



Allrounder - e-chains[®] and
e-tubes, medium sizes

E2/000



E2/000 - with 2-piece link-design for a wide range of applications

E2/000 - the standard

The E2/000 Series is igus® fourth generation in this popular size range. All past experiences went into this Millennium Series: easy and versatile assembly combined with ruggedness - high stability paired with quieter motion - long cable life and many fixation options. The design is consistent within all E2/000 variations. It is the standard product for machine builders around the world.

Typical industries and applications

- Material handling
- Construction machinery
- Woodworking machines
- Glass machines
- Plastic machines
- Long travel applications in many industries
- Semicon
- Theatre, entertainment and amusement parks
- Vehicles
- General machinery



IPA Qualification Certificate Cleanroom ISO Class 3 (DIN 14644-1), at $v = 2 \text{ m/s}$, with standard material igumid G - Series 2500.05.055.0



Electrically conductive ESD/ATEX version with PTB-certification upon request



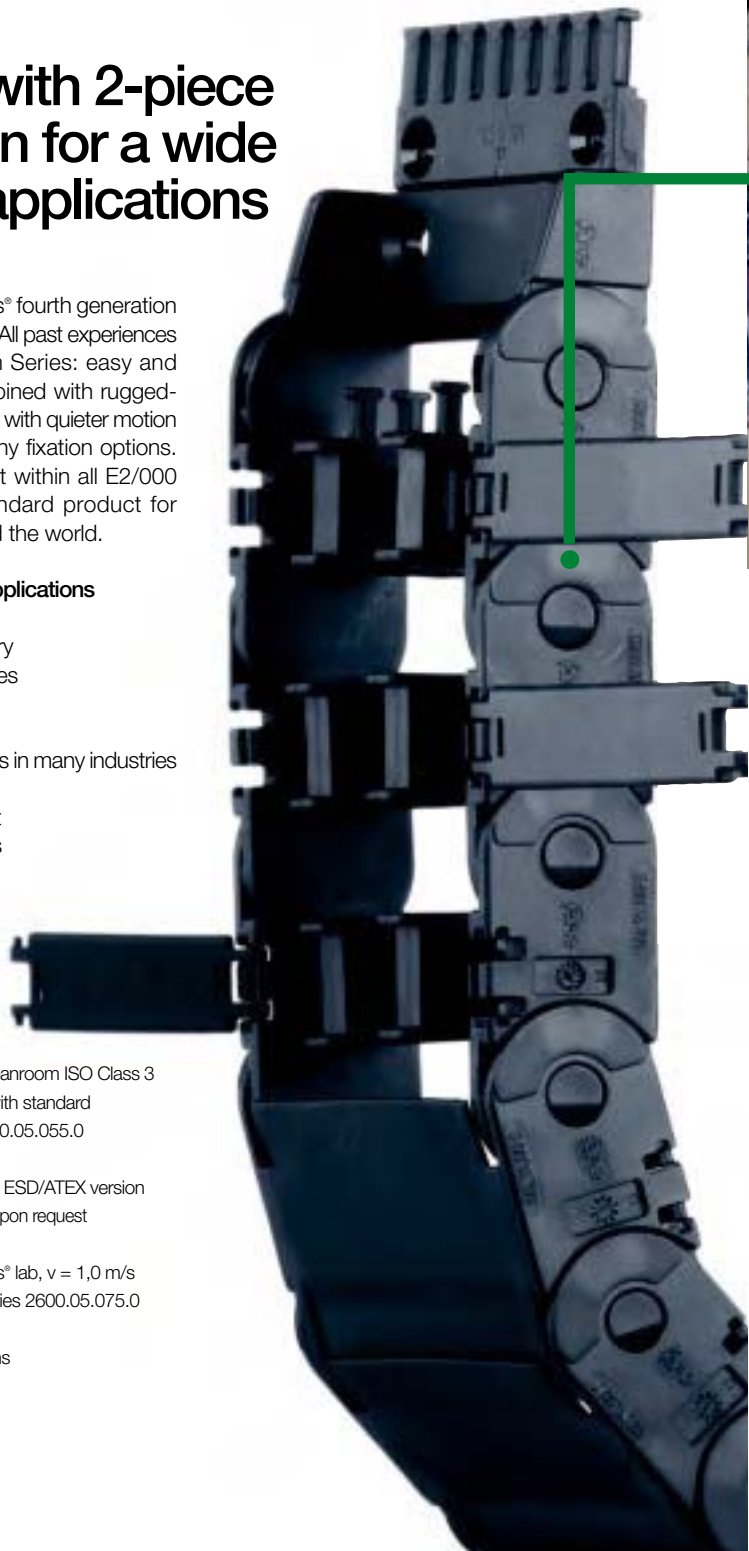
46 dB(A) tested in igus® lab, $v = 1,0 \text{ m/s}$ unsupported, e.g. Series 2600.05.075.0



UL94-V2 classifications upon request



System E2/000 - 2-piece link-design



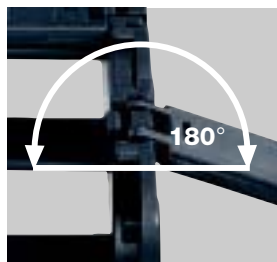


Harnessed E2/000 e-chain® - turnkey solution delivered with cables and sheet metal parts directly to the machine

E2/000 features



New snap-open mechanism,
choice of snap-open on left or right



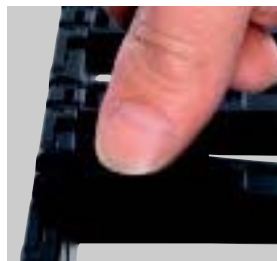
Hinged crossbar can be swiveled
by more than 180° on both sides



Secure fit of separators and interior
separation even when e-chain® is open



Half e-tube - Fully enclosed in outer
radius. Choice of swiveling interior radius
to the left or right



Lightning-fast closing by the touch of
a thumb - secure fit without additional
locking devices



Opening mechanism accessible from
above - rapid opening with a screw-
driver or the e-chain® opener

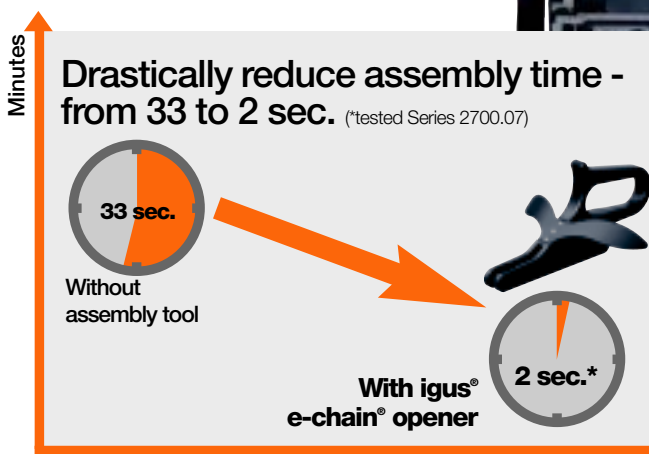
e-chain® opener | Drastically reduce assembly time

NEW in this catalog

Open E2/000 e-chains® in a flash with the new **e-chain® opener**

The opening of the e-chain® links of E2/000 e-chains® at extremely high speed saves significant installation time. Open a long piece of e-chain® in one go. It's the ideal tool when doing your own mounting or assembly lines in order to minimize the processing time significantly.

- Reduce installation time to open the e-chain® from 33 sec to 2 sec (tested 1 m, Series 2700.07)
- Opening of long e-chain® units in one go
- iF-design award 2011



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods





Opening of long e-chain® units in one go



Compatible mounting tools for each e-chain® size. The ideal tool for your own mounting or assembly lines to minimize the processing time significantly.

Product Range **NEW** in this catalog

For Series	For widths Bi [mm]	Part No.
1400/1500/1450	20, 50, 68, 80, 100	908.254.1400
2400/2500/2450	05, 07, 09	908.254.2400
2600/2700/2650	06, 07, 09, 10	908.254.2600
3400/3500/3450	50, 75, 100, 115	908.254.3400



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]	Bending radius <i>R</i> [mm]	Unsupported length max. [m]	Page
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E2/000 e-chains®
Standard for System E2
snap-open along outer
radius from both sides

1500	21	15 - 125	28,5 - 138,5	28	35 - 180	1,75	5.142
2500	25	25 - 125	41,0 - 141,0	35	55 - 250	2,25	5.160
2700	35	50 - 175	66,0 - 194,0	50	63 - 250	2,75	5.182
3500	45	50 - 225	70,0 - 245,0	64	75 - 300	3,00	5.204
255	24	38 - 103	54,0 - 119,0	35	55 - 250	1,80	5.226



E2/000 e-chains®
snap-open along inner
radius from both sides

1400	21	15 - 125	28,5 - 138,5	28	35 - 180	1,75	5.142
2400	25	25 - 125	41,0 - 141,0	35	55 - 250	2,25	5.160
2600	35	50 - 175	66,0 - 194,0	50	63 - 250	2,75	5.182
3400	45	50 - 225	70,0 - 245,0	64	75 - 300	3,00	5.204



Half e-tubes
snap-open along inner
radius from both sides

1450	21	15 - 125	28,5 - 138,5	28	75 - 180	1,75	5.142
2450	25	25 - 103	41,0 - 119,0	35	100 - 250	2,25	5.160
2650	35	50 - 125	66,0 - 141,0	50	100 - 250	2,75	5.182
3450	45	75 - 225	95,0 - 245,0	64	125 - 300	3,00	5.204



Full e-tubes
snap-open along inner
radius from both sides

1480	21	15 - 125	28,5 - 138,5	28	75 - 180	1,75	5.142
2480	25	25 - 103	41,0 - 119,0	35	100 - 250	2,25	5.160
2680	35	50 - 125	66,0 - 141,0	50	100 - 250	2,75	5.182
3480	45	75 - 225	95,0 - 245,0	64	125 - 300	3,00	5.204





Push and click



Snap in pin



Push and snap crossbars



e-tube: push and snap lid



Open E2/000 e-chains® in a flash with the new **e-chain® opener** ► page 5.136



Technical Data overview ► next page



Part No. of e-chain® links as single parts ► next page

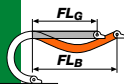


Assembly video available online at ► www.igus.de/en/E2000assembly

Technical Data - System E2/000



Gliding speed / acceleration (maximum)

max. 10 [m/s] / max. 50 [m/s²]Speed / acceleration FL_G max.max. 20 [m/s] / max. 200 [m/s²]Speed / acceleration FL_B max.max. 3 [m/s] / max. 6 [m/s²]

Material - permitted temperature °C

igumid G / -40° up to +120° C



Flammability class, igumid G

VDE 0304 IIC UL94 HB

■ FL_G = with straight upper run ■ FL_B = with permitted sag

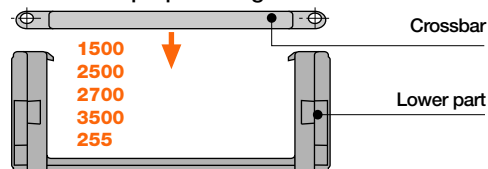
Installation methods overview, maximum travels - System E2/000

e-chain® / e-tube Series	Unsupported application	Gliding application	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary application	Zig-zag application	Unsupp. length of upper run
1400/1500/1450/1480	≤ 1,75 m	≤ 75 m	≤ 20 m	≤ 2,0 m	≤ 0,7 m	with rework	upon request	upon request
2400/2500/2450/2480	≤ 2,25 m	≤ 100 m	≤ 40 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
2600/2700/2650/2680	≤ 2,75 m	≤ 120 m	≤ 50 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
3400/3500/3450/3480	≤ 3,00 m	≤ 150 m	≤ 80 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
255	≤ 1,80 m	≤ 100 m	≤ 40 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request

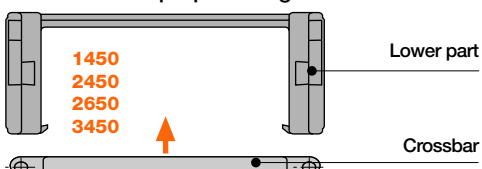


Part No. two-piece e-chain® links as single parts - System E2/000

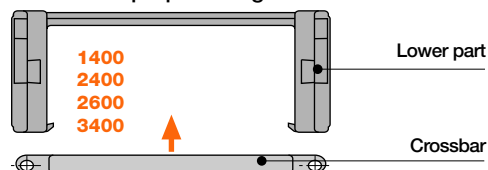
e-chain® snap-open along outer radius



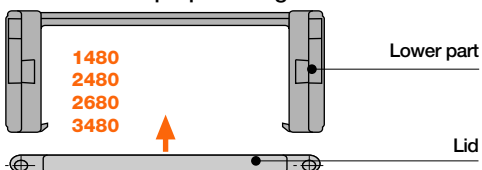
Half e-tube snap-open along inner radius



e-chain® snap-open along inner radius



Full e-tube snap-open along inner radius

e-chain®
Seriese-chain®
Crossbar*e-chain®
Lower parts**e-tube
Seriese-tube
Crossbar/lid*e-tube
Lower parts**

1400

15000.*Bi*1400.*Bi*00.*R*

1450

15000.*Bi*1450.*Bi*00.*R*

1500

15000.*Bi*1500.*Bi*00.*R*

1480

14800.*Bi*1450.*Bi*00.*R*

2400

25000.*Bi*2400.*Bi*00.*R*

2450

25000.*Bi*2450.*Bi*00.*R*

2500

25000.*Bi*2500.*Bi*00.*R*

2480

24800.*Bi*2450.*Bi*00.*R*

2600

27000.*Bi*2600.*Bi*00.*R*

2650

27000.*Bi*2650.*Bi*00.*R*

2700

27000.*Bi*2700.*Bi*00.*R*

2680

26800.*Bi*2650.*Bi*00.*R*

3400

35000.*Bi*3400.*Bi*00.*R*

3450

35000.*Bi*3450.*Bi*00.*R*

3500

35000.*Bi*3500.*Bi*00.*R*

3480

34800.*Bi*3450.*Bi*00.*R*

255

2550.*Bi*255.*Bi*00.*R*

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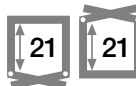
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* Crossbar / Lid / bottom - supplement Part No. with required width index (*Bi*). Example: 25000.100** Lower parts - supplement Part No. with required width index (*Bi*) and radius (*R*). Example: 2500.10000.100

Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Many mounting options with or without strain relief

System with 4 variations

Large pin for high stability

Opening system from left or right

Lateral glide surfaces

Double stop dog for long unsupported travels

Small radii, high stability

When to use Series 1400·1450·1480·1500:

- If a medium-sized, stable system with an inner height of 21 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 125 mm are required
- For unsupported lengths up to 1,75 m and fill weights up to 2,0 kg/m
- For long travels up to 75 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
▶ **System E4.1, Series E4.21**, page 7.18
- For simple applications and easy filling
▶ **easy chain®, Series E14**, page 3.32
- If e-tubes with smaller bending radii are required
▶ **e-tubes E2, Series R117**, page 6.6



Open E2/000 e-chains® in a flash with the e-chain® opener ▶ page 5.136

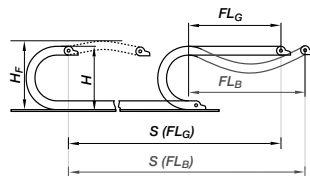
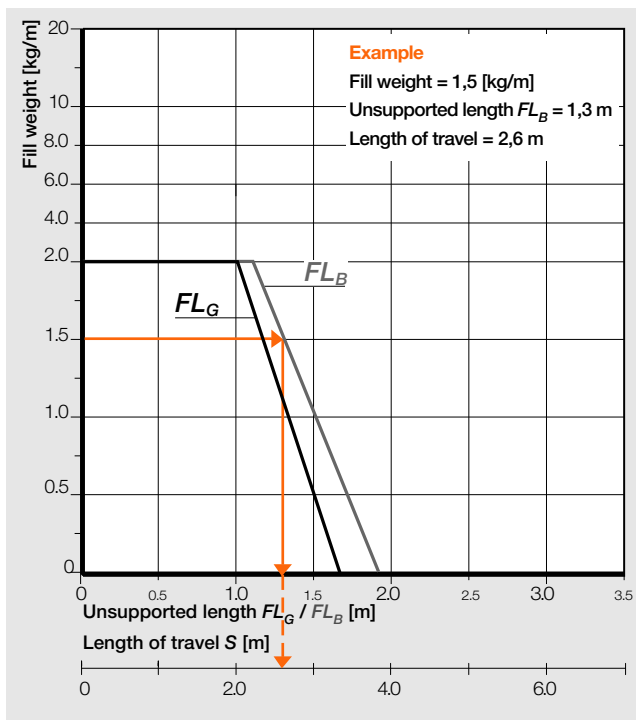


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000



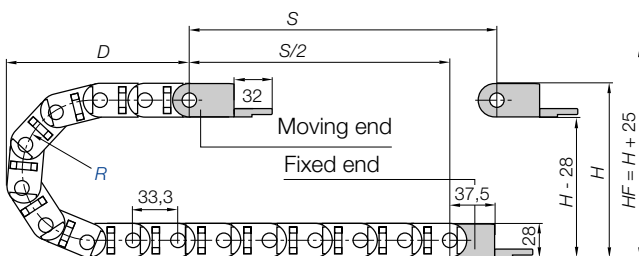
Standard Unsupported applications

Unsupported e-chains* feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)

Gliding applications

Long travels up to 75 m.

More information ► [page 5.156](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

Pitch = 33,3 mm/link
Links/m = 30 (1000 mm)
Chain length = $\frac{S}{2} + K$

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: $H_F = H + 25$ mm (with 0,5 kg/m fill weight)

for Series 1450/1480 upon request. Before using Series 1400/1450/1480 please consult igus.



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain*, radius in final position
 $K = \pi \cdot R + \text{"safety"}$

1400
1450
1480
1500

E2/000 | 1400·1500 | Product Range | Standard



e-chains® | Series 1400 snap-open along inner radius
e-chains® | Series 1500 snap-open along outer radius | Standard

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius		<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	1400 [kg/m]	1500 [kg/m]
1400.015. <i>R.0</i>	1500.015. <i>R.0</i>		15	28,5	035 038 048 075 100 125 145 180	≈ 0,46	≈ 0,46
1400.020. <i>R.0</i>	1500.020. <i>R.0</i>		20	33,5	035 038 048 075 100 125 145 180	≈ 0,47	≈ 0,47
1400.025. <i>R.0</i>	1500.025. <i>R.0</i>		25	38,5	035 038 048 075 100 125 145 180	≈ 0,49	≈ 0,49
1400.038. <i>R.0</i>	1500.038. <i>R.0</i>		38	51,5	035 038 048 075 100 125 145 180	≈ 0,53	≈ 0,53
1400.050. <i>R.0</i>	1500.050. <i>R.0</i>		50	63,5	035 038 048 075 100 125 145 180	≈ 0,56	≈ 0,56
1400.068. <i>R.0</i>	1500.068. <i>R.0</i>		68	81,5	035 038 048 075 100 125 145 180	≈ 0,63	≈ 0,63
1400.080. <i>R.0</i>	1500.080. <i>R.0</i>		80	93,5	035 038 048 075 100 125 145 180	≈ 0,67	≈ 0,67
1400.100. <i>R.0</i>	1500.100. <i>R.0</i>		100	113,5	035 038 048 075 100 125 145 180	≈ 0,74	≈ 0,74
1400.125. <i>R.0</i>	1500.125. <i>R.0</i>		125	138,5	035 038 048 075 100 125 145 180	≈ 0,83	≈ 0,83

Supplement Part No. with required radius. Example: 1500.038.100.0

When to use Series 1400: ● If snap-open accessibility along inner radius is required ● For long travels please consult igus®! **When to use Series 1500:** ● For long travels ● If snap-open accessibility along outer radius is required

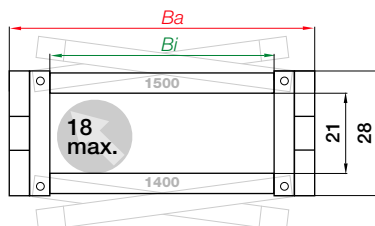


Order key

1400. 038. 100. 0 e-chain®

1500. 038. 100. 0 e-chain®

Standard color black
Bending radius *R*
Width index (depends on *Bi*)
Series / Type



1400.038.100.0 = e-chain® snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

1500.038.100.0 = e-chain® snap-open along outer radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

More order examples and configuration options ► page 5.158



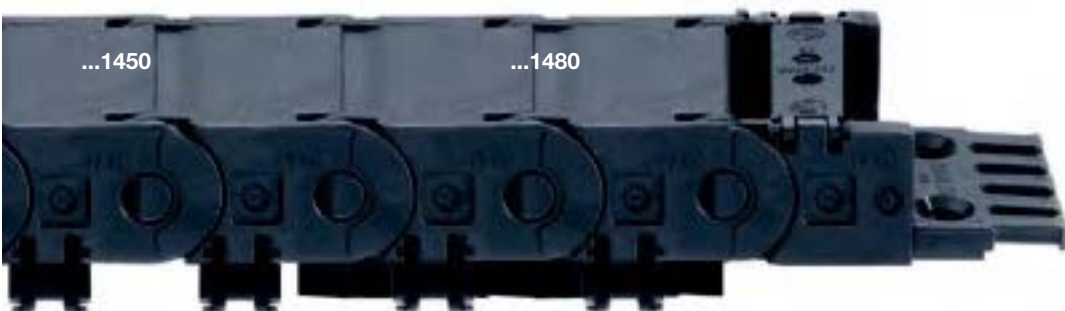
Part No. of e-chain® links as single parts ► page 5.141



Standard e-chains® available from stock. **Delivery in 24h or today!***

*Delivery time means time until shipping of goods

5.144 3D-CAD files, configurators, PDF ► www.igus.de/en/E2000



Half e-tubes | Serie 1450 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 1480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	1450 [kg/m]	1480 [kg/m]
1450.015. <i>R.0</i>	1480.015. <i>R.0</i>	15	28,5	035* 038* 048* 075 100 125 145 180	≈ 0,48	≈ 0,50
1450.020. <i>R.0</i> **	1480.020. <i>R.0</i> **	20	33,5	035* 038* 048* 075 100 125 145 180	≈ 0,51	≈ 0,51
1450.025. <i>R.0</i>	1480.025. <i>R.0</i>	25	38,5	035* 038* 048* 075 100 125 145 180	≈ 0,54	≈ 0,57
1450.038. <i>R.0</i>	1480.038. <i>R.0</i>	38	51,5	035* 038* 048* 075 100 125 145 180	≈ 0,59	≈ 0,61
1450.050. <i>R.0</i>	1480.050. <i>R.0</i>	50	63,5	035* 038* 048* 075 100 125 145 180	≈ 0,65	≈ 0,67
1450.068. <i>R.0</i>	1480.068. <i>R.0</i>	68	81,5	035* 038* 048* 075 100 125 145 180	≈ 0,74	≈ 0,77
1450.080. <i>R.0</i>	1480.080. <i>R.0</i>	80	93,5	035* 038* 048* 075 100 125 145 180	≈ 0,80	≈ 0,84
1450.100. <i>R.0</i>	1480.100. <i>R.0</i>	100	113,5	035* 038* 048* 075 100 125 145 180	≈ 0,90	≈ 0,95
1450.125. <i>R.0</i>	1480.125. <i>R.0</i>	125	138,5	035* 038* 048* 075 100 125 145 180	≈ 1,03	≈ 1,08

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 1450/1480 available upon request. Delivery time approx. 1-2 weeks after order.

For radii 035, 038, 048 the e-tube is not fully enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: 1450.038.100.0

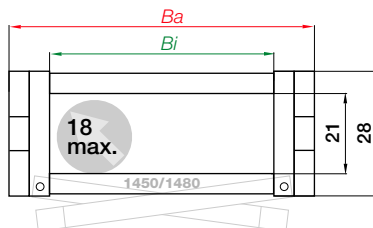
When to use Series 1450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®. **When to use Series 1480:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

1450. 038. 100. 0 Half e-tube

1480. 038. 100. 0 Full e-tube



1450.038.100.0 = Half e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

1480.038.100.0 = Full e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

More order examples and configuration options ► page 5.158



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes available from stock. **Delivery in 24h or today!***

*Delivery time means time until shipping of goods

...-5 dB(A)depends on environmental conditions,
similar to figure**Noise dampening** | Noise reduction ≈ 5 dB(A)

e-chains® snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		<i>R</i> Bending radii [mm]	<i>Bi</i> [mm]
S1400.015.	S1450.015.	S1480.015.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	15
S1400.020.	S1450.020.**	S1480.020.**	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	20
S1400.025.	S1450.025.	S1480.025.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	25
S1400.038.	S1450.038.	S1480.038.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	38
S1400.050.	S1450.050.	S1480.050.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	50
S1400.068.	S1450.068.	S1480.068.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	68
S1400.080.	S1450.080.	S1480.080.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	80
S1400.100.	S1450.100.	S1480.100.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	100
S1400.125.	S1450.125.	S1480.125.	<i>R.0</i>	035* 038* 048* 075 100 125 145 180	125

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 1450/1480 available upon request. Delivery time approx. 1-2 weeks after order.

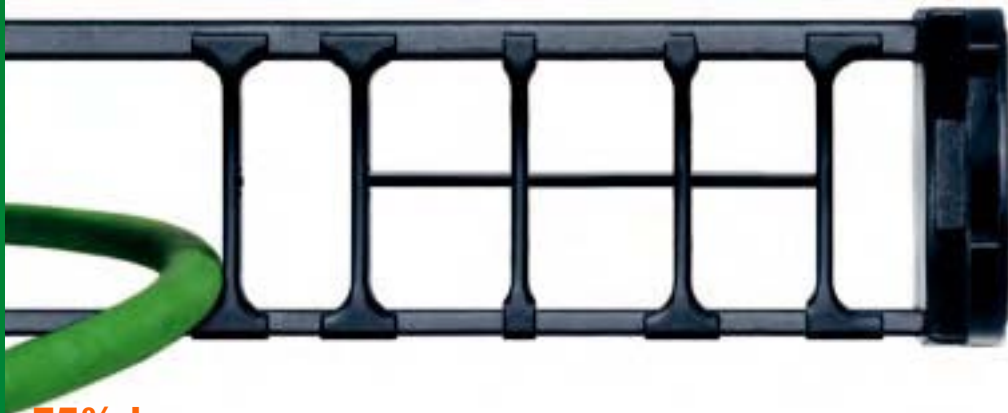
For radii 035, 038, 048 the e-tube is not fully enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: **S1400.038.100.0**For e-chains® with noise dampening pads supplement Part No. with required index "**S**"Example: Part No. **S1400.038.100.0** = e-chain® snap-open along inner radius with noise dampening pads**e-chain® with noise dampening pads - Delivery time: 3-5 work days.**

*Delivery time means time until shipping of goods

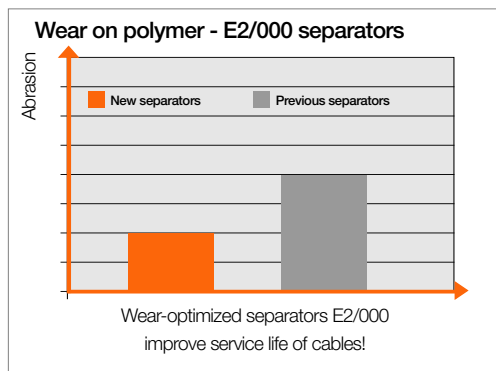


Installation-optimized delivery of an igus® readychain®- here system E2/000



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



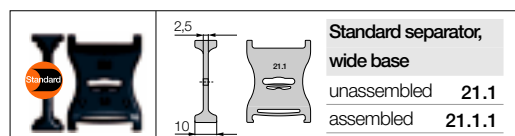
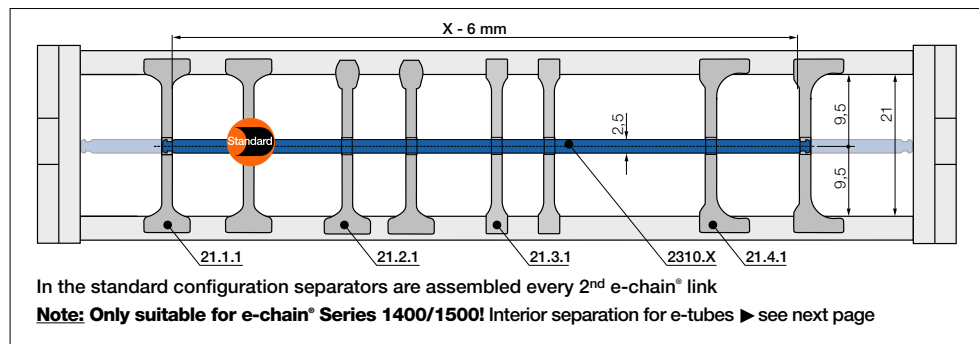
- ① Standard separator, wide base - Part No. 21.1 ③ Separator, narrow base - Part No. 21.3 ⑤ Full-width shelf, lockable* - Part No. 2300.XX
 ② Separator with narrow head - Part No. 21.2 ④ Separator, asymmetrical - Part No. 21.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery in 24h or today!*

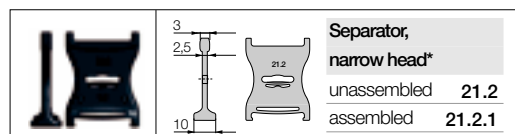
*Delivery time means time until shipping of goods

New generation of interior separation



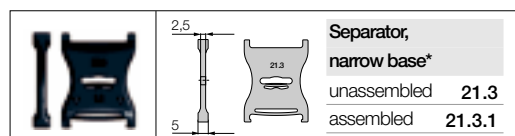
Standard - for all applications

Separator with wide base for maximum locking strength and safe standing in e-chains®.



