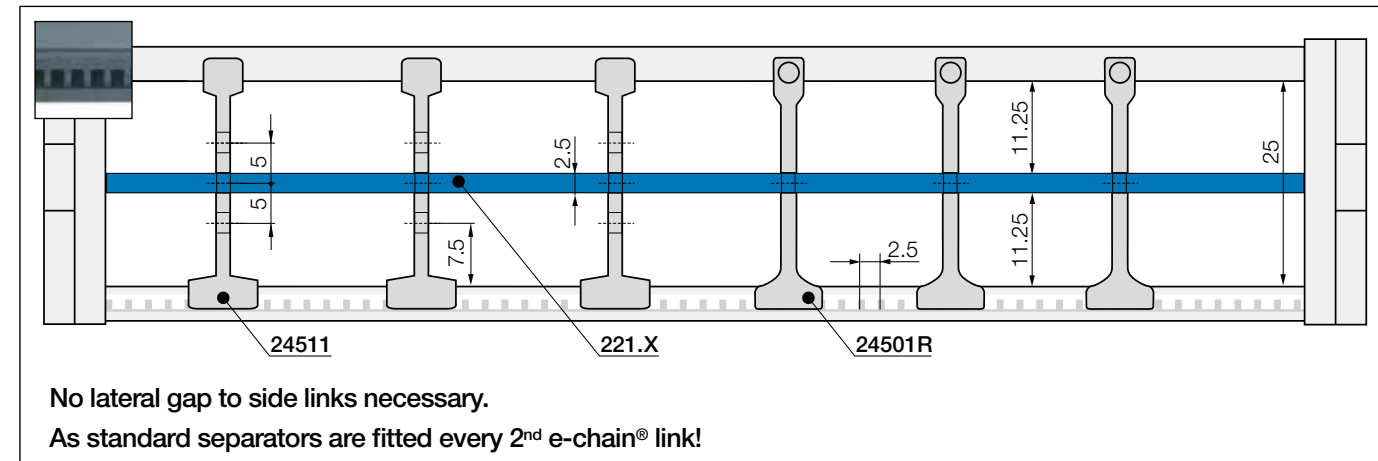


Option: steel mounting bracket, pivoting. For e-chains® and e-tubes, Part No. 2000.32

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

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Interior separation



Full-width shelves Width = X [mm]	X [mm]			X [mm]			X [mm]		
	unassembled	assembled		unassembled	assembled		unassembled	assembled	
	025	220.25	221.25	077	220.77	221.77	125	220.125	221.125
	038	220.38	221.38	090	220.90	221.90			
	057	220.57	221.57	103	220.103	221.103			

Slotted separator

Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

Locks securely in preset increments

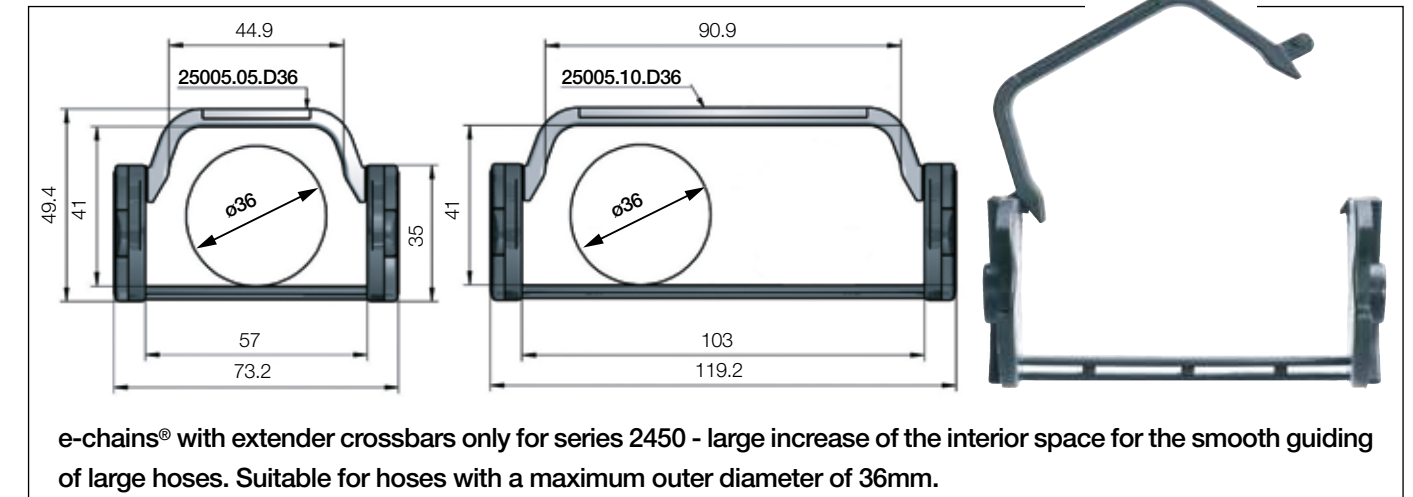
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

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

Full-width shelf

This option is for applications with many small cables with similar diameters. For full width separation.

e-chains® with extender crossbar | Product Range



Part No. half e-tubes extender crossbars openable along the inner radius	Bi	Ba	R Available bend radii									
	[mm]	[mm]	[mm]									
2450.05.D36 .R.0	57	73		075	100	125	150	175	200	225	250	
2450.10.D36 .R.0	103	119		075	100	125	150	175	200	225	250	

Complete Part No. with required radius (R). Example: 2450.05.D36.100.0

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 screws
- Part No. 2020.ZR. 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





e-chains® | Series 2600 | Crossbars openable along the inner radius, from both sides
 e-chains® | Series 2700 | 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]	2600 [kg/m]	2700 [kg/m]
2600.05.R.0	2700.05.R.0 ¹⁾	50	66	063 075 100 125 150 175 200 250	≈ 1.17	≈ 1.17
2600.06.R.0	2700.06.R.0 ¹⁾	65	81	063 075 100 125 150 175 200 250	≈ 1.24	≈ 1.24
2600.07.R.0	2700.07.R.0 ¹⁾	75	91	063 075 100 125 150 175 200 250	≈ 1.30	≈ 1.30
2600.09.R.0	2700.09.R.0 ¹⁾	90	106	063 075 100 125 150 175 200 250	≈ 1.37	≈ 1.37
2600.10.R.0	2700.10.R.0 ¹⁾	100	116	063 075 100 125 150 175 200 250	≈ 1.39	≈ 1.39
2600.12.R.0	2700.12.R.0 ¹⁾	125	141	063 075 100 125 150 175 200 250	≈ 1.48	≈ 1.48
2600.15.R.0	2700.15.R.0	150	166	063 075 100 125 150 175 200 250	≈ 1.62	≈ 1.62
2600.17.R.0	2700.17.R.0	175	194	063 075 100 125 150 175 200 250	≈ 1.85	≈ 1.85

1) Available as ESD version from stock

Half e-tubes, series 2650 and full e-tubes, series 2680 ► From page 400

Complete Part No. with required radius (R). Example: 2700.05.100.0

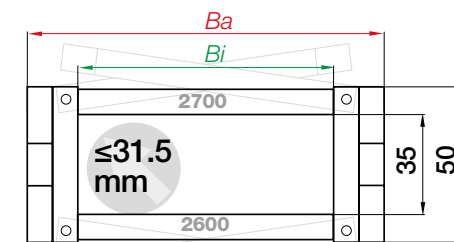
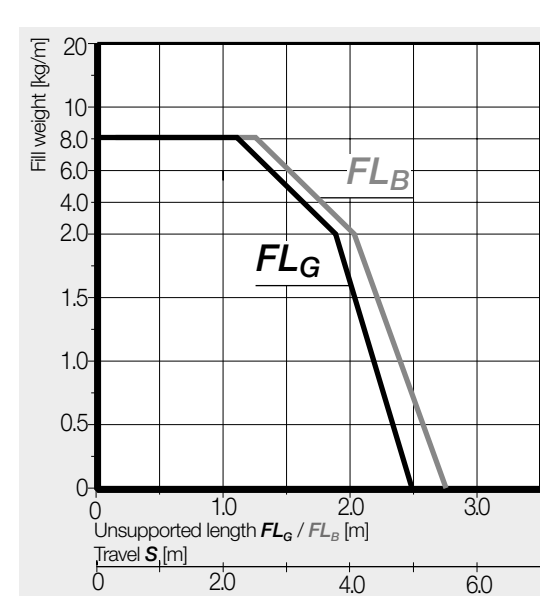
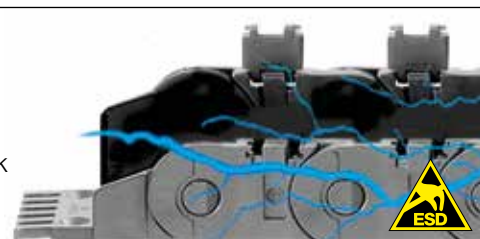


Reduce assembly time - E2/000 e-chain® opener

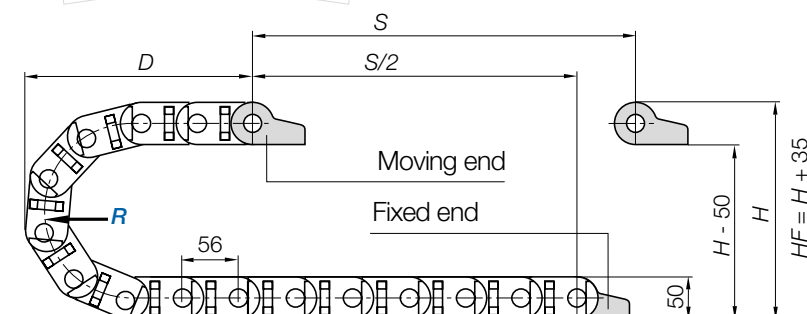
- Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
 - For widths Bi [mm]: 06, 07, 09, 10
 - Part No. 908.254.2600 for series 2600/2700
- More information ► www.igus.eu/E2opener

ESD - many sizes from stock

- Standardised product made from igumid ESD
 - ESD material tested with over 10 million cycles for the toughest requirements
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information ► www.igus.eu/esd



Inner height [mm]	35
Pitch [mm/link]	56
Links/m	18
corresponds to [mm]	1,008
e-chain® length	$L_K = \frac{S}{2} + K$

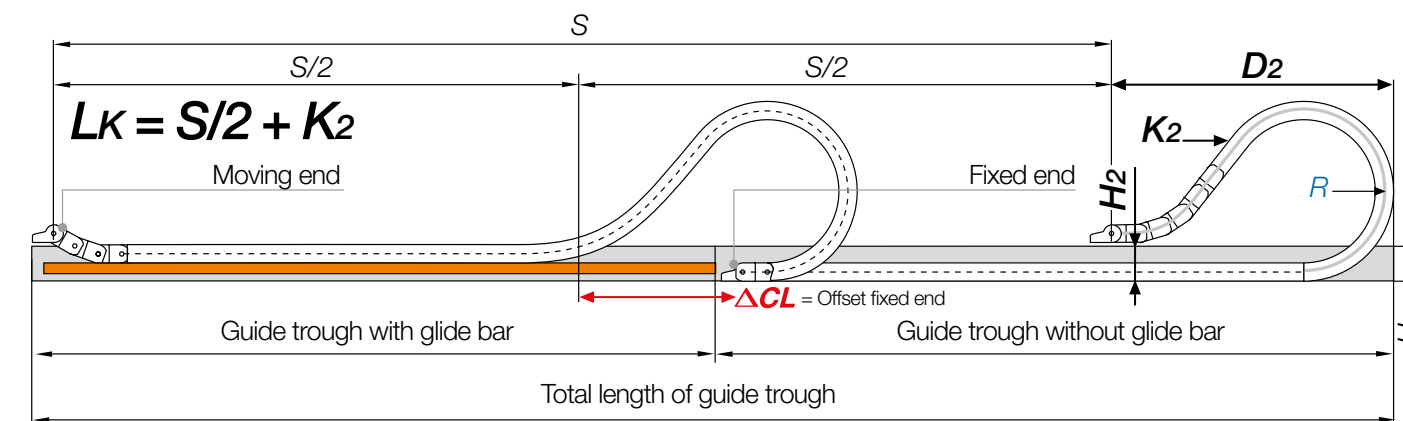


R	063	075	100	125	150	175	200	250
H	176	200	250	300	350	400	450	550
D	172	184	209	234	259	284	309	359
K	310	350	430	505	585	665	745	900

The required clearance height: $H_F = H + 35\text{mm}$ (with 2.0kg/m fill weight)

Before using series 2600 on long travels please consult igus®.

Gliding applications | For long travels from 10m to max. 120m



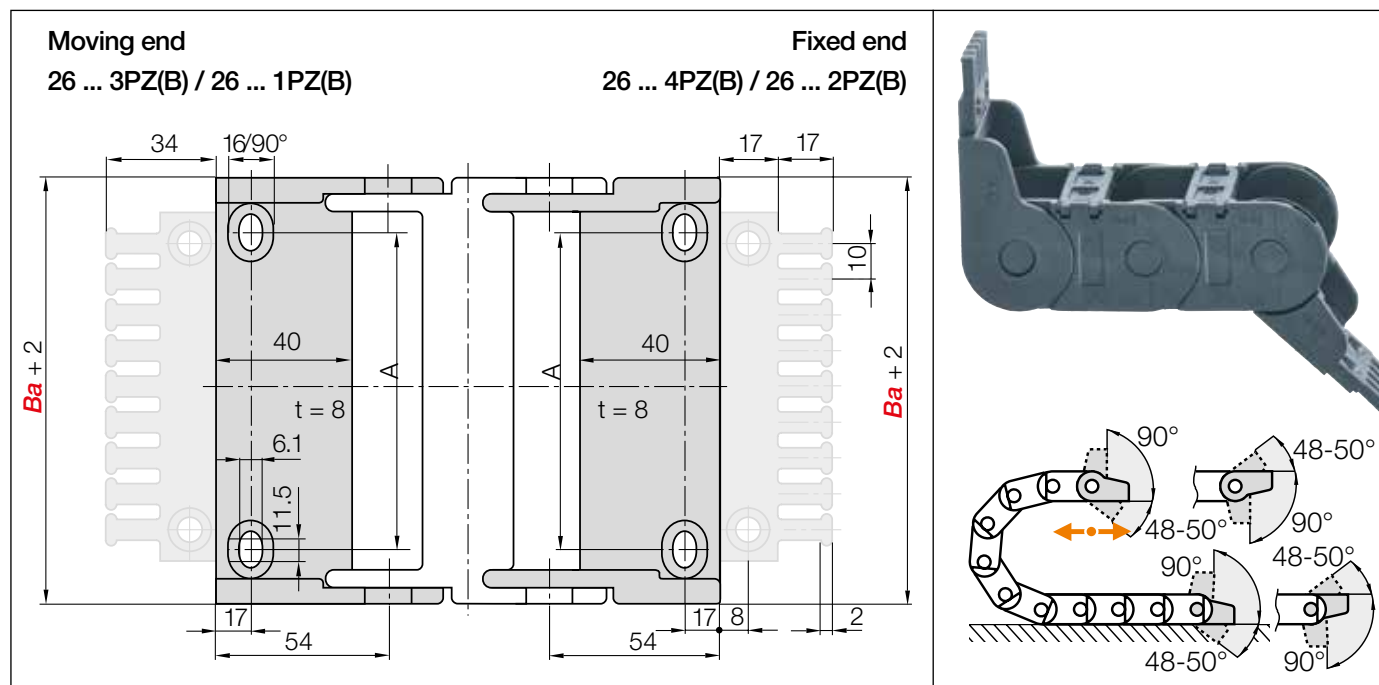
Note: before using series 2600/2650/2680 on long travels please consult igus®.

For long travels, igus® recommends series 2700 openable along the outer radius.

In case of travels between 5 and 10m we recommend an e-chain® with a longer unsupported length.