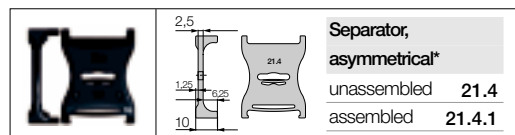
For even faster installation

Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



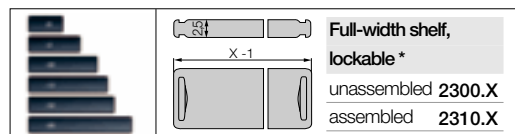
For many thin cables

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



For side-mounted applications

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



Horizontal separation

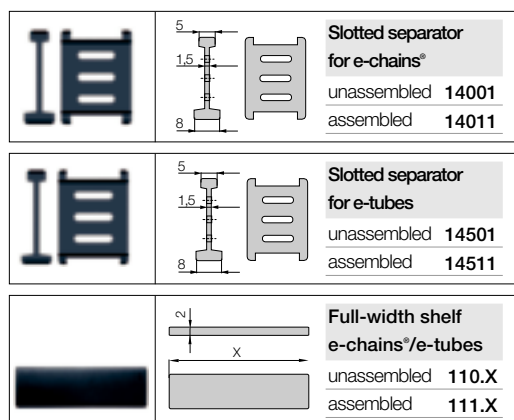
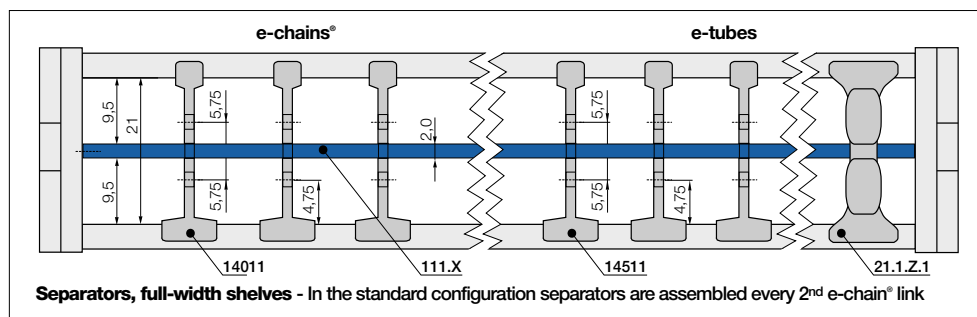
Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 1 level.

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	2300.15	2310.15	060	2300.60	2310.60	087	2300.87	2310.87
025	2300.25	2310.25	062	2300.62	2310.62	090	2300.90	2310.90
030	2300.30	2310.30	065	2300.65	2310.65	100	2300.100	2310.100
038	2300.38	2310.38	070	2300.70	2310.70	103	2300.103	2310.103
040	2300.40	2310.40	075	2300.75	2310.75	110	2300.110	2310.110
050	2300.50	2310.50	077	2300.77	2310.77	120	2300.120	2310.120
057	2300.57	2310.57	080	2300.80	2310.80	125	2300.125	2310.125



Slotted separator 14001 (e-chains[®] only)

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Slotted separator 14501 (e-tubes only)

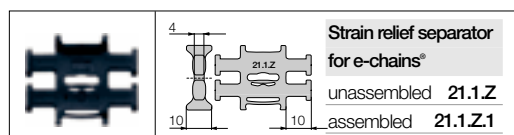
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 110.X (e-chains[®]/e-tubes)

this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5,75 mm increments).

Full-width shelves

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



Additional elements for interior separation

NEW in this catalog

Strain relief separator 21.1.Z (e-chains[®] only)

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.



E2/000 Series 1400 in aircraft refuelling truck; telescopic crane with six sections

Optional: Support tray tool kit.

For support of the lower run.

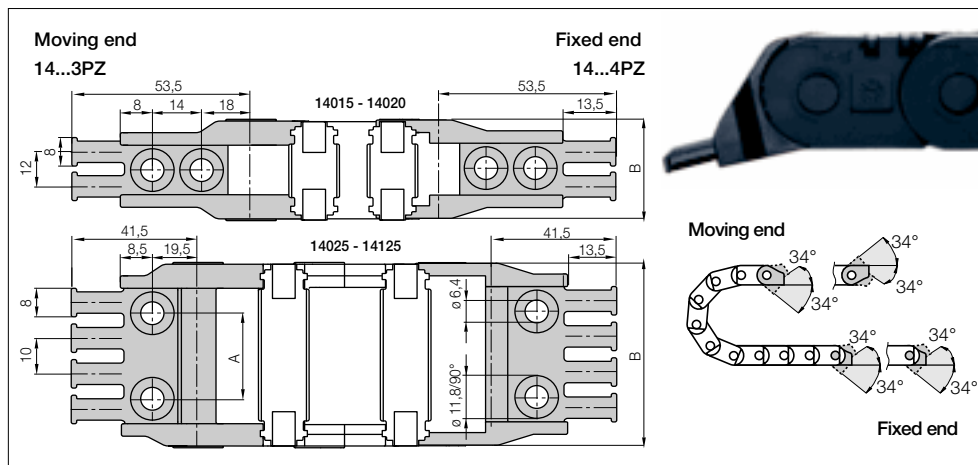
Simple one-piece support trays according to your requirements and specification. Available upon request.

The complete range with order options ► from page 9.70



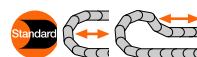
1400·1450·1480·1500 | Mounting brackets **pivoting**

For tight installation conditions



Polymer pivoting, one-piece | Standard - Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.015. ►	14015.34PZ	—	28,5	2
.020. ►	14020.34PZ	—	33,5	2
.025. ►	14025.34PZ	13	38,5	2
.038. ►	14038.34PZ	24	51,5	4
.050. ►	14050.34PZ	36	63,5	5
.068. ►	14068.34PZ	54	81,5	7
.080. ►	14080.34PZ	66	93,5	8
.100. ►	14100.34PZ	86	113,5	10
.125. ►	14125.34PZ	111	138,5	13



- Standard
- For tight installation conditions
- One-piece, stable mounting brackets
- Integrated molded strain relief
- Corrosion resistant
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

14038. 34 PZ A1



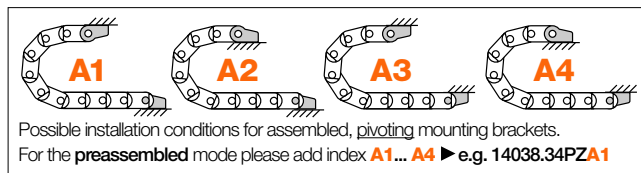
Single-part order

Mounting bracket **Moving end**

14038. 3 PZ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

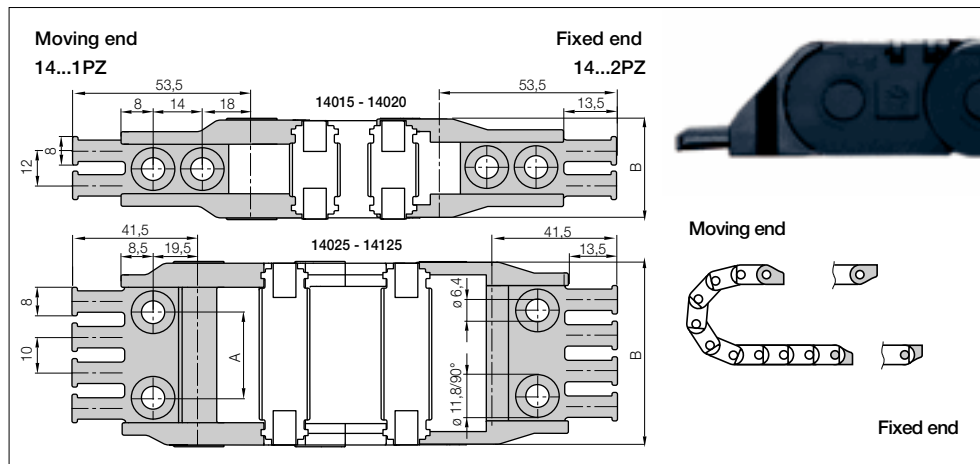
14038. 4 PZ A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ► from page 10.1

1400·1450·1480·1500 | Mounting brackets locking

For very high speed and acceleration



Polymer locking, one-piece | Universal for e-chains® and e-tubes
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.015. ▶	14015.12PZ	–	28,5	2
.020. ▶	14020.12PZ	–	33,5	2
.025. ▶	14025.12PZ	13	38,5	2
.038. ▶	14038.12PZ	24	51,5	4
.050. ▶	14050.12PZ	36	63,5	5
.068. ▶	14068.12PZ	54	81,5	7
.080. ▶	14080.12PZ	66	93,5	8
.100. ▶	14100.12PZ	86	113,5	10
.125. ▶	14125.12PZ	111	138,5	13



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure (locking)

14038. 12 PZ A1



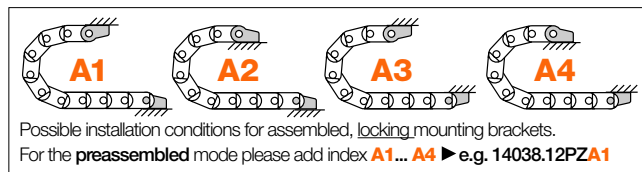
Single-part order

Mounting bracket **Moving end**

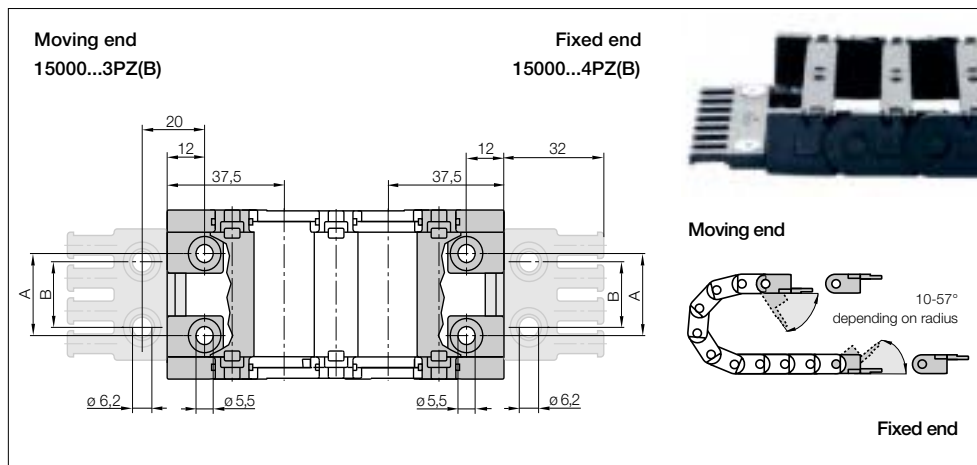
14038. 1 PZ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

14038. 2 PZ A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

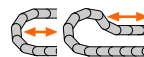
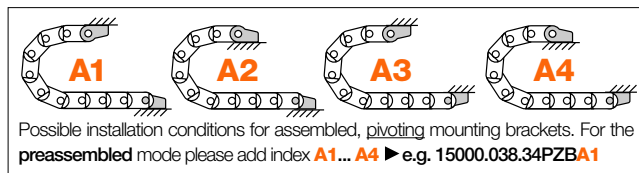


Polymer pivoting | Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.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



- For tight installation conditions
- Strain relief with detachable
tiewrap plates
- Variable traverse angle
for flexible assembly
- Corrosion resistant
- Various installation options on the
fixed end and/or the moving end

Part No. structure (pivoting)

15000.038.34PZ**A1**

Single-part order

Mounting bracket **Moving end**

15000.038.4PZA1 (preassembled + tiewrap plate)

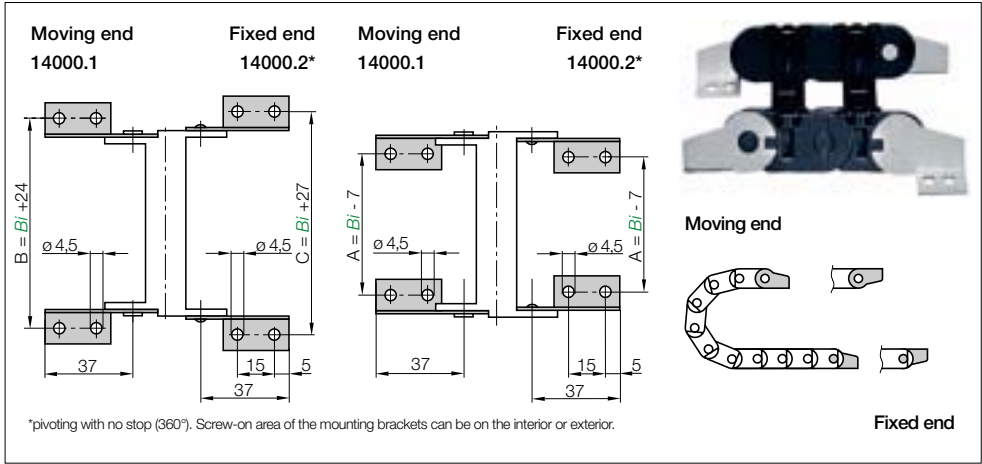
Mounting bracket **Fixed end**

15000.038.3PZA1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ► from page 10.1

1400·1450·1480·1500 | Steel mounting brackets **locking**

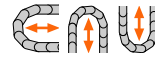


Steel **locking** | - For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]
.015. ▶	14000.12	14000.12.E	8	39	42
.020. ▶	14000.12	14000.12.E	13	44	47
.025. ▶	14000.12	14000.12.E	18	49	52
.038. ▶	14000.12	14000.12.E	31	62	65
.050. ▶	14000.12	14000.12.E	43	74	77
.068. ▶	14000.12	14000.12.E	61	92	95
.080. ▶	14000.12	14000.12.E	73	104	107
.100. ▶	14000.12	14000.12.E	93	124	127
.125. ▶	14000.12	14000.12.E	118	149	152

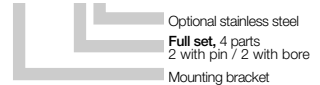
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Locked connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

14000.12.E



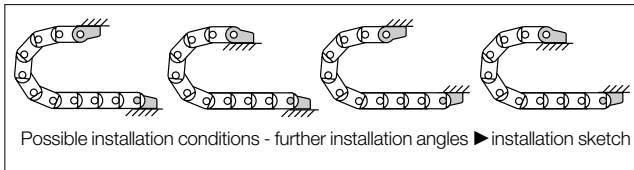
Single-part order

Mounting bracket **Moving end**

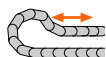
14000.1 (1 part left / right)

Mounting bracket **Fixed end**

14000.2 (1 part left / right)

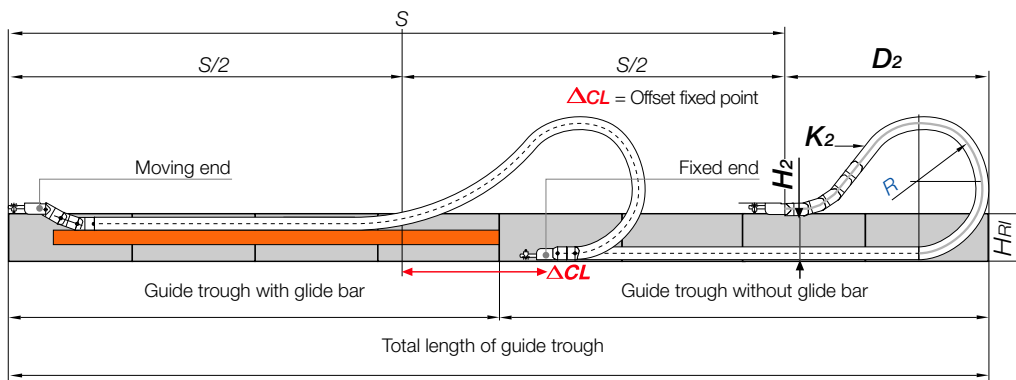


Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



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

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 1400/1450/1480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 1500** that snaps open along the outer radius. In case of travels between 4 and 10 m we recommend a longer unsupported length. More information ► **Design, from page 1.16.**



$$\text{Pitch} = 33,3 \text{ mm/link} \cdot \text{Links/m} = 30 \text{ (1000 mm)} \cdot \text{Chain length} = \frac{S}{2} + K$$

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	1170
ΔCL	-	-	-	-	179	305	340	445

*for Series 1450/1480 upon request. Before using Series 1400/1450/1480 on long travels please consult igus®. **Values upon request!



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{RI} = Inner trough height

S = Length of travel
S/2 = Half length of travel

1400-1450-1480-1500 | Options and order key

**Standard***Additional noise
dampening
with pads**NC-Version -
(no camber)
without pretension**Reverse bending
radius for circular
movements***Part No.**
Standard
e-chains®/e-tubes**Part No.**
Low noise (with pads)
e-chains®/e-tubes**Part No.**
NC-Material
e-chains®/e-tubes**Part No.**
RBR
e-chains®/e-tubes**1400.038.R.0**

e-chain* snap-open along inner radius*

S1400.038.R.0

e-chain* snap-open along inner radius*

1400.038.R.0.NC

e-chain* snap-open along inner radius*

1400.038.R1/R2.0

e-chain* snap-open along inner radius*

1500.038.R.0

e-chain* snap-open along outer radius

S1450.038.R.0

Half e-tube snap-open along inner radius*

1500.038.R.0.NC

e-chain* snap-open along outer radius

1500.038.R1/R2.0

e-chain* snap-open along outer radius

1450.038.R.0

Half e-tube snap-open along inner radius*

S1480.038.R.0

e-tube snap-open along inner radius*

1450.038.R.0.NC

Half e-tube snap-open along inner radius*

1450.038.R1/R2.0**

Half e-tube snap-open along inner radius*

1480.038.R.0

e-tube snap-open along inner radius*

1480.038.R.0.NC

e-tube snap-open along inner radius*

1480.038.R1/R2.0**

e-tube snap-open along inner radius*

**Delivery time**
24h or today!***Delivery time**
3-5 work days**Delivery time**
3-5 work days**Delivery time**
10 work days(2-5 work days at an
express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC- Version	RBR- Version	XXL- Material	HT- Material*	ESD- Material
Low-noise- option		S1400.038.R.0.NC	–	S1400.038.R.0.XXL	S1480.038.R.0.HT	S1400.038.R.0.ESD
NC- Version	S1400.038.R.0.NC		–	–	1480.30.R.0.HT.NC	1400.038.R.0.ESD.NC
RBR- Version	–	–		–	1480.038.R1/R2.0.HT	1400.038.R1/R2.0.ESD
XXL- Material	S1400.038.R.0.XXL	–	–		–	–
HT- Material*	S1480.038.R.0.HT	1480.30.R.0.HT.NC	1480.30.R1/R2.0.HT	–		–
ESD- Material	S1400.038.R.0.ESD	1400.038.R.0.ESD.NC	1400.038.R1/R2.0.ESD	–	–	

*for gliding applications please consult igus®

1400·1450·1480·1500 | Options and order key

Unsupported
lengths +25%
possible

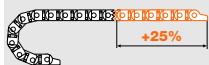
No burning-in of
hot chips up to
850°C (1562° F)

ATEX / ESD
classified e-chains®
 II 2 GD

Part No.

XXL-Material**

e-chains®/e-tubes



1400.038.R.0.XXL

e-chain* snap-open along inner radius*

1500.038.R.0.XXL

e-chain* snap-open along outer radius

1450.038.R.0.XXL

Half e-tube snap-open along inner radius*

1480.038.R.0.XXL

e-tube snap-open along inner radius*

Delivery time
1-2 weeks

**Lower part made of XXL-material

Part No.

HT-Material
only for e-tubes



1480/1450.038.R.0.HT

Complete e-tube**

1480/1450.038.R.0.HT

Bottom only

Delivery time
10 work days

Part No.

ESD-Material
e-chains®/e-tubes



1400.038.R.0.ESD

e-chain* snap-open along inner radius*

1500.038.R.0.ESD

e-chain* snap-open along outer radius

1450.038.R.0.ESD

Half e-tube snap-open along inner radius*

1480.038.R.0.ESD

e-tube snap-open along inner radius*

Delivery time
5 work days

*for gliding applications
please consult igus®

Order example | Order key and color options



**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 30 links **1500.038.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **15000.038.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 21.1**

Order text: 1,0 m 1500.038.100.0 + 15000.038.34PZB + 2 x Part No. 21.1



Order key

1500.038.100.0



Black e-chains® from stock!

*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
 black	.0 from stock!	 green*	.7
 white*	.1	 grey*	.3 for e-chains®
 violet*	.5	 dusty grey*	.3 for e-tubes
 yellow*	.4	 agate grey*	.11
 orange*	.2	 light grey*	.14
 red*	.6	 black grey*	.13
 blue*	.8	 yellow/black*	.9



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Large pin for high stability

Double stop dog for long unsupported travels

Lateral glide surfaces

Allrounder, high stability

When to use Series 2400·2450·2480·2500:

- If a medium-sized, stable system with an inner height of 25 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 125 mm are required
- For unsupported lengths up to 2,25 m and fill weights up to 4,8 kg/m
- For long travels up to 100 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
▶ **System E4.1, Series E4.21**, page 7.18
- For simple applications and easy filling
▶ **easy chain®, Series E200**, page 3.36
- If e-tubes with smaller bending radii are required
▶ **e-tubes E2, Series R48**, page 6.26



Open E2/000 e-chains® in a flash with the **e-chain® opener** ▶ page 5.136



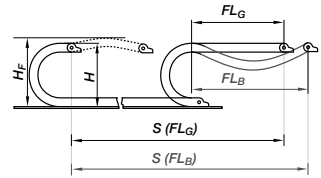
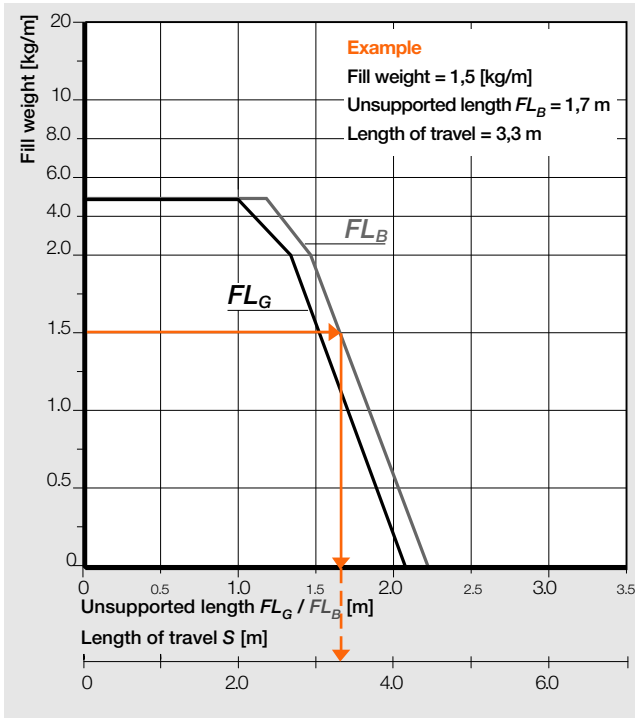
Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000

2400·2450·2480·2500 | Dimensions | Unsupported

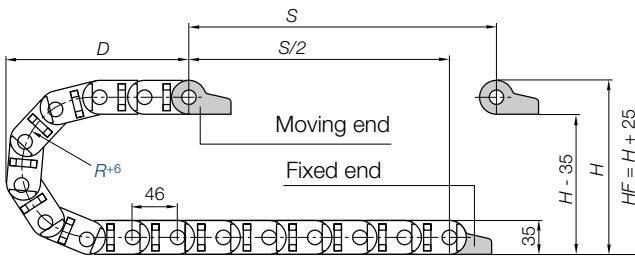


Standard Unsupported applications

Unsupported e-chains* feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)

Gliding applications

Long travels up to 100 m.
More information ► [page 5.178](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

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

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

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

*for Series 2450/2480 upon request. Before using Series 2400/2450/2480 on long travels please consult igus®.

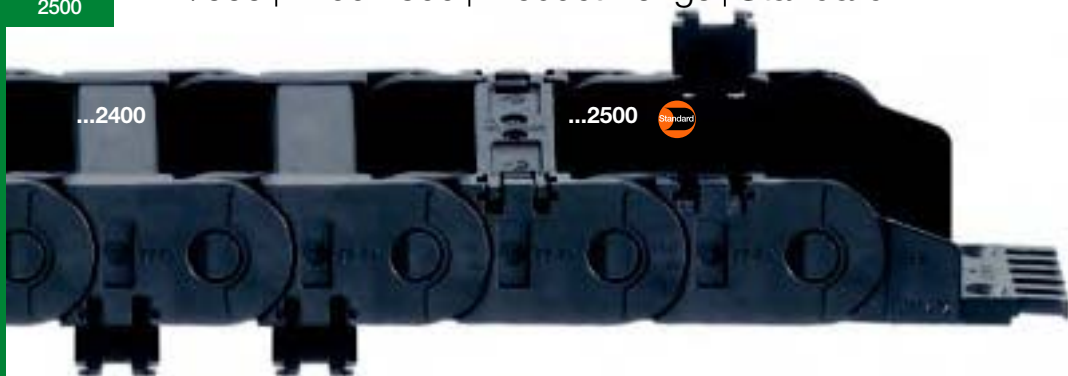


FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain*, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



e-chains® | Series 2400 snap-open along inner radius

e-chains® | Series 2500 snap-open along outer radius | **Standard**

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

Supplement Part No. with required radius. Example: **2500.03.100.0**

When to use Series 2400: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ► page 9.90). **When to use Series 2500:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.

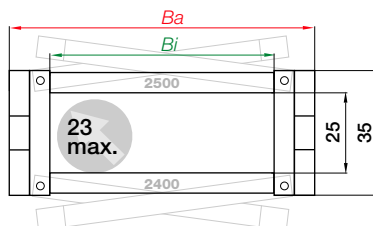


Order key

2400.03.100.0 e-chain®

2500.03.100.0 e-chain®

- Standard color black
- Bending radius **R**
- Width index (depends on **Bi**)
- Series / Type



2400.03.100.0 = e-chain® snap-open along inner radius, **Bi** 38 mm inner width, **R** 100 mm radius, color black

2500.03.100.0 = e-chain® snap-open along outer radius, **Bi** 38 mm inner width, **R** 100 mm radius, color black

More order examples and configuration options ► page 5.180

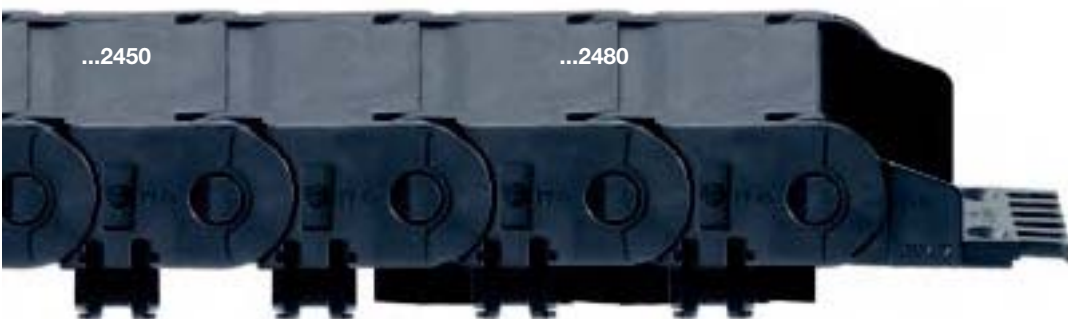


Part No. of e-chain® links as single parts ► page 5.141



Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Half e-tubes | Serie 2450 snap-open along inner radius, closed along outer radius

Full e-tubes | Serie 2480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	2450 [kg/m]	2480 [kg/m]
2450. 02 . <i>R</i> .0	2480. 02 . <i>R</i> .0	25	41	055* 075 100 125 150 175 200 225 250	≈ 0,80	≈ 0,82
2450. 03 . <i>R</i> .0	2480. 03 . <i>R</i> .0	38	54	055* 075 100 125 150 175 200 225 250	≈ 0,88	≈ 0,92
2450. 05 . <i>R</i> .0	2480. 05 . <i>R</i> .0	57	73	055* 075 100 125 150 175 200 225 250	≈ 0,99	≈ 1,03
2450. 07 . <i>R</i> .0	2480. 07 . <i>R</i> .0	77	93	055* 075 100 125 150 175 200 225 250	≈ 1,12	≈ 1,17
2450. 09 . <i>R</i> .0	2480. 09 . <i>R</i> .0	89	105	055* 075 100 125 150 175 200 225 250	≈ 1,20	≈ 1,26
2450. 10 . <i>R</i> .0	2480. 10 . <i>R</i> .0	103	119	055* 075* 100 125 150 175 200 225 250	≈ 1,27	≈ 1,34
2450. 12 . <i>R</i> .0	2480. 12 . <i>R</i> .0	125	141	055* 075 100 125 150 175 200 225 250	≈ 1,35	≈ 1,43

*Radius Series 2450/2480 available upon request. Delivery time approx. 1-2 weeks after intake of order.

Radius 055: the e-tube is not completely enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: **2450.03.100.0**

When to use Series 2450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®.

When to use Series 2480: ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

2450.03.100.0 Half e-tube

2480.03.100.0 Full e-tube

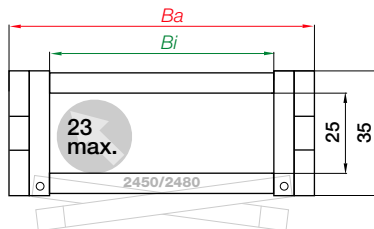


Standard color black

Bending radius *R*

Width index (depends on *Bi*)

Series / Type



2450.03.100.0 = Half e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

2480.03.100.0 = Full e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

More order examples and configuration options ► page 5.180



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. Delivery in 24h or today.*

*Delivery time means time until shipping of goods

...-5 dB(A)depends on environmental conditions,
similar to figure**Noise damping** | Noise reduction ≈ 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S2400.02	S2450.02	S2480.02	R.0	055* 075 100 125 150 175 200 225 250	25
S2400.03	S2450.03	S2480.03	R.0	055* 075 100 125 150 175 200 225 250	38
S2400.05	S2450.05	S2480.05	R.0	055* 075 100 125 150 175 200 225 250	57
S2400.07	S2450.07	S2480.07	R.0	055* 075 100 125 150 175 200 225 250	77
S2400.09	S2450.09	S2480.09	R.0	055* 075 100 125 150 175 200 225 250	89
S2400.10	S2450.10	S2480.10	R.0	055* 075 100 125 150 175 200 225 250	103
S2400.12	S2450.12	S2480.12	R.0	055* 075 100 125 150 175 200 225 250	125

*Radius Series 2450/2480 available upon request. Delivery time approx. 1-2 weeks after intake of order.