R	063	075	100	125	150	175	200	250
H ₂	130	150	166	166	166	166	166	166
D ₂ ⁺²⁵	140	150	395	510	545	700	805	995
K ₂	335	375	616	784	896	1,120	1,288	1,624
ΔCL	—	—	144	244	244	374	464	594

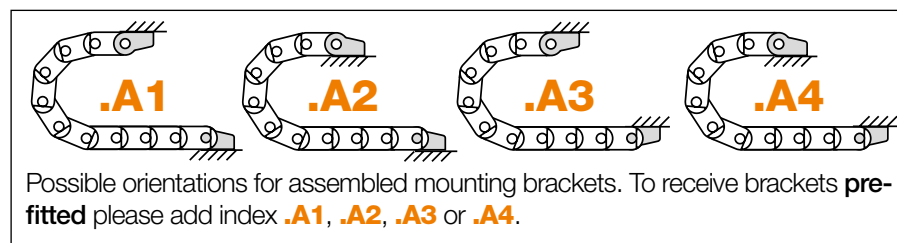
Before using series 2600 on long travels please consult igus®.



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

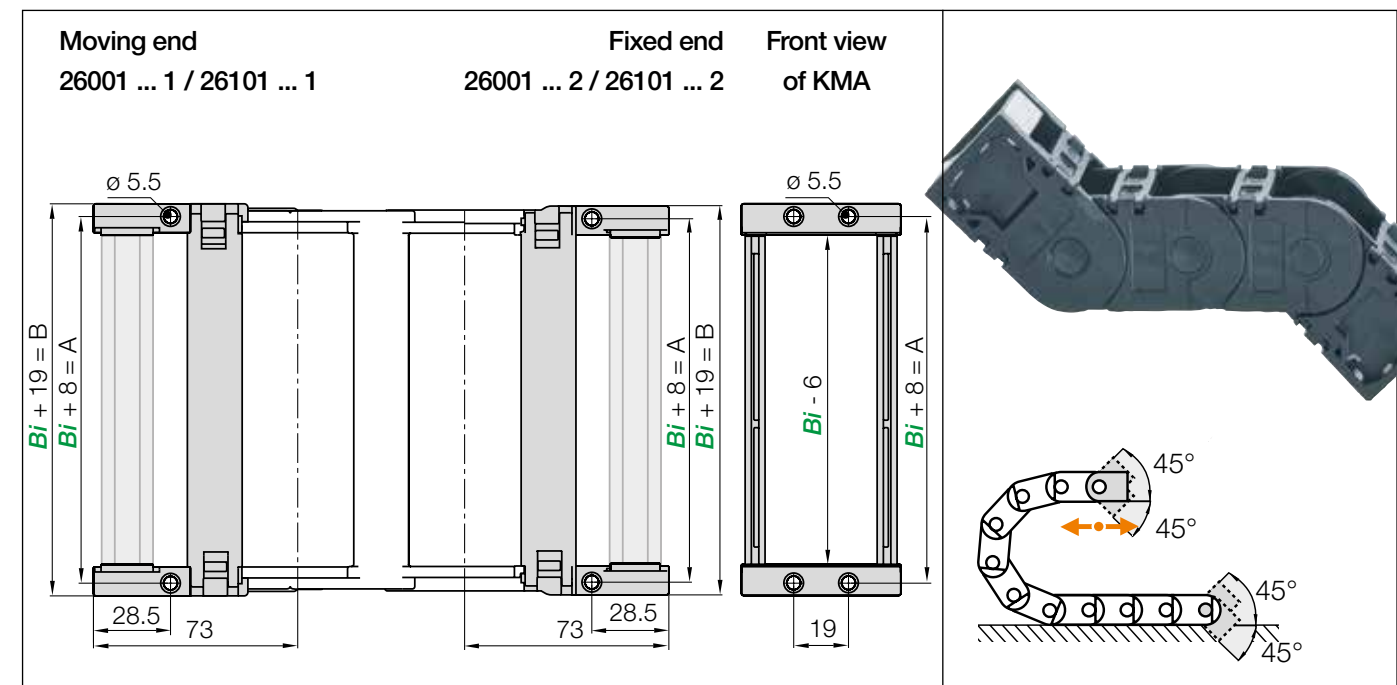
Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate		
05. ▶	2605.34PZB	2605.34PZ	2605.12PZB	2605.12PZ	30	5
06. ▶	2606.34PZB	2606.34PZ	2606.12PZB	2606.12PZ	45	5
07. ▶	2607.34PZB	2607.34PZ	2607.12PZB	2607.12PZ	55	7
09. ▶	2609.34PZB	2609.34PZ	2609.12PZB	2609.12PZ	70	9
10. ▶	2610.34PZB	2610.34PZ	2610.12PZB	2610.12PZ	80	10
12. ▶	2612.34PZB	2612.34PZ	2612.12PZB	2612.12PZ	105	12
15. ▶	2615.34PZB	2615.34PZ	2615.12PZB	2615.12PZ	130	15
17. ▶	2617.34PZB	2617.34PZ	2617.12PZB	2617.12PZ	155	17

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: 2605.34PZBK1



2605.34PZB.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

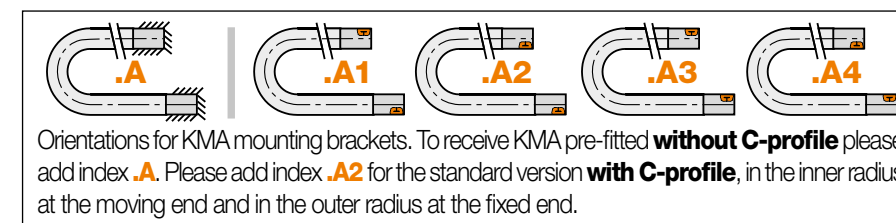


KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting		Part No. full set KMA locking		A [mm]	B [mm]
	with C-profile	without C-profile	with C-profile	without C-profile		
05. ▶	26001.05.12.C	26001.05.12	26101.05.12.C	26101.05.12	58	69
06. ▶	26001.06.12.C	26001.06.12	26101.06.12.C	26101.06.12	73	84
07. ▶	26001.07.12.C	26001.07.12	26101.07.12.C	26101.07.12	83	94
09. ▶	26001.09.12.C	26001.09.12	26101.09.12.C	26101.09.12	98	109
10. ▶	26001.10.12.C	26001.10.12	26101.10.12.C	26101.10.12	108	119
12. ▶	26001.12.12.C	26001.12.12	26101.12.12.C	26101.12.12	133	144
15. ▶	26001.15.12.C	26001.15.12	26101.15.12.C	26101.15.12	158	169
17. ▶	26001.17.12.C	26001.17.12	26101.17.12.C	26101.17.12	183	194

KMA pivoting to one end: moving end 26101...3 / fixed end 26101...4

(KMA = polymer metal mounting bracket)



26001.05.12.C.A2 Order example
 .A... to indicate option with brackets pre-fitted
 C-profile option
 Full set
 Width index
 Series



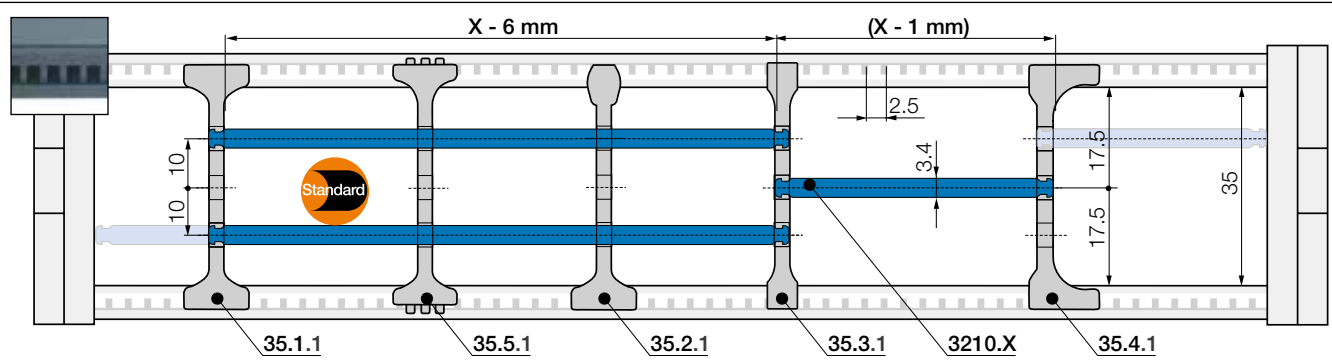
Option: steel mounting bracket, locking. For e-chains® and e-tubes, Part No. 260.12

● Locking 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 ordering options ▶ From page 1300

Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/2600 ► www.igus.eu/2700



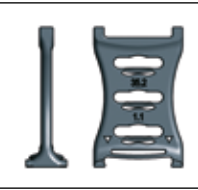
No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



Standard separator, wide base

unassembled	35.1
assembled	35.1.1

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.



Separator, narrow top

unassembled	35.2
assembled	35.2.1

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



Separator, narrow

unassembled	35.3
assembled	35.3.1

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.



Separator, asymmetrical

unassembled	35.4
assembled	35.4.1

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



Notch separator for notched crossbar

unassembled	35.5
assembled	35.5.1

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



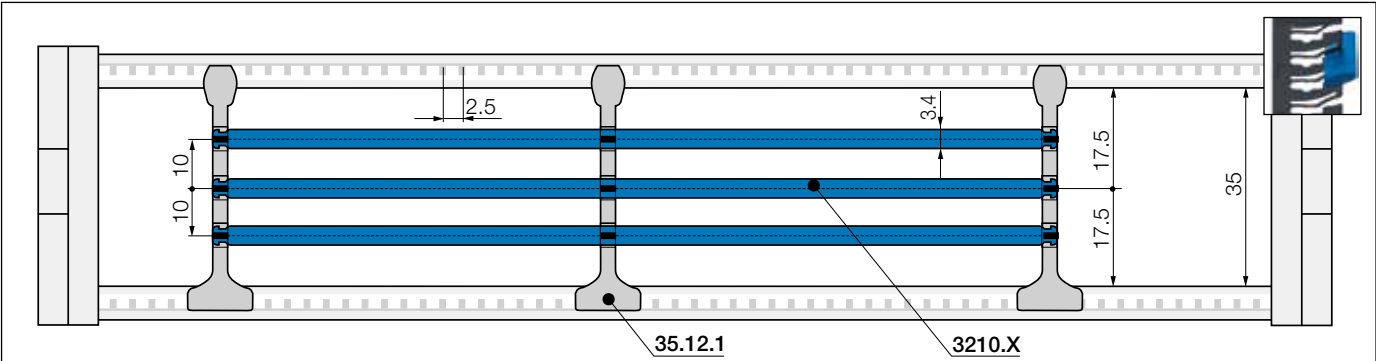
Shelf, lockable

unassembled	3200.X
assembled	3210.X

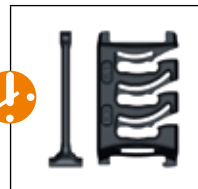
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves Width = X [mm]	X [mm]			X [mm]			X [mm]		
	unassembled	assembled		unassembled	assembled		unassembled	assembled	
	050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
	075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
	100	3200.100	3210.100	175	3200.175	3210.175			
	115	3200.115	3210.115	200	3200.200	3210.200			

Interior separation | To allow faster filling **New**



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



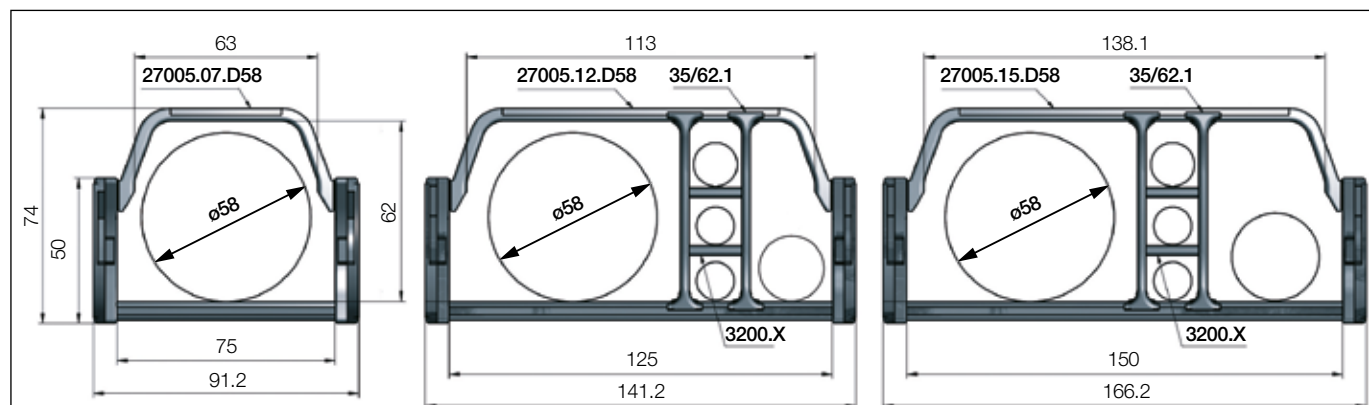
Lean separator

unassembled	35.12
assembled	35.12.1

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® readychain® factory)





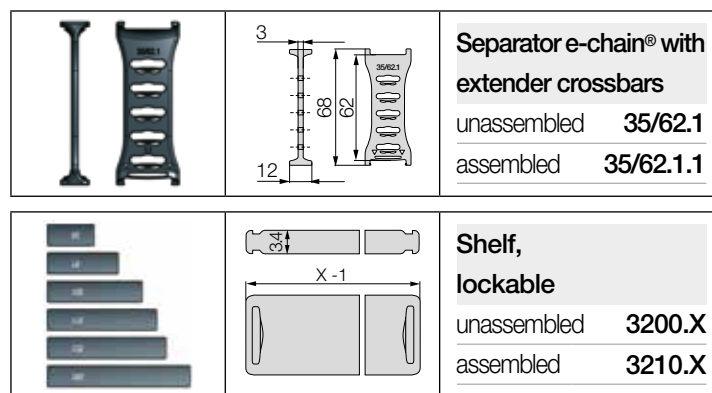
e-chains® with extender crossbars - large increase of the interior space for the smooth guiding of large hoses. Suitable for hoses with a maximum outer diameter of 58mm.

Part No. e-chains® extender crossbars openable along inner radius	Part No. e-chains® extender crossbars openable along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Available bend radii [mm]									
2600. 07 D58 . <i>R</i> .0	2700. 07 D58 . <i>R</i> .0	75	91	063*	075*	100	125	150	175	200	250		
2600. 12 D58 . <i>R</i> .0	2700. 12 D58 . <i>R</i> .0	125	141	063*	075*	100	125	150	175	200	250		
2600. 15 D58 . <i>R</i> .0	2700. 15 D58 . <i>R</i> .0	150	166	063*	075*	100	125	150	175	200	250		

*Radius 063 and 075 only possible with e-chains® series 2700, openable along outer radius!

Complete Part No. with required radius (*R*). Example: 2700.15D58.100.0

Interior separation for e-chains® with extender crossbars



Standard separator, wide base

Separator with a wide base for maximum holding force in the e-chain®. 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 in the e-chain®
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- Part No. 262.Z. More information ► From page 1326**

Part No. 262.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



Telescopic loader - an E2/000 e-chain® guides the hydraulic hoses via the telescopic mast to the attachment



Half e-tubes | Series 2650 | Crossbars openable along inner radius from both sides, closed along outer radius
Full e-tubes | Series 2680 | Lids openable along inner radius from both sides, fully enclosed

Part No. half e-tubes openable along the inner radius	Part No. full e-tubes openable along the inner radius	Bi [mm]	Ba [mm]	R Available bend radii [mm]	2650 [kg/m]	2680 [kg/m]
2650.05.R.0	2680.05.R.0	50	66	063* 075* 100 125 150 175 200 250	≈ 1.25	≈ 1.33
2650.06.R.0	2680.06.R.0	65	81	063* 075* 100 125 150 175 200 250	≈ 1.36	≈ 1.43
2650.07.R.0	2680.07.R.0	75	91	063* 075* 100 125 150 175 200 250	≈ 1.40	≈ 1.51
2650.09.R.0	2680.09.R.0	90	106	063* 075* 100 125 150 175 200 250	≈ 1.55	≈ 1.62
2650.10.R.0	2680.10.R.0	100	116	063* 075* 100 125 150 175 200 250	≈ 1.61	≈ 1.81
2650.12.R.0	2680.12.R.0	125	141	063* 075* 100 125 150 175 200 250	≈ 1.70	≈ 1.99
2650.15.R.0	2680.15.R.0	150	166	063* 075* 100 125 150 175 200 250	≈ 1.80	≈ 2.17
2650.17.R.0	2680.17.R.0	175	194	063* 075* 100 125 150 175 200 250	≈ 2.00	≈ 2.35

*Radius available upon request. Please consult igus® for price and delivery time.

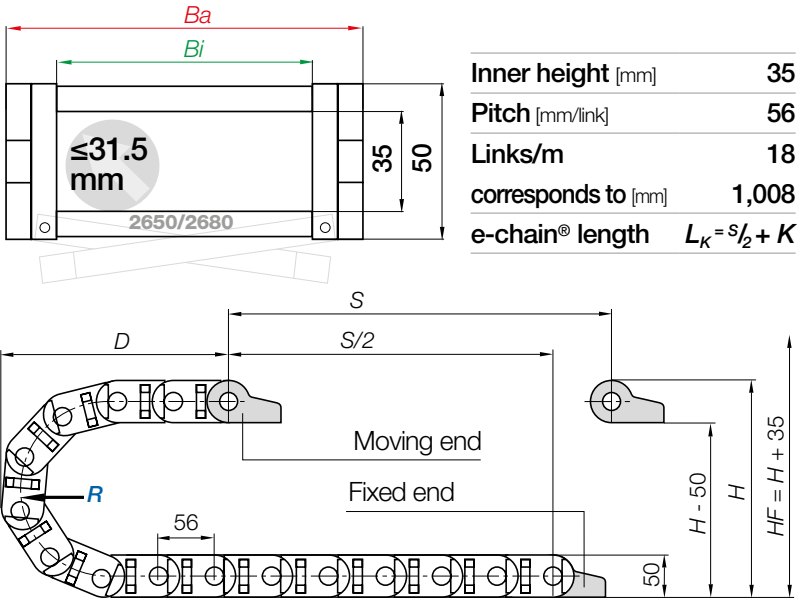
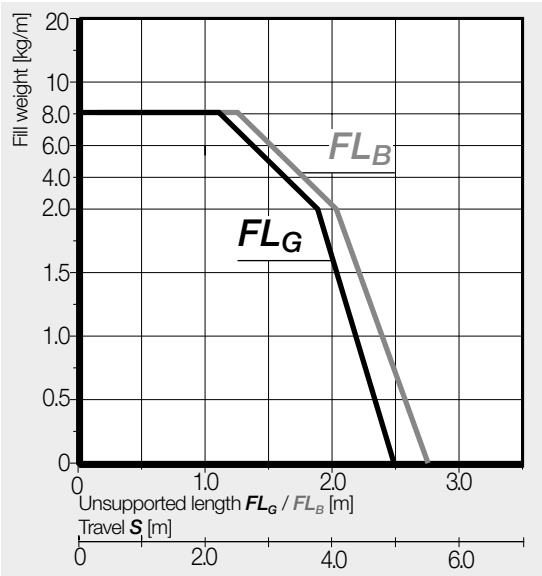
Radii 063, 075: the e-tube is not completely enclosed. Please consult igus®.

Complete Part No. with required radius (R). Example: 2650.05.100.0



Reduce assembly time - E2/000 e-chain® opener

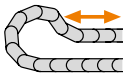
- Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
 - For widths Bi [mm]: 06, 07, 09, 10
 - Part No. 908.254.2600 for series 2650
- More information ► www.igus.eu/E2opener

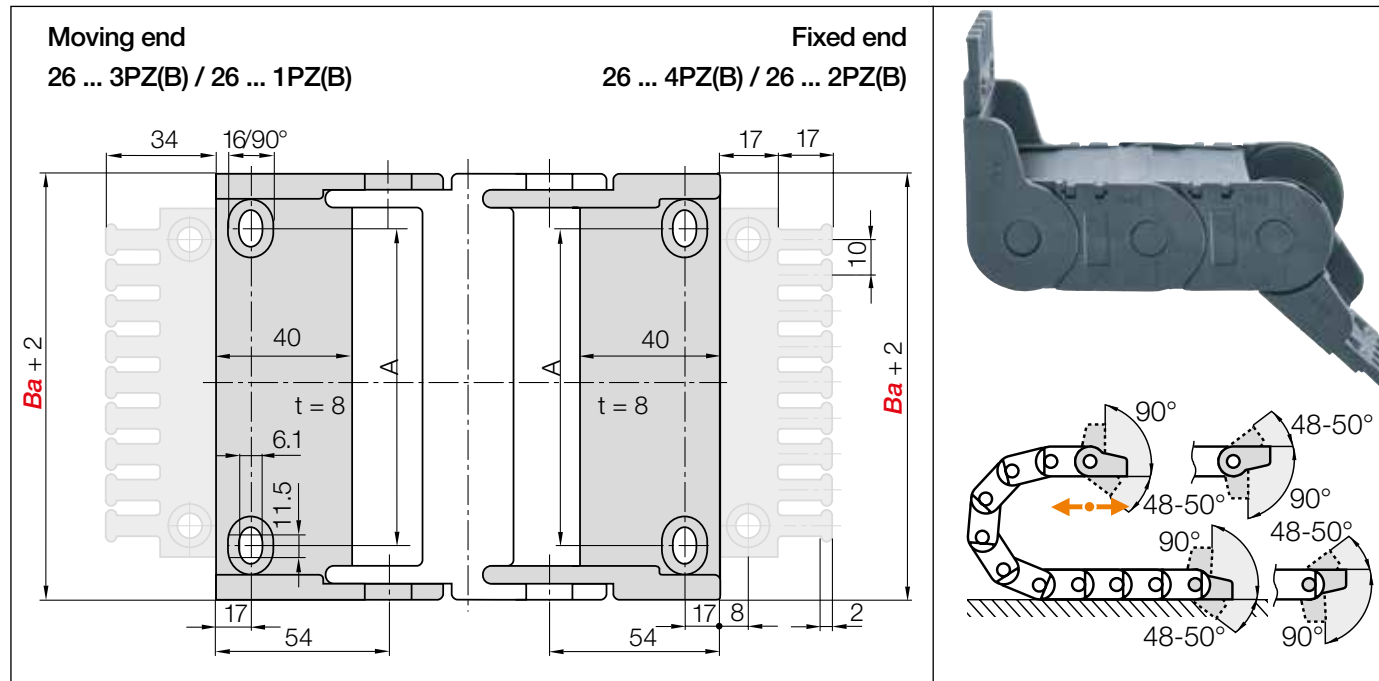


R	063*	075*	100	125	150	175	200	250
H	176	200	250	300	350	400	450	550
D	172	184	209	234	259	284	309	359
K	310	350	430	505	585	665	745	900

The required clearance height: $H_F = H + 35\text{mm}$ (with 2.0kg/m fill weight)

*Radius available upon request. Please consult igus® for delivery time. Before using series 2650/2680 on long travels please consult igus®.

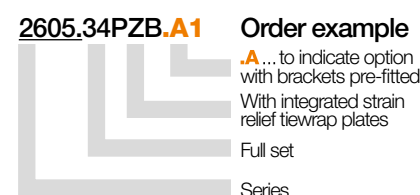
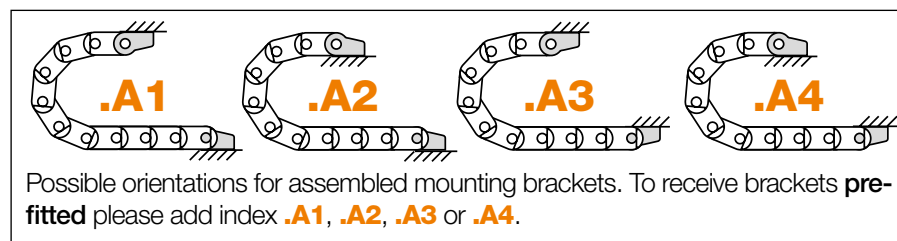
 If a gliding application is required for a long travel, please consult igus®.



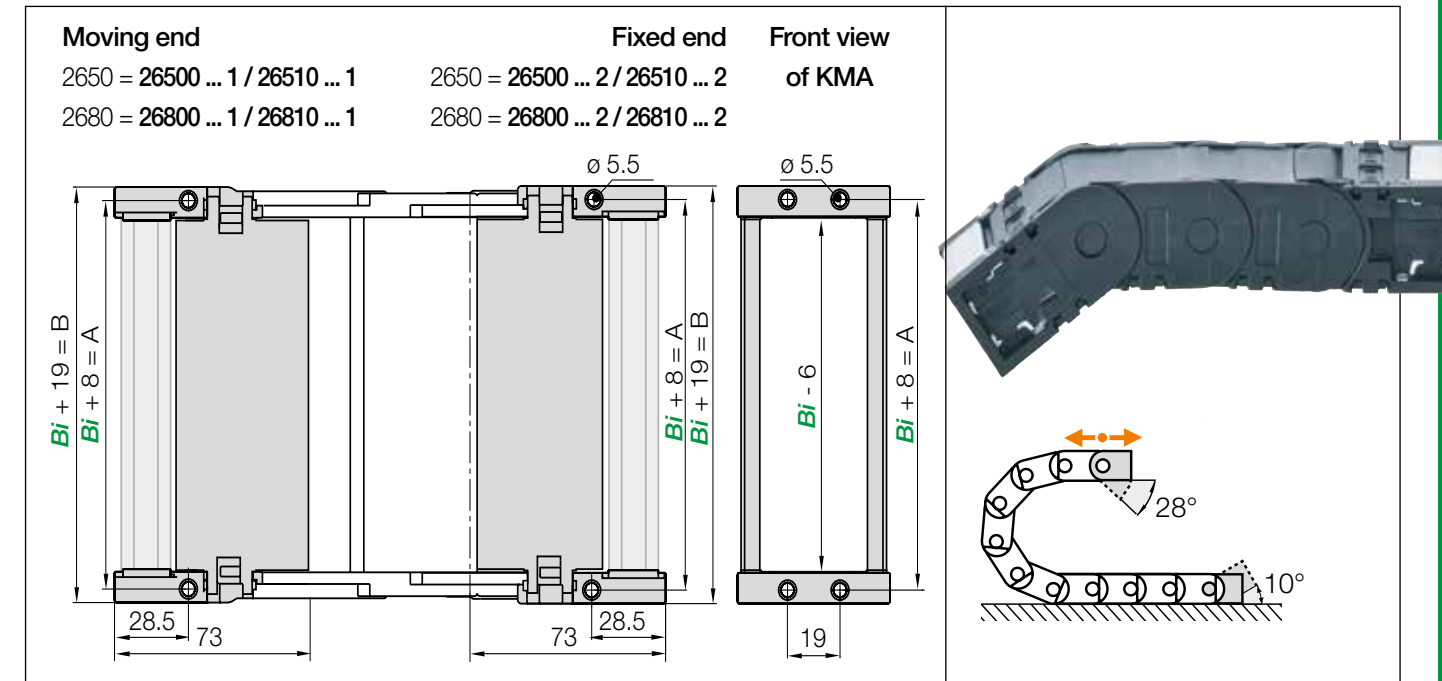
Polymer pivoting	Recommended for unsupported applications
Polymer locking	Recommended for vertical hanging and standing applications

Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate		
05. ▶	2605.34PZB	2605.34PZ	2605.12PZB	2605.12PZ	30	5
06. ▶	2606.34PZB	2606.34PZ	2606.12PZB	2606.12PZ	45	5
07. ▶	2607.34PZB	2607.34PZ	2607.12PZB	2607.12PZ	55	7
09. ▶	2609.34PZB	2609.34PZ	2609.12PZB	2609.12PZ	70	9
10. ▶	2610.34PZB	2610.34PZ	2610.12PZB	2610.12PZ	80	10
12. ▶	2612.34PZB	2612.34PZ	2612.12PZB	2612.12PZ	105	12
15. ▶	2615.34PZB	2615.34PZ	2615.12PZB	2615.12PZ	130	15
17. ▶	2617.34PZB	2617.34PZ	2617.12PZB	2617.12PZ	155	17

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: **2605.34PZBK1**



 **Strain relief** e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300



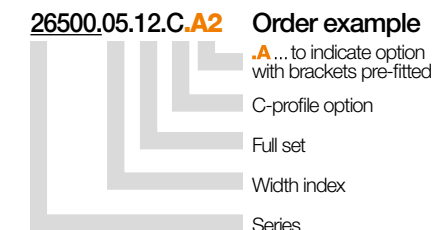
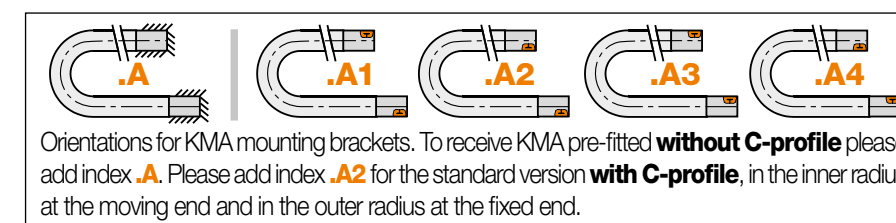
KMA pivoting	Recommended for unsupported applications
KMA locking	Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting¹⁾				Part No. full set KMA locking²⁾				A	B
	with C-profile		without C-profile		with C-profile		without C-profile		[mm]	[mm]
05. ▶	26500	26800 .05.12.C	26500	26800 .05.12	26510	26810 .05.12.C	26510	26810 .05.12	58	69
06. ▶	26500	26800 .06.12.C	26500	26800 .06.12	26510	26810 .06.12.C	26510	26810 .06.12	73	84
07. ▶	26500	26800 .07.12.C	26500	26800 .07.12	26510	26810 .07.12.C	26510	26810 .07.12	83	94
09. ▶	26500	26800 .09.12.C	26500	26800 .09.12	26510	26810 .09.12.C	26510	26810 .09.12	98	109
10. ▶	26500	26800 .10.12.C	26500	26800 .10.12	26510	26810 .10.12.C	26510	26810 .10.12	108	119
12. ▶	26500	26800 .12.12.C	26500	26800 .12.12	26510	26810 .12.12.C	26510	26810 .12.12	133	144
15. ▶	26500	26800 .15.12.C	26500	26800 .15.12	26510	26810 .15.12.C	26510	26810 .15.12	158	169
17. ▶	26500	26800 .17.12.C	26500	26800 .17.12	26510	26810 .17.12.C	26510	26810 .17.12	183	194

1) KMA pivoting Part No. 26500 for half e-tube series 2650 / KMA pivoting Part No. 26800 for full e-tube series 2680

2) KMA locking Part No. 26510 for half e-tube series 2650 / KMA locking Part No. 26810 for full e-tube series 2680

(KMA = polymer metal mounting bracket)



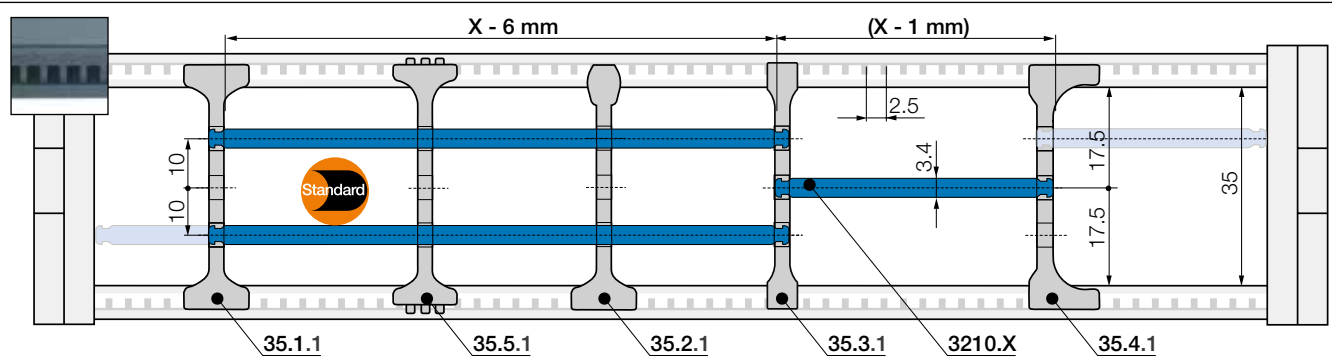
Option: steel mounting bracket, locking. For e-chains® and e-tubes. Part No. 260.12

● Locking 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 ordering options ► From page 1300

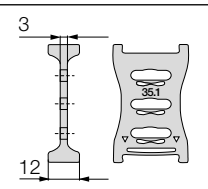
Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/2650 ► www.igus.eu/2680



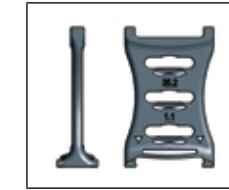
No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

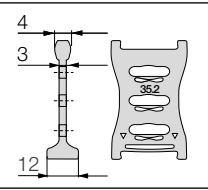




Standard separator, wide base
unassembled 35.1
assembled 35.1.1

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

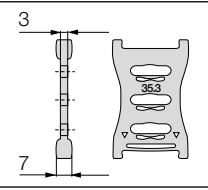




Separator, narrow top
unassembled 35.2
assembled 35.2.1

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

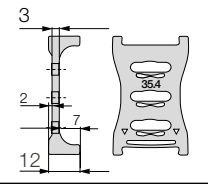




Separator, narrow
unassembled 35.3
assembled 35.3.1

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.