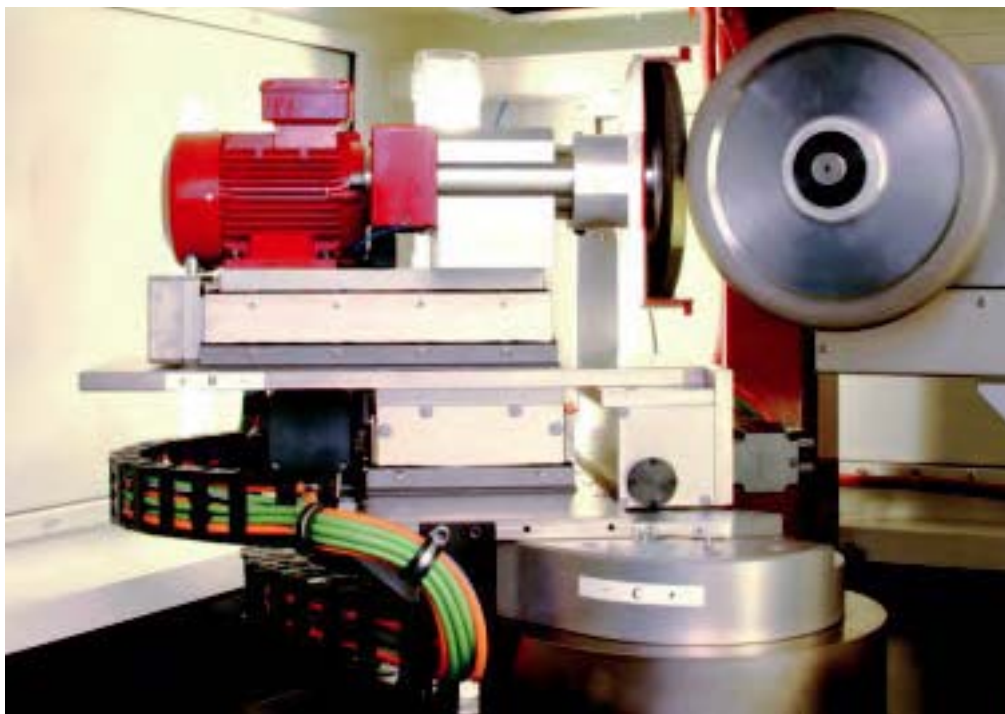
Radius 055: the e-tube is not completely enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: **S2400.03.100.0**

For e-chains® with noise dampening pads: supplement Part No. with required index "S"

Example: Part No. **S2400.03.100.0** = e-chain® snap-open along inner radius with noise dampening pads**e-chain® with noise dampening pads - Delivery time 3-5 work days.**

*Delivery time means time until shipping of goods

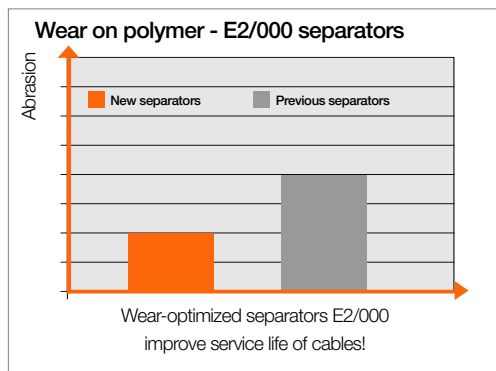


Two fully harnessed and side-mounted E2/000 e-chains® with high fill weight



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



① Standard separator, wide base - Part No. 25.1

③ Separator, narrow base - Part No. 25.3

⑤ Full-width shelf, lockable* - Part No. 2300.XX

② Separator with narrow head - Part No. 25.2

④ Separator, asymmetrical - Part No. 25.4

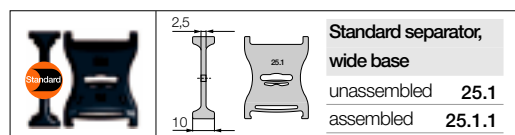
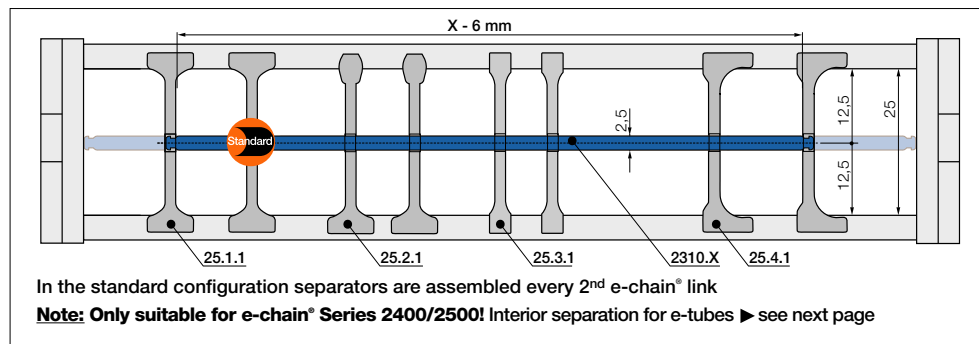
*Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery time 24h or today!*

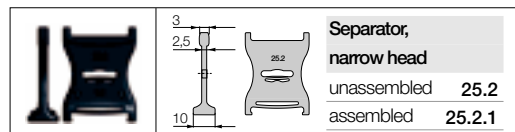
*Delivery time means time until shipping of goods

New generation of interior separation



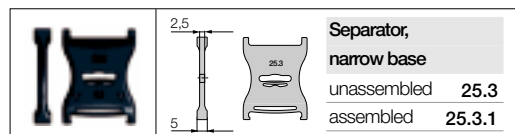
Standard - for all applications

Separator with a wide base for maximum locking strength and safe standing in e-chains®.



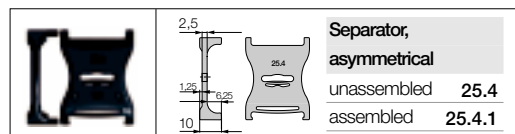
For even faster installation

Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



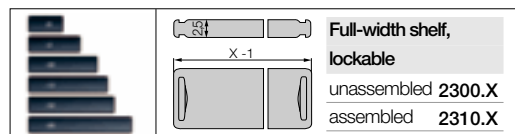
For many thin cables

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



For side-mounted applications

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



Horizontal separation

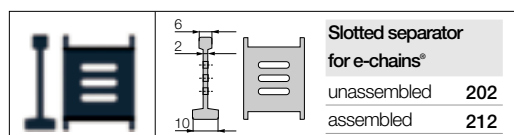
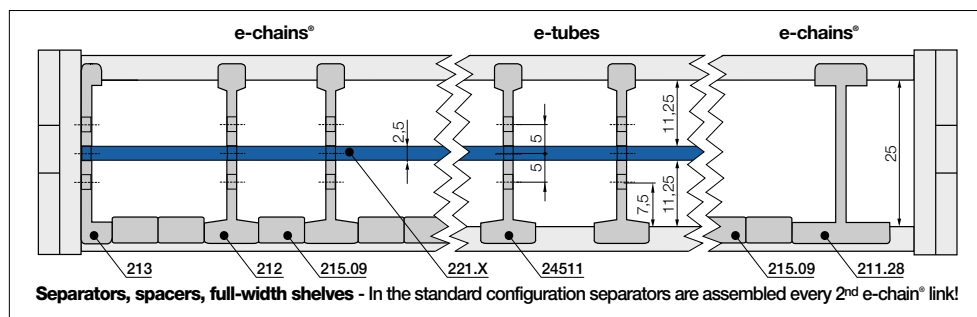
Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 1 level.

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.



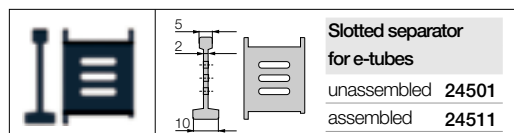
Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	2300.15	2310.15	060	2300.60	2310.60	087	2300.87	2310.87
025	2300.25	2310.25	062	2300.62	2310.62	090	2300.90	2310.90
030	2300.30	2310.30	065	2300.65	2310.65	100	2300.100	2310.100
038	2300.38	2310.38	070	2300.70	2310.70	103	2300.103	2310.103
040	2300.40	2310.40	075	2300.75	2310.75	110	2300.110	2310.110
050	2300.50	2310.50	077	2300.77	2310.77	120	2300.120	2310.120
057	2300.57	2310.57	080	2300.80	2310.80	125	2300.125	2310.125



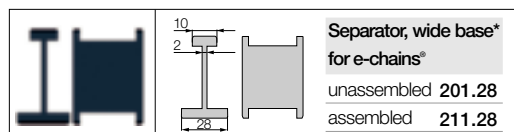
Slotted separator 202 (e-chains* only)

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Slotted separator 24501 (e-tubes only)

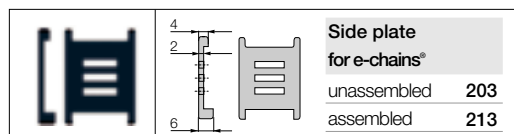
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator, wide base* 201.28 (e-chains* only)

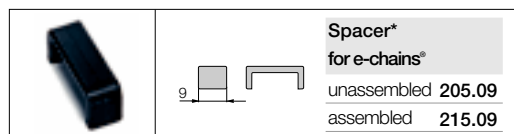
If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)



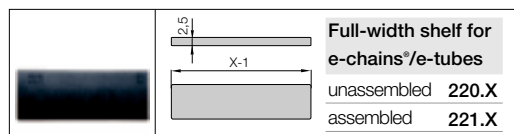
Side plate 203 (e-chains* only)

Side plate for use with full-width shelf 220.X and slotted separator 202.



Spacer* 205.09 (e-chains* only)

Separators can be fixed in position. Only mountable onto the fixed crossbar. (*for side-mounted applications)



Full-width shelf 220.X (e-chains* and e-tubes)

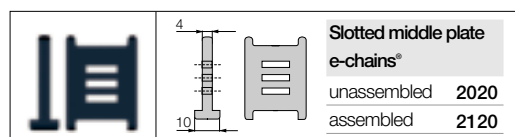
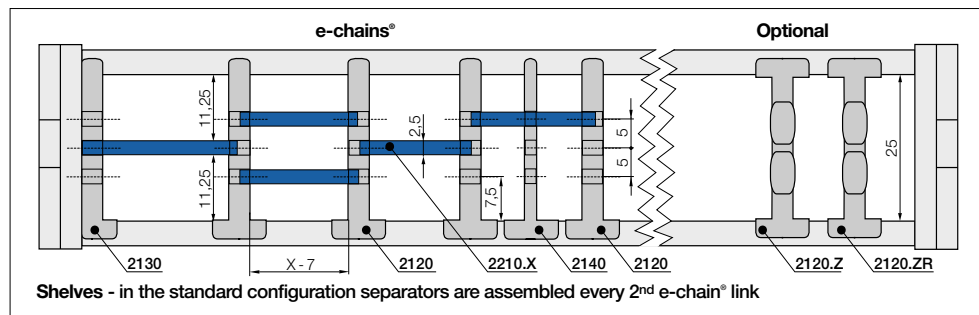
This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

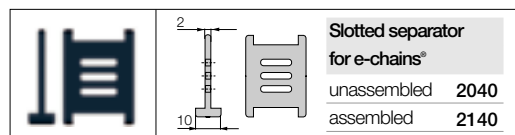
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
025	220.25	221.25	077	220.77	221.77	125	220.125	221.125
038	220.38	221.38	090	220.90	221.90			
057	220.57	221.57	103	220.103	221.103			

2400·2450·2480·2500 | Interior separation | Options

Previous interior separation

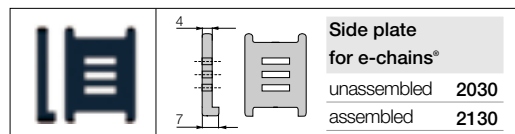
**Middle plate 2020 (e-chains® only)**

To achieve a modular shelving by shelf 2200.X arranged at 3 different heights (in 5 mm increments)

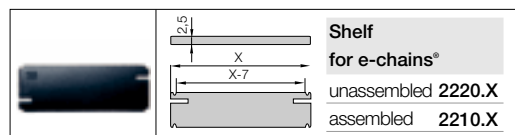
**Slotted separator 2040 (e-chains® only)**

For a very fine subdivision.

No snap-in option for shelves, freely movable.

**Side plate 2030 (e-chains® only)**

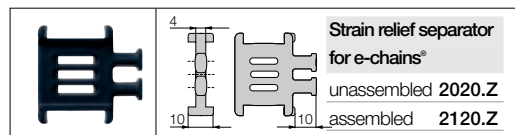
Side plate for use with middle plate 2020, slotted separator 2040 and shelf 2200.

**Shelf 2200 (e-chains® only)**

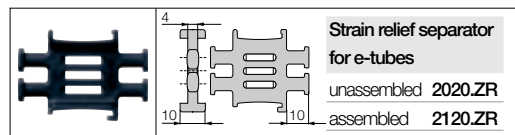
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 3 different heights (in 5 mm increments).

Shelves

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

**Additional elements for interior separation****Strain relief separator 2020.Z (e-chains® only)**

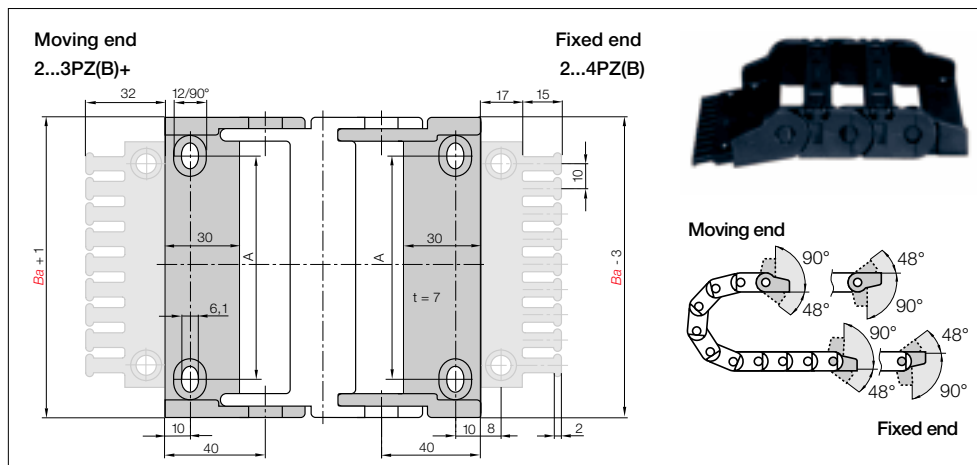
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

**Strain relief separator 2020.ZR (e-tubes only)**

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

2400·2450·2480·2500 | Mounting brackets **pivoting**

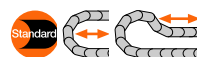
For tight installation conditions



Polymer **pivoting** | Standard - Universal for e-chains® and e-tubes

Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
.02. ▶	2020.34PZB+	2020.34PZBK1+	2020.34PZ+	12	3
.03. ▶	2030.34PZB+	2030.34PZBK1+	2030.34PZ+	25	4
.05. ▶	2050.34PZB+	2050.34PZBK1+	2050.34PZ+	44	6
.07. ▶	2070.34PZB+	2070.34PZBK1+	2070.34PZ+	64	8
.09. ▶	2090.34PZB+	2090.34PZBK1+	2090.34PZ+	77	10
.10. ▶	2100.34PZB+	2100.34PZBK1+	2100.34PZ+	90	10
.12. ▶	2125.34PZB+	2125.34PZBK1+	2125.34PZ+	112	12



- Standard
- For tight installation conditions
- Strain relief with detachable chainfix tiewrap plates
- Corrosion resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

2020, 34 PZB+ **A1**



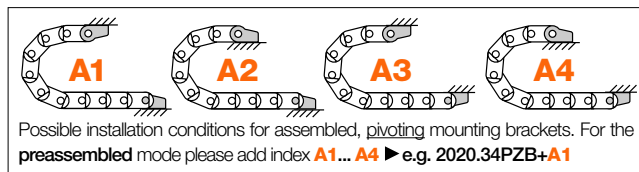
Single-part order

Mounting bracket **Moving end**

2020, 3 PZB+ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

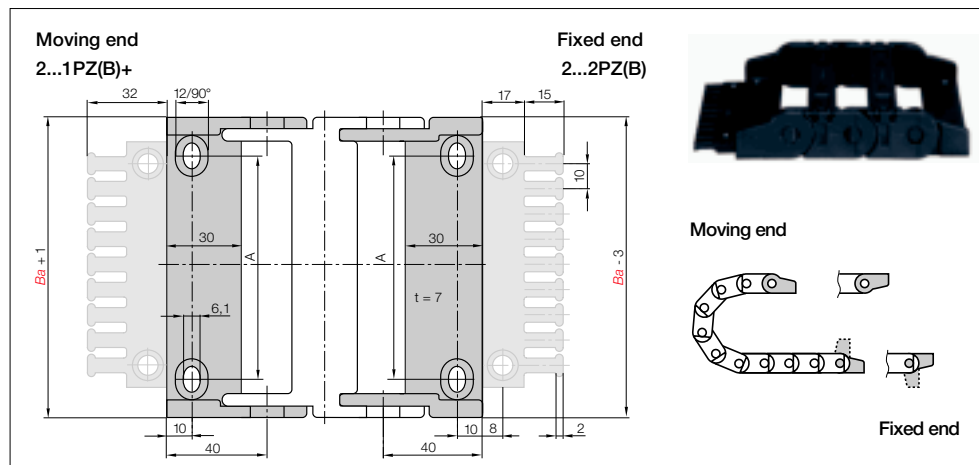
2020, 4 PZB A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

2400·2450·2480·2500 | Mounting brackets locking

For very high speed and acceleration



Polymer locking | Universal for e-chains® and e-tubes
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
.02. ▶	2020.12PZB+	2020.12PZBK1+	2020.12PZ+	12	3
.03. ▶	2030.12PZB+	2030.12PZBK1+	2030.12PZ+	25	4
.05. ▶	2050.12PZB+	2050.12PZBK1+	2050.12PZ+	44	6
.07. ▶	2070.12PZB+	2070.12PZBK1+	2070.12PZ+	64	8
.09. ▶	2090.12PZB+	2090.12PZBK1+	2090.12PZ+	77	10
.10. ▶	2100.12PZB+	2100.12PZBK1+	2100.12PZ+	90	10
.12. ▶	2125.12PZB+	2125.12PZBK1+	2125.12PZ+	112	12



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure (locking)

2020. 12PZB+ A1



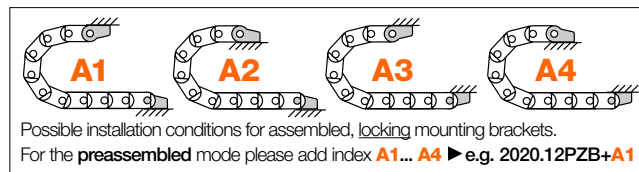
Single-part order

Mounting bracket **Moving end**

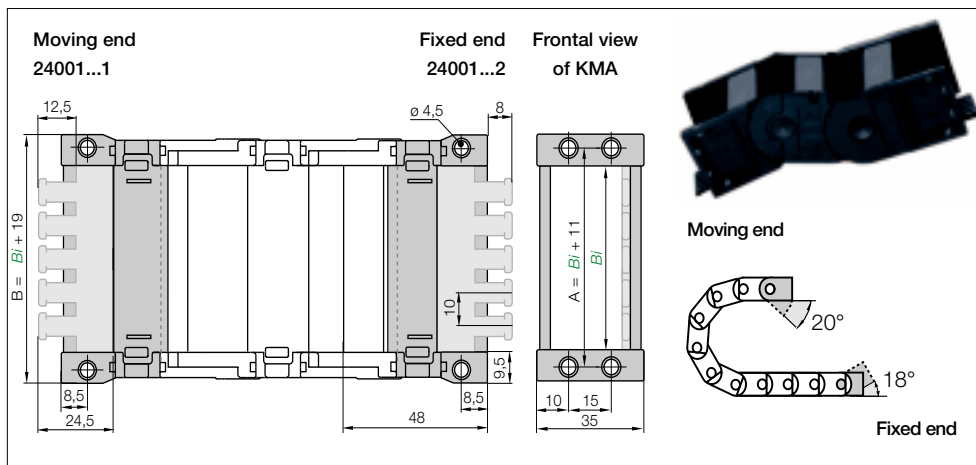
2020. 1PZB+ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2020. 2PZB A1 (preassembled + tiewrap plate)



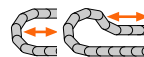
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2400-2500)

Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02. ►	24001.02.12ZB	24001.02.12	36	44	2
.03. ►	24001.03.12ZB	24001.03.12	49	57	4
.05. ►	24001.05.12ZB	24001.05.12	68	76	6
.07. ►	24001.07.12ZB	24001.07.12	88	86	7
.09. ►	24001.09.12ZB	24001.09.12	100	108	9
.10. ►	24001.10.12ZB	24001.10.12	114	122	10
.12. ►	24001.12.12ZB	24001.12.12	136	144	12



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request
(KWA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®

24001.02.12ZBA



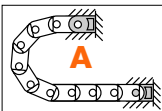
Single-part order

Mounting bracket **Moving end**

24001.02. 1ZBA (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

24001.02. 2ZBA (preassembled + tiewrap plate)

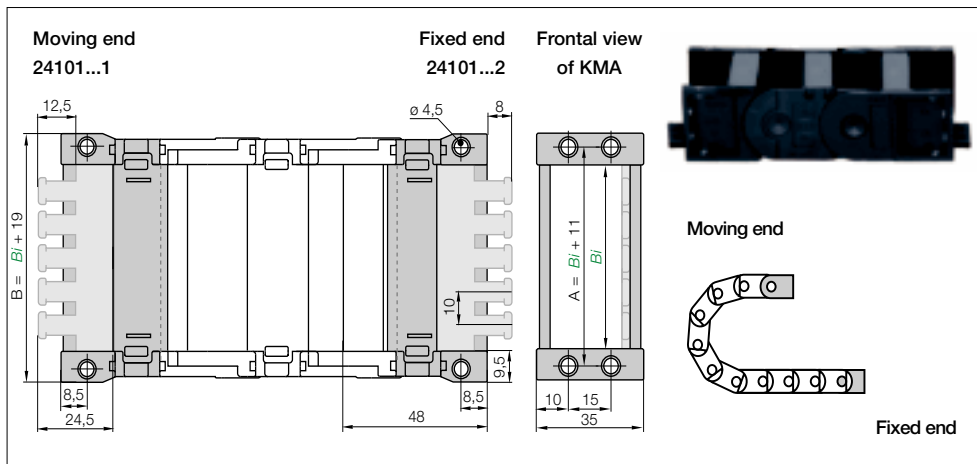


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A ► e.g. 24001. 02. 12ZBA**



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ► from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2400-2500)

Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02. ▶	24101.02.12ZB	24101.02.12	36	44	2
.03. ▶	24101.03.12ZB	24101.03.12	49	57	4
.05. ▶	24101.05.12ZB	24101.05.12	68	76	6
.07. ▶	24101.07.12ZB	24101.07.12	88	86	7
.09. ▶	24101.09.12ZB	24101.09.12	100	108	9
.10. ▶	24101.10.12ZB	24101.10.12	114	122	10
.12. ▶	24101.12.12ZB	24101.12.12	136	144	12



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-chain®

24101. 02. 12ZBA



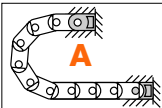
Single-part order

Mounting bracket **Moving end**

24101.02. 12ZBA (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

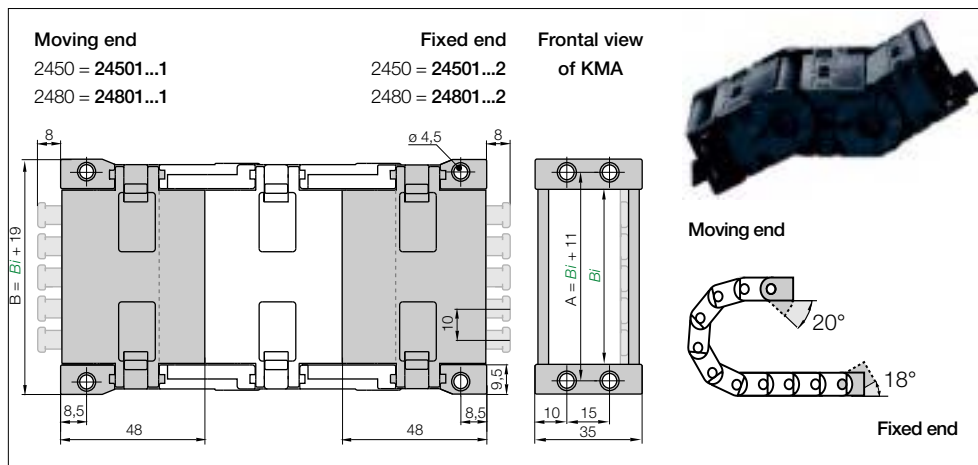
24101.02. 22ZBA (preassembled + tiewrap plate)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **24101. 02. 12ZBA**



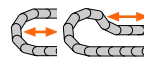
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

**KMA pivoting | All-sides attachment** - Universal for e-chains® (Series 2450-2480)

Recommended for unsupported and gliding applications

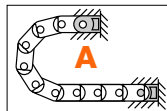
For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02. ▶	24501 24801 .02.12ZB	24501 24801 .02.12	36	44	2
.03. ▶	24501 24801 .03.12ZB	24501 24801 .03.12	49	57	4
.05. ▶	24501 24801 .05.12ZB	24501 24801 .05.12	68	76	6
.07.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

i **KMA pivoting Part No. 24501... for half e-tube Series 2450**
KMA pivoting Part No. 24801... for full e-tube Series 2480



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-tube
24501. 02. 12ZBA

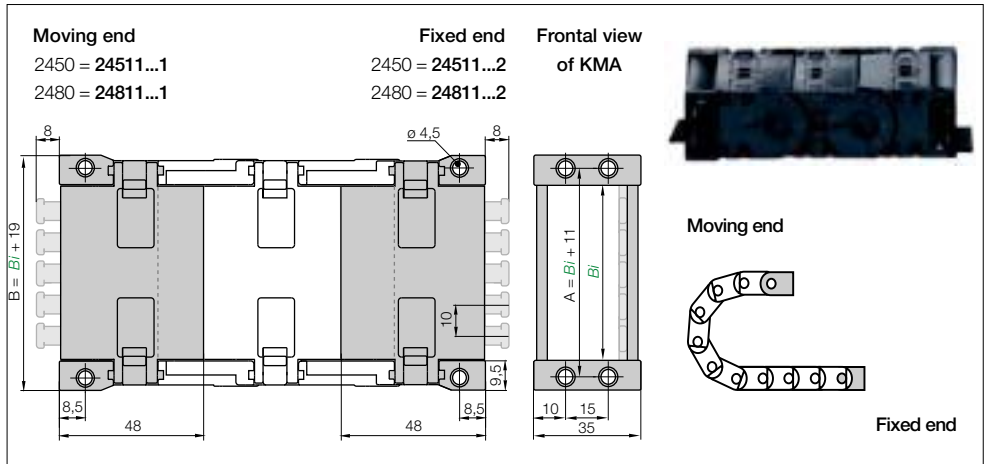
**Single-part order**Mounting bracket **Moving end****24501.02. 1ZBA** (preassembled + tiewrap plate)Mounting bracket **Fixed end****24501.02. 2ZBA** (preassembled + tiewrap plate)

These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **24501. 02. 12ZBA**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2450-2480)
Recommended for vertical hanging and standing applications

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



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

i **KMA locking Part No. 24511... for half e-tube Series 2450**
KMA locking Part No. 24811... for full e-tube Series 2480

Part No. structure (locking) - e-tube
24511. 02. 12ZBA



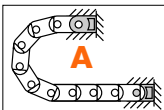
Single-part order

Mounting bracket **Moving end**

24511.02. 12ZBA (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

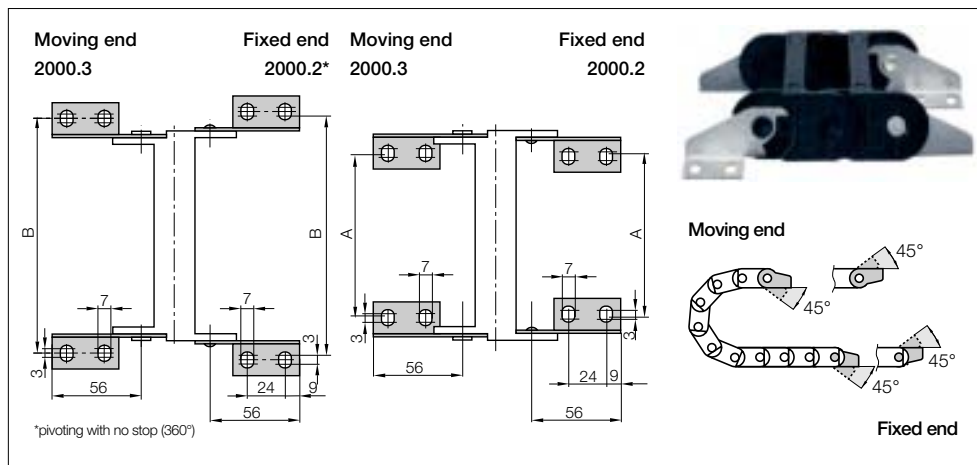
24511.02. 22ZBA (preassembled + tiewrap plate)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **24511. 02. 12ZBA**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

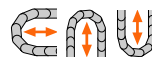
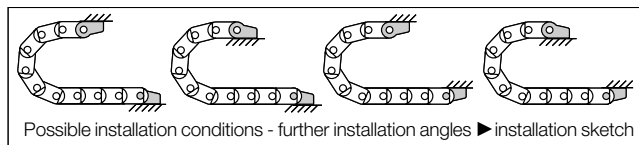


Steel pivoting | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
.02. ▶	2000.32	2000.32.E	—	60
.03. ▶	2000.32	2000.32.E	25	73
.05. ▶	2000.32	2000.32.E	44	92
.07. ▶	2000.32	2000.32.E	64	112
.09. ▶	2000.32	2000.32.E	76	124
.10. ▶	2000.32	2000.32.E	90	138
.12. ▶	2000.32	2000.32.E	112	160

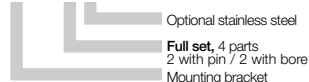
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

2000, 32.E



Single-part order

Mounting bracket **Moving end**

2020, 3 (1 part left / right)

Mounting bracket **Fixed end**

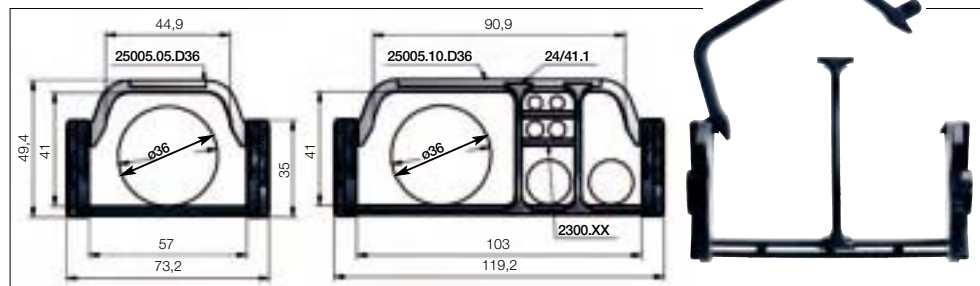
2020, 2 (1 part left / right)



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

2400·2450·2480·2500 | More options and accessories

NEW in this catalog



Extender crossbars Series 2400-2500-2450 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 36 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 25/41.1** (not for Series 2450)
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

e-chain® with extender crossbar
snap-open along outer radius,
Bi 57 mm, R 100 mm:

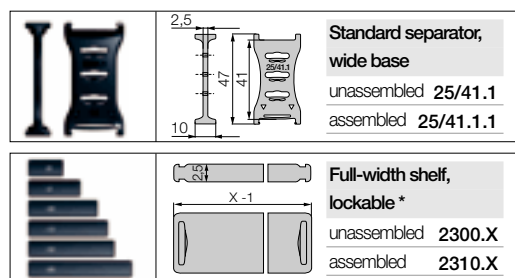
Part No. 2500.05D36.100.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]
2400.05D36.R.0	2500.05D36.R.0	2450.05D36.R.0	57	73	055* 075 100 125 150 175 200 225 250
2400.10D36.R.0	2500.10D36.R.0	2450.10D36.R.0	103	119	055* 075 100 125 150 175 200 225 250

*Radius 055 only possible with e-chains® Series 2500 !