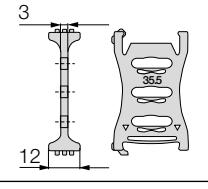




Separator, asymmetrical
unassembled 35.4
assembled 35.4.1

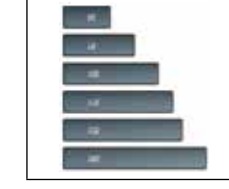
For side-mounted applications
Asymmetrical separator, for defined gap distance. No additional spacers required.

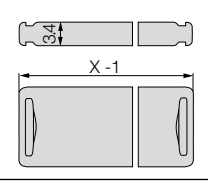




Notch separator for notched crossbar
unassembled 35.5
assembled 35.5.1

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





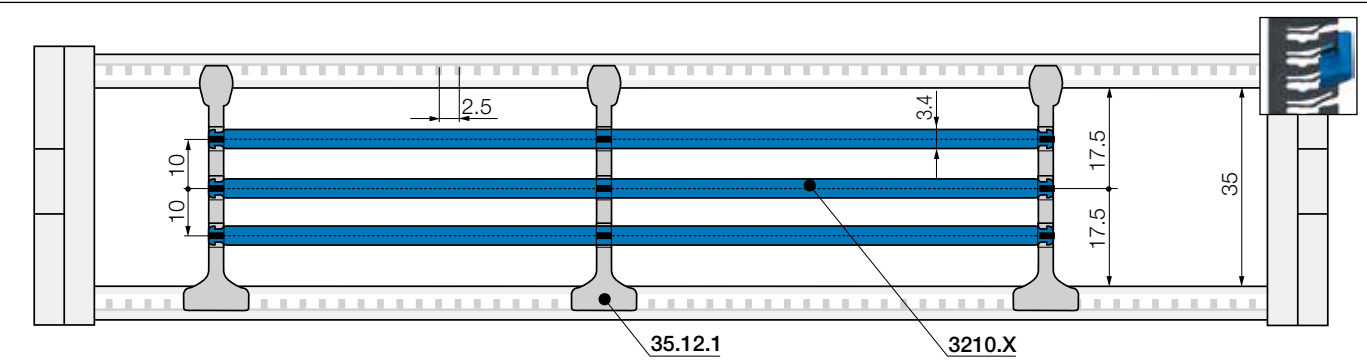
Shelf, lockable
unassembled 3200.X
assembled 3210.X

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.

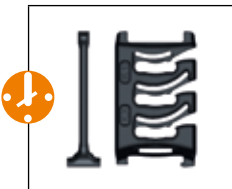
Shelves Width = X [mm]	X [mm]			X [mm]			X [mm]		
	unassembled	assembled		unassembled	assembled		unassembled	assembled	
	050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
	075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
	100	3200.100	3210.100	175	3200.175	3210.175			
	115	3200.115	3210.115	200	3200.200	3210.200			

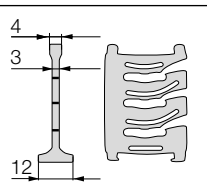


Interior separation | To allow faster filling **New**



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



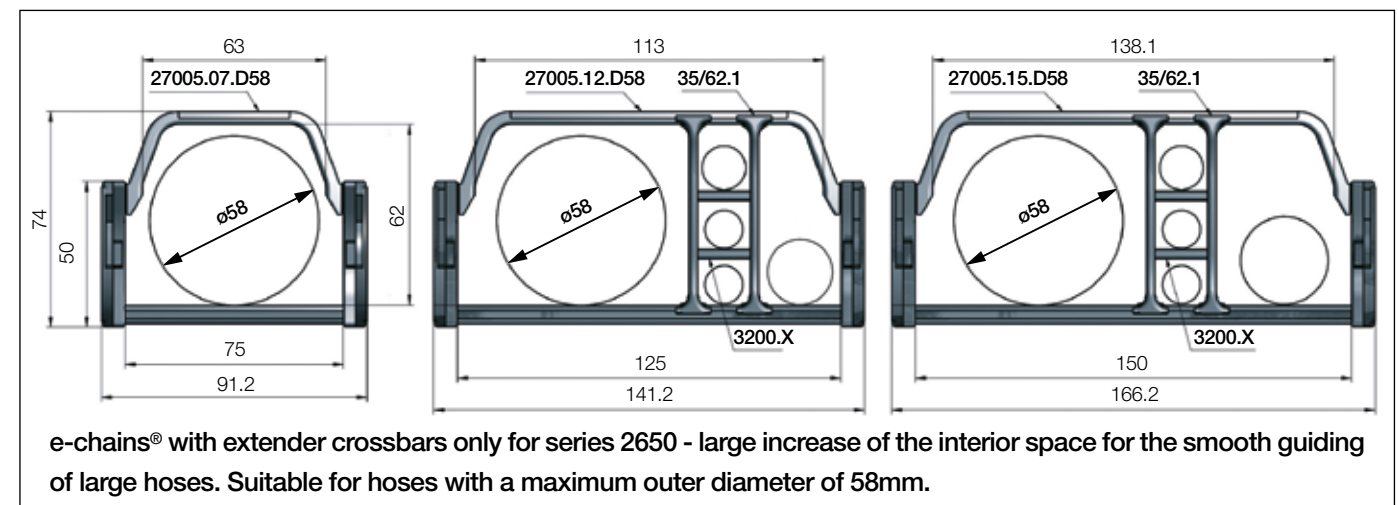


Lean separator
unassembled 35.12
assembled 35.12.1

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® readychain® factory)





e-chains® with extender crossbars only for series 2650 - large increase of the interior space for the smooth guiding of large hoses. Suitable for hoses with a maximum outer diameter of 58mm.

Part No. half e-tubes extender crossbars openable along the inner radius	Bi	Ba	R Available bend radii							
	[mm]	[mm]	[mm]							
2650.07D58 .R.0	75	91	100	125	150	175	200	250		
2650.12D58 .R.0	125	141	100	125	150	175	200	250		
2650.15D58 .R.0	150	166	100	125	150	175	200	250		

Complete Part No. with required radius (R). Example: 2650.15D58.100.0

Interior separation for e-chains® with extender crossbars

Separator e-chain® with extender crossbars	
unassembled	35/62.1
assembled	35/62.1.1

Shelf, lockable	
unassembled	3200.X
assembled	3210.X

Standard separator, wide base
Separator with a wide base for maximum holding force in the e-chain®. 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.

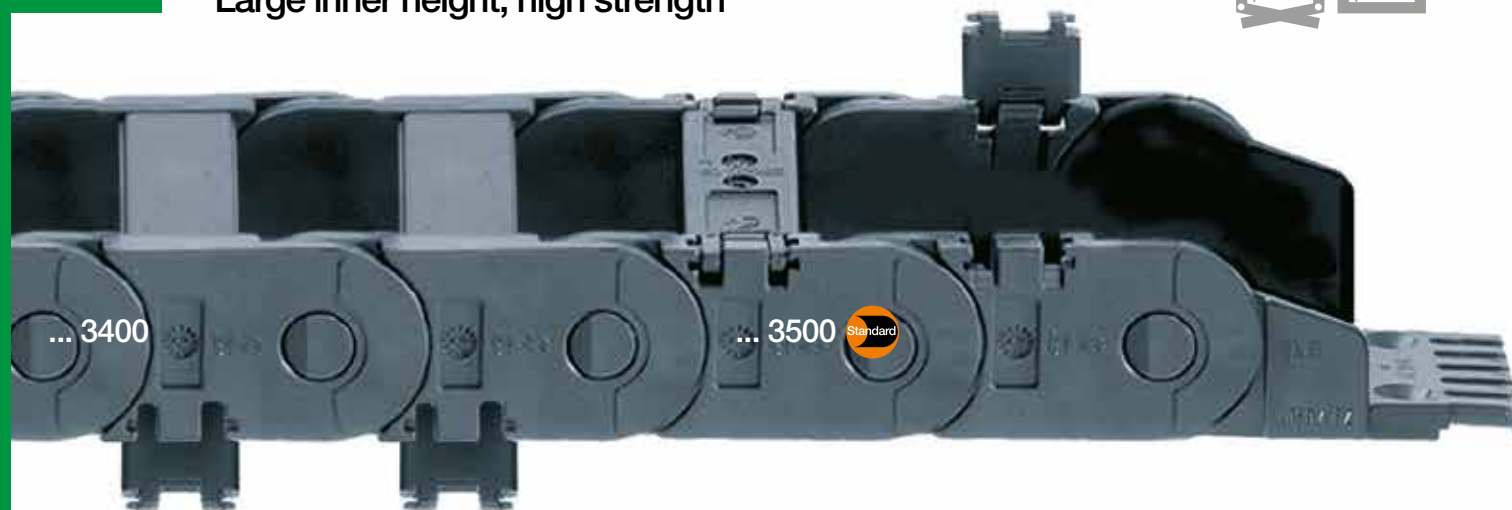
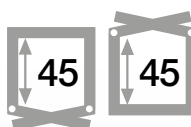
Aluminium support tray

- 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



Flat knitting machine - the igus® E2/000 system is reliable even at high accelerations and for millions of cycles



e-chains® Series 3400 Crossbars openable along the inner radius, from both sides
 e-chains® Series 3500 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]	3400 [kg/m]	3500 [kg/m]
3400.050 .R.0	3500.050 .R.0	50	70	075 100 125 150 200 250 300	≈ 1.60	≈ 1.60
3400.075 .R.0	3500.075 .R.0	75	95	075 100 125 150 200 250 300	≈ 1.78	≈ 1.78
3400.100 .R.0	3500.100 .R.0	100	120	075 100 125 150 200 250 300	≈ 1.93	≈ 1.93
3400.115 .R.0	3500.115 .R.0	115	135	075 100 125 150 200 250 300	≈ 1.99	≈ 1.99
3400.125 .R.0	3500.125 .R.0	125	145	075 100 125 150 200 250 300	≈ 2.03	≈ 2.03
3400.150 .R.0	3500.150 .R.0	150	170	075 100 125 150 200 250 300	≈ 2.17	≈ 2.17
3400.175 .R.0	3500.175 .R.0	175	195	075 100 125 150 200 250 300	≈ 2.28	≈ 2.28
3400.200 .R.0	3500.200 .R.0	200	220	075 100 125 150 200 250 300	≈ 2.45	≈ 2.45
3400.225 .R.0	3500.225 .R.0	225	245	075 100 125 150 200 250 300	≈ 2.59	≈ 2.59
3400.250 .R.0	3500.250 .R.0	250	270	075 100 125 150 200 250 300	≈ 2.73	≈ 2.73

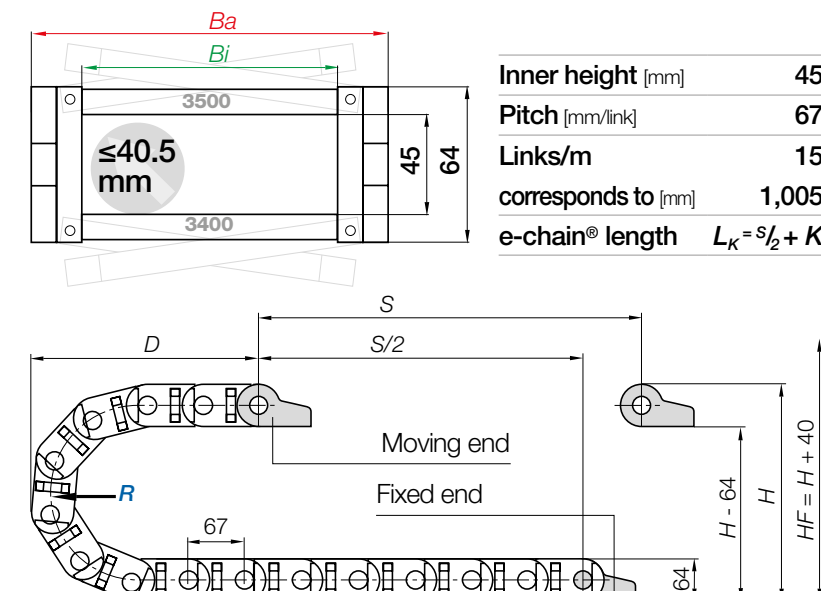
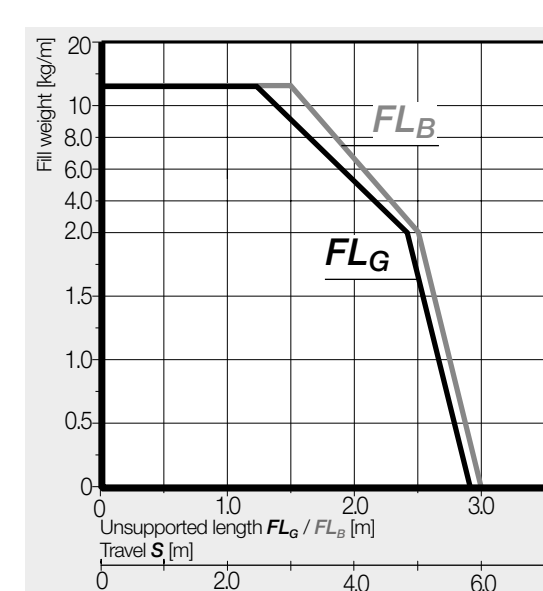
Half e-tubes, series 3450 and full e-tube series 3480 ► From page 416

Complete Part No. with required radius (R). Example: 3500.075.200.0



Reduce assembly time - E2/000 e-chain® opener

- Reduce opening times from 33 to 2 seconds
- Open a long e-chain® section in one go
- For widths Bi [mm]: 050, 075, 100, 115
- Part No. 908.254.3400 for series 3400/3500
- More information ► www.igus.eu/E2opener

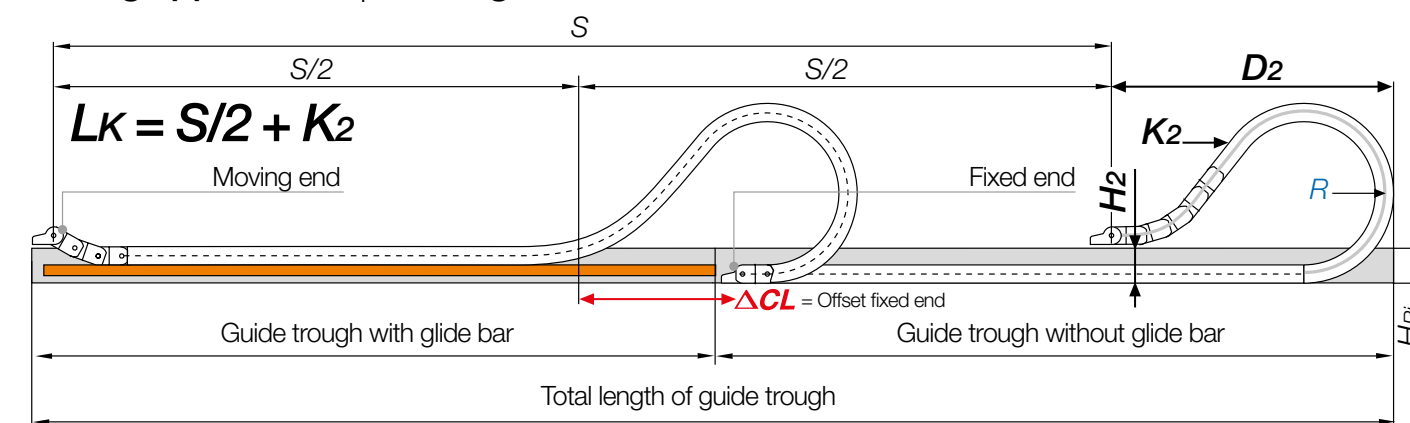


R	075	100	125	150	200	250	300
H	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1,080

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.5kg/m fill weight)

Before using series 3400 on long travels please consult igus®.

Gliding applications | For long travels from 10m to max. 150m



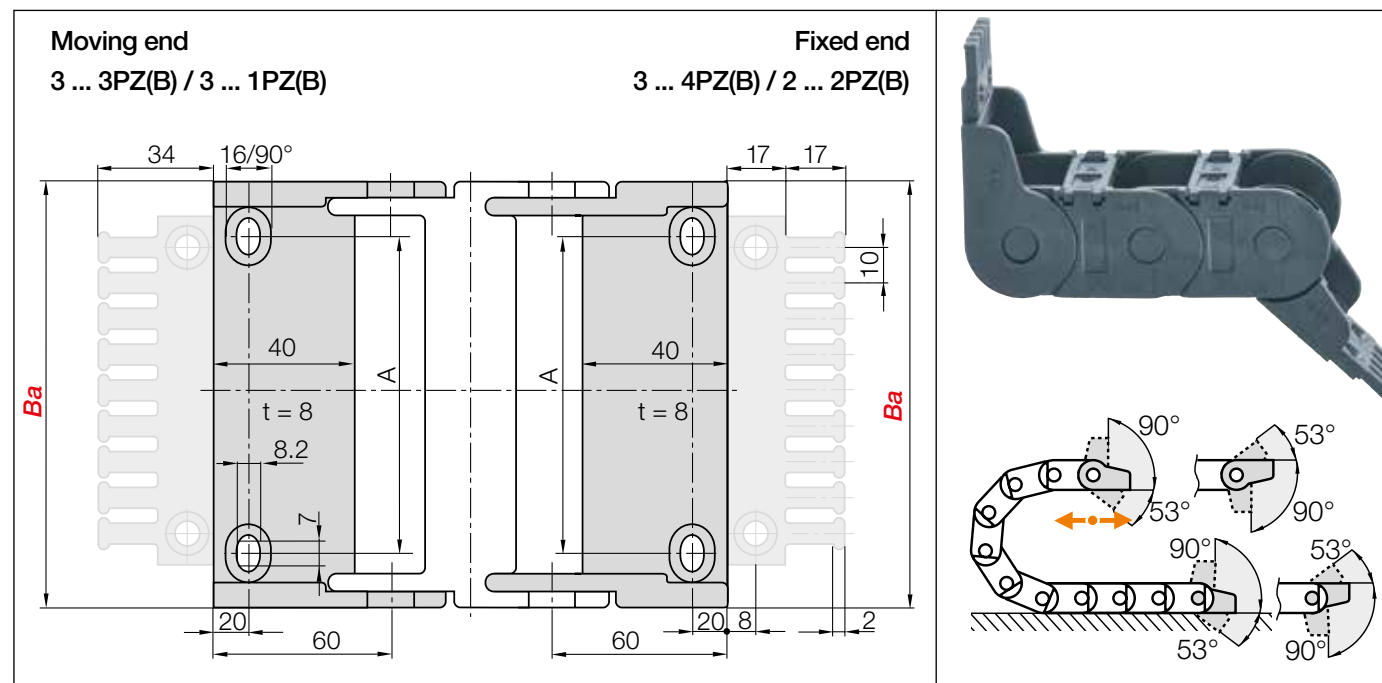
Note: before using series 3400/3450/3480 on long travels please consult igus®.

For long travels, igus® recommends series 3500 openable along the outer radius.

In case of travels between 6 and 10m we recommend an e-chain® with a longer unsupported length.

R	075	100	125	150	200	250	300
H ₂	150	200	186	186	186	186	186
D ₂ ⁺²⁵	208	233	475	570	780	1,010	1,150
K ₂	370	450	804	1,005	1,340	1,675	1,943
ΔCL	—	—	233	303	463	643	733

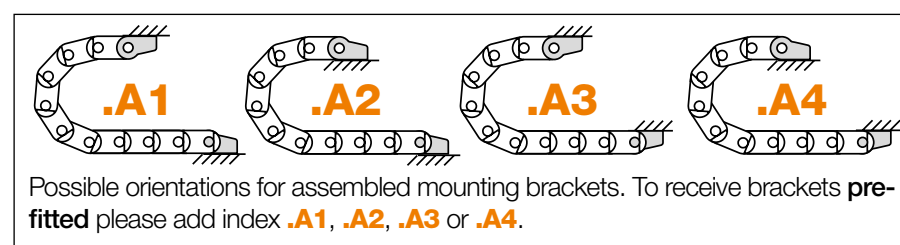
Before using series 3400 on long travels please consult igus®.



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 tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate		
050. ▶	3050.34PZB	3050.34PZ	3050.12PZB	3050.12PZ	28	5
075. ▶	3075.34PZB	3075.34PZ	3075.12PZB	3075.12PZ	53	7
100. ▶	3100.34PZB	3100.34PZ	3100.12PZB	3100.12PZ	78	10
115. ▶	3115.34PZB	3115.34PZ	3115.12PZB	3115.12PZ	93	11
125. ▶	3125.34PZB	3125.34PZ	3125.12PZB	3125.12PZ	103	12
150. ▶	3150.34PZB	3150.34PZ	3150.12PZB	3150.12PZ	128	15
175. ▶	3175.34PZB	3175.34PZ	3175.12PZB	3175.12PZ	153	17
200. ▶	3200.34PZB	3200.34PZ	3200.12PZB	3200.12PZ	178	20
225. ▶	3225.34PZB	3225.34PZ	3225.12PZB	3225.12PZ	203	22
250. ▶	3250.34PZB	3250.34PZ	3250.12PZB	3250.12PZ	228	25

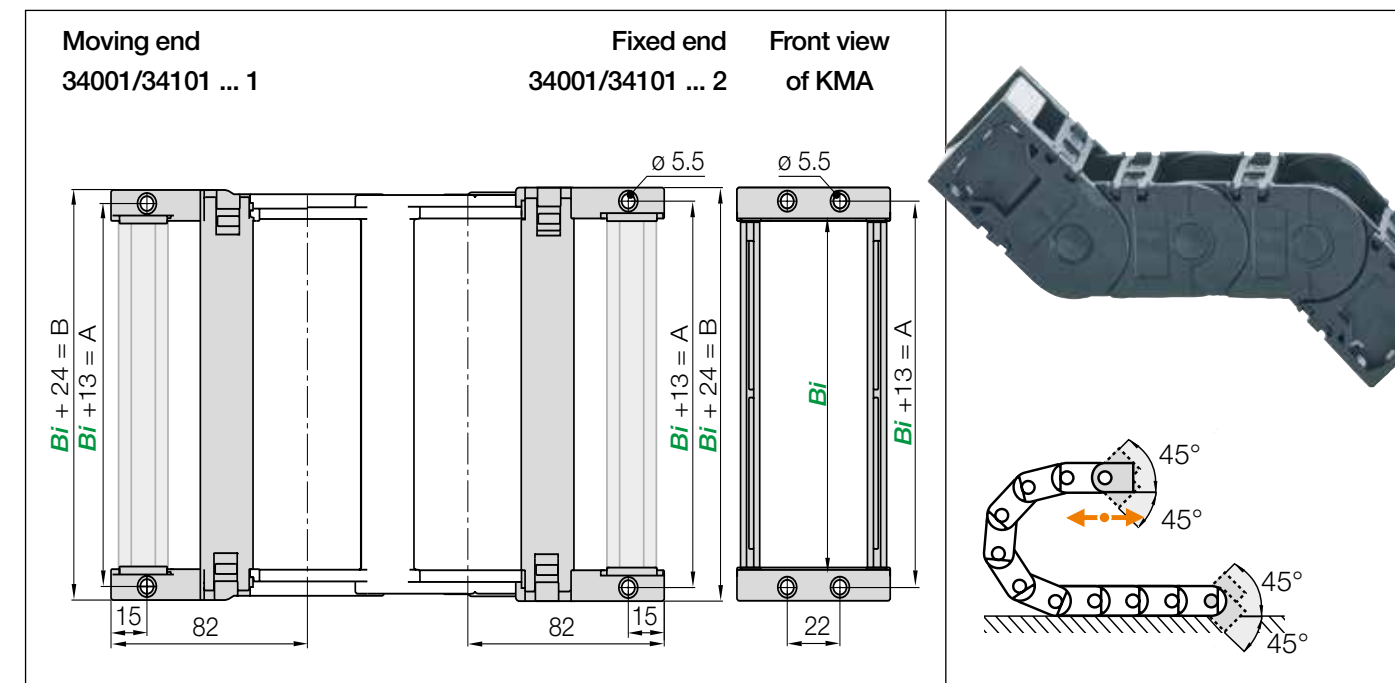
Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: 3250.34PZBK1



3075.34PZB.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

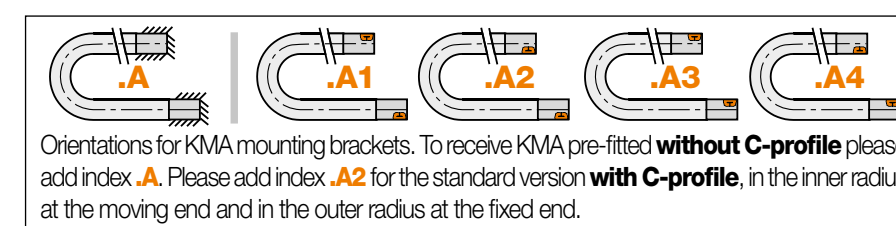


KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting		Part No. full set KMA locking		A [mm]	B [mm]
	with C-profile	without C-profile	with C-profile	without C-profile		
050. ▶	34001.050.12.C	34001.050.12	34101.050.12.C	34101.050.12	63	74
075. ▶	34001.075.12.C	34001.075.12	34101.075.12.C	34101.075.12	88	99
100. ▶	34001.100.12.C	34001.100.12	34101.100.12.C	34101.100.12	113	124
115. ▶	34001.115.12.C	34001.115.12	34101.115.12.C	34101.115.12	128	139
125. ▶	34001.125.12.C	34001.125.12	34101.125.12.C	34101.125.12	138	149
150. ▶	34001.150.12.C	34001.150.12	34101.150.12.C	34101.150.12	163	174
175. ▶	34001.175.12.C	34001.175.12	34101.175.12.C	34101.175.12	188	199
200. ▶	34001.200.12.C	34001.200.12	34101.200.12.C	34101.200.12	213	224
225. ▶	34001.225.12.C	34001.225.12	34101.225.12.C	34101.225.12	238	249
250. ▶	34001.250.12.C	34001.250.12	34101.250.12.C	34101.250.12	263	274

KMA pivoting to one end: moving end 34001...3 / fixed end 34001...4

(KMA = polymer metal mounting bracket)



34001.075.12.C.A2 Order example
 .A... to indicate option with brackets pre-fitted
 C-profile option
 Full set
 Width index
 Series



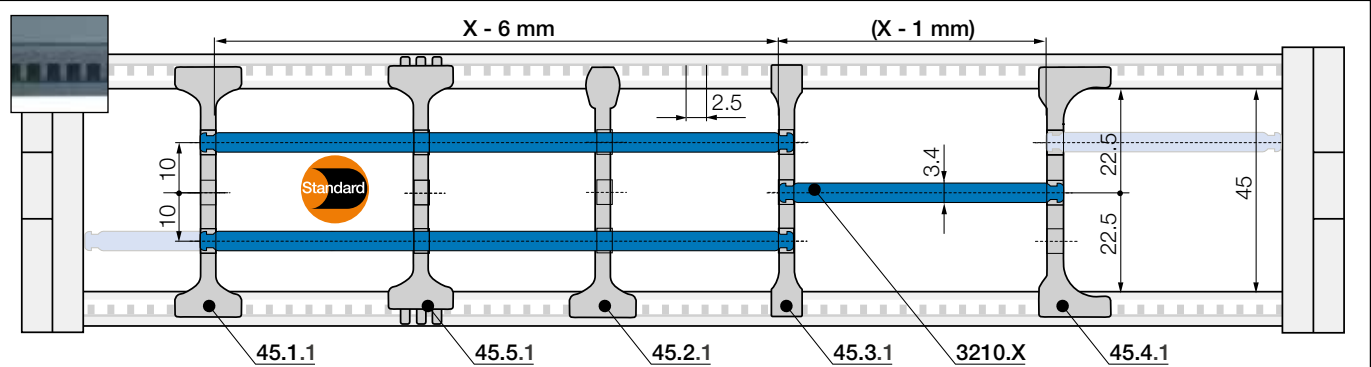
Option: steel mounting bracket, pivoting. For e-chains® and e-tubes, Part No. 3000.12
 ● Pivoting connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

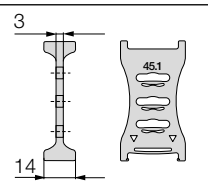
Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/3400 ► www.igus.eu/3500



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

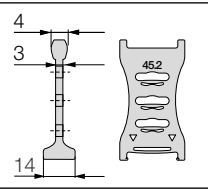




unassembled	45.1
assembled	45.1.1

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

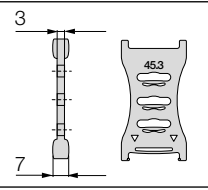




unassembled	45.2
assembled	45.2.1

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

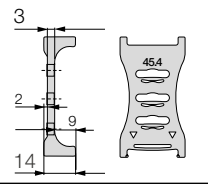




unassembled	45.3
assembled	45.3.1

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.