Supplement Part No. with required radius. Example: 2500.05D36.100.0

Series 2400-2500 | Interior separation for extender crossbars (not for Series 2450)



Standard separator, wide base

unassembled 25/41.1
assembled 25/41.1.1

Standard separator, wide base

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

Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 3 levels.

Product range ► page 5.149

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

Note: Only suitable for e-chain® Series 2400/2500!

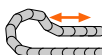
Optional: Support tray tool kit.

For support of the lower run.

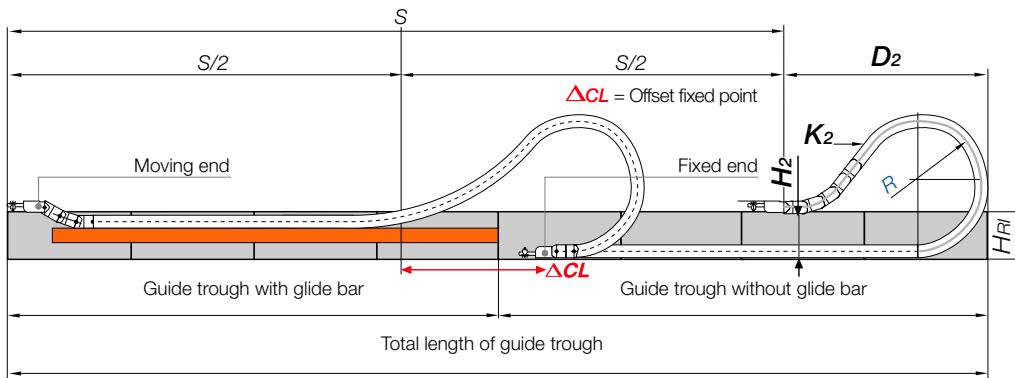
Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.011.05.1000.0** The complete range with order options ► from page 9.70



2400·2450·2480·2500 | Dimensions | Long travels

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

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 2400/2450/2480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 2500** that snaps open along the outer radius. In case of travels between 4 and 10 m we recommend a longer unsupported length. More information ► **Design, from page 1.16.**



$$\text{Pitch} = 46 \text{ mm/link} \cdot \text{Links/m} = 22 \text{ (1012 mm)} \cdot \text{Chain length} = \frac{S}{2} + K$$

R	055*	075	100	125	150	175	200	225	250
H ₂	110	150	100	100	100	100	100	100	100
D ₂ +25	142	162	380	440	590	755	950	1040	1130
K ₂	265	330	644	736	1012	1242	1472	1610	1794
ΔCL	-	-	204	244	364	504	674	754	804

*for Series 2450/2480 upon request. Before using Series 2400/2450/2480 on long travels please consult igus®.

More details | For long travel applications

autoglide 2400.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

$v_{\max}$ 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

$v_{\max}$ 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

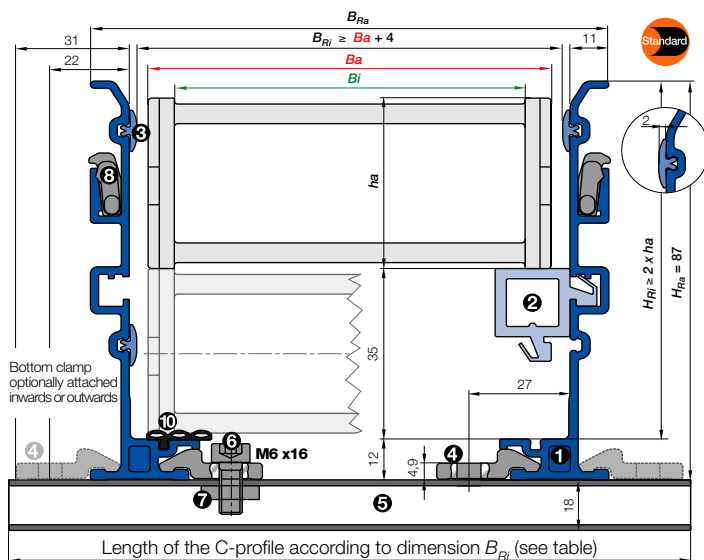
ΔCL = Offset fixed point
H_{Ri} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Part No. 971.30 | 971.31 | Trough height: 87 mm

Aluminum "SuperTrough" | Basic Version

2400
2450
2480
2500



● **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber ● **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M6 x 16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic

Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

2500.05.200.0 ► Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.02 45	–	960.30.150
.03 58	–	960.30.150
.05 77	960.30.125	960.30.175
.07 97	960.30.150	960.30.200
.09 109	960.30.175	960.30.225
.10 123	960.30.175	960.30.225
.12 145	960.30.200	960.30.250

Insert for the installation set "Heavy-Duty":
971.50.XXX instead of **960.30.XXX** on
the right column "attached outwards"

Order example: Length of travel 30 m -
Center mounted for Series 2500.05.200.0 with $B_{Ri} = 77$

Guide trough set **without** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 971.30.SL**

Guide trough set **with** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 971.31.SL**

Installation set "Basic" complete (guide trough-sets + 1)

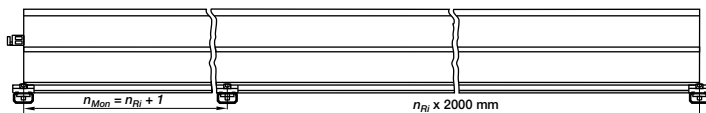
Order text: 17 installation sets **Part No. 960.30.125**

Module for the fixed end ► page 9.16

Order text: 1 set **Part No. 971.80**

Option: For an additional noise dampening

with silencer profile, please add Index **A** - Example: **Part No. 971.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1

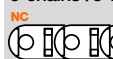
Details about Alu "SuperTrough" and the
"Heavy Duty" version for heavy machinery ► from page 9.24

- Trough set
- Installation set
- Glide bar
- C-Profile
- Ba** = Outer width e-chains
- Bi** = Inner width e-chains
- B_{Ri} = Inner trough width
- B_{Ra} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- n_{Ri} = Number of installation sets
- n_{Ri} = Number of trough sets

2400-2450-2480-2500 | Options and order key



Standard

Additional noise
dampening
with padsNC-Version -
(no camber)
without pretensionReverse bending
radius for circular
movementsPart No.
Standard
e-chains®/e-tubesPart No.
Low noise (with pads)
e-chains®/e-tubesPart No.
NC-Material
e-chains®/e-tubesPart No.
RBR
e-chains®/e-tubes

2400.03.R.0

e-chain* snap-open along inner radius*

S2400.03.R.0

e-chain* snap-open along inner radius*

2400.03.R.0.NC

e-chain* snap-open along inner radius*

2400.03.R1/R2.0

e-chain* snap-open along inner radius*

2500.03.R.0

e-chain* snap-open along outer radius

S2450.03.R.0

Half e-tube snap-open along inner radius*

2500.03.R.0.NC

e-chain* snap-open along outer radius

2500.03.R1/R2.0

e-chain* snap-open along outer radius

2450.03.R.0

Half e-tube snap-open along inner radius*

S2480.03.R.0

e-tube snap-open along inner radius*

2450.03.R.0.NC

Half e-tube snap-open along inner radius*

2450.03.R1/R2.0**

Half e-tube snap-open along inner radius*

2480.03.R.0

e-tube snap-open along inner radius*

2480.03.R.0.NC

e-tube snap-open along inner radius*

2480.03.R1/R2.0**

e-tube snap-open along inner radius*

Delivery time
24h or today!*Delivery time:
3-5 work daysDelivery time:
3-5 work daysDelivery time:
10 work days(2-5 work days at an
express surcharge) **upon request

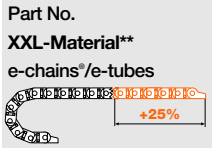
Combination possibilities | Examples

	Low-noise option	NC- Version	RBR- Version	XXL- Material	HT- Material*	ESD- Material
Low-noise option		S2400.03.R.0.NC	–	S2400.03.R.0.XXL	S2480.03.R.0.HT	S2400.03.R.0.ESD
NC- Version	S2400.03.R.0.NC		–	–	2480.30.R.0.HT.NC	2400.03.R.0.ESD.NC
RBR- Version	–	–		–	2480.03.R1/R2.0.HT	2400.03.R1/R2.0.ESD
XXL- Material	S2400.03.R.0.XXL	–	–		–	–
HT- Material*	S2480.03.R.0.HT	2480.30.R.0.HT.NC	2480.30.R1/R2.0.HT	–		–
ESD- Material	S2400.03.R.0.ESD	2400.03.R.0.ESD.NC	2400.03.R1/R2.0.ESD	–	–	

*for gliding applications please consult igus®

2400·2450·2480·2500 | Options and order key

Unsupported
lengths +25%
possible



2400.03.R.0.XXL

e-chain* snap-open along inner radius*

2500.03.R.0.XXL

e-chain* snap-open along outer radius

2450.03.R.0.XXL

Half e-tube snap-open along inner radius*

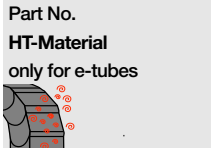
2480.03.R.0.XXL

e-tube snap-open along inner radius*

Delivery time:
1-2 weeks

**Lower part made of XXL-Material

No burning-in of
hot chips up to
850°C (1562° F)



2480/2450.03.R.0.HT

Complete e-tube**

2480/2450.03.HT.R.0

Bottom only

Delivery time:
10 work days

ATEX / ESD
classified e-chains®



2400.03.R.0.ESD

e-chain* snap-open along inner radius*

2500.03.R.0.ESD

e-chain* snap-open along outer radius

2450.03.R.0.ESD

Half e-tube snap-open along inner radius*

2480.03.R.0.ESD

e-tube snap-open along inner radius*

Delivery time:
5 work days

*for gliding applications
please consult igus®

Order example | Order key and color options



**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 22 links **2500.03.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **2100.34PZB+**

+ Interior separation with 2 separators assembled every 2nd link **2 x 211**

Order text: 1,0 m 2500.03.100.0 + 2100.34PZB + 2 x Part No. 211



Order key
2500.03.100.0



Black e-chains* from stock!

*Colored e-chains delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

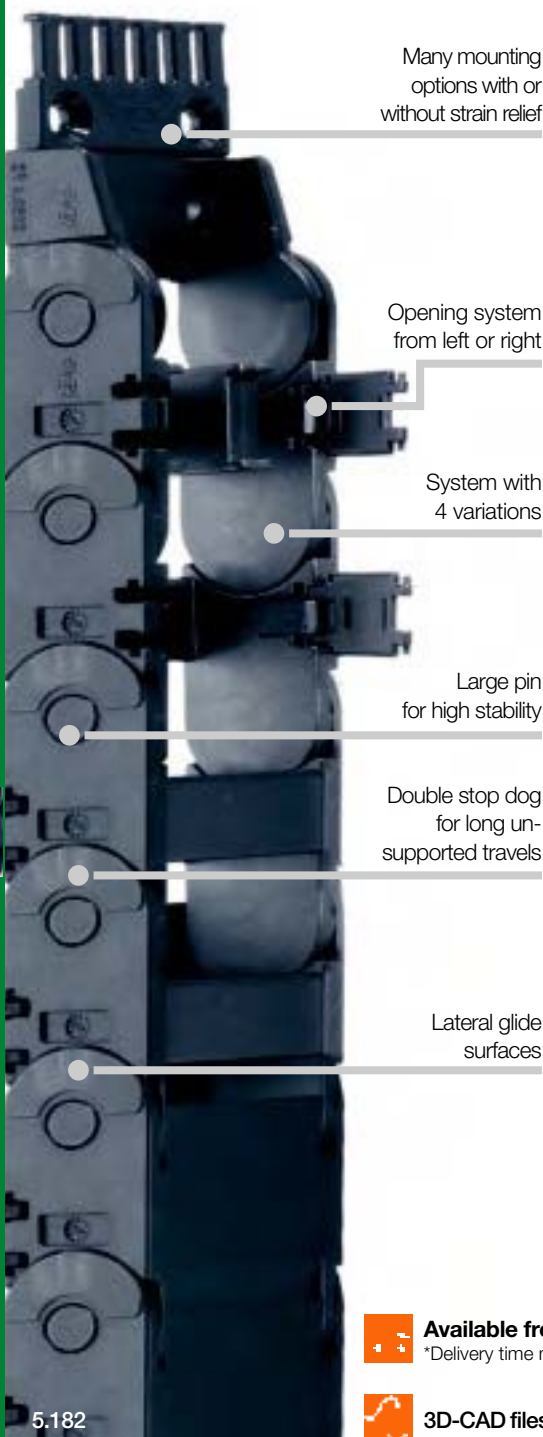
Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains*
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Large pin for high stability

Double stop dog for long unsupported travels

Lateral glide surfaces

Optimal height, high stability

When to use Series 2600-2650-2680-2700:

- If a medium-sized, stable system with an inner height of 35 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 175 mm are required
- For unsupported lengths up to 2,70 m and fill weights up to 8,0 kg/m
- For long travels up to 120 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
▶ **System E4.1, Series E4.32, page 7.42**
- For simple applications and easy filling
▶ **easy chain®, Series E26, page 3.46**
- If e-tubes with smaller bending radii are required
▶ **e-tubes E2, Series R58, page 6.34**



Open E2/000 e-chains® in a flash with the e-chain® opener ▶ page 5.136

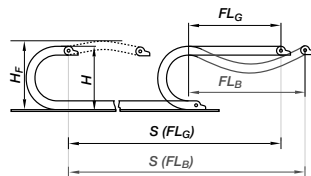
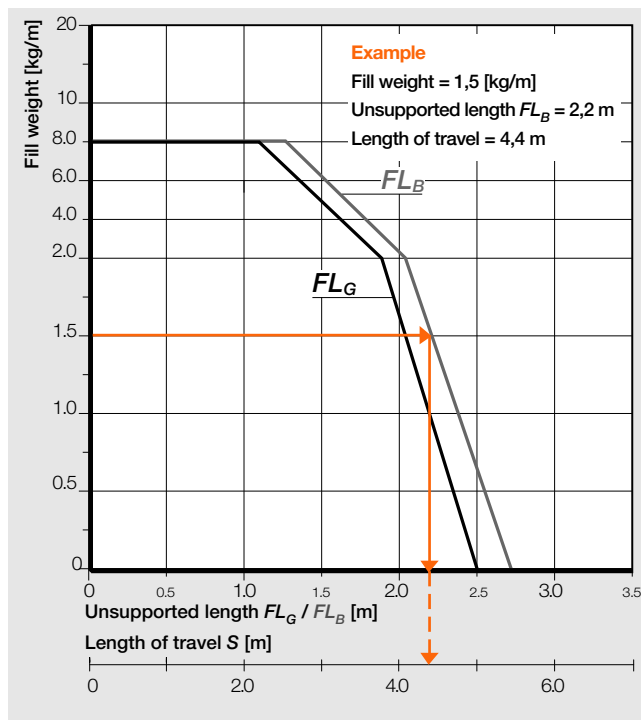


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000



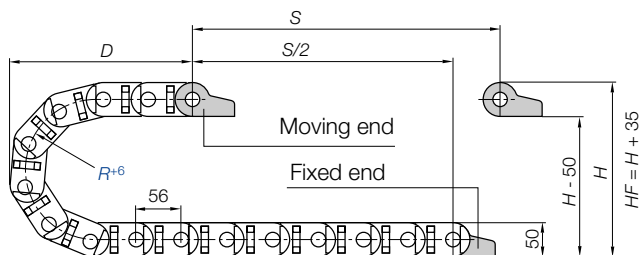
Standard Unsupported applications

Unsupported e-chains* feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► **Design, page 1.8**

Gliding applications

Long travels up to 120 m.

More information ► **page 5.200**



Technical Data

Speed, material, temperature and flammability class ► **page 5.140**

Pitch = 56 mm/link
Links/m = 18 (1008 mm)
Chain length = $S/2 + K$

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: $H_F = H + 35$ mm (with 2,0 kg/m fill weight)

*for Series 2650/2680 upon request. Before using Series 2600/2650/2680 on long travels please consult igus®.

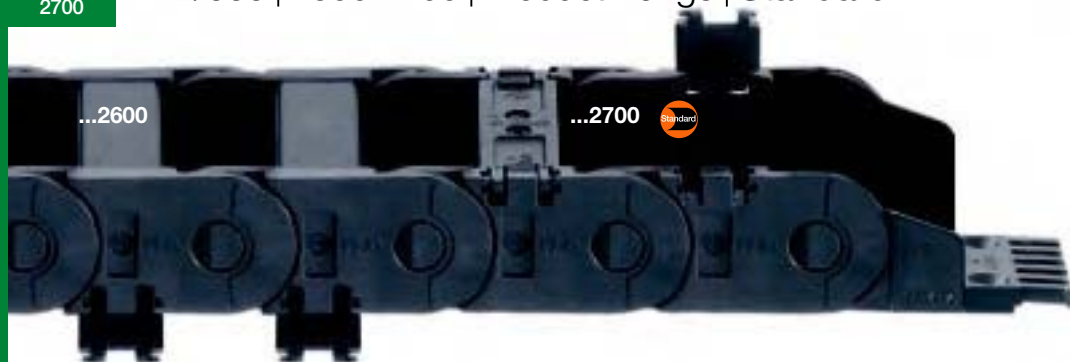


FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain*, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



e-chains® | Series 2600 snap-open along inner radius
e-chains® | Series 2700 snap-open along outer radius | **Standard**

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius	 Bi [mm]	Ba [mm]	R Bending radii [mm]	2600 [kg/m]	2700 [kg/m]
2600. 05 .R.0	2700. 05 .R.0	50	66	063* 075* 100 125 150 175 200 250	≈ 1,17	≈ 1,17
2600. 06 .R.0	2700. 06 .R.0	65	81	063* 075* 100 125 150 175 200 250	≈ 1,24	≈ 1,24
2600. 07 .R.0	2700. 07 .R.0	75	91	063* 075* 100 125 150 175 200 250	≈ 1,30	≈ 1,30
2600. 09 .R.0	2700. 09 .R.0	90	106	063* 075* 100 125 150 175 200 250	≈ 1,37	≈ 1,37
2600. 10 .R.0	2700. 10 .R.0	100	116	063* 075* 100 125 150 175 200 250	≈ 1,39	≈ 1,39
2600. 12 .R.0	2700. 12 .R.0	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

Supplement Part No. with required radius. Example: **2700.05.100.0**

When to use Series 2600: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ► page 9.90). **When to use Series 2700:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.

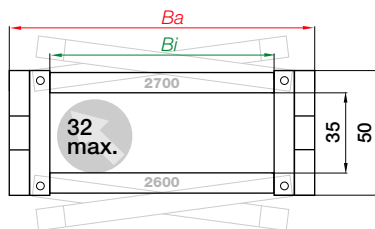


Order key

2600. 05. 100. 0 e-chain®

2700. 05. 100. 0 e-chain®

- Standard color black
- Bending radius **R**
- Width index (depends on **Bi**)
- Series / Type



2600.05.100.0 = e-chain® snap-open along inner radius, **Bi** 50 mm inner width, **R** 100 mm radius, color black

2700.05.100.0 = e-chain® snap-open along outer radius, **Bi** 50 mm inner width, **R** 100 mm radius, color black

More order examples and configuration options ► page 5.202

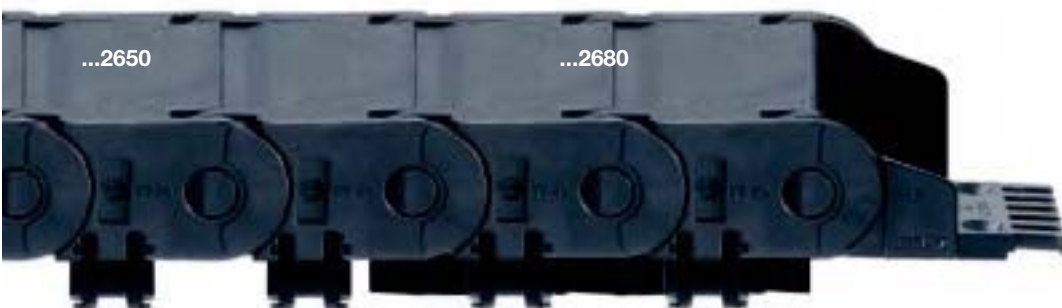


Part No. of e-chain® links as single parts ► page 5.141



Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Half e-tubes | Serie 2650 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 2680 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	2650 [kg/m]	2680 [kg/m]
2650. 05 . <i>R</i> .0	2680. 05 . <i>R</i> .0	50	66	063* 075* 100 125 150 175 200 250	≈ 1,25	≈ 1,33
2650. 06 . <i>R</i> .0	2680. 06 . <i>R</i> .0	65	81	063* 075* 100 125 150 175 200 250	≈ 1,36	≈ 1,43
2650. 07 . <i>R</i> .0	2680. 07 . <i>R</i> .0	75	91	063* 075* 100 125 150 175 200 250	≈ 1,40	≈ 1,51
2650. 09 . <i>R</i> .0	2680. 09 . <i>R</i> .0	90	106	063* 075* 100 125 150 175 200 250	≈ 1,55	≈ 1,62
2650. 10 . <i>R</i> .0	2680. 10 . <i>R</i> .0	100	116	063* 075* 100 125 150 175 200 250	≈ 1,61	≈ 1,81
2650. 12 . <i>R</i> .0	2680. 12 . <i>R</i> .0	125	141	063* 075* 100 125 150 175 200 250	≈ 1,70	≈ 1,99
2650. 15 . <i>R</i> .0	2680. 15 . <i>R</i> .0	150	166	063* 075* 100 125 150 175 200 250	≈ 1,80	≈ 2,17
2650. 17 . <i>R</i> .0**	2680. 17 . <i>R</i> .0**	175	194	063* 075* 100 125 150 175 200 250	≈ 2,00	≈ 2,35

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 2650/2680 available upon request. Delivery time approx. 1-2 weeks after order.

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

Supplement Part No. with required radius. Example: **2650.05.100.0**

When to use Series 2650: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®. **When to use Series 2680:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

2650.05.100.0 Half e-tube

2680.05.100.0 Full e-tube

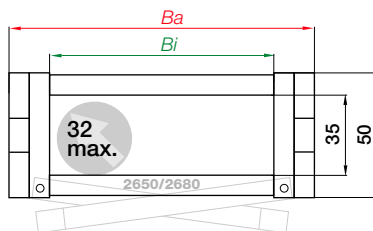


Standard color black

Bending radius *R*

Width index (depends on *Bi*)

Series / Type



2650.05.100.0 = Half e-tube snap-open along inner radius, *Bi* 50 mm inner width, *R* 100 mm radius, color black

2680.05.100.0 = Full e-tube snap-open along inner radius, *Bi* 50 mm inner width, *R* 100 mm radius, color black

More order examples and configuration options ► page 5.202



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. Delivery in 24h or today.*

*Delivery time means time until shipping of goods

...-5 dB(A)

depends on environmental conditions,
similar to figure



Noise dampening | Noise reduction ≈ 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	R Bending radii [mm]	Bi [mm]
S2600.05	S2650.05	S2680.05 .R.0	063* 075* 100 125 150 175 200 250	50
S2600.06	S2650.06	S2680.06 .R.0	063* 075* 100 125 150 175 200 250	65
S2600.07	S2650.07	S2680.07 .R.0	063* 075* 100 125 150 175 200 250	75
S2600.09	S2650.09	S2680.09 .R.0	063* 075* 100 125 150 175 200 250	90
S2600.10	S2650.10	S2680.10 .R.0	063* 075* 100 125 150 175 200 250	100
S2600.12	S2650.12	S2680.12 .R.0	063* 075* 100 125 150 175 200 250	125
S2600.15	S2650.15	S2680.15 .R.0	063* 075* 100 125 150 175 200 250	150
S2600.17	S2680.17**	S2680.17** .R.0	063* 075* 100 125 150 175 200 250	175

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 2650/2680 available upon request. Delivery time approx. 1-2 weeks after order.

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

Supplement Part No. with required radius. Example: **S2600.05.100.0**



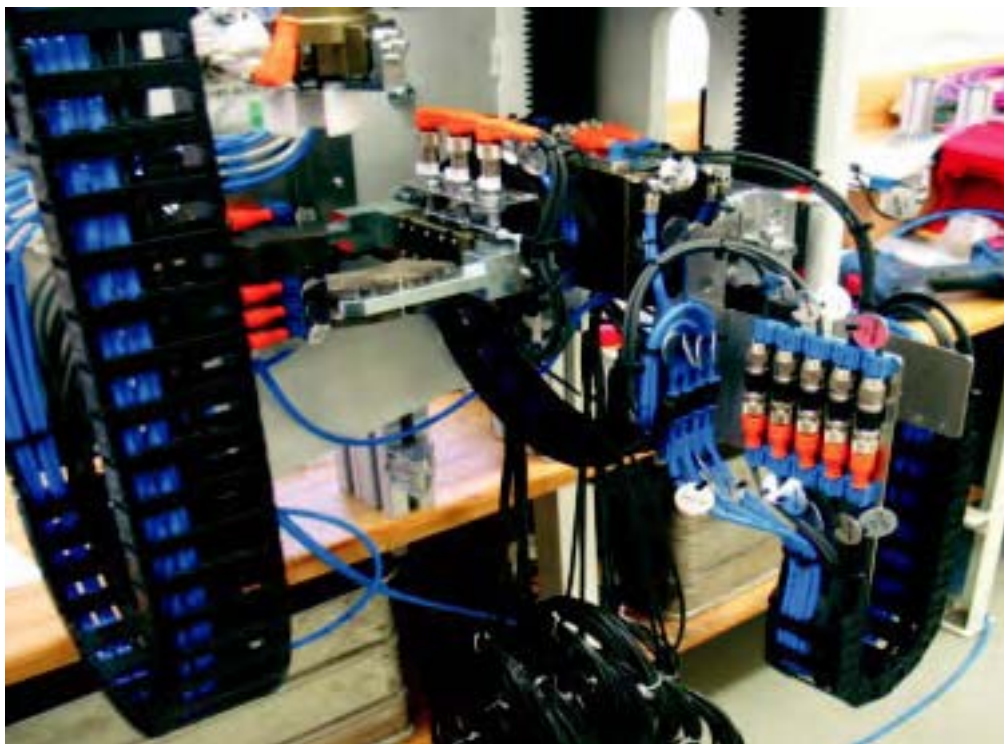
For e-chains® with noise dampening pads supplement Part No. with required index "**S**"

Example: Part No. **S2600.05.100.0** = e-chain® snap-open along inner radius with noise dampening pads

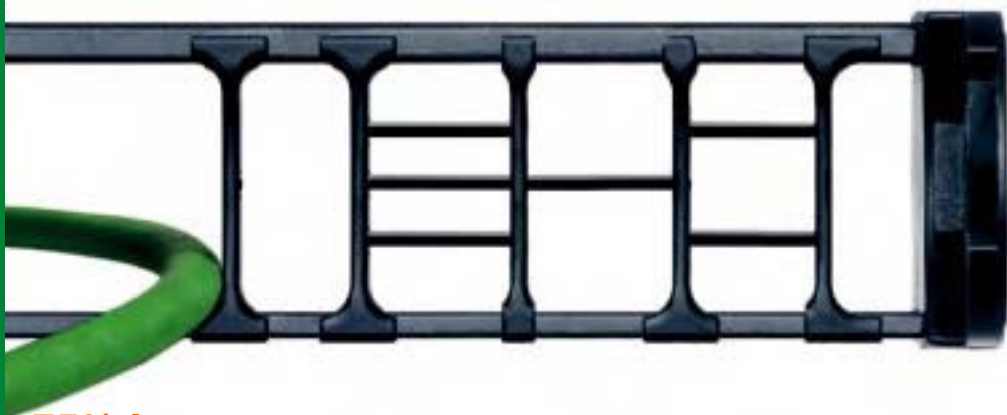


e-chain® with noise dampening pads - Delivery time 3-5 work days.

*Delivery time means time until shipping of goods

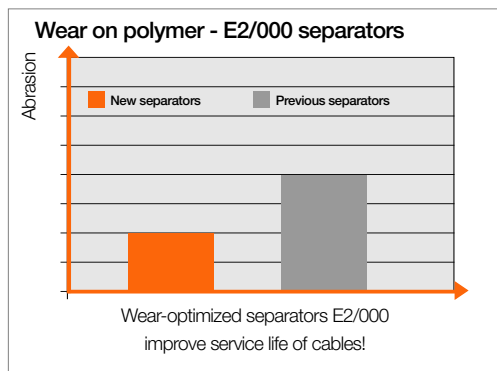


E2/000 - dirt-unsensible e-chain® which saves installation space. Machine tool for workpieces pictured here



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



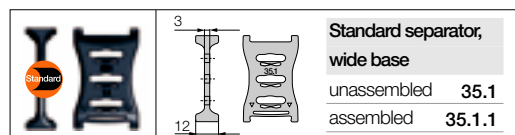
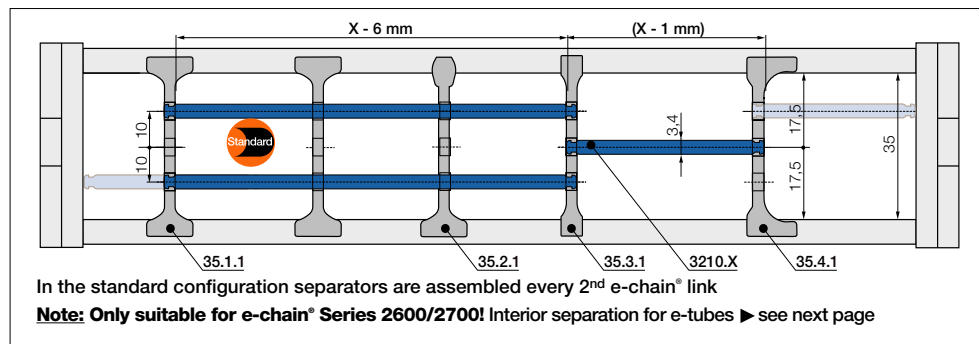
- ① Standard separator, wide base - Part No. 35.1 ③ Separator, narrow base - Part No. 35.3 ⑤ Full-width shelf, lockable* - Part No. 3200.XX
 ② Separator with narrow head - Part No. 35.2 ④ Separator, asymmetrical - Part No. 35.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery time 24h or today.*

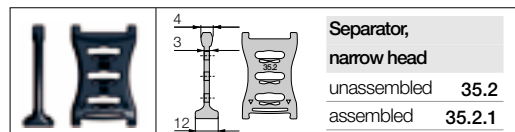
*Delivery time means time until shipping of goods

New generation of interior separation



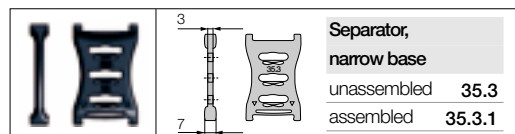
Standard - for all applications

Separator with a wide base for maximum locking strength and safe standing in e-chains®.



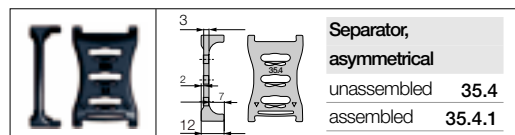
For even faster installation

Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



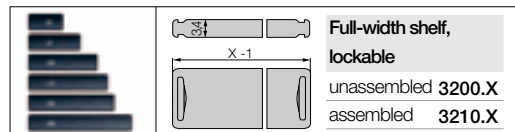
For many thin cables

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



For side-mounted applications

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



Horizontal separation

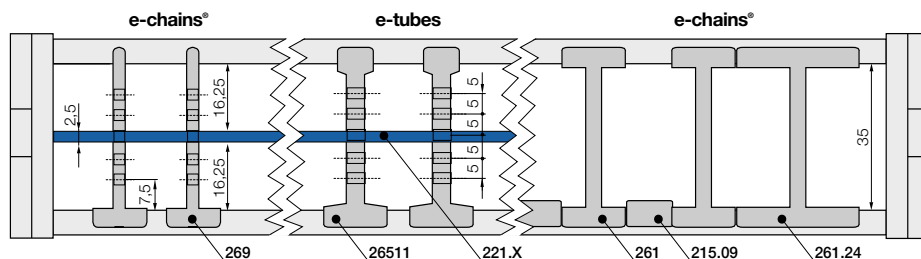
Full-width shelf locks safely into separators on both ends, fixed width possible. To be used as full-width shelf for a consequent subdivision or as shelf for a pattern system in 3 levels.

*Available upon request. Delivery time approx. 1-2 weeks after intake of order

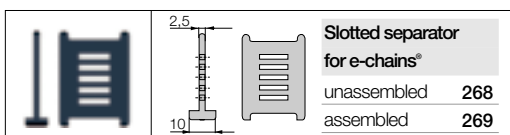


Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	3200.050	3210.050	115	3200.115	3210.115	175	3200.175	3210.175
075	3200.075	3210.075	125	3200.125	3210.125			
100	3200.100	3210.100	150	3200.150	3210.150			

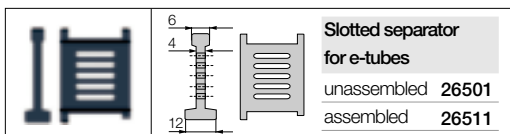


Separators, spacers, full-width shelves - In the standard configuration separators are assembled every 2nd e-chain® link!



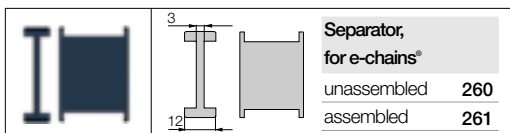
Slotted separator 268 (e-chains® only)

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



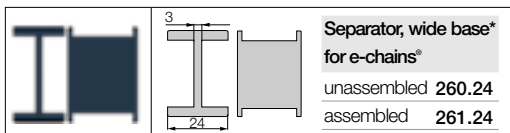
Slotted separator 26501 (e-tubes only)

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator 260 (e-chains® only)

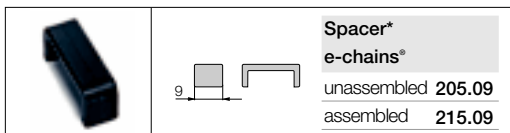
For a simple vertical subdivision on e-chains®.



Separator, wide base* 260.24 (e-chains® only)

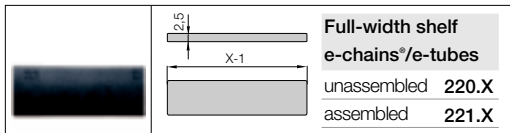
If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)



Spacer* 205.09 (e-chains® only)

Separators can be fixed in position. Only mountable onto the fixed crossbar. (*for side-mounted applications)



Full-width shelf 220.X (e-chains® and e-tubes)

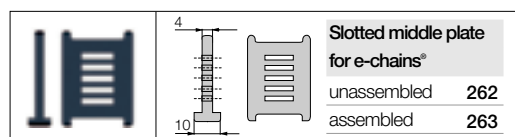
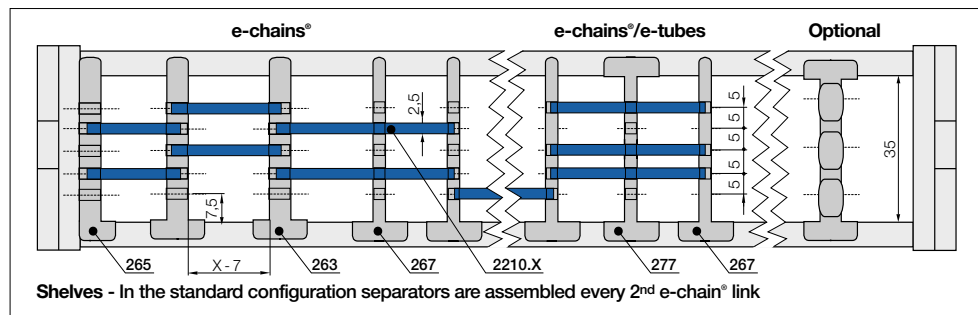
This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	220.50	221.50	090	220.90	221.90	150	220.150	221.150
065	220.65	221.65	100	220.100	221.100	175	220.175	221.175
075	220.75	221.75	125	220.125	221.125			

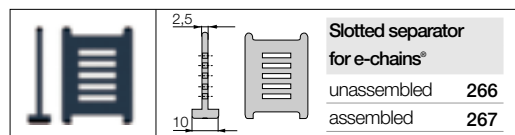
2600·2650·2680·2700 | Interior separation | Options

Previous interior separation



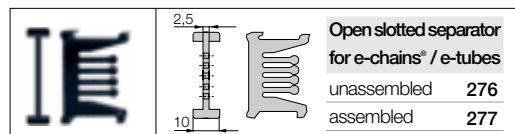
Middle plate 262 (e-chains® only)

To achieve a modular shelving by shelf 2200.X arranged at 5 different heights (in 5 mm increments)



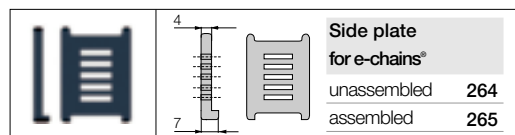
Slotted separator 266 (e-chains® only)

For a very fine subdivision. No retrofitting into an existing separation system without dismantling the interior separators first.



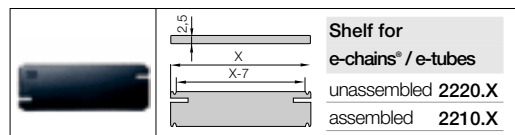
Open slotted separator 276 (e-chains® and e-tubes)

Quick assembly - retrofitting into an existing interior separation system without dismantling.



Side plate 264 (e-chains® only)

Works like middle plate.
Allows modular shelving close to the side links.

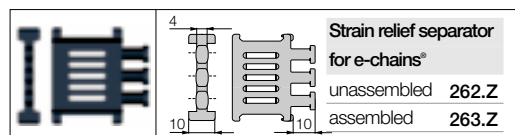


Shelf 2200.X (e-chains® and e-tubes)

For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 5 different heights (in 5 mm increments).

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	043	2200.43	2210.43	088	2200.88	2210.88
023	2200.23	2210.23	048	2200.48	2210.48	099	2200.99	2210.99
028	2200.28	2210.28	058	2200.58	2210.58	124	2200.124	2210.124
033	2200.33	2210.33	068	2200.68	2210.68	149	2200.149	2210.149
038	2200.38	2210.38	073	2200.73	2210.73			



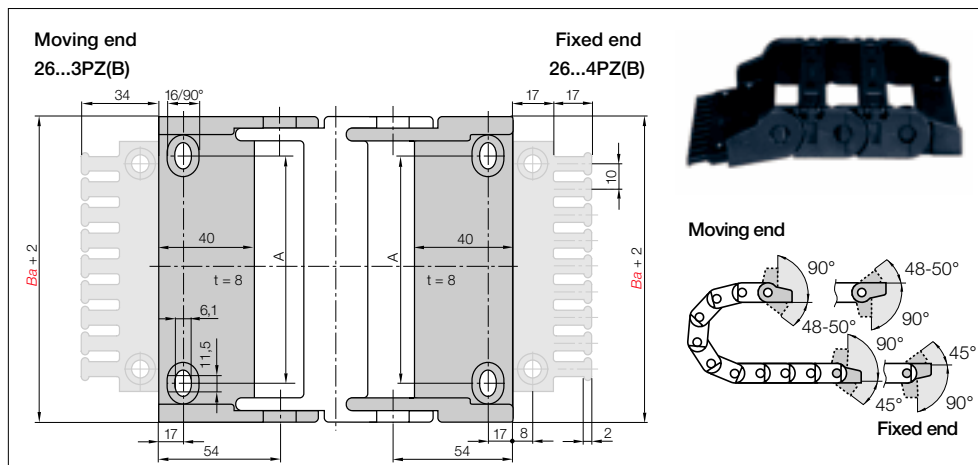
Additional elements for interior separation

Strain relief separator 262.Z (e-chains® only)

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

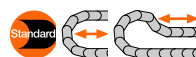
2600·2650·2680·2700 | Mounting brackets **pivoting**

For tight installation conditions



Polymer pivoting | Standard - Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
05. ▶	2605.34PZB	2605.34PZBK1	2605.34PZ	30	5
06. ▶	2606.34PZB	2606.34PZBK1	2606.34PZ	45	5
07. ▶	2607.34PZB	2607.34PZBK1	2607.34PZ	55	7
09. ▶	2609.34PZB	2609.34PZBK1	2609.34PZ	70	9
10. ▶	2610.34PZB	2610.34PZBK1	2610.34PZ	80	10
12. ▶	2612.34PZB	2612.34PZBK1	2612.34PZ	105	12
15. ▶	2615.34PZB	2615.34PZBK1	2615.34PZ	130	15
17. ▶	2617.34PZB	2617.34PZBK1	2617.34PZ	155	17



- Standard
- For tight installation conditions
- Strain relief with detachable chainfix tiewrap plates
- Corrosion resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

2605, 34 PZB A1



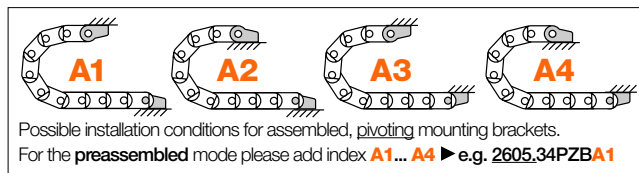
Single-part order

Mounting bracket **Moving end**

2605, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

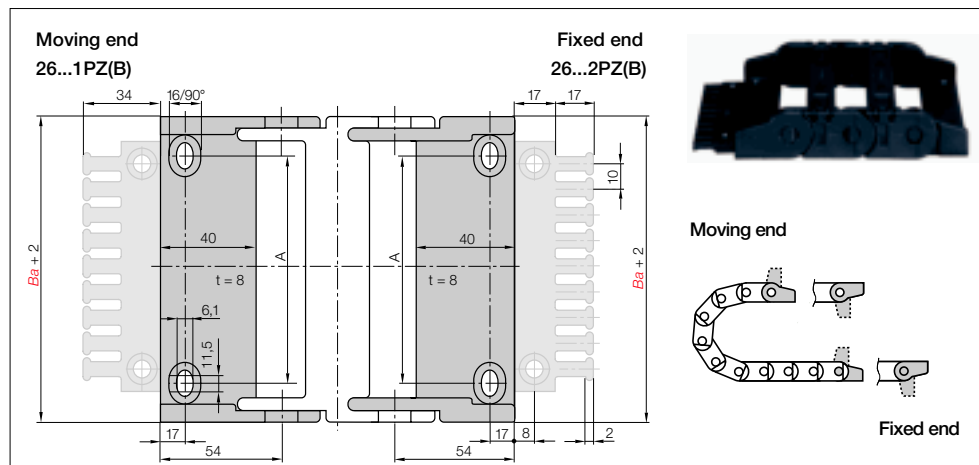
2605, 4 PZB A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

2600·2650·2680·2700 | Mounting brackets locking

For very high speed and acceleration



Polymer locking | Universal for e-chains® and e-tubes
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
05. ▶	2605.12PZB	2605.12PZBK1	2605.12PZ	30	5
06. ▶	2606.12PZB	2606.12PZBK1	2606.12PZ	45	5
07. ▶	2607.12PZB	2607.12PZBK1	2607.12PZ	55	7
09. ▶	2609.12PZB	2609.12PZBK1	2609.12PZ	70	9
10. ▶	2610.12PZB	2610.12PZBK1	2610.12PZ	80	10
12. ▶	2612.12PZB	2612.12PZBK1	2612.12PZ	105	12
15. ▶	2615.12PZB	2615.12PZBK1	2615.12PZ	130	15
17. ▶	2617.12PZB	2617.12PZBK1	2617.12PZ	155	17



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure (locking)

2605. 12 PZB A1



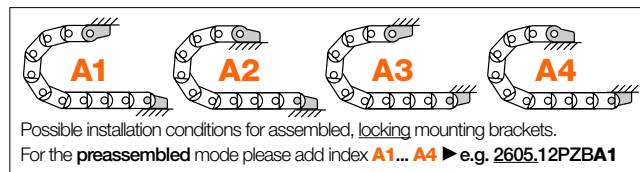
Single-part order

Mounting bracket **Moving end**

2605. 1 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

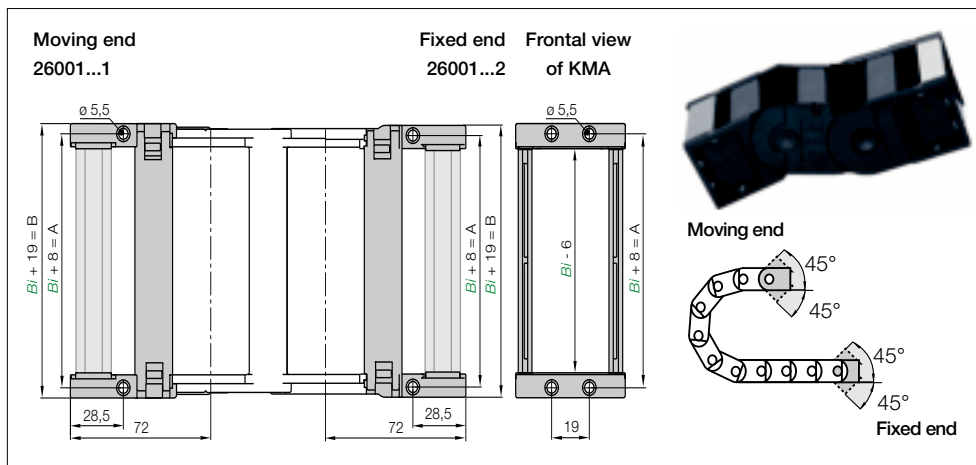
2605. 2 PZB A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

e-chains® | 2600·2700 | KMA mounting brackets **pivoting**

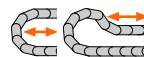
For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2600·2700)
Recommended for unsupported and gliding applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05. ▶	26001.05.12.C	26001.05.12	58	69
06. ▶	26001.06.12.C	26001.06.12	73	84
07. ▶	26001.07.12.C	26001.07.12	83	94
09. ▶	26001.09.12.C	26001.09.12	98	109
10. ▶	26001.10.12.C	26001.10.12	108	119
12. ▶	26001.12.12.C	26001.12.12	133	144
15. ▶	26001.15.12.C	26001.15.12	158	169
17. ▶	26001.17.12.C	26001.17.12	183	194

KMA pivoting to one side: **Moving end 26101...3 / Fixed end 26101...4**



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®

26001. 05. 12.C A



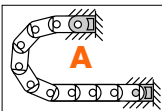
Single-part order

Mounting bracket **Moving end**

26001. 05. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26001. 05. 2.C A (preassembled + C-profile)

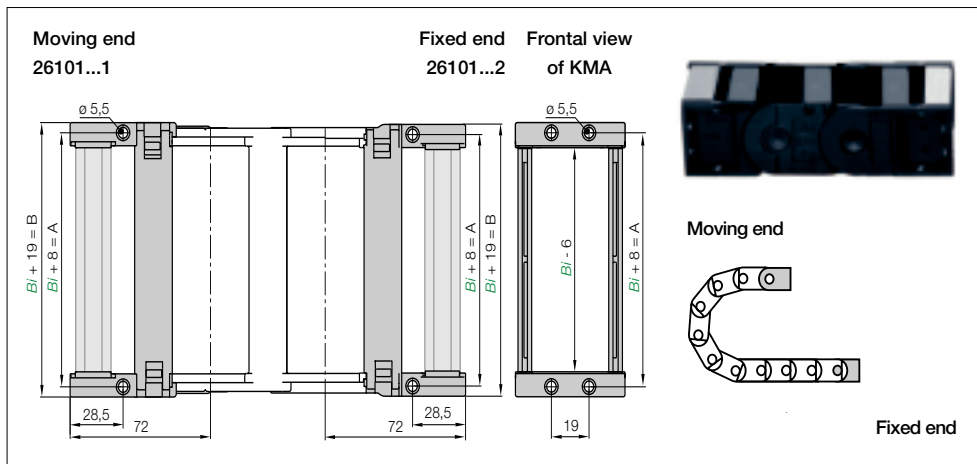


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **26001.05.12.C A**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2600-2700)

Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05. ▶	26101.05.12.C	26101.05.12	58	69
06. ▶	26101.06.12.C	26101.06.12	73	84
07. ▶	26101.07.12.C	26101.07.12	83	94
09. ▶	26101.09.12.C	26101.09.12	98	109
10. ▶	26101.10.12.C	26101.10.12	108	119
12. ▶	26101.12.12.C	26101.12.12	133	144
15. ▶	26101.15.12.C	26101.15.12	158	169
17. ▶	26101.17.12.C	26101.17.12	183	194



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-chain®

26101. 05. 12.C A



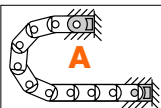
Single-part order

Mounting bracket **Moving end**

26101. 05. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26101. 05. 2.C A (preassembled + C-profile)



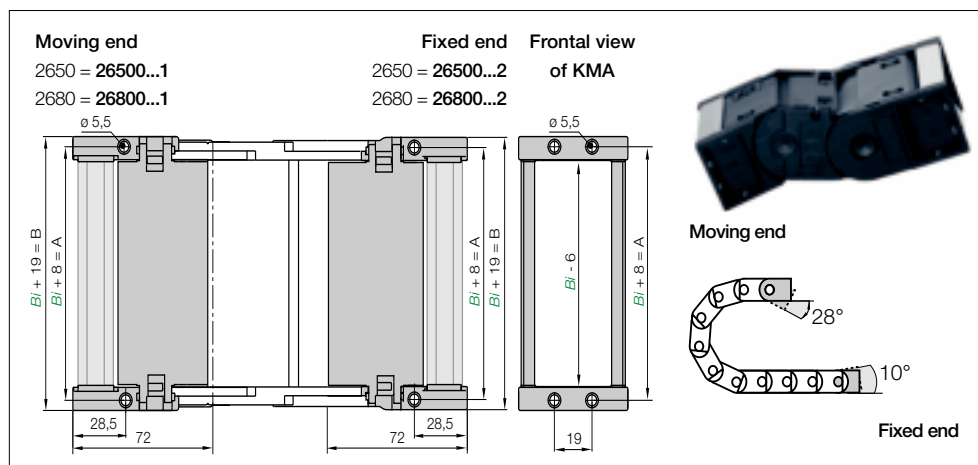
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **26101.05.12.C A**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

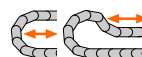
e-tubes | 2650-2680 | KMA mounting brackets **pivoting**

For tight installation conditions, all-sides attachment

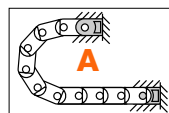
**KMA pivoting | All-sides attachment** - Universal for e-chains® (Series 2650-2680)

Recommended for unsupported and gliding applications

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

i **KMA pivoting Part No. 26500... for half e-tube Series 2650****KMA pivoting Part No. 26800... for full e-tube Series 2680**

- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

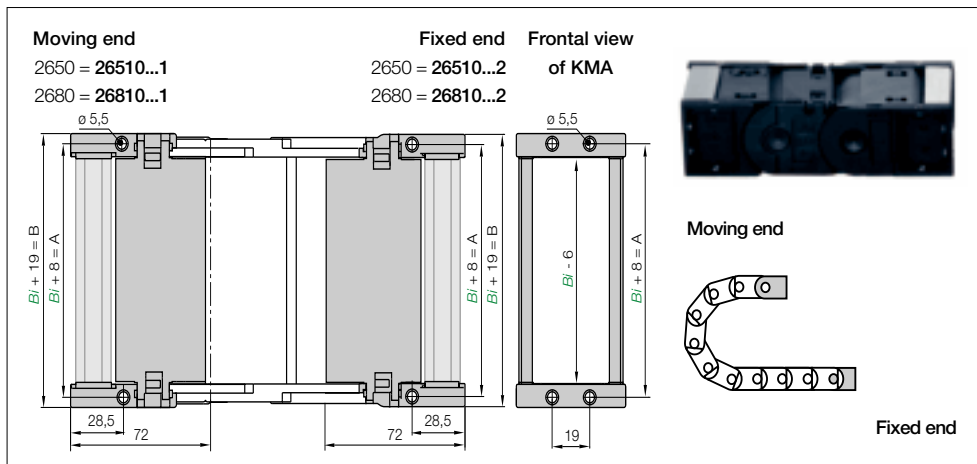
Part No. structure (pivoting) - e-tube**26500. 05. 12.C A****Single-part order**Mounting bracket **Moving end****26500. 05. 1.C A** (preassembled + C-profile)Mounting bracket **Fixed end****26500. 05. 1.C A** (preassembled + C-profile)

These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **26500.05.12.CA**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2650-2680)
Recommended for vertical hanging and standing applications

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



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

i **KMA locking Part No. 26510... for half e-tube Series 2650**
KMA locking Part No. 26810... for full e-tube Series 2680

Part No. structure (locking) - e-tube

26510. 05. 12.C A



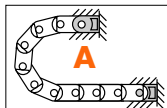
Single-part order

Mounting bracket **Moving end**

26510. 05. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26510. 05. 2.C A (preassembled + C-profile)

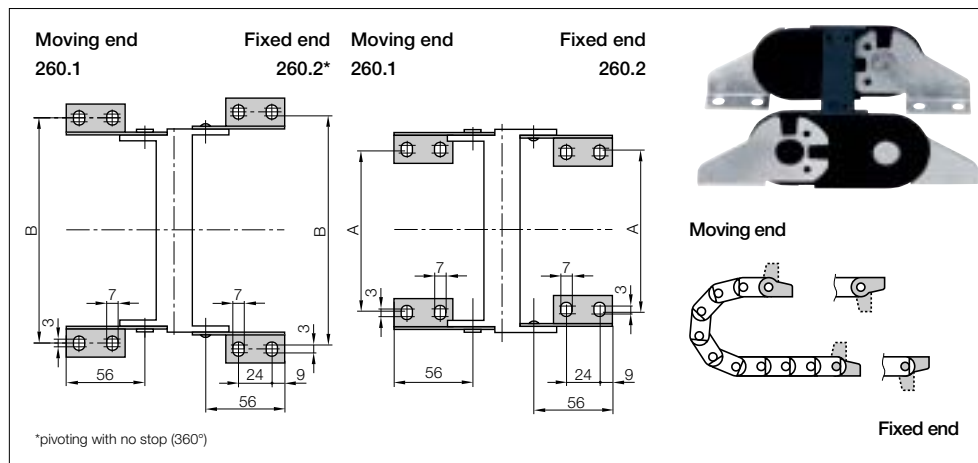


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **26510.05.12.CA**



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

2600·2650·2680·2700 | Steel mounting brackets **pivoting**

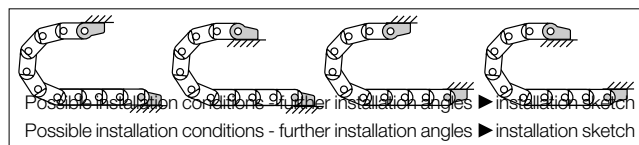


Steel **pivoting** | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
05. ▶	260.12	260.12.E	37	83
06. ▶	260.12	260.12.E	52	98
07. ▶	260.12	260.12.E	62	108
09. ▶	260.12	260.12.E	77	123
10. ▶	260.12	260.12.E	87	133
12. ▶	260.12	260.12.E	112	158
15. ▶	260.12	260.12.E	137	183
17. ▶	260.12	260.12.E	163	209

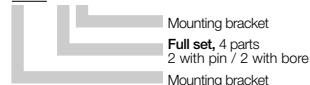
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

260.12.E



Single-part order

Mounting bracket **Moving end**

260.1 (1 part left / right)

Mounting bracket **Fixed end**

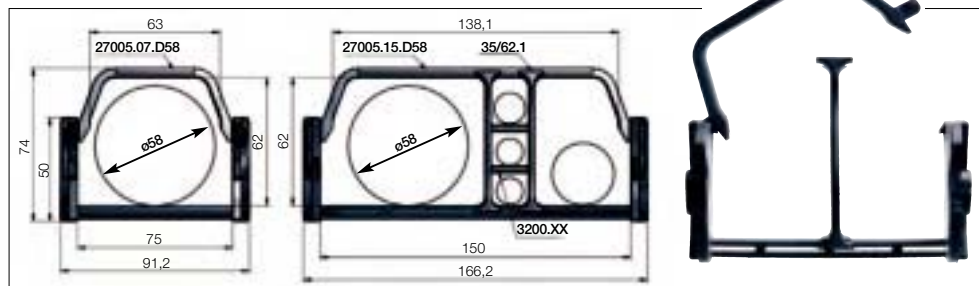
260.2 (1 part left / right)

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



2600·2650·2680·2700 | More options and accessories

NEW in this catalog



Extender crossbars Series 2600-2700-2650 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 58 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 35/62.1**
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

e-chain® with extender crossbar
snap-open along outer radius,
Bi 75 mm, *R* 100 mm:

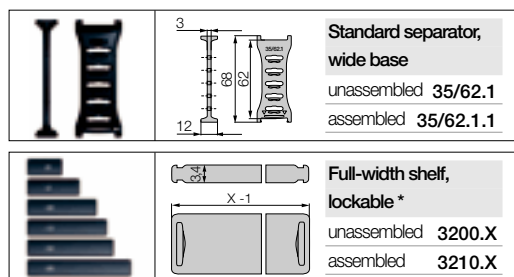
Part No. 2700.15D58.100.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]
2600.07D58. <i>R.0</i>	2700.07D58. <i>R.0</i>	2650.07D58. <i>R.0</i>	75	91	063* 075* 100 125 150 175 200 250
2600.15D36. <i>R.0</i>	2700.15D36. <i>R.0</i>	2650.15D36. <i>R.0</i>	150	166	063* 075* 100 125 150 175 200 250

*Radius 063 and 075 only possible with e-chains® Series 2700 !