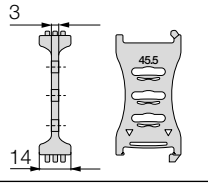




unassembled	45.4
assembled	45.4.1

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

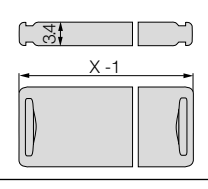




unassembled	45.5
assembled	45.5.1

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



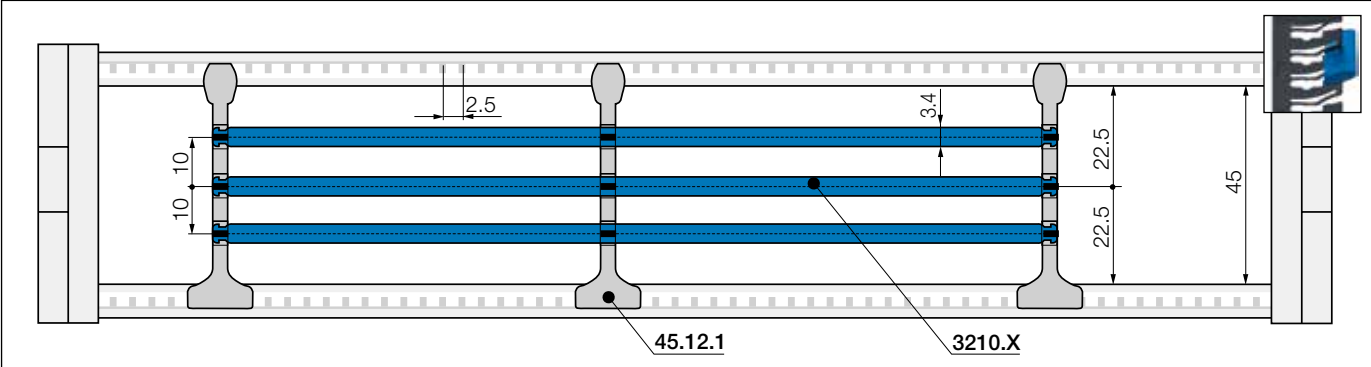


unassembled	3200.X
assembled	3210.X

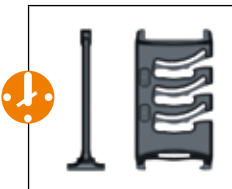
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

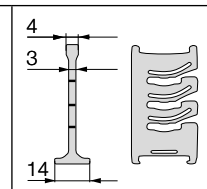
Shelves Width = X [mm]	X [mm]			X [mm]			X [mm]		
	unassembled	assembled		unassembled	assembled		unassembled	assembled	
	050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
	075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
	100	3200.100	3210.100	175	3200.175	3210.175			
	115	3200.115	3210.115	200	3200.200	3210.200			

Interior separation | To allow faster filling **New**



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



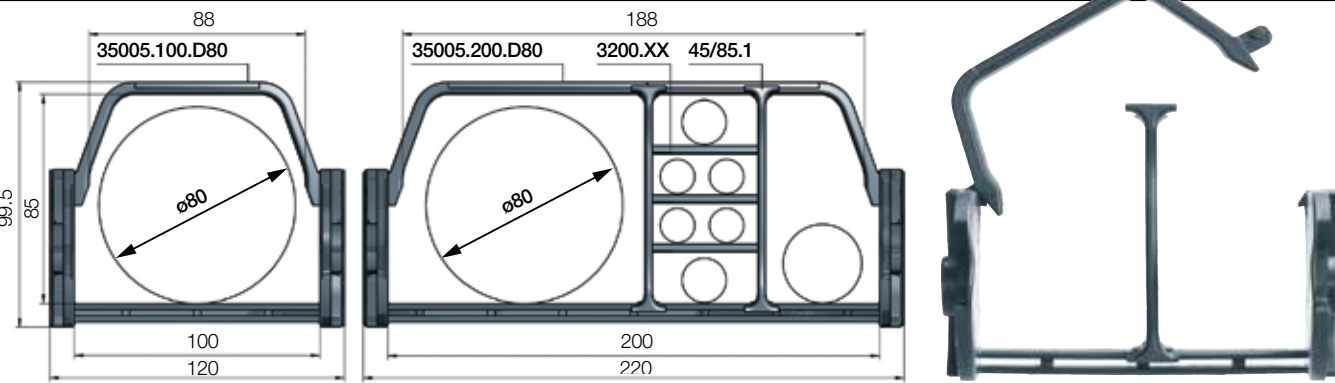


unassembled	45.12
assembled	45.12.1

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® readychain® factory)



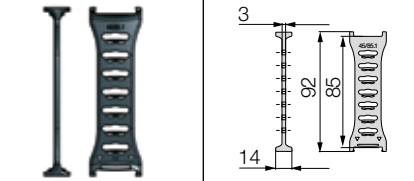


e-chains® with extender crossbars - large increase of the interior space for the smooth guiding of large hoses.
Suitable for hoses with a maximum outer diameter of 80mm.

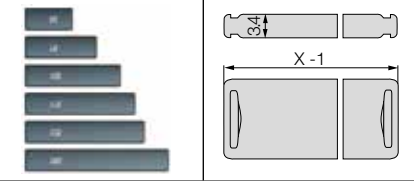
Part No. e-chains® extender crossbars openable along inner radius	Part No. e-chains® extender crossbars openable along outer radius	Bi [mm]	Ba [mm]	R Available bend radii [mm]
3400.100D80.R.0	3500.100D80.R.0	100	120	075* 100* 125 150 200 250 300
3400.200D80.R.0	3500.200D80.R.0	200	220	075* 100* 125 150 200 250 300

*Radius 075 and 100 only possible with e-chains® series 3500, openable along outer radius!
Complete Part No. with required radius (R). Example: 3500.100D80.200.0

Interior separation for e-chains® with extender crossbars



Separator e-chain® with extender crossbars
unassembled 45/85.1
assembled 45/85.1.1



Shelf, lockable
unassembled 3200.X
assembled 3210.X

Standard separator, wide base
Separator with a wide base for maximum holding force in the e-chain®. 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 in the e-chain®
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

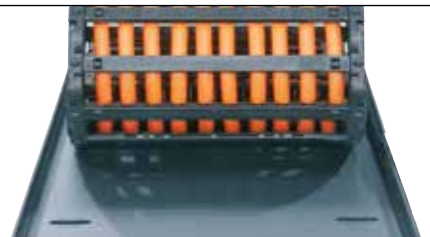
Part No. 301.Z. More information ► From page 1326

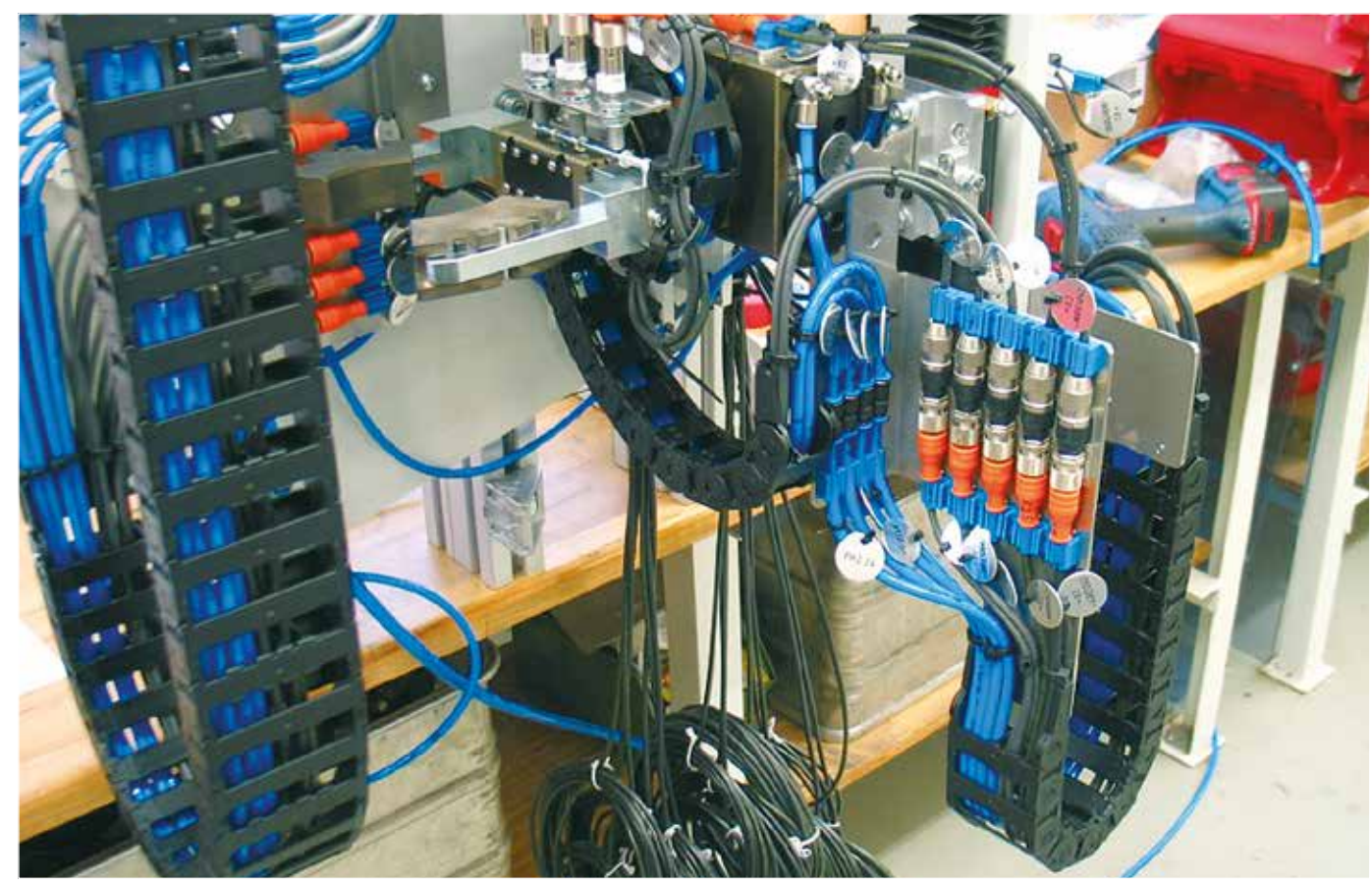


Steel support tray for support of the lower run

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

More information ► From page 1264





Strong and space-saving E2/000 e-chain® for different axes of a machine



Half e-tubes | Series 3450 | Crossbars openable along inner radius from both sides, closed along outer radius
Full e-tubes | Series 3480 | Lids openable along inner radius from both sides, fully enclosed

Part No. half e-tubes openable along the inner radius	Part No. full e-tubes openable along the inner radius	Bi	Ba	R Available bend radii	3450	3480
		[mm]	[mm]	[mm]	[kg/m]	[kg/m]
3450.050 .R.0	3480.050 .R.0	50	70	075* 100* 125 150 200 250 300	≈ 1.77	≈ 1.96
3450.075 .R.0	3480.075 .R.0	75	95	075* 100* 125 150 200 250 300	≈ 1.95	≈ 2.07
3450.100 .R.0	3480.100 .R.0	100	120	075* 100* 125 150 200 250 300	≈ 2.15	≈ 2.30
3450.115 .R.0	3480.115 .R.0	115	135	075* 100* 125 150 200 250 300	≈ 2.30	≈ 2.46
3450.125 .R.0	3480.125 .R.0	125	145	075* 100* 125 150 200 250 300	≈ 2.42	≈ 2.49
3450.150 .R.0	3480.150 .R.0	150	170	075* 100* 125 150 200 250 300	≈ 2.60	≈ 2.62
3450.175 .R.0	3480.175 .R.0	175	195	075* 100* 125 150 200 250 300	≈ 2.75	≈ 2.80
3450.200 .R.0	3480.200 .R.0	200	220	075* 100* 125 150 200 250 300	≈ 2.90	≈ 2.94
3450.225 .R.0	3480.225 .R.0	225	245	075* 100* 125 150 200 250 300	≈ 3.12	≈ 3.15
3450.250 .R.0	3480.250 .R.0	250	270	075* 100* 125 150 200 250 300	≈ 3.30	≈ 3.28

*Radius available upon request. Please consult igus® for price and delivery time.

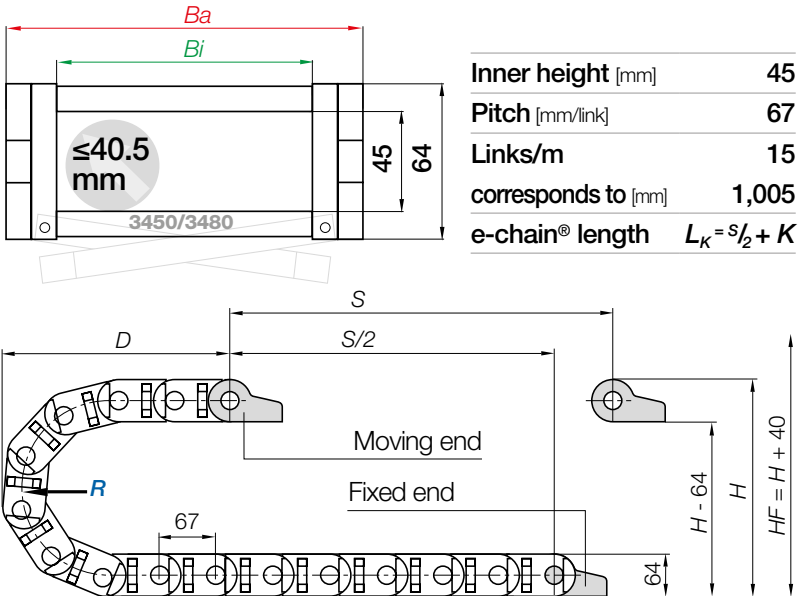
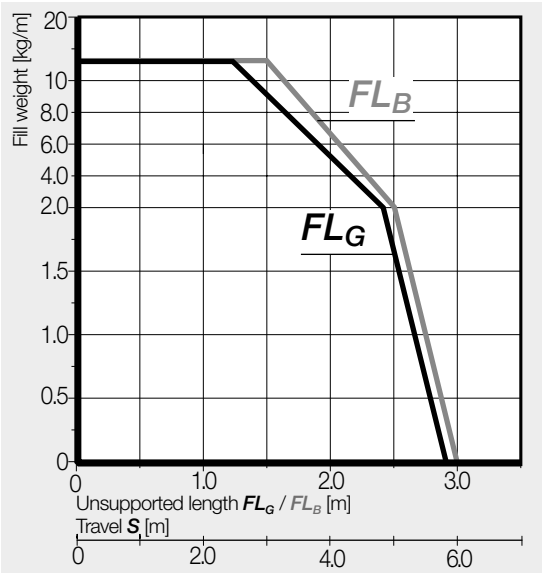
Radii 075, 100: the e-tube is not completely enclosed. Please consult igus®.

Complete Part No. with required radius (R). Example: 3450.075.200.0



Reduce assembly time - E2/000 e-chain® opener

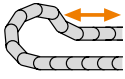
- Reduce opening times from 33 to 2 seconds
 - Open a long e-chain® section in one go
 - For widths Bi [mm]: 050, 075, 100, 115
 - Part No. 908.254.3400 for series 3450
- More information ► www.igus.eu/E2opener

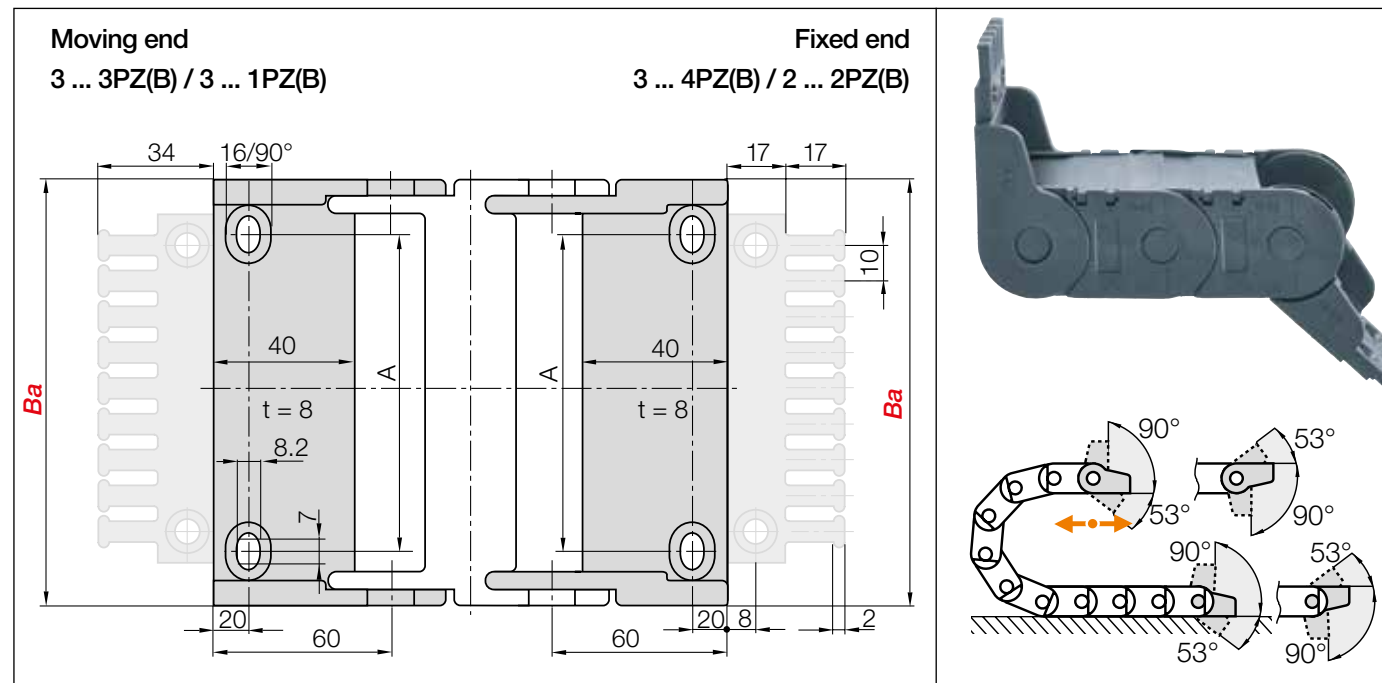


R	075*	100*	125	150	200	250	300
H	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1,080

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.5kg/m fill weight)

*Radius available upon request. Please consult igus® for delivery time. Before using series 3450/3480 on long travels please consult igus®.

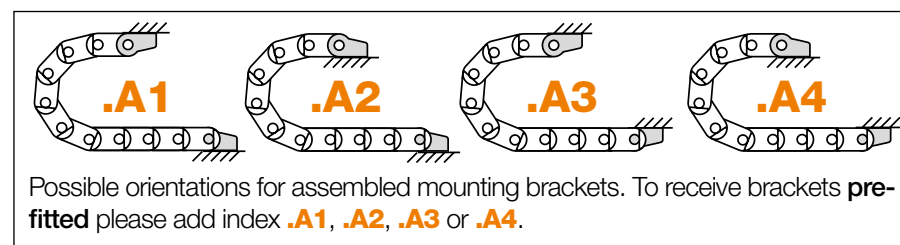
 **i** If a gliding application is required for a long travel, please consult igus®.



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

Width index	Part No. full set pivoting		Part No. full set locking		A	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate	[mm]	
050. ▶	3050.34PZB	3050.34PZ	3050.12PZB	3050.12PZ	28	5
075. ▶	3075.34PZB	3075.34PZ	3075.12PZB	3075.12PZ	53	7
100. ▶	3100.34PZB	3100.34PZ	3100.12PZB	3100.12PZ	78	10
115. ▶	3115.34PZB	3115.34PZ	3115.12PZB	3115.12PZ	93	11
125. ▶	3125.34PZB	3125.34PZ	3125.12PZB	3125.12PZ	103	12
150. ▶	3150.34PZB	3150.34PZ	3150.12PZB	3150.12PZ	128	15
175. ▶	3175.34PZB	3175.34PZ	3175.12PZB	3175.12PZ	153	17
200. ▶	3200.34PZB	3200.34PZ	3200.12PZB	3200.12PZ	178	20
225. ▶	3225.34PZB	3225.34PZ	3225.12PZB	3225.12PZ	203	22
250. ▶	3250.34PZB	3250.34PZ	3250.12PZB	3250.12PZ	228	25

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: **3250.34PZBK1**



3075.34PZB.A1

Order example

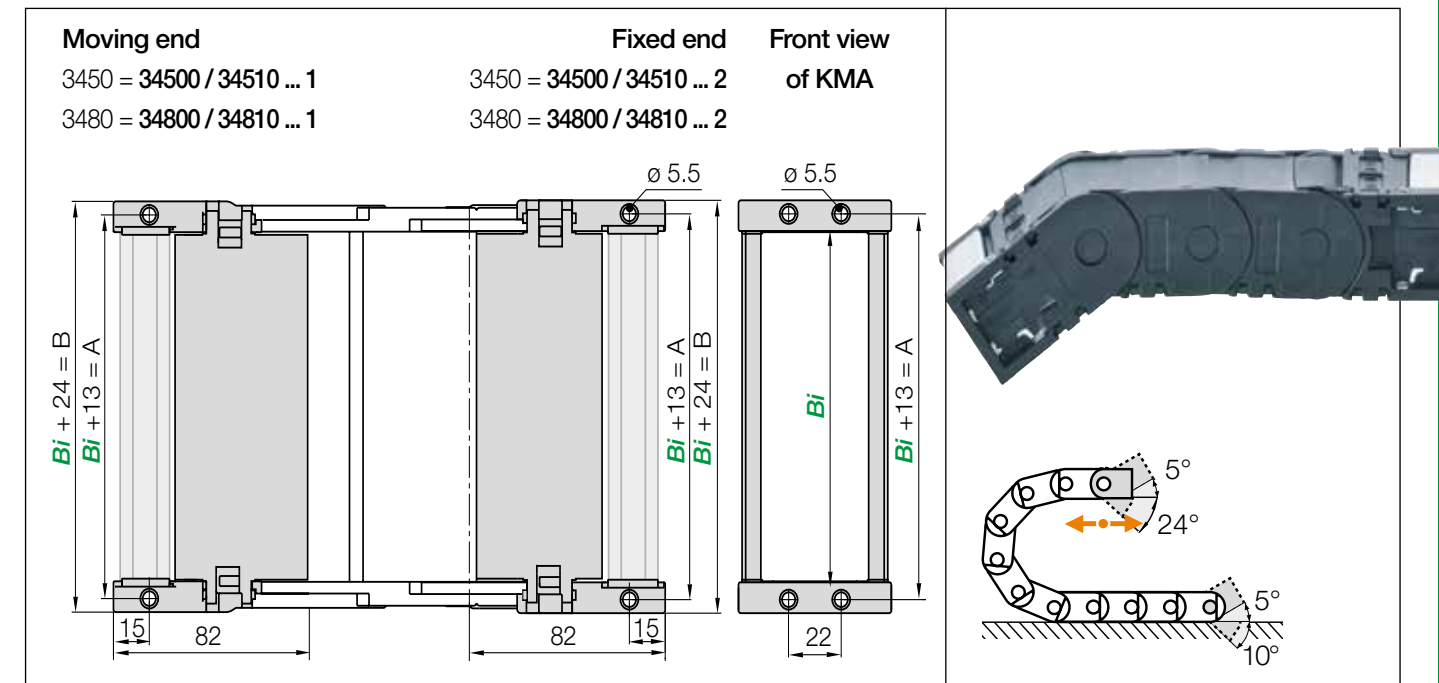
.A... to indicate option with brackets pre-filled

With integrated strain relief tie-wrap plates

Full set

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



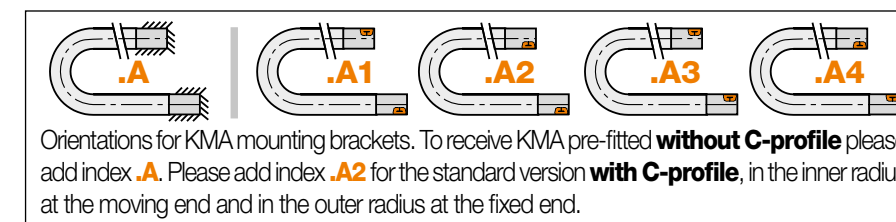
KMA pivoting	Recommended for unsupported applications
KMA locking	Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting ¹⁾				Part No. full set KMA locking ²⁾				A	B
	with C-profile		without C-profile		with C-profile		without C-profile		[mm]	[mm]
050. ▶	34500	34800.050.12.C	34500	34800.050.12	34510	34810.050.12.C	34510	34810.050.12	63	74
075. ▶	34500	34800.075.12.C	34500	34800.075.12	34510	34810.075.12.C	34510	34810.075.12	88	99
100. ▶	34500	34800.100.12.C	34500	34800.100.12	34510	34810.100.12.C	34510	34810.100.12	113	124
115. ▶	34500	34800.115.12.C	34500	34800.115.12	34510	34810.115.12.C	34510	34810.115.12	128	139
125. ▶	34500	34800.125.12.C	34500	34800.125.12	34510	34810.125.12.C	34510	34810.125.12	138	149
150. ▶	34500	34800.150.12.C	34500	34800.150.12	34510	34810.150.12.C	34510	34810.150.12	163	174
175. ▶	34500	34800.175.12.C	34500	34800.175.12	34510	34810.175.12.C	34510	34810.175.12	188	199
200. ▶	34500	34800.200.12.C	34500	34800.200.12	34510	34810.200.12.C	34510	34810.200.12	213	224
225. ▶	34500	34800.225.12.C	34500	34800.225.12	34510	34810.225.12.C	34510	34810.225.12	238	249
250. ▶	34500	34800.250.12.C	34500	34800.250.12	34510	34810.250.12.C	34510	34810.250.12	263	274

1) KMA pivoting Part No. 34500 for half e-tube series 3450 / KMA pivoting Part No. 34800 for full e-tube series 3480

2) KMA locking Part No. 34510 for half e-tube series 3450 / KMA locking Part No. 34810 for full e-tube series 3480

(KMA = polymer metal mounting bracket)



34500.075.12.C.A2 Order example



Diagram illustrating the components of the order number 34500.075.12.C.A2:

- Series
- Width index
- Full set
- C-profile option
- A2 ... to indicate option with brackets pre-fitted



Option: steel mounting bracket, pivoting. For e-chains® and e-tubes, Part No. 3000.12

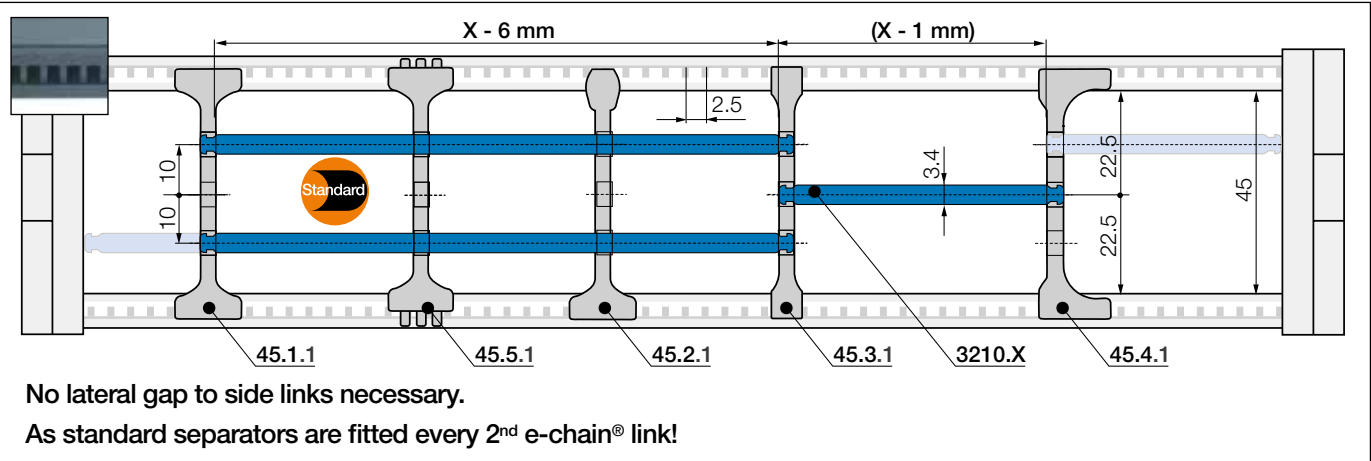
- Pivoting connections ● One part (2-piece) for all e-chain® widths ● Electrically conductive



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/3450 ► www.igus.eu/3480





Standard separator, wide base

unassembled	45.1
assembled	45.1.1

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.



Separator, narrow top

unassembled	45.2
assembled	45.2.1

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



Separator, narrow

unassembled	45.3
assembled	45.3.1

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®.



Separator, asymmetrical

unassembled	45.4
assembled	45.4.1

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



Notch separator for notched crossbar

unassembled	45.5
assembled	45.5.1

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



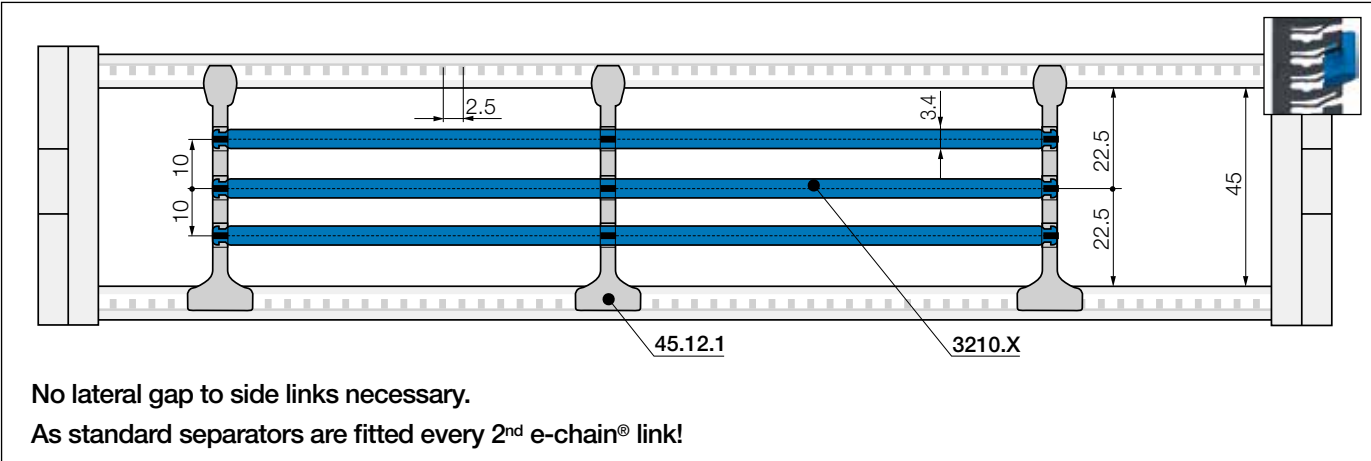
Shelf, lockable

unassembled	3200.X
assembled	3210.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	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
	075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
	100	3200.100	3210.100	175	3200.175	3210.175			
	115	3200.115	3210.115	200	3200.200	3210.200			

Interior separation | To allow faster filling **New**





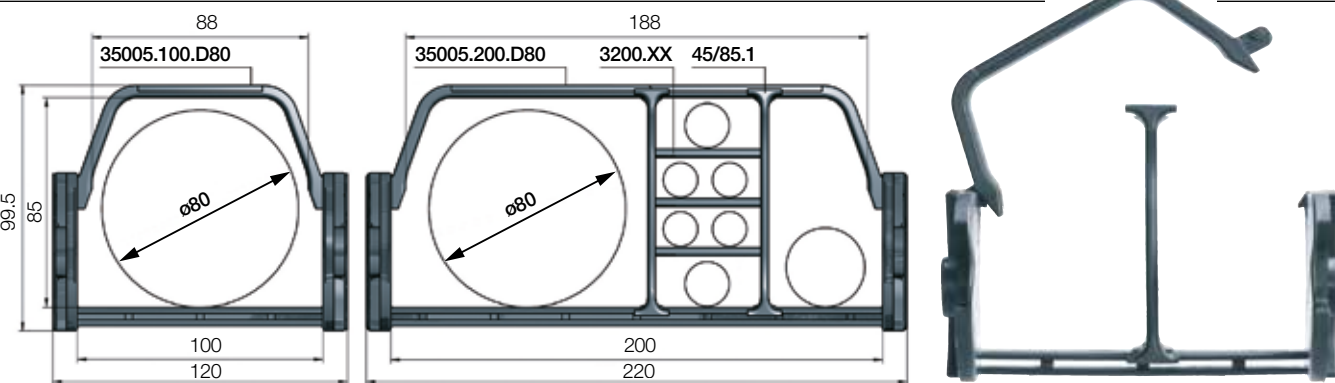
Lean separator

unassembled	45.12
assembled	45.12.1

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® readychain® factory)



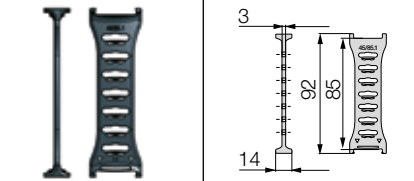


e-chains® with extender crossbars only for series 3450 - large increase of the interior space for the smooth guiding of large hoses. Suitable for hoses with a maximum outer diameter of 80mm.

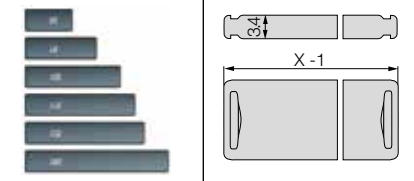
Part No. half e-tubes extender crossbars openable along the inner radius	Bi	Ba	R Available bend radii					
	[mm]	[mm]	[mm]					
3450.100D80.R.0	100	120	125	150	200	250	300	
3450.200D80.R.0	200	220	125	150	200	250	300	

Complete Part No. with required radius (R). Example: 3450.100D80.200.0

Interior separation for e-chains® with extender crossbars



Separator e-chain® with extender crossbars
unassembled 45/85.1
assembled 45/85.1.1



Shelf, lockable
unassembled 3200.X
assembled 3210.X

Standard separator, wide base
Separator with a wide base for maximum holding force in the e-chain®. 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 in the e-chain®
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

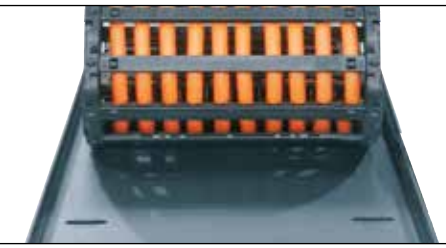
Part No. 34501.Z. More information ► From page 1326



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 1264



E2/000 - robust energy supply even with constant air draught and the resulting pendulum movements in this 160m lift for the Post Tower, Bonn



e-chains® | Series 255 | Crossbars openable along the outer radius, from one side

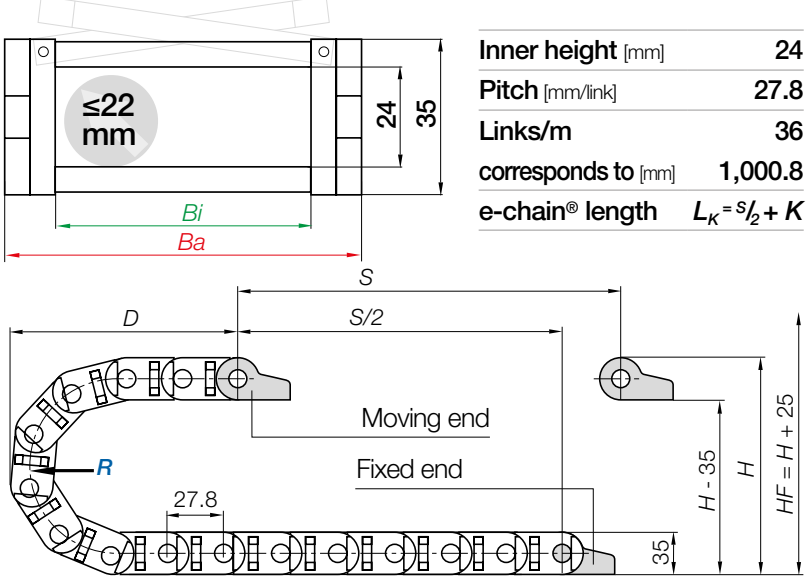
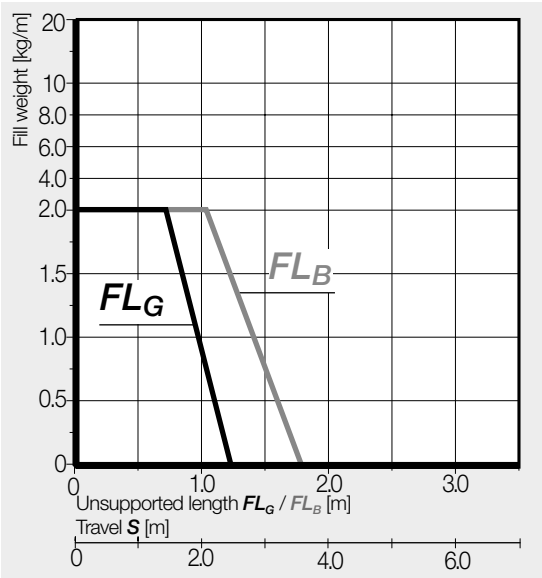
Part No. e-chains®	Bi [mm]	Ba [mm]	R Available bend radii [mm]	255 [kg/m]
255. 03 .R.0	38	54	055 075 100 125 150 175 200 225 250	≈ 0.81
255. 05 .R.0	57	73	055 075 100 125 150 175 200 225 250	≈ 0.90
255. 07 .R.0	77	93	055 075 100 125 150 175 200 225 250	≈ 1.01
255. 10 .R.0	103	119	055 075 100 125 150 175 200 225 250	≈ 1.15

Complete Part No. with required radius (R). Example: 255.10.200.0

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

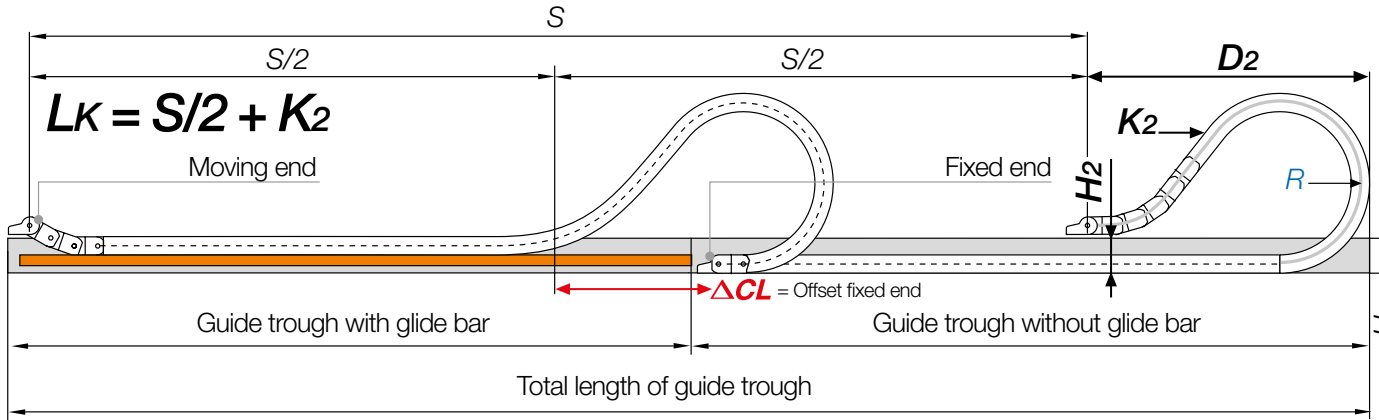
More information ► From page 1270



R	055	075	100	125	150	175	200	225	250
H ₀ ⁺	145	185	235	285	335	385	435	485	535
D	114	134	159	184	209	234	259	284	309
K	230	295	370	450	530	610	685	765	845

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

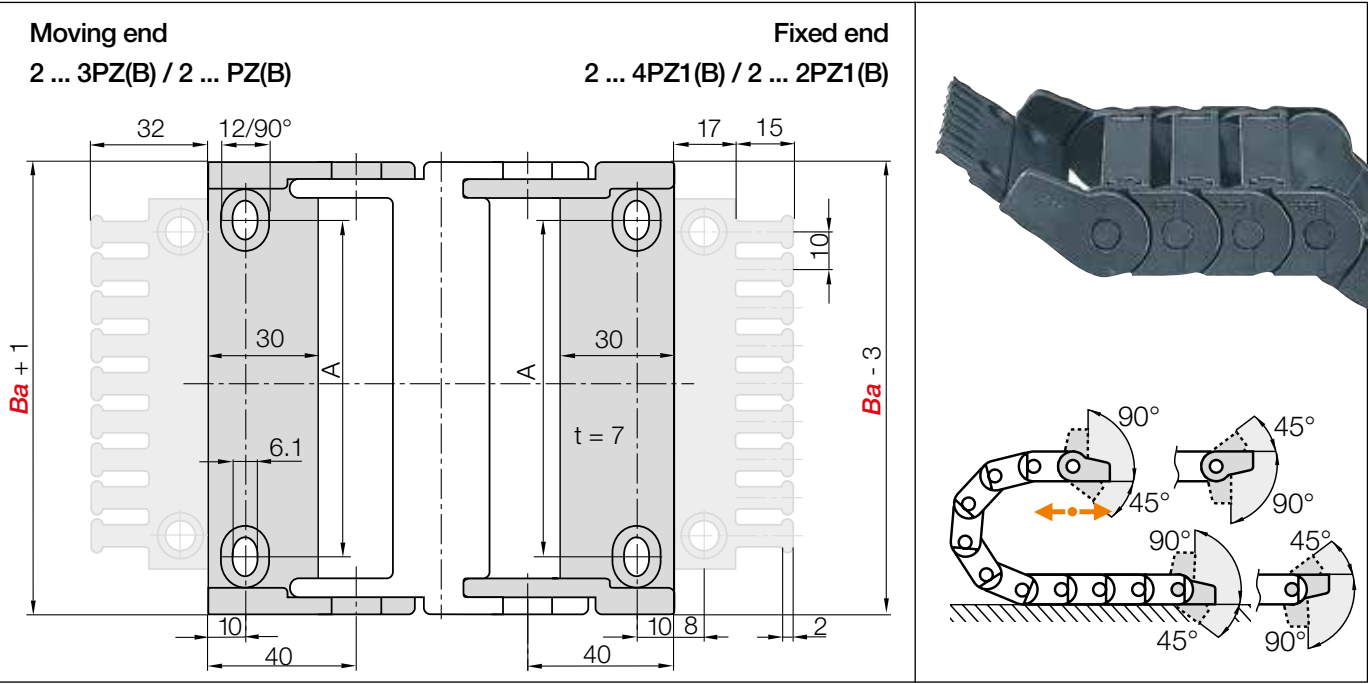
Gliding applications | For long travels from 10m to max. 100m



Note: We recommend the project planning of such a system to be carried out by igus®.
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	114	134	380	495	570	665	740	1,040	1,130
K ₂	230	295	612	806	945	1,112	1,223	1,610	1,779
ΔCL	—	—	222	322	372	437	497	*	822

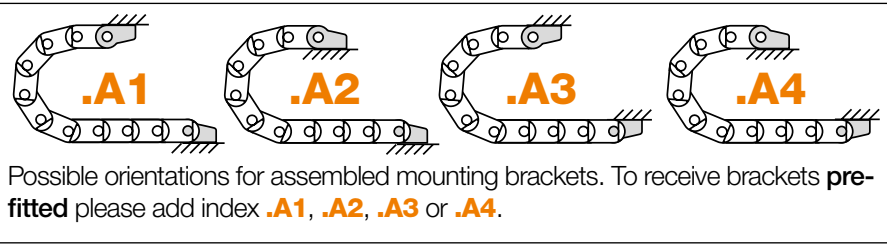
*Upon request



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

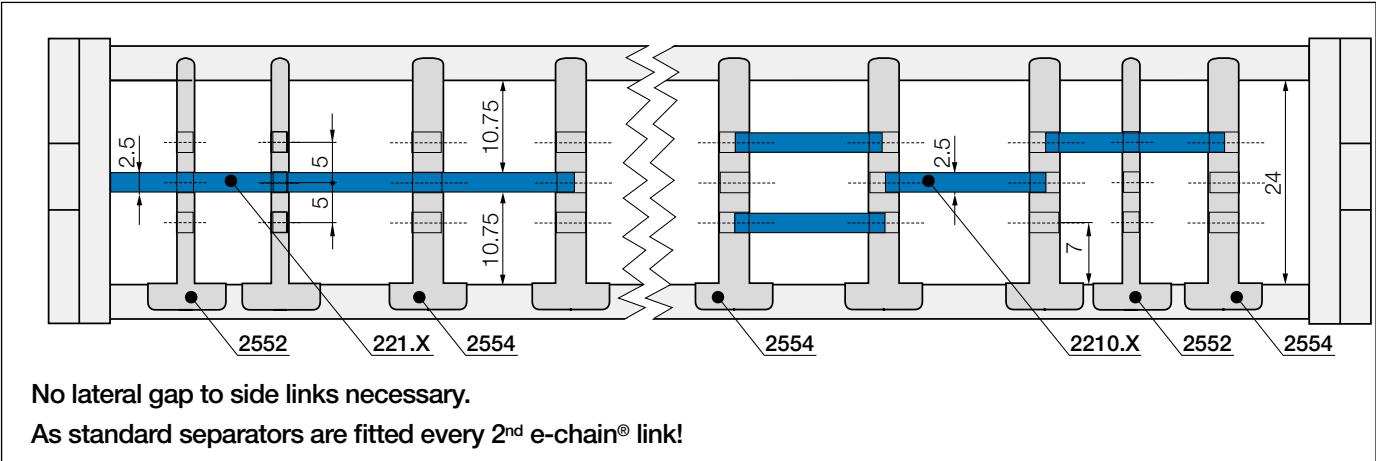
Width index	Part No. full set pivoting		Part No. full set locking		A [mm]	Number of teeth
	with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate		
03. ▶	2030.34PZ1B	2030.34PZ1	2030.12PZ1B	2030.12PZ1	25	4
05. ▶	2050.34PZ1B	2050.34PZ1	2050.12PZ1B	2050.12PZ1	44	6
07. ▶	2070.34PZ1B	2070.34PZ1	2070.12PZ1B	2070.12PZ1	64	8
10. ▶	2100.34PZ1B	2100.34PZ1	2100.12PZ1B	2100.12PZ1	90	10

Full set with tiewrap plate + 10 cable tiewraps, please add index **K1**. Example: 2030.34PZ1BK1



2100.34PZB.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300



		Slotted separator	
		unassembled	2551
		Full-width shelf for e-chains®	
		unassembled	220.X
		assembled	221.X

Option 1 | Full-width shelves
Slotted separator for full-width shelves
Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

Full-width shelf
This option is for applications with many small cables with similar diameters. For full width separation.

Full-width shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
	038	220.38	221.38	077	220.77	221.77
	057	220.57	221.57	103	220.103	221.103

		Slotted separator	
		unassembled	2553
		Shelf for e-chains®	
		unassembled	2200.X
		assembled	2210.X

Option 2 | Partial shelves
Slotted separator for partial shelves
Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

Shelf
For applications involving many cables with different diameters, shelves can be fitted at different heights.

Shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
	018	2200.18	2210.18	038	2200.38	2210.38	068	2200.68	2210.68
	023	2200.23	2210.23	043	2200.43	2210.43	073	2200.73	2210.73
	028	2200.28	2210.28	048	2200.48	2210.48	088	2200.88	2210.88
	033	2200.33	2210.33	058	2200.58	2210.58	099	2200.99	2210.99