Supplement Part No. with required radius. Example: 2700.15D58.100.0

Series 2600-2700-2650 | Interior separation for extender crossbars



Standard separator, wide base

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

Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 5 levels.

Product range ► page 5.189

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

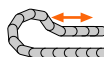
Optional: **Support tray tool kit.**

For support of the lower run.

Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.011.15.1000.0**. The complete range with order options ► from page 9.70

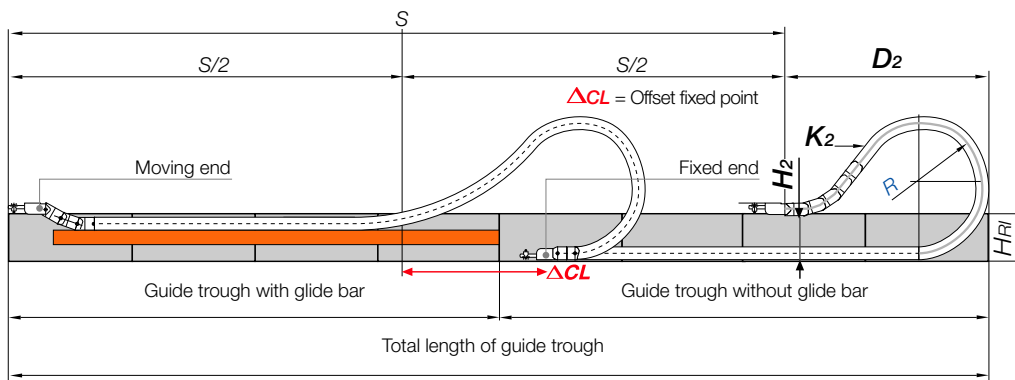


2600·2650·2680·2700 | Dimensions | Long travels



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

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 2600/2650/2680 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 2700** that snaps open along the outer radius. **In case of travels between 5 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



Pitch = 56 mm/link · Links/m = 18 (1008 mm) · Chain length = $\frac{S}{2} + K$

R	063*	075*	100	125	150	175	200	250
H ₂	130	150	166	166	166	166	166	166
D ₂ +25	140	150	350	475	500	655	770	950
K ₂	335	375	616	784	896	1120	1288	1624
ΔCL	-	-	144	244	244	374	464	594

*for Series 2650/2680 upon request. Before using Series 2600/2650/2680 on long travels please consult igus®.

More details | For long travel applications

autoglide 2700.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

v_{max} 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

v_{max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s¹. No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



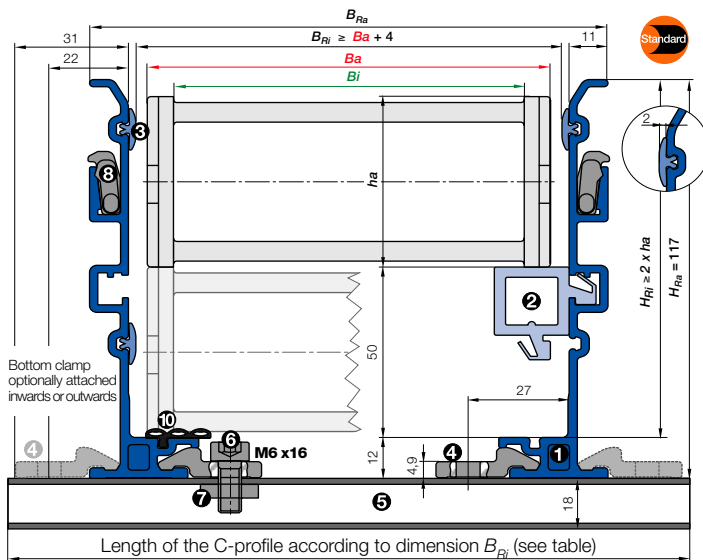
H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{RI} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Aluminum "SuperTrough" | Basic Version



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

2700.05.100.0 ► Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.05 70	-	960.30.175
.06 85	960.30.150	960.30.200
.07 95	960.30.150	960.30.200
.09 110	960.30.175	960.30.225
.10 120	960.30.175	960.30.225
.12 145	960.30.200	960.30.250
.15 170	960.30.225	960.30.275
.17 198	960.30.250	960.30.300

Insert for the installation set "Heavy-Duty":
972.50.XXX instead of **960.30.XXX** on
the right column "attached outwards"

● **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber ● **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M6 x 16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic



Order example: Length of travel 30 m -

Center mounted for Series 2700.05.100.0 with $B_{Ri} = 70$

Guide trough set **without** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 972.30.SL**

Guide trough set **with** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 972.32.SL**

Installation set "Basic" complete (guide trough-sets + 1)

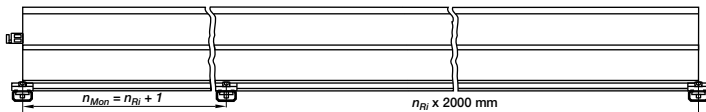
Order text: 17 installation sets **Part No. 960.30.150**

Module for the fixed end ► page 9.16

Order text: 1 set **Part No. 972.81**

Option: For an additional noise dampening

with silencer profile, please add Index **A** - Example: **Part No. 972.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ► from page 9.30



● Trough set ● C-Profile
● Installation set ● B_a = Outer width e-chains
● Glide bar ● B_i = Inner width e-chains
 B_{Ri} = Inner trough width
 B_{Ra} = Outer trough width
 H_{Ri} = Inner trough height
 H_{Ra} = Outer trough height
 n_{Mon} = Number of installation sets
 n_{Ri} = Number of trough sets

2600-2650-2680-2700 | Options and order key



Standard

Additional noise
dampening
with pads

NC-Version -
(no camber)
without pretension

Reverse bending
radius for circular
movements

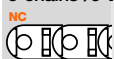
Part No.
Standard
e-chains®/e-tubes



Part No.
Low noise (with pads)
e-chains®/e-tubes



Part No.
NC-Material
e-chains®/e-tubes



Part No.
RBR
e-chains®/e-tubes



2600.05.R.0

e-chain* snap-open along inner radius*

S2600.05.R.0

e-chain* snap-open along inner radius*

2600.05.R.0.NC

e-chain* snap-open along inner radius*

2600.05.R1/R2.0

e-chain* snap-open along inner radius*

2700.05.R.0

e-chain* snap-open along outer radius

S2650.05.R.0

Half e-tube snap-open along inner radius*

2700.05.R.0.NC

e-chain* snap-open along outer radius

2700.05.R1/R2.0

e-chain* snap-open along outer radius

2650.05.R.0

Half e-tube snap-open along inner radius*

S2680.05.R.0

e-tube snap-open along inner radius*

2650.05.R.0.NC

Half e-tube snap-open along inner radius*

2650.05.R1/R2.0**

Half e-tube snap-open along inner radius*

2680.05.R.0

e-tube snap-open along inner radius*

2680.05.R.0.NC

e-tube snap-open along inner radius*

2680.05.R1/R2.0**

e-tube snap-open along inner radius*



Delivery time
24h or today!*

Delivery time:
3-5 work days

Delivery time:
3-5 work days

Delivery time:
10 work days

(2-5 work days at an
express surcharge) **upon request

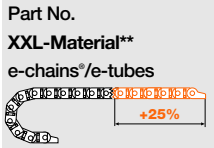
Combination possibilities | Examples

	Low-noise option	NC- Version	RBR- Version	XXL- Material	HT- Material*	ESD- Material
Low-noise option		S2600.05.R.0.NC	–	S2600.05.R.0.XXL	S2680.05.R.0.HT	S2600.05.R.0.ESD
NC- Version	S2600.05.R.0.NC		–	–	2680.05.R.0.HT.NC	2600.05.R.0.ESD.NC
RBR- Version	–	–		–	2680.05.R1/R2.0.HT	2600.05.R1/R2.0.ESD
XXL- Material	S2600.05.R.0.XXL	–	–		–	–
HT- Material*	S2680.05.R.0.HT	2680.05.R.0.HT.NC	2680.05.R1/R2.0.HT	–		–
ESD- Material	S2600.05.R.0.ESD	2600.05.R.0.ESD.NC	2600.05.R1/R2.0.ESD	–	–	

*for gliding applications please consult igus®

2600·2650·2680·2700 | Options and order key

Unsupported
lengths +25%
possible



2600.05.R.0.XXL

e-chain* snap-open along inner radius*

2700.05.R.0.XXL

e-chain* snap-open along outer radius

2650.05.R.0.XXL

Half e-tube snap-open along inner radius*

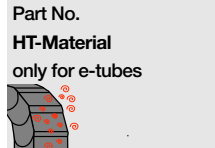
2680.05.R.0.XXL

e-tube snap-open along inner radius*

Delivery time:
1-2 weeks

**Lower part made of XXL-Material

No burning-in of
hot chips up to
850°C (1562° F)



2680/2650.05.R.0.HT

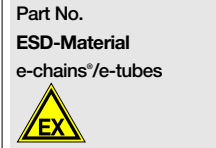
Complete e-tube**

2680/2650.05.HT.R.0

Bottom only

Delivery time:
10 work days

ATEX / ESD
classified e-chains®
II 2 GD



2600.05.R.0.ESD

e-chain* snap-open along inner radius*

2700.05.R.0.ESD

e-chain* snap-open along outer radius

2650.05.R.0.ESD

Half e-tube snap-open along inner radius*

2680.05.R.0.ESD

e-tube snap-open along inner radius*

Delivery time:
5 work days

*for gliding applications
please consult igus®

Order example | Order key and color options



**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 22 links **2700.05.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **2610.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 35.1**

Order text: 1,0 m 2700.05.100.0 + 2610.34PZB + 2 x Part No. 35.1



Order key
2700.05.100.0



Black e-chains* from stock!

Colored e-chains delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains*
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Lateral glide surfaces

Large pin for high stability

Double stop dog for long unsupported travels

Large inner height, high stability

When to use Series 3400-3450-3480-3500:

- If a medium-sized, stable system with an inner height of 21 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 250 mm are required
- For unsupported lengths up to 3,0 m and fill weights up to 13 kg/m
- For long travels up to 150 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
▶ **System E4.1, Series E4.42, page 7.60**
- For simple applications and easy filling
▶ **easy chain®, Series E300, page 3.52**



Open E2/000 e-chains® in a flash with the **e-chain® opener** ▶ page 5.136

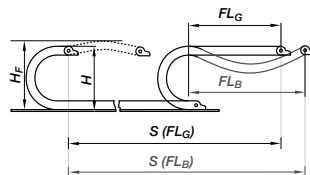
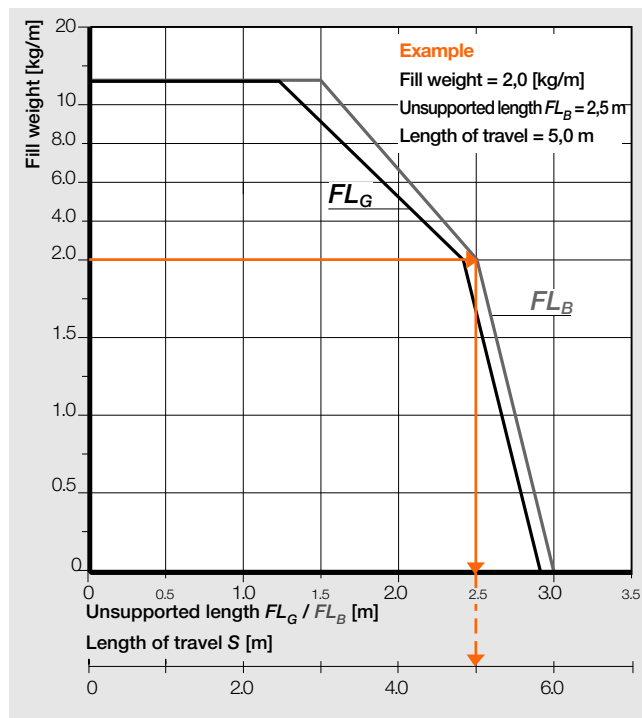


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

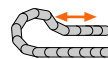


3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000



Unsupported applications

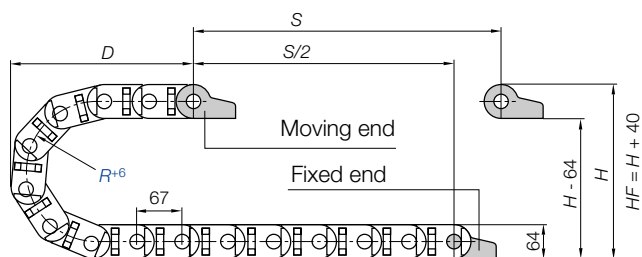
Unsupported e-chains* feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► **Design, page 1.8**



Gliding applications

Long travels up to 150 m.

More information ► **page 5.222**



Technical Data

Speed, material, temperature and flammability class ► **page 5.140**

Pitch = 67 mm/link
Links/m = 15 (1005 mm)
Chain length = $S/2 + K$

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	1080

The required clearance height: $H_F = H + 40$ mm (with 2,5 kg/m fill weight)

*for Series 3450/3480 upon request. Before using Series 3400/3450/3480 on long travels please consult igus®.



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain*, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



e-chains® | **Series 3400** snap-open along inner radius
e-chains® | **Series 3500** snap-open along outer radius | **Standard**

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	3400 [kg/m]	3500 [kg/m]
3400. 050 . <i>R.0</i>	3500. 050 . <i>R.0</i>	50	70	075 100 125 150 200 250 300	≈ 1,60	≈ 1,60
3400. 075 . <i>R.0</i>	3500. 075 . <i>R.0</i>	75	95	075 100 125 150 200 250 300	≈ 1,78	≈ 1,78
3400. 100 . <i>R.0</i>	3500. 100 . <i>R.0</i>	100	120	075 100 125 150 200 250 300	≈ 1,93	≈ 1,93
3400. 115 . <i>R.0</i>	3500. 115 . <i>R.0</i>	115	135	075 100 125 150 200 250 300	≈ 1,99	≈ 1,99
3400. 125 . <i>R.0</i>	3500. 125 . <i>R.0</i>	125	145	075 100 125 150 200 250 300	≈ 2,03	≈ 2,03
3400. 150 . <i>R.0</i>	3500. 150 . <i>R.0</i>	150	170	075 100 125 150 200 250 300	≈ 2,17	≈ 2,17
3400. 175 . <i>R.0</i>	3500. 175 . <i>R.0</i>	175	195	075 100 125 150 200 250 300	≈ 2,28	≈ 2,28
3400. 200 . <i>R.0</i>	3500. 200 . <i>R.0</i>	200	220	075 100 125 150 200 250 300	≈ 2,45	≈ 2,45
3400. 225 . <i>R.0</i>	3500. 225 . <i>R.0</i>	225	245	075 100 125 150 200 250 300	≈ 2,59	≈ 2,59
3400. 250 . <i>R.0</i>	3500. 250 . <i>R.0</i>	250	270	075 100 125 150 200 250 300	≈ 2,73	≈ 2,73

Supplement Part No. with required radius. Example: **3500.075.200.0**

When to use Series 3400: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ►page 9.90). **When to use Series 3500:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.



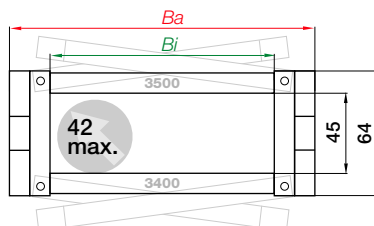
Order key

3400.075.200.0 e-chain®

3500.075.200.0 e-chain®



Standard color black
 Bending radius *R*
 Width index (depends on *Bi*)
 Series / Type



3400.075.200.0 = e-chain® snap-open along inner radius, **Bi 75** mm inner width, **R 200** mm radius, color black

3500.075.200.0 = e-chain® snap-open along outer radius, **Bi 75** mm inner width, **R 200** mm radius, color black

More order examples and configuration options ►page 5.224



Part No. of e-chain® links as single parts ►page 5.141



Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Half e-tubes | Serie 3450 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 3480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	3450 [kg/m]	3480 [kg/m]
3450. 050 . <i>R</i> .0	3480. 050 . <i>R</i> .0	50	70	075* 100* 125 150 200 250 300	≈ 1,77	≈ 1,96
3450. 075 . <i>R</i> .0	3480. 075 . <i>R</i> .0	75	95	075* 100* 125 150 200 250 300	≈ 1,95	≈ 2,07
3450. 100 . <i>R</i> .0	3480. 100 . <i>R</i> .0	100	120	075* 100* 125 150 200 250 300	≈ 2,15	≈ 2,30
3450. 115 . <i>R</i> .0	3480. 115 . <i>R</i> .0	115	135	075* 100* 125 150 200 250 300	≈ 2,30	≈ 2,46
3450. 125 . <i>R</i> .0	3480. 125 . <i>R</i> .0	125	145	075* 100* 125 150 200 250 300	≈ 2,42	≈ 2,49
3450. 150 . <i>R</i> .0	3480. 150 . <i>R</i> .0	150	170	075* 100* 125 150 200 250 300	≈ 2,60	≈ 2,62
3450. 175 . <i>R</i> .0	3480. 175 . <i>R</i> .0	175	195	075* 100* 125 150 200 250 300	≈ 2,75	≈ 2,80
3450. 200 . <i>R</i> .0	3480. 200 . <i>R</i> .0	200	220	075* 100* 125 150 200 250 300	≈ 2,90	≈ 2,94
3450. 225 . <i>R</i> .0	3480. 225 . <i>R</i> .0	225	245	075* 100* 125 150 200 250 300	≈ 3,15	≈ 3,12
3450. 250 . <i>R</i> .0	3480. 250 . <i>R</i> .0	250	270	075* 100* 125 150 200 250 300	≈ 3,30	≈ 3,28

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 3450/3480 available upon request. Delivery time approx. 1-2 weeks after order.

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

Supplement Part No. with required radius. Example: **3450.075.200.0**

When to use Series 3450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus*. **When to use Series 3480:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus*.



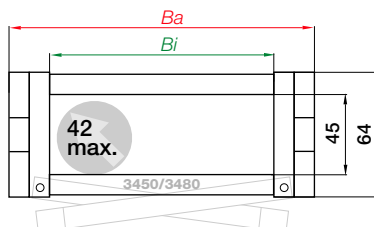
Order key

3450. 075. 200. 0 Half e-tube

3480. 075. 200. 0 Full e-tube



Standard color black
 Bending radius *R*
 Width index (depends on *Bi*)
 Series / Type



3450.075.200.0 = Half e-tube snap-open along inner radius, *Bi* 75 mm inner width, *R* 200 mm radius, color black

3480.075.200.0 = Full e-tube * snap-open along inner radius, *Bi* 75 mm inner width, *R* 200 mm radius, color black

More order examples and configuration options ► page 5.224



Part No. of e-chain® links as orange parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. Delivery in 24h or today.*

*Delivery time means time until shipping of goods

...-5 dB(A)depends on environmental conditions,
similar to figure**Noise dampening** | Noise reduction ≈ 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S3400.050	S3450.050	S3480.050	.R.0	075* 100* 125 150 200 250 300	50
S3400.075	S3450.075	S3480.075	.R.0	075* 100* 125 150 200 250 300	75
S3400.100	S3450.100	S3480.100	.R.0	075* 100* 125 150 200 250 300	100
S3400.115	S3450.115	S3480.115	.R.0	075* 100* 125 150 200 250 300	115
S3400.125	S3450.125	S3480.125	.R.0	075* 100* 125 150 200 250 300	125
S3400.150	S3450.150	S3480.150	.R.0	075* 100* 125 150 200 250 300	150
S3400.175	S3450.175	S3480.175	.R.0	075* 100* 125 150 200 250 300	175
S3400.200	S3450.200	S3480.200	.R.0	075* 100* 125 150 200 250 300	200
S3400.225	S3450.225	S3480.225	.R.0	075* 100* 125 150 200 250 300	225
S3400.250	S3450.250	S3480.250	.R.0	075* 100* 125 150 200 250 300	250

*Radius Series 3450/3480 available upon request. Delivery time approx. 1-2 weeks after order.

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

Supplement Part No. with required radius. Example: **S3400.075.200.0**

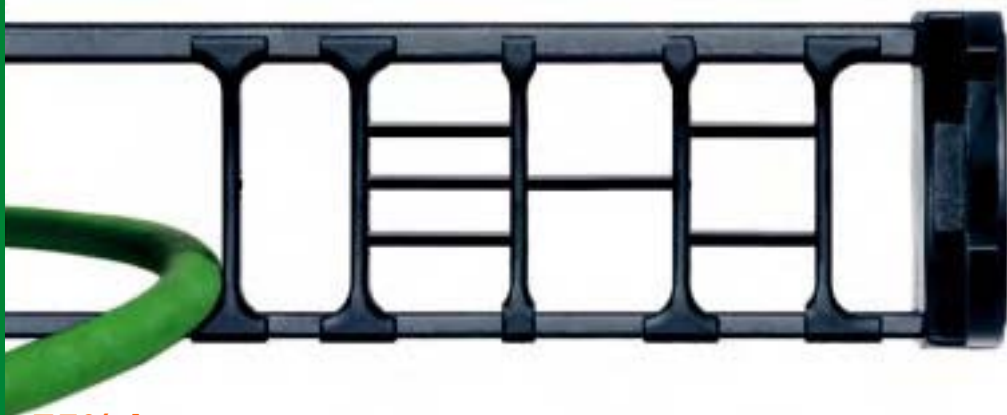
For e-chains* with noise dampening pads supplement Part No. with required index "S"

Example: Part No. **S3400.075.200.0** = e-chain* snap-open along inner radius with noise dampening pads**e-chain* with noise dampening pads - Delivery time 3-5 work days.**

*Delivery time means time until shipping of goods

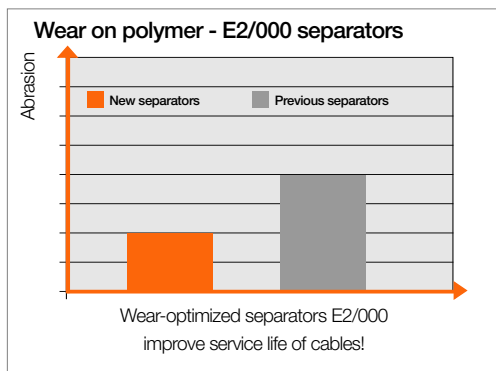


E2/000 - stability for the energy supply system elevator in a Post Tower



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



- ① Standard separator, wide base - Part No. 45.1 ③ Separator, narrow base - Part No. 45.3 ⑤ Full-width shelf, lockable* - Part No. 3200.XX
② Separator with narrow head - Part No. 45.2 ④ Separator, asymmetrical - Part No. 45.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order

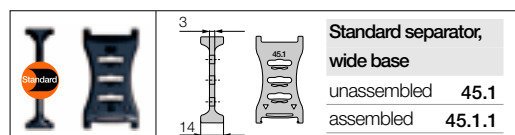
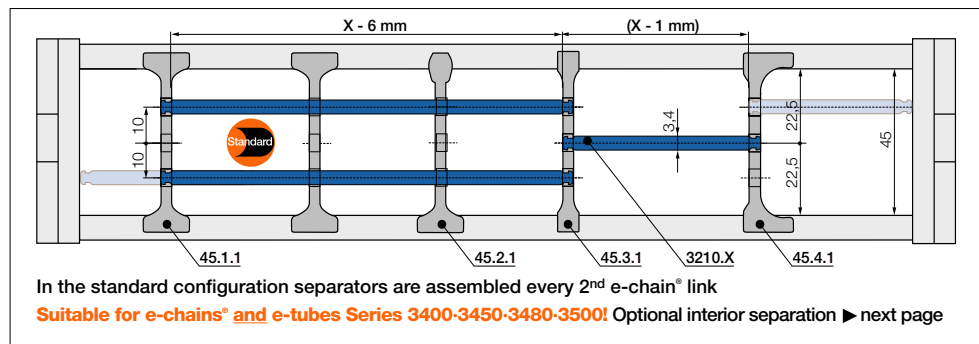


Interior separation single order - Delivery time 24h or today.*

*Delivery time means time until shipping of goods

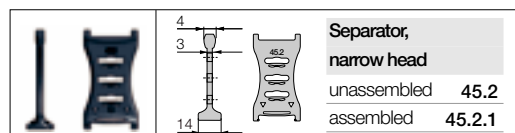
3400·3450·3480·3500 | Interior separation | Standard

New generation of interior separation



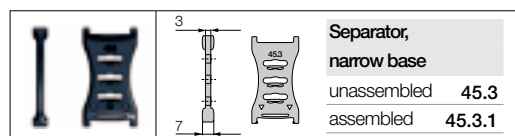
Standard - for all applications

Separator with a wide base for maximum locking strength and safe standing in e-chains®.



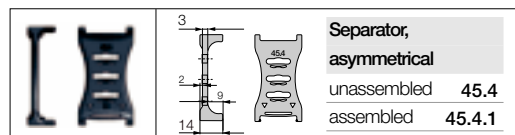
For even faster installation

Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



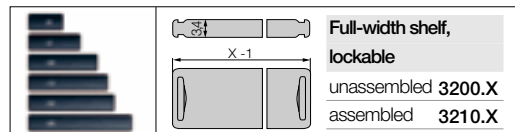
For many thin cables

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



For side-mounted applications

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



Horizontal separation

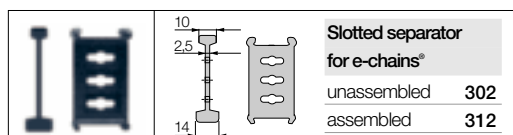
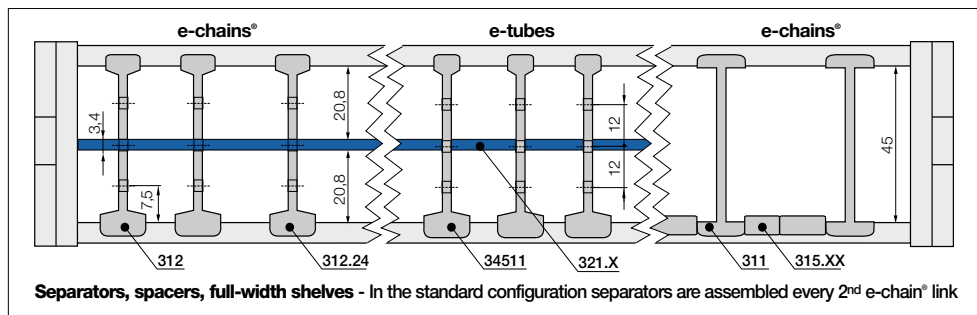
Full-width shelf locks safely into separators on both ends, fixed width possible. To be used as full-width shelf for a consequent subdivision or as shelf for a pattern system in 3 levels.

*Available upon request. Delivery time approx. 1-2 weeks after intake of order

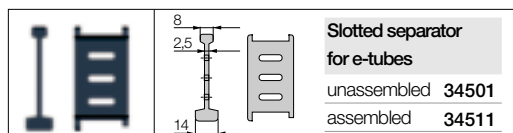


Lockable full-width shelves - for the standard interior separation

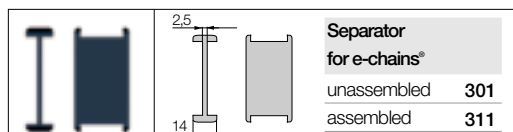
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	3200.050	3210.050	115	3200.115	3210.115	175	3200.175	3210.175
075	3200.075	3210.075	125	3200.125	3210.125			
100	3200.100	3210.100	150	3200.150	3210.150			

**Slotted separator 302 (e-chains® only)**

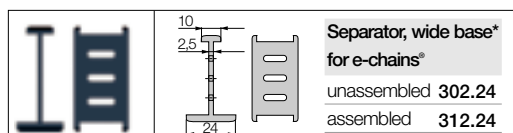
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Slotted separator 34501 (e-tubes only)**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

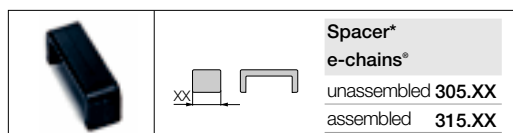
**Separator 301 (e-chains® only)**

For a simple vertical subdivision on e-chains®.

**Separator, wide base* 302.24 (e-chains® only)**

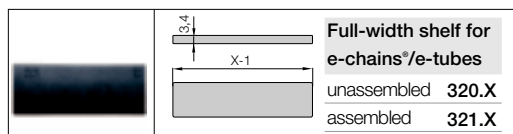
If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)

**Spacer* 305.XX (e-chains® only)**

Separators can be fixed in position. Only mountable onto the fixed crossbar. XX = width of spacer, available 8, 12 mm.

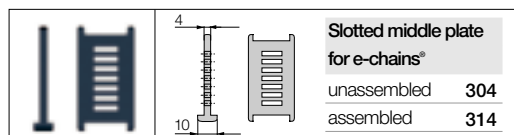
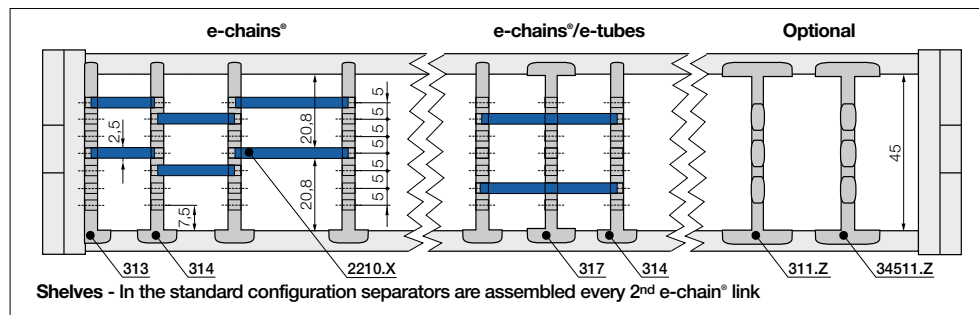
(*for side-mounted applications)

**Full-width shelf 320.X (e-chains® and e-tubes)**

This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 12 mm increments).

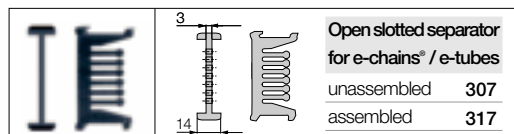
Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	320.050	321.050	125	320.125	321.125	225	320.225	321.225
075	320.075	321.075	150	320.150	321.150	250	320.250	321.250
100	320.100	321.100	175	320.175	321.175			
115	320.115	321.115	200	320.200	321.200			



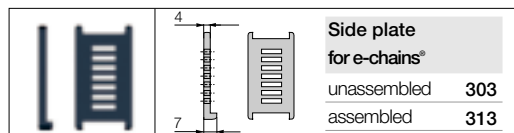
Middle plate 304 (e-chains® only)

To achieve a modular shelving by shelf 2200.X arranged at 7 different heights (in 5 mm increments)



Open slotted separator 307 (e-chains® and e-tubes)

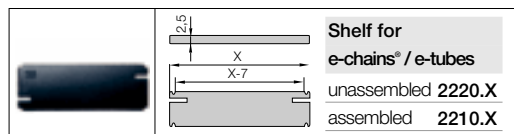
Quick assembly - retrofitting into an existing interior separation system without dismantling.



Side plate 303 (e-chains® only)

Works like middle plate.

Allows modular shelving close to the side links.

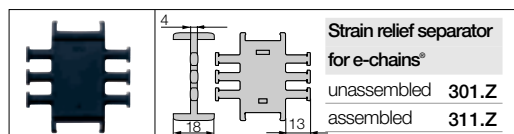


Shelf 2200.X (e-chains® and e-tubes)

For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 7 different heights (in 5 mm increments).

Shelves

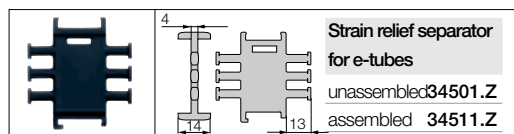
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	043	2200.43	2210.43	088	2200.88	2210.88
023	2200.23	2210.23	048	2200.48	2210.48	099	2200.99	2210.99
028	2200.28	2210.28	058	2200.58	2210.58	124	2200.124	2210.124
033	2200.33	2210.33	068	2200.68	2210.68	149	2200.149	2210.149
038	2200.38	2210.38	073	2200.73	2210.73			



Additional elements for interior separation

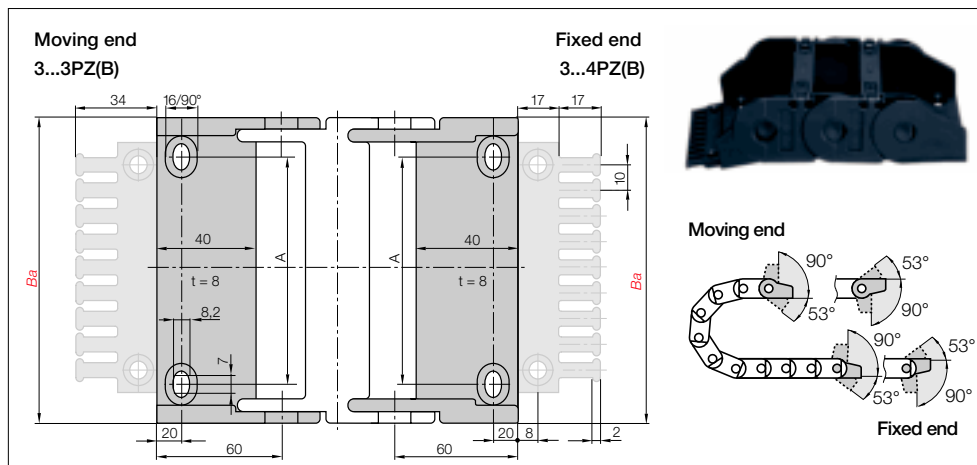
Strain relief separator 301.Z (e-chains® only)

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.



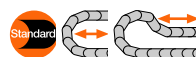
Strain relief separator 34501.Z (e-tubes only)

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.



Polymer pivoting | Standard - Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
050. ▶	3050.34PZB	3050.34PZBK1	3050.34PZ	28	5
075. ▶	3075.34PZB	3075.34PZBK1	3075.34PZ	53	7
100. ▶	3100.34PZB	3100.34PZBK1	3100.34PZ	78	10
115. ▶	3115.34PZB	3115.34PZBK1	3115.34PZ	93	11
125. ▶	3125.34PZB	3125.34PZBK1	3125.34PZ	103	12
150. ▶	3150.34PZB	3150.34PZBK1	3150.34PZ	128	15
175. ▶	3175.34PZB	3175.34PZBK1	3175.34PZ	153	17
200. ▶	3200.34PZB	3200.34PZBK1	3200.34PZ	178	20
225. ▶	3225.34PZB	3225.34PZBK1	3225.34PZ	203	22
250. ▶	3250.34PZB	3250.34PZBK1	3250.34PZ	228	25



- Standard
- For tight installation conditions
- Strain relief with detachable chainfix tiewrap plates
- Corrosion resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

3075, 34 PZB A1



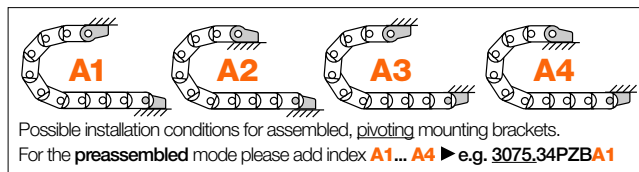
Single-part order

Mounting bracket **Moving end**

3075, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

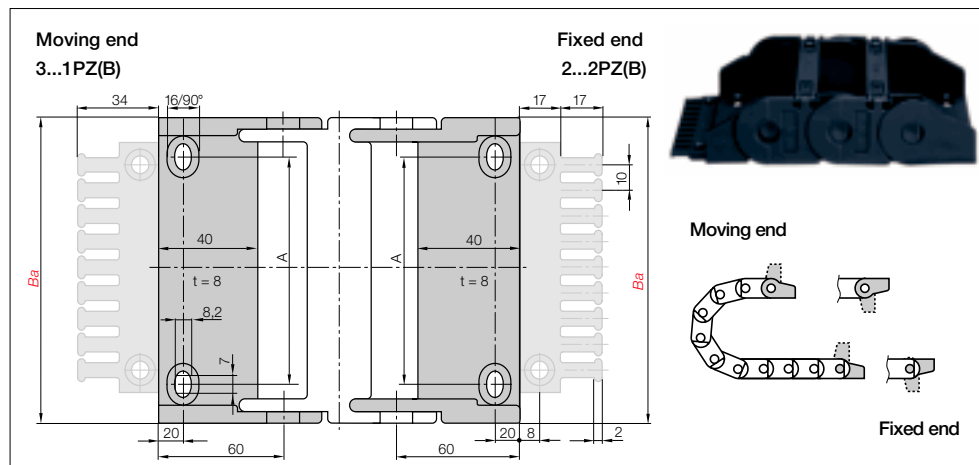
3075, 4 PZB A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

3400·3450·3480·3500 | Mounting brackets **locking**

For very high speed and acceleration



Polymer locking | Universal for e-chains® and e-tubes
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
050. ▶	3050.12PZB	3050.12PZBK1	3050.12PZ	28	5
075. ▶	3075.12PZB	3075.12PZBK1	3075.12PZ	53	7
100. ▶	3100.12PZB	3100.12PZBK1	3100.12PZ	78	10
115. ▶	3115.12PZB	3115.12PZBK1	3115.12PZ	93	11
125. ▶	3125.12PZB	3125.12PZBK1	3125.12PZ	103	12
150. ▶	3150.12PZB	3150.12PZBK1	3150.12PZ	128	15
175. ▶	3175.12PZB	3175.12PZBK1	3175.12PZ	153	17
200. ▶	3200.12PZB	3200.12PZBK1	3200.12PZ	178	20
225. ▶	3225.12PZB	3225.12PZBK1	3225.12PZ	203	22
250. ▶	3250.12PZB	3250.12PZBK1	3250.12PZ	228	25



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure (locking)

3075. 12 PZB A1



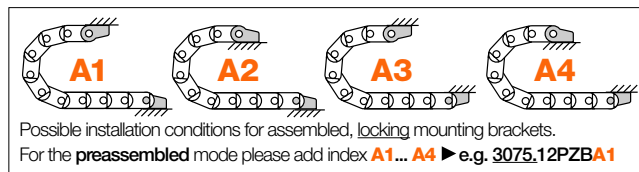
Single-part order

Mounting bracket **Moving end**

3075. 1 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

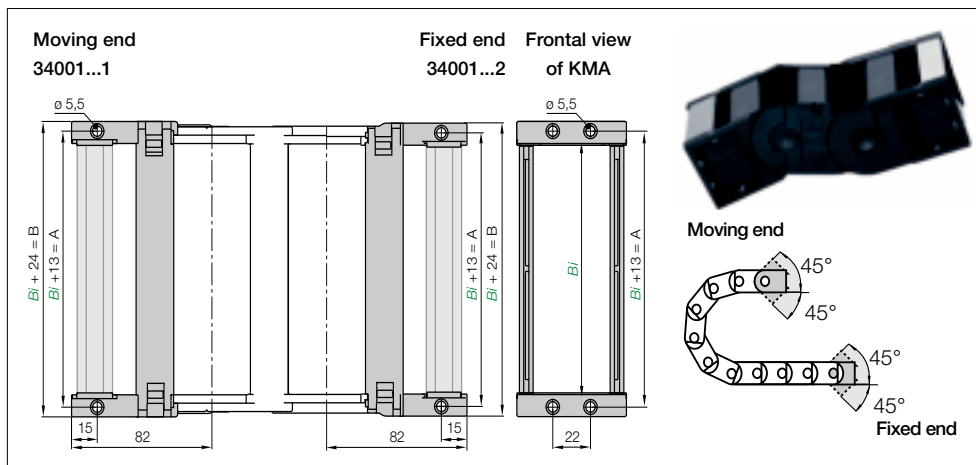
3075. 2 PZB A1 (preassembled + tiewrap plate)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

e-chains® | 3400-3500 | KMA mounting brackets **pivoting**

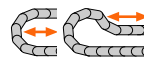
For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment - Universal for e-chains® (Series 3400-3500)
Recommended for unsupported and gliding applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ▶	34001.050.12.C	34001.050.12	63	74
075. ▶	34001.075.12.C	34001.075.12	88	99
100. ▶	34001.100.12.C	34001.100.12	113	124
115. ▶	34001.115.12.C	34001.115.12	128	139
125. ▶	34001.125.12.C	34001.125.12	138	149
150. ▶	34001.150.12.C	34001.150.12	163	174
175. ▶	34001.175.12.C	34001.175.12	188	199
200. ▶	34001.200.12.C	34001.200.12	213	224
225. ▶	34001.225.12.C	34001.225.12	238	249
250. ▶	34001.250.12.C	34001.250.12	263	274

KMA pivoting to one side: **Moving end 34001...3 / Fixed end Art. Nr. 34001...4**



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®

34001. 075. 12.C A



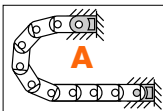
Single-part order

Mounting bracket **Moving end**

34001. 075. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

34001. 075. 2.C A (preassembled + C-profile)

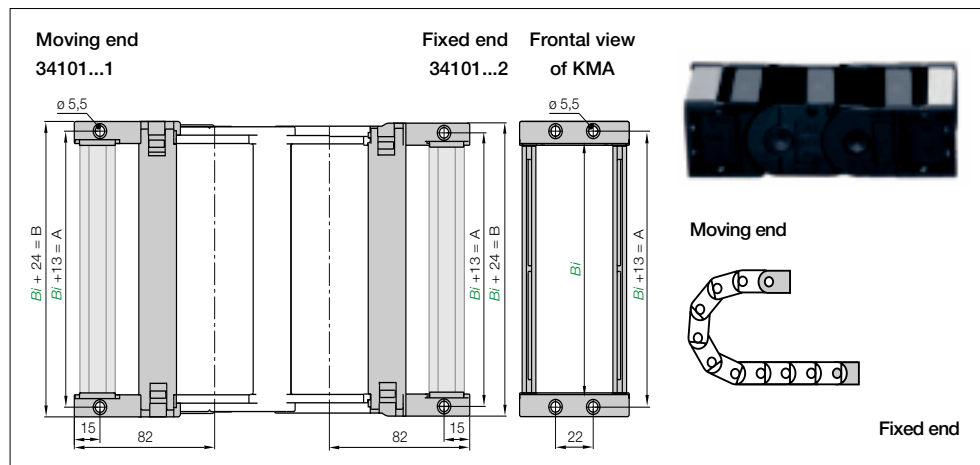


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **34001.075.12.CA**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 3400-3500)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ►	34101.050.12.C	34101.050.12	63	74
075. ►	34101.075.12.C	34101.075.12	88	99
100. ►	34101.100.12.C	34101.100.12	113	124
115. ►	34101.115.12.C	34101.115.12	128	139
125. ►	34101.125.12.C	34101.125.12	138	149
150. ►	34101.150.12.C	34101.150.12	163	174
175. ►	34101.175.12.C	34101.175.12	188	199
200. ►	34101.200.12.C	34101.200.12	213	224
225. ►	34101.225.12.C	34101.225.12	238	249
250. ►	34101.250.12.C	34101.250.12	263	274



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request
(KVA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-chain®

34101.075.12.C A



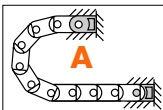
Single-part order

Mounting bracket **Moving end**

34101.075.1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

34101.075.2.C A (preassembled + C-profile)



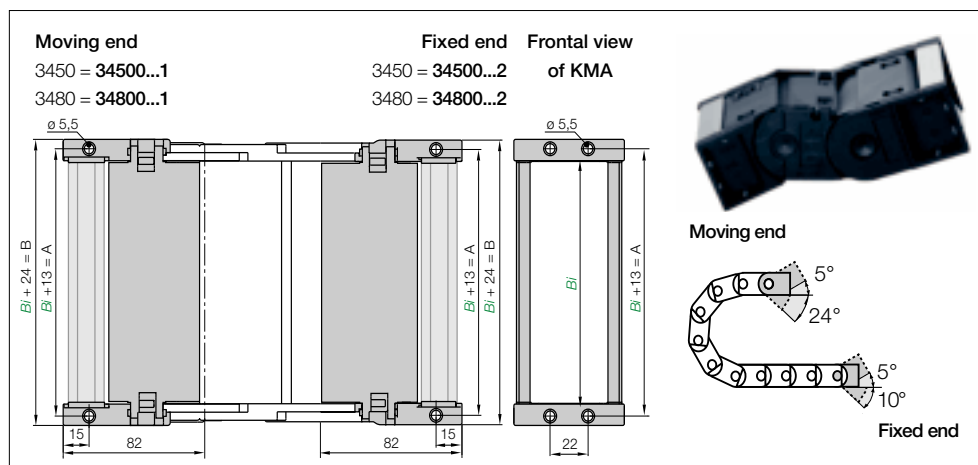
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A ► e.g. 34101.075.12.CA**



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ► from page 10.1

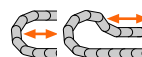
e-tubes | 3450-3480 | KMA mounting brackets **pivoting**

For tight installation conditions, all-sides attachment

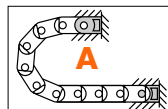
**KMA pivoting** | All-sides attachment - Universal for e-chains® (Series 3450-3480)

Recommended for unsupported and gliding applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ▶	34500 34800 .050.12.C	34500 34800 .050.12	63	74
075. ▶	34500 34800 .075.12.C	34500 34800 .075.12	88	99
100. ▶	34500 34800 .100.12.C	34500 34800 .100.12	113	124
115. ▶	34500 34800 .115.12.C	34500 34800 .115.12	128	139
125. ▶	34500 34800 .125.12.C	34500 34800 .125.12	138	149
150. ▶	34500 34800 .150.12.C	34500 34800 .150.12	163	174
175. ▶	34500 34800 .175.12.C	34500 34800 .175.12	188	199
200. ▶	34500 34800 .200.12.C	34500 34800 .200.12	213	224
225. ▶	34500 34800 .225.12.C	34500 34800 .225.12	238	249
250. ▶	34500 34800 .250.12.C	34500 34800 .250.12	263	274

**KMA pivoting Part No. 34500... for half e-tube Series 3450****KMA pivoting Part No. 34800... for full e-tube Series 3480**

- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

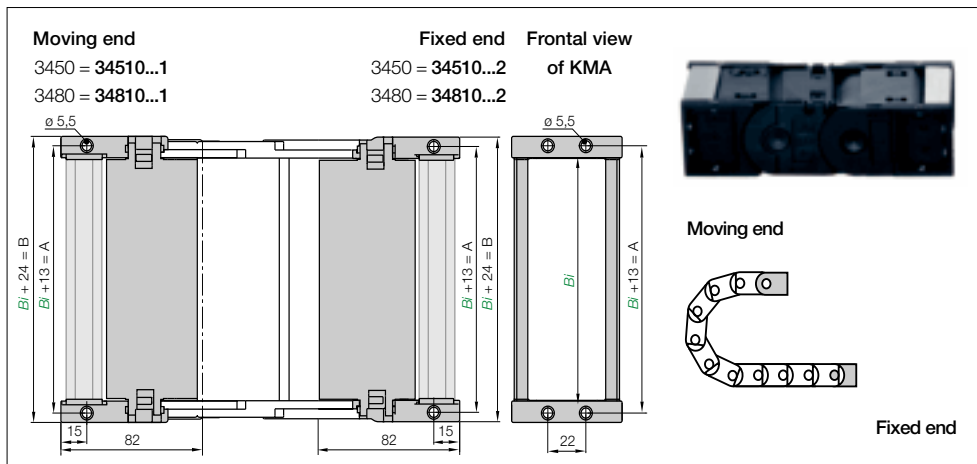
Part No. structure (pivoting) - e-tube**34500.075.12.C A****Single-part order**Mounting bracket **Moving end****34500.075.1.C A** (preassembled + C-profile)Mounting bracket **Fixed end****34500.075.1.C A** (preassembled + C-profile)

These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **34500.075.12.C A**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 3450-3480)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ▶	34510 34810 .050.12.C	34510 34810 .050.12	63	74
075. ▶	34510 34810 .075.12.C	34510 34810 .075.12	88	99
100. ▶	34510 34810 .100.12.C	34510 34810 .100.12	113	124
115. ▶	34510 34810 .115.12.C	34510 34810 .115.12	128	139
125. ▶	34510 34810 .125.12.C	34510 34810 .125.12	138	149
150. ▶	34510 34810 .150.12.C	34510 34810 .150.12	163	174
175. ▶	34510 34810 .175.12.C	34510 34810 .175.12	188	199
200. ▶	34510 34810 .200.12.C	34510 34810 .200.12	213	224
225. ▶	34510 34810 .225.12.C	34510 34810 .225.12	238	249
250. ▶	34510 34810 .250.12.C	34510 34810 .250.12	263	274



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-tube

34510.075.12.C A



Single-part order

Mounting bracket **Moving end**

34510.075.1.C A (preassembled + C-profile)

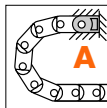
Mounting bracket **Fixed end**

34510.075.2.C A (preassembled + C-profile)



KMA pivoting Part No. 34510... for half e-tube Series 3450

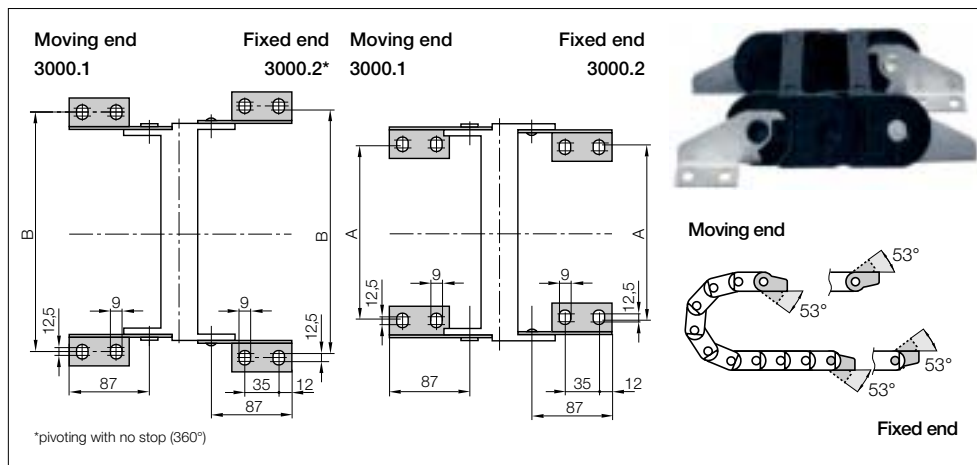
KMA pivoting Part No. 34810... for full e-tube Series 3480



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **34510.075.12.CA**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

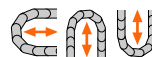
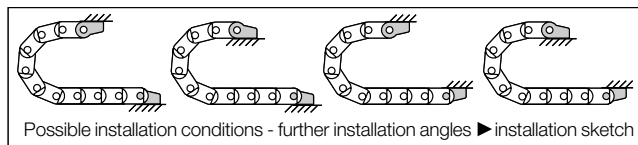


Steel pivoting | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
050. ▶	3000.12	3000.12.E	28	86
075. ▶	3000.12	3000.12.E	53	111
100. ▶	3000.12	3000.12.E	78	136
115. ▶	3000.12	3000.12.E	93	151
125. ▶	3000.12	3000.12.E	103	161
150. ▶	3000.12	3000.12.E	128	186
175. ▶	3000.12	3000.12.E	153	212
200. ▶	3000.12	3000.12.E	178	236
225. ▶	3000.12	3000.12.E	203	261
250. ▶	3000.12	3000.12.E	228	286

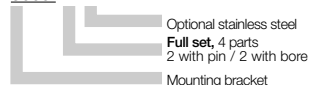
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

3000, 12.E



Single-part order

Mounting bracket **Moving end**

3000, 1 (1 part left / right)

Mounting bracket **Fixed end**

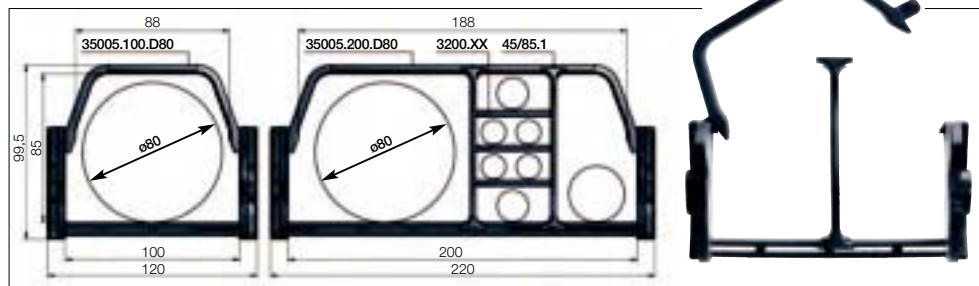
3000, 2 (1 part left / right)



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

3400·3450·3480·3500 | More options and accessories

NEW in this catalog



Extender crossbars Series 3400-3500-3450 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 80 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 45/85.1**
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

e-chain® with extender crossbar
snap-open along outer radius,
Bi 100 mm, *R* 200 mm:

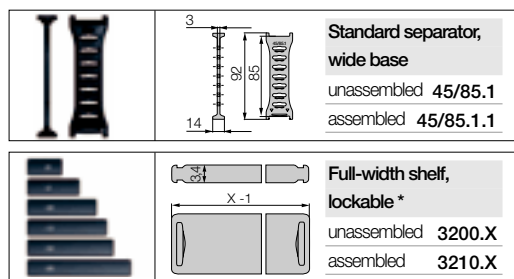
Part No. 3500.100D80.200.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]
3400.100D80. <i>R</i> .0	3500.100D80. <i>R</i> .0	3450.100D80. <i>R</i> .0	100	120	075* 100* 125 150 200 250 300
3400.200D80. <i>R</i> .0	3500.200D80. <i>R</i> .0	3450.200D80. <i>R</i> .0	200	220	075* 100* 125 150 200 250 300

*Radius 075 and 100 only possible with e-chains® Series 3500!

Supplement Part No. with required radius. Example: **3500.100D80.200.0**

Serie 3400-3500-3450 | Interior separation for extender crossbars



Standard separator, wide base

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

Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 7 levels.

Product range ► page 5.189

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

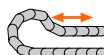
Optional: **Support tray tool kit.**

For support of the lower run.

Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.021.10.1000.0**. The complete range with order options ► from page 9.70

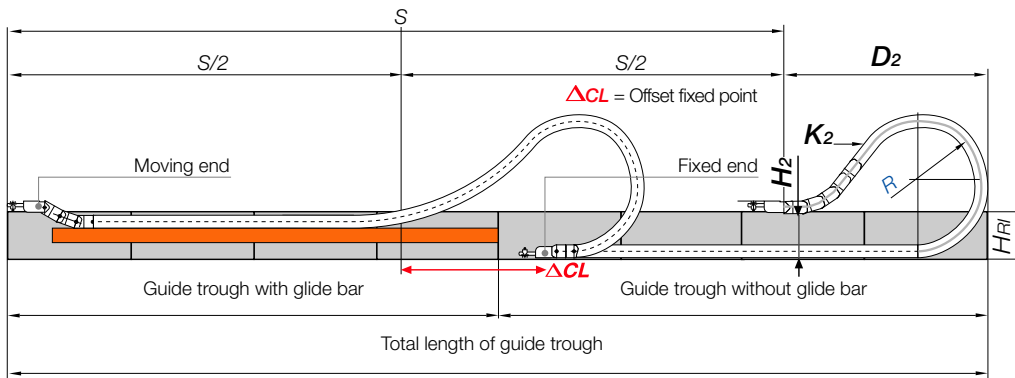


3400-3450-3480-3500 | Dimensions | Long travels



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

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 3400/3450/3480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 3500** that snaps open along the outer radius. In case of travels between 6 and 10 m we recommend a longer unsupported length. More information ► **Design, from page 1.16.**



Pitch = 67 mm/link · Links/m = 15 (1005 mm) · Chain length = $\frac{S}{2} + K$

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	1010	1150
K_2	370	450	804	1005	1340	1675	1943
ΔCL	-	-	233	303	463	643	733

*for Series 3450/3480 upon request. Before using Series 3400/3450/3480 on long travels please consult igus®.

More details | For long travel applications

autoglide 3500.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

v_{max} 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

v_{max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s¹. No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



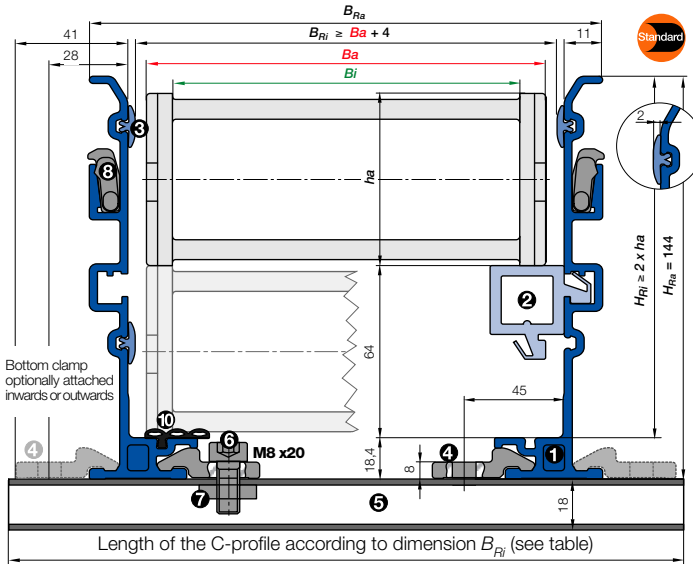
H_2 = Mounting height (if the moving end is set lower)
 D_2 = Over length - long travels, gliding

K_2 = Further add-on (if the moving end is set lower)
 R = Bending radius

ΔCL = Offset fixed point
 H_{RI} = Inner trough height

S = Length of travel
 $S/2$ = Half length of travel

Aluminum "SuperTrough" | Basic Version



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

3500.075.200.0 ► Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.050 74	—	960.40.200
.075 99	—	960.40.225
.100 124	960.40.175	960.40.250
.115 139	960.40.200	960.40.275
.125 149	960.40.200	960.40.275
.150 174	960.40.225	960.40.300
.175 199	960.40.250	960.40.325
.200 224	960.40.275	960.40.350
.225 249	960.40.300	960.40.375
.250 274	960.40.325	960.40.400

Insert for the installation set "Heavy-Duty":
973.50.XXX instead of **960.40.XXX** on
the right column "attached outwards"

- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M8 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic



Order example: Length of travel 30 m -

Center mounted for Series 3500.075.200.0 with $B_{Ri} = 99$

Guide trough set without glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 973.30.SL**

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 973.31.SL**

Installation set "Basic" complete (guide trough-sets + 1)

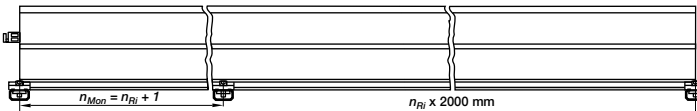
Order text: 17 installation sets **Part No. 960.40.175**

Module for the fixed end ► page 9.16

Order text: 1 set **Part No. 973.80**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 973.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ► from page 9.32

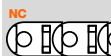


- Trough set
- Installation set
- Glide bar
- C-Profile
- Ba = Outer width e-chains
- Bi = Inner width e-chains
- B_{Ri} = Inner trough width
- B_{Ra} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- n_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

3400-3450-3480-3500 | Options and order key



Standard

Additional noise
dampening
with padsNC-Version -
(no camber)
without pretensionReverse bending
radius for circular
movementsPart No.
Standard
e-chains®/e-tubesPart No.
Low noise (with pads)
e-chains®/e-tubesPart No.
NC-Material
e-chains®/e-tubesPart No.
RBR
e-chains®/e-tubes

3400.075.R.0

e-chain* snap-open along inner radius*

S3400.075.R.0

e-chain* snap-open along inner radius*

3400.075.R.0.NC

e-chain* snap-open along inner radius*

3400.075.R1/R2.0

e-chain* snap-open along inner radius*

3500.075.R.0

e-chain* snap-open along outer radius

S3450.075.R.0

Half e-tube snap-open along inner radius*

3500.075.R.0.NC

e-chain* snap-open along outer radius

3500.075.R1/R2.0

e-chain* snap-open along outer radius

3450.075.R.0

Half e-tube snap-open along inner radius*

S3480.075.R.0

e-tube snap-open along inner radius*

3450.075.R.0.NC

Half e-tube snap-open along inner radius*

3450.075.R1/R2.0**

Half e-tube snap-open along inner radius*

3480.075.R.0

e-tube snap-open along inner radius*

3480.075.R.0.NC

e-tube snap-open along inner radius*

3480.075.R1/R2.0**

e-tube snap-open along inner radius*

Delivery time
24h or today!*Delivery time:
3-5 work daysDelivery time:
3-5 work daysDelivery time:
10 work days(2-5 work days at an
express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC- Version	RBR- Version	XXL- Material	HT- Material*	ESD- Material
Low-noise option		S3400.075.R.0.NC	–	S3400.075.R.0.XXL	S3480.075.R.0.HT	S3400.075.R.0.ESD
NC- Version	S3400.075.R.0.NC		–	–	3480.075.R.0.HT.NC	3400.075.R.0.ESD.NC
RBR- Version	–	–		–	3480.075.R1/R2.0.HT	3400.075.R1/R2.0.ESD
XXL- Material	S3400.075.R.0.XXL	–	–		–	–
HT- Material*	S3480.075.R.0.HT	3480.075.R.0.HT.NC	3480.075.R1/R2.0.HT	–		–
ESD- Material	S3400.075.R.0.ESD	3400.075.R.0.ESD.NC	3400.075.R1/R2.0.ESD	–	–	

*for gliding applications please consult igus®

3400-3450-3480-3500 | Options and order key

Unsupported
lengths +25%
possible

No burning-in of
hot chips up to
850°C (1562° F)

ATEX / ESD
classified e-chains®


Part No.

XXL-Material**

e-chains®/e-tubes



3400.075.R.0.XXL

e-chain* snap-open along inner radius*

3500.075.R.0.XXL

e-chain* snap-open along outer radius

3450.075.R.0.XXL

Half e-tube snap-open along inner radius*

3480.075.R.0.XXL

e-tube snap-open along inner radius*

Delivery time:

1-2 weeks

**Lower part made of XXL-Material

Part No.

HT-Material

only for e-tubes



3480/3450.075.R.0.HT

Complete e-tube**

3480/3450.075.HT.R.0

Bottom only

Delivery time:

10 work days

Part No.

ESD-Material

e-chains®/e-tubes



3400.075.R.0.ESD

e-chain* snap-open along inner radius*

3500.075.R.0.ESD

e-chain* snap-open along outer radius

3450.075.R.0.ESD

Half e-tube snap-open along inner radius*

3480.075.R.0.ESD

e-tube snap-open along inner radius*

Delivery time:

5 work days

*for gliding applications
please consult igus®

Order example | Order key and color options



**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 15 links **3500.075.200.0**

+ Mounting brackets 1 set (with tiewrap plates) **3150.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 45.1**

Order text: 1,0 m 3500.075.200.0 + 3150.34PZB + 2 x Part No. 45.1



Order key

3500.075.200.0



Black e-chains® from stock!

*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
 black	.0 from stock!	 green*	.7
 white*	.1	 grey*	.3 for e-chains®
 violet*	.5	 dusty grey*	.3 for e-tubes
 yellow*	.4	 agate grey*	.11
 orange*	.2	 light grey*	.14
 red*	.6	 black grey*	.13
 blue*	.8	 yellow/black*	.9



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



Mounting with or
without strain relief

Snap-open
along both radii

Large pin
for high stability

Lateral glide
surfaces

Small pitch for
very quiet
operation

Small pitch, smooth running

When to use Series 255:

- If a medium-sized, stable e-chain® with a small pitch for very quiet operation and an inner height of 24 mm is required
- If inner widths up to 103 mm are required
- For unsupported lengths up to 1,8 m and fill weights up to 2,0 kg/m
- For long travels up to 100 m
- If snap-open capability of crossbars from both sides is required



When to use a different igus® Series:

- If more stability is required
► **System E4.1, Series E4.21, page 7.18**
- For simple applications and easy filling
► **easy chain®, Series E200, page 3.63**
- If snap-open capability of links from both sides is required
► **System E4.1, Series E4.21, page 7.18**

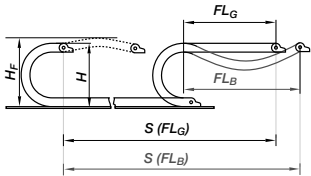
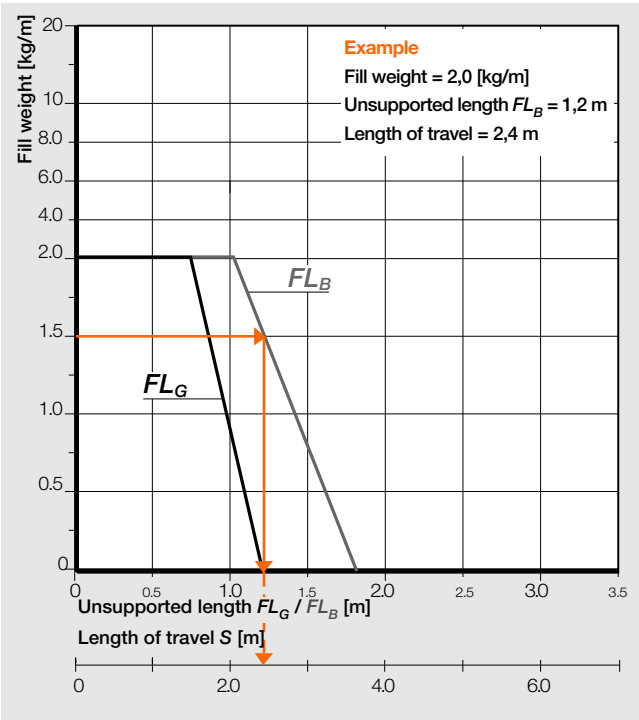


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

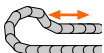


3D-CAD files, configurators, PDF ► www.igus.de/en/255



Unsupported applications

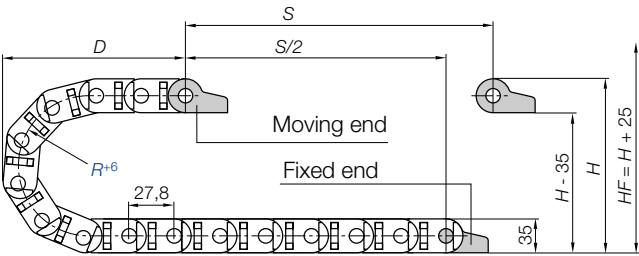
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)



Gliding applications

Long travels up to 100 m.

More information ► [page 5.234](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

Pitch = 27,8 mm/link
Links/m = 36 (1000,8 mm)
Chain length = $\frac{S}{2} + K$

R	055	075	100	125	150	175	200	225	250
$H + 4$	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	610	765	845

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



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



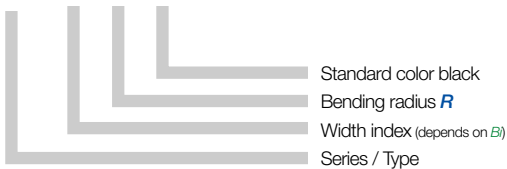
Series 255 | Snap-open along outer radius

e-chains® snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	255 [kg/m]
255. 03 . <i>R</i> .0	38	54	055 075 100 125 150 175 200 225 250	≈ 0,81
255. 05 . <i>R</i> .0	57	73	055 075 100 125 150 175 200 225 250	≈ 0,90
255. 07 . <i>R</i> .0	77	93	055 075 100 125 150 175 200 225 250	≈ 1,01
255. 10 . <i>R</i> .0	103	119	055 075 100 125 150 175 200 225 250	≈ 1,15

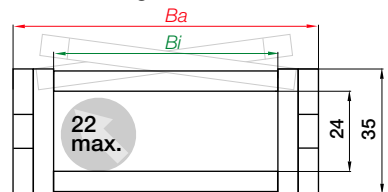
Supplement Part No. with required radius. Example: **255.10.200.0**



Order key
255. 10. 200. 0



Dimensioning



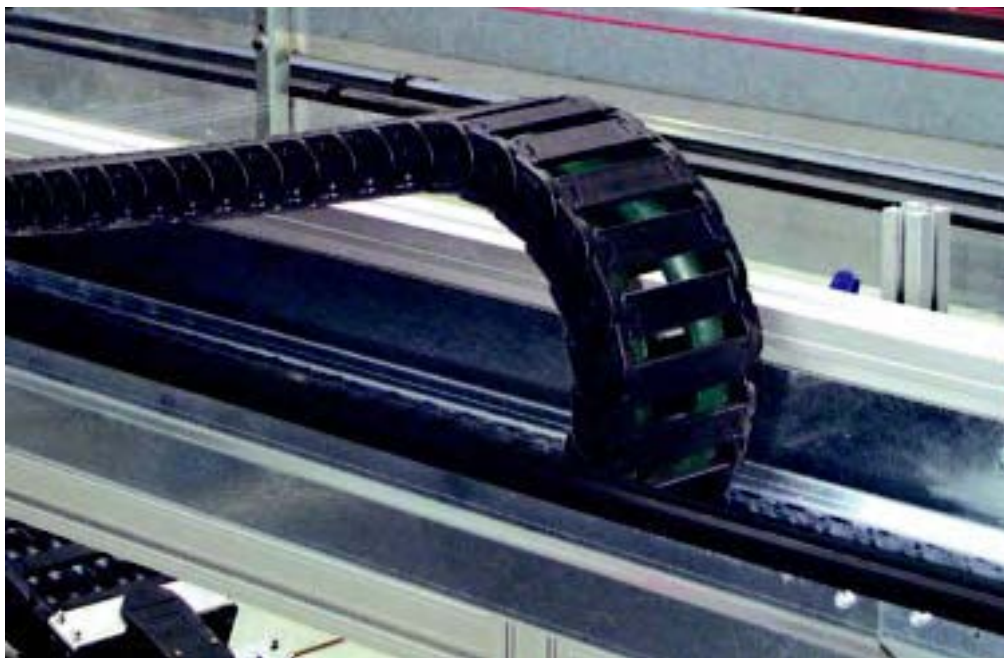
255.10.200.0 = e-chain® snap-open along outer radius, *Bi* **103** mm inner width, *R* **200** mm radius, color black
More order examples and configuration options ► page 5.236



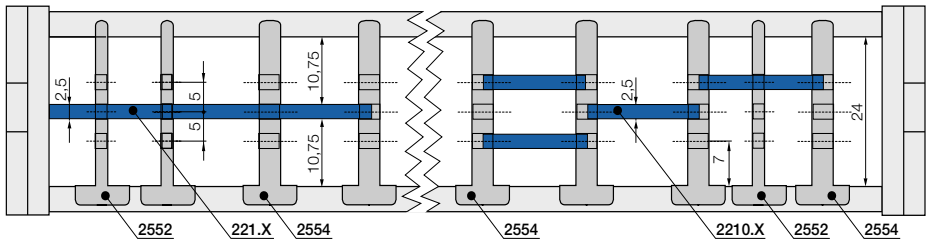
Part No. of e-chain® links as single parts ► page 5.141



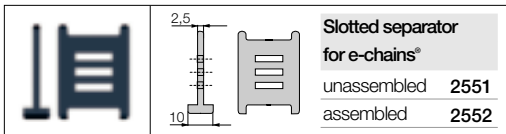
Standard e-chains® available from stock. Delivery in 24h or today!*
*Delivery time means time until shipping of goods



Series 255 - also suitable for long travel applications

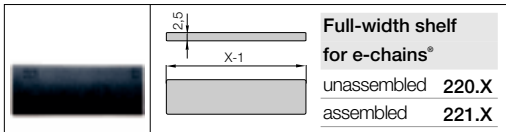
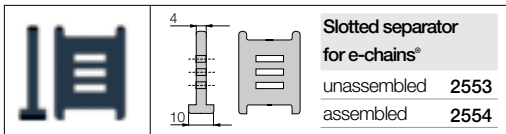


Separators, full-width shelves, shelves - In the standard configuration separators are assembled every 2nd e-chain® link



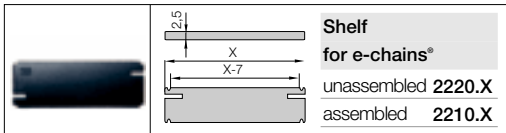
Standard slotted separator 2551 and slotted separator 2553

Vertical subdivision on e-chains®. Due to its slot, it allows basic vertical/horizontal shelving arrangements (determining which type of separator to use depends on any potential retrofit requirements).



Full-width shelf 220.X

This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).



Shelf 2220.X

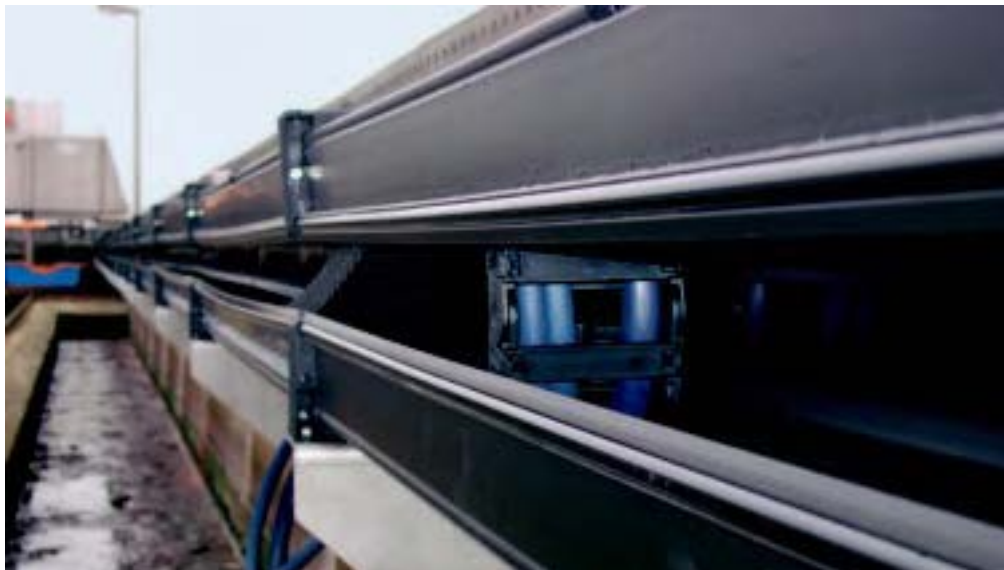
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
038	220.38	221.38	077	220.77	221.77
057	220.57	221.57	103	220.103	221.103

Shelves

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



Space-saving and compact energy supply with lbt flizz® -

Maintenance system, delivered preassembled with assembled igus® Series 255 e-chain®

Optional: Support tray tool kit.

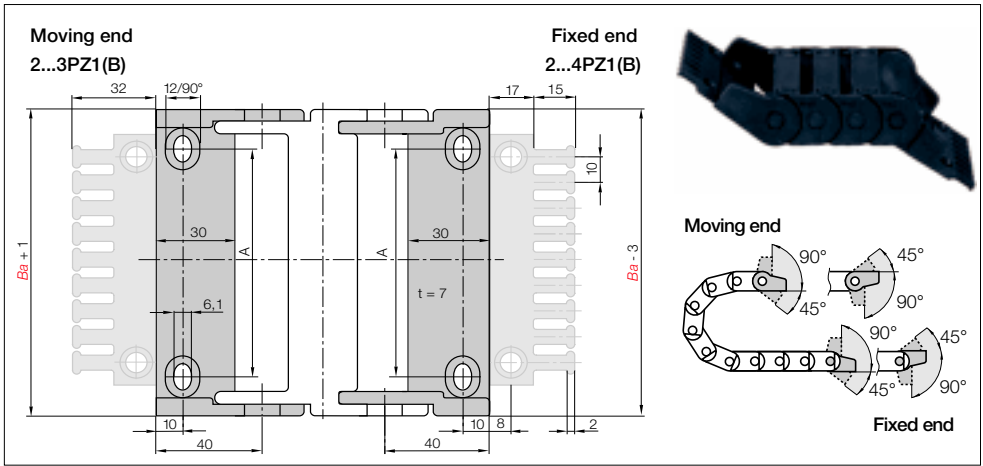
For support of the lower run.

Simple one-piece support trays according to your requirements and specification.

Order example - support tray with bracket, length 1,0 m, color black: **Part No.**

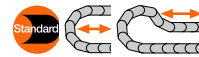
S9.011.05.1000.0. The complete range with order options ► from page 9.70





Polymer pivoting | Standard - Universal for e-chains®
Recommended for unsupported and gliding applications

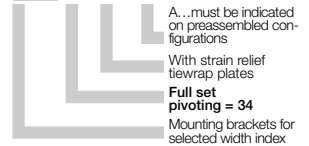
For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Zähnezahl
03. ▶	2030.34PZ1B	2030.34PZ1BK1	2030.34PZ1	25	4
05. ▶	2050.34PZ1B	2050.34PZ1BK1	2050.34PZ1	44	6
07. ▶	2070.34PZ1B	2070.34PZ1BK1	2070.34PZ1	64	8
10. ▶	2100.34PZ1B	2100.34PZ1BK1	2100.34PZ1	90	10



- Standard
- For tight installation conditions
- Strain relief with detachable chainfix tiewrap plates
- Corrosion resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

2100, 34 PZB A1



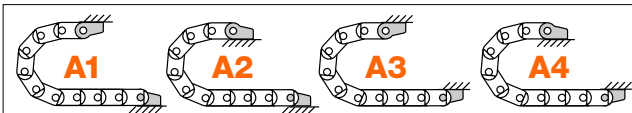
Single-part order

Mounting bracket **Moving end**

2100, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2100, 4 PZB A1 (preassembled + tiewrap plate)



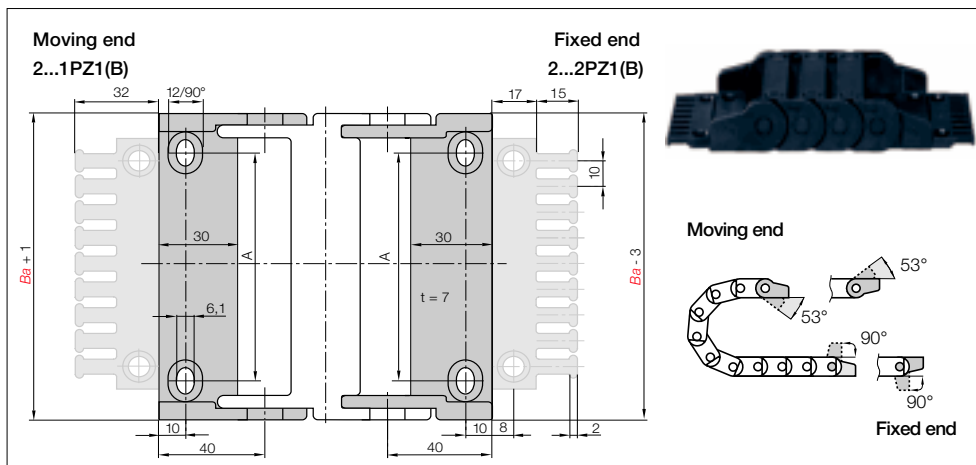
Possible installation conditions for assembled, pivoting mounting brackets.

For the **preassembled** mode please add index **A1... A4** ▶ e.g. **2100.34PZBA1**



Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

For very high speed and acceleration



Polymer locking | Universal for e-chains®

Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Zähnezahl
03.	▶ 2030.12PZ1B	2030.12PZ1BK1	2030.12PZ1	25	4
05.	▶ 2050.12PZ1B	2050.12PZ1BK1	2050.12PZ1	44	6
07.	▶ 2070.12PZ1B	2070.12PZ1BK1	2070.12PZ1	64	8
10.	▶ 2100.12PZ1B	2100.12PZ1BK1	2100.12PZ1	90	10



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure (locking)

2100. 12 PZB A1



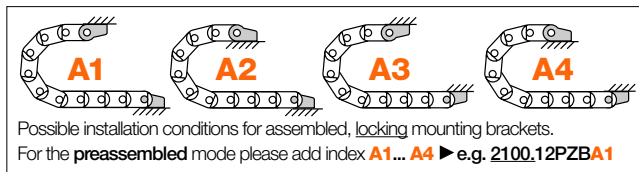
Single-part order

Mounting bracket **Moving end**

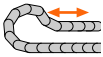
2100. 1 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2100. 2 PZB A1 (preassembled + tiewrap plate)

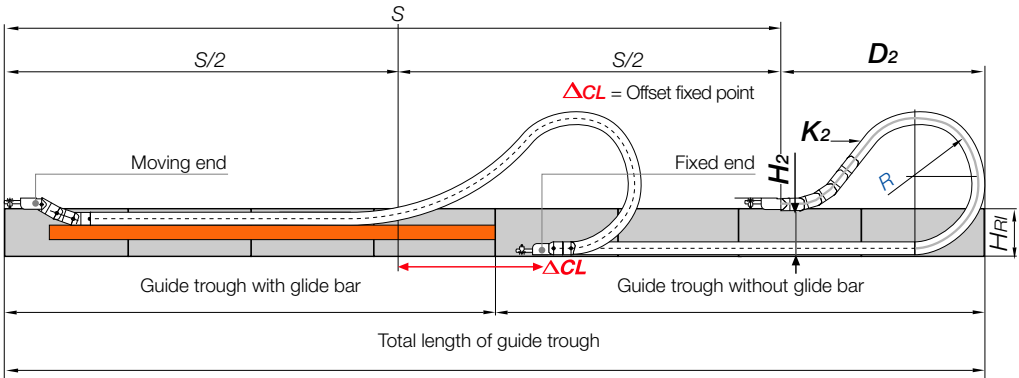


Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



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

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **In case of travels between 4 and 10 m we recommend a longer unsupported length.** More information ► **Design**, from page 1.16.



$$\text{Pitch} = 27,8 \text{ mm/link} \cdot \text{Links/m} = 36 (1000,8 \text{ mm}) \cdot \text{Chain length} = \frac{S}{2} + K$$

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	1040	1130
K_2	230	295	612	806	945	1112	1223	1610	1779
ΔCL	-	-	222	322	372	437	497	upon request	822

More details | For long travel applications

lbt flizz® - Enclosed plastic trough

Length of travel ≤ 200 m

$v_{\max}$ 8 m/s

High speeds and accelerations. Applicable for moving and stationary control ► page 9.100

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

$v_{\max}$ 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H_2 = Mounting height (if the moving end is set lower)
 D_2 = Over length - long travels, gliding

K_2 = Further add-on (if the moving end is set lower)
 R = Bending radius

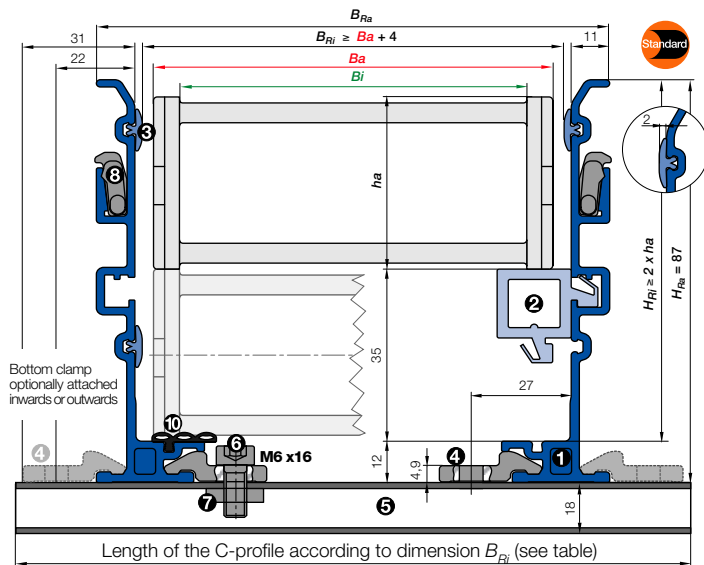
ΔCL = Offset fixed point
 H_R = Inner trough height

S = Length of travel
 $S/2$ = Half length of travel

255.10.200.0 ► Order example

	B_{Fi} [mm]	Part No. attached inwards	Part No. attached outwards
03	58	—	960.30.150
.05	77	960.30.125	960.30.175
.07	97	960.30.150	960.30.200
.10	123	960.30.175	960.30.225

Insert for the installation set "Heavy-Duty":
971.50.XXX instead of **960.30.XXX** on
the right column "**attached outwards**"



● **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber ● **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M6 x 16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic



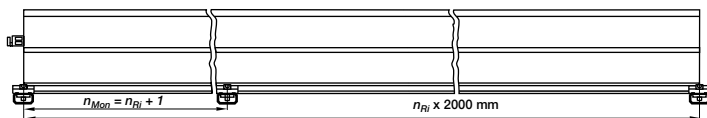
Center mounted for Series 255.10.200.0 with $B_{Ri} = 123$

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No.** 971.30.SL

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 971.31.SL**

Order text: 17 installation sets Part No.960.30.150

with silencer profile, please add Index A - Example: **Part No. 971.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ► from page 9.24



- Trough set
- Installation set
- Glide bar

- C-Profile
Ba = Outer width e-chains®
Bi = Inner width e-chains®

- B_{Ri} = Inner trough width
 B_{Ra} = Outer trough width
 H_{Pi} = Inner trough height

- H_{Ra} = Outer trough height
 n_{Mon} = Number of installation sets
 n_{σ_i} = Number of trough sets

*Standard*

*NC-Version -
(no camber)
without pretension*

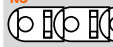
*Reverse bending
radius for circular
movements*

*Unsupported
lengths +25%
possible*

**Part No.
Standard
e-chains®/e-tubes**



**Part No.
NC-Material
e-chains®/e-tubes**



**Part No.
RBR
e-chains®**



**Part No.
XXL-Material**
e-chains®**

**255.10.R.0**

e-chain® snap-open along outer radius

255.10.R.0.NC

e-chain® snap-open along outer radius

255.10.R1/R2.0

e-chain® snap-open along outer radius

255.10.R.0.XXL

e-chain® snap-open along outer radius



**Delivery time
24h or today!***

**Delivery time:
3-5 work days**

**Delivery time:
10 work days**
(2-5 work days at
an express surcharge)

**Delivery time:
1-2 weeks**

**Lower part made of XXL-Material

Combination possibilities | Examples

	NC- Version	RBR- Version	XXL- Material	ESD- Material
NC- Version		–	–	255.10.R.0.ESD.NC
RBR- Version	–		–	255.10.R1/R2.0.ESD
XXL- Material	–	–		–
ESD- Material	255.10.R.0.ESD.NC	255.10.R1/R2.0.ESD	–	

E2 medium | Series 255 | Options and order key

ATEX / ESD
classified e-chains®
II 2 GD

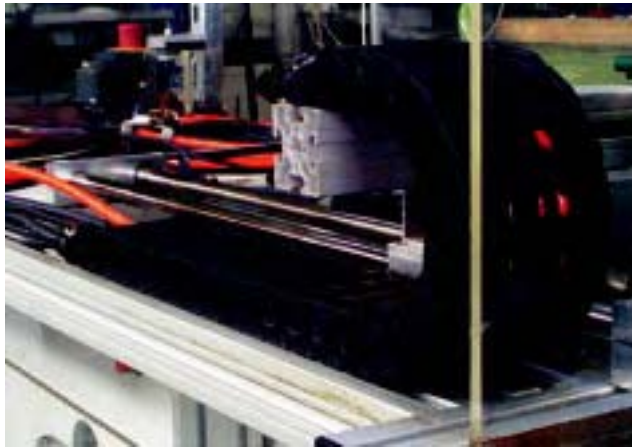
Part No.
ESD-Material
e-chains®



255.10.R.0.ESD

e-chain® snap-open along outer radius

Delivery time:
5 work days



Series 255 - small pitch, smooth running - test example at the igus® test lab

Order example | Order key and color options



**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 36 links **255.10.200.0**

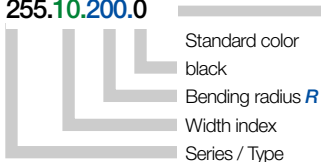
+ Mounting brackets 1 set (with tiewrap plates) **2100.34PZ1B**

+ Interior separation with 2 separators assembled every 2nd link **2 x 2552**

Order text: 1,0 m 255.10.200.0 + 2100.34PZ1B + 2 x Part No. 2552



Order key
255.10.200.0



Black e-chains® from stock!

*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9



Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods