



Price index



IPA Qualification Certificate Air
Cleanless Class ISO Class 3
(at $v = 2 \text{ m/s}$) upon request



ESD classification:
Electrically conductive ESD/ATEX
version upon request



UL94 V2 classifications
upon request



Snap-open mechanism, choice of snap-open on left or right. Hinged crossbar can be swiveled by more than 180° on both sides. Lightning-fast closing by hand. Secure fit without additional locking devices.



When to use the Series 3400/3450/3480/3500:

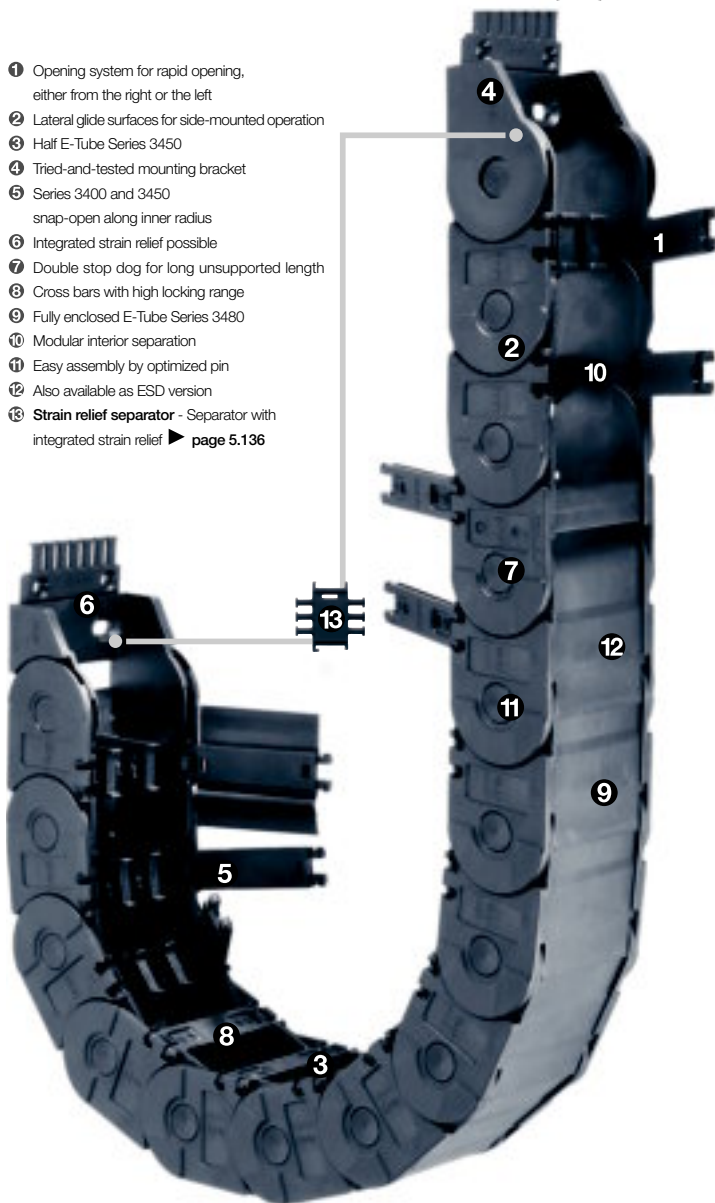
- Snap-open accessibility along both radii
- If integrated strain relief is required at the connection point
- Modular interior separation
- If long service life is required
- If easy installation is required
- If half E-Tube is required (Series 3450)
- If fully enclosed E-Tube is required (Series 3480)



When not to use it:

- If maximum stability is required
▶ **System E4.1, Series E4.42, page 7.48**
- If the application is very simple
▶ **Easy Chain®, Series E300, page 3.52**

- ❶ Opening system for rapid opening, either from the right or the left
- ❷ Lateral glide surfaces for side-mounted operation
- ❸ Half E-Tube Series 3450
- ❹ Tried-and-tested mounting bracket
- ❺ Series 3400 and 3450 snap-open along inner radius
- ❻ Integrated strain relief possible
- ❼ Double stop dog for long unsupported length
- ❽ Cross bars with high locking range
- ❾ Fully enclosed E-Tube Series 3480
- ❿ Modular interior separation
- ⓫ Easy assembly by optimized pin
- ⓬ Also available as ESD version
- ⓭ **Strain relief separator** - Separator with integrated strain relief ▶ **page 5.136**



Order example complete E-Chain®

Please indicate chain-lengths or number of links **Example: 3 m or 45 links**

3 m **3400.150.100.0**



E-Chain®

with 2 separators **311** assembled every 2nd link



Interior separation

1 set **3150.34PZB**



Mounting bracket

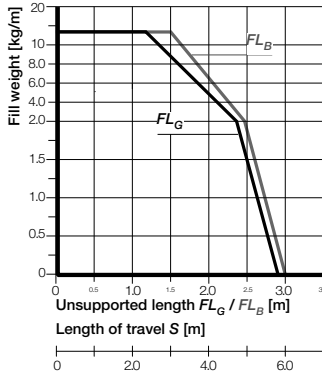
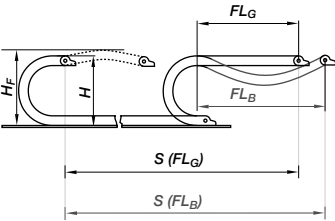


Unsupported length

FL_G = with straight upper run

FL_B = with permitted sag

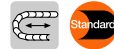
Further information ► Design, page 1.12



- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- H_F = Required clearance height
- H_{RI} = Trough inner height
- D = Overlength E-Chain® radius in final position
- $K = \pi \cdot R + \text{"safety"}$
- D_2 = Over length - long travels, gliding
- K_2 = "Further add-on"
- H_2 = "Mounting height"
- *If the mounting bracket location is set lower

Other installation methods

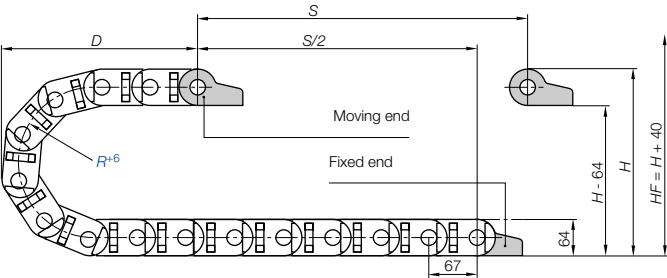
- Vertical, hanging ≤ 80 m
- Vertical, standing ≤ 3 m
- Side mounted, un supp. ≤ 1 m
- Rotary requires further calculation
- Unsupported length of upper run = upon request



Short travels - unsupported

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.

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

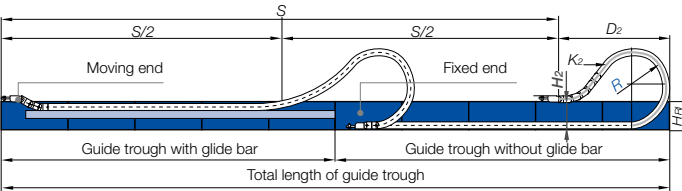


Pitch = 67 mm/link Links/m = 15 (1005 mm) Chain length = $S_2 + K$

	R	075*	100*	125	150	200	250	300
H	215	265	315	365	465	565	665	
D	150	200	225	250	300	350	400	
K	400	500	650	725	875	1050	1225	
H ₂	215	265	186	186	186	186	186	
D ₂ ⁺²⁵	150	200	475	570	780	1010	1150	
K ₂	400	500	804	1005	1340	1675	1943	

*for Series 3450/3480 upon request

Long travel lengths from 10 m to max. 150 m Chain length = $S_2 + K_2$



In case of travels between 4 and 10 m we recommend a longer unsupported length.



Gliding, long travel applications (max. 150 m)

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.

Technical Data



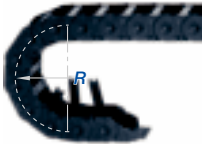
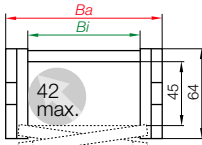
Details of material properties
► page 1.38

Speed / acceleration FL_G	max. 20 [m/s] / max. 200 [m/s]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s]
Gliding speed / acceleration (maximum)	max. 10 [m/s] / max. 50 [m/s]
Material - permitted temperature °C	igumid G / -40° up to +120° C
Flammability class, igumid G	VDE 0304 IIC UL94 HB



For support of the lower run - **Support Tray tool kit** available ► page 9.70





Part No. structure

3400.075.075.0



Series 3400 - E-Chain® - snap-open along inner radius

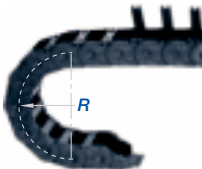
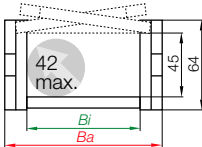
Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii								Weight [kg/m]
3400.050.	.0 50	70	075	100	125	150	200	250	300			≈ 1,60
3400.075.	.0 75	95	075	100	125	150	200	250	300			≈ 1,78
3400.100.	.0 100	120	075	100	125	150	200	250	300			≈ 1,93
3400.115.	.0 115	135	075	100	125	150	200	250	300			≈ 1,99
3400.125.	.0 125	145	075	100	125	150	200	250	300			≈ 2,03
3400.150.	.0 150	170	075	100	125	150	200	250	300			≈ 2,17
3400.175.	.0 175	195	075	100	125	150	200	250	300			≈ 2,28
3400.200.	.0 200	220	075	100	125	150	200	250	300			≈ 2,45
3400.225.	.0 225	245	075	100	125	150	200	250	300			≈ 2,59
3400.250.	.0 250	270	075	100	125	150	200	250	300			≈ 2,73

Supplement Part No. with required radius. Example: 3400.050.075.0

0 = standard color, other colors ► page 1.39 · Pitch = 67 mm/link · Links/m = 15



Please note: For using this series for long travels (gliding), please consult with igus® first. For long travels, igus® specifies E-Chains® that snap open on the outer radius.



Part No. structure

3500.075.075.0



Series 3500 - E-Chain® - snap-open along outer radius - Standard!

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii								Weight [kg/m]
3500.050.	.0 50	70	075	100	125	150	200	250	300			≈ 1,60
3500.075.	.0 75	95	075	100	125	150	200	250	300			≈ 1,78
3500.100.	.0 100	120	075	100	125	150	200	250	300			≈ 1,93
3500.115.	.0 115	135	075	100	125	150	200	250	300			≈ 1,99
3500.125.	.0 125	145	075	100	125	150	200	250	300			≈ 2,03
3500.150.	.0 150	170	075	100	125	150	200	250	300			≈ 2,17
3500.175.	.0 175	195	075	100	125	150	200	250	300			≈ 2,28
3500.200.	.0 200	220	075	100	125	150	200	250	300			≈ 2,45
3500.225.	.0 225	245	075	100	125	150	200	250	300			≈ 2,59
3500.250.	.0 250	270	075	100	125	150	200	250	300			≈ 2,73

Supplement Part No. with required radius. Example: 3500.050.075.0

0 = standard color, other colors ► page 1.39 · Pitch = 67 mm/link · Links/m = 15



Color
black
Bending
radius
Width
Series



Vertical Separator	
unassembled	301
assembled	311



Spacer*	
unassembled	305.08
assembled	315.08
unassembled	305.12
assembled	315.12



Strain Relief Separator	
unassembled	301.Z
assembled	311.Z



*For side-mounted applications

Option 1: Vertical Separators and Spacer for E-Chains®

Vertical Separators are used if a vertical subdivision of the E-Chain® interior is required -

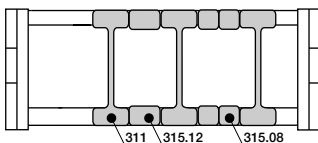
By standard Vertical Separators are assembled every other E-Chain® link

- Standard subdivision (Series 3400/Series 3500) with

Vertical Separator 311, for combinations with Full-Width Shelf 2210.X

- If a broad distance shall be kept between the separators or they have to be fixed in their position, e.g. in case of side mounted applications, **Spacer 315.08** and **Spacer 315.12** can be used

- **Strain Relief Separator 301.Z**, integrable in the mounting bracket, to position at any point



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51147 Cologne

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Vert. Separator, slotted	
unassembled	302
assembled	312



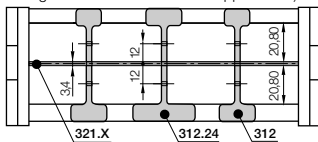
Vert. Separator, slotted	
unassembled	302.24
assembled	312.24



Option 2: Full-Width Shelves for E-Chains®

For applications involving many thin cables with similar or identical diameters

- Vertical Separator, slotted 312 and Vertical Separator, slotted 312.24 (with wide base, e.g. in case of side mounted applications) - for applications with Full-Width Shelf 321.X



Width X [mm]	Part No. unassembled	Part No. assembled
050	320.050	321.050
075	320.075	321.075
100	320.100	321.100
115	320.115	321.115
125	320.125	321.125

Width X [mm]	Part No. unassembled	Part No. assembled
150	320.150	321.150
175	320.175	321.175
200	320.200	321.200
225	320.225	321.225
250	320.250	321.250

Full-Width Shelf	
X-1	
t = 3,4	

Side Plate	
unassembled	303
assembled	313



Middle Plate	
unassembled	304
assembled	314



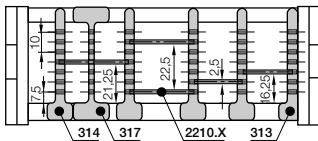
Slotted Separator, open	
unassembled	307
assembled	317



Option 3: Shelves for E-Chains®

For applications involving many cables with different diameters. The Shelves can be arranged elevator-shifted with different bottoms within the entire E-Chain® width

- Shelf 2210.X can be combined with Middle Plate 314 and Side Plate 313
- Option 3 "Shelves" can also be combined with option 1 "Vertical Separators"
- Assembling of the **Slotted Separator, open 317** in the existing separation afterwards possible



Width X [mm]	Part No. unassembled	Part No. assembled
018	2200.18	2210.18
023	2200.23	2210.23
028	2200.28	2210.28
033	2200.33	2210.33
038	2200.38	2210.38
043	2200.43	2210.43
048	2200.48	2210.48

Width X [mm]	Part No. unassembled	Part No. assembled
058	2200.58	2210.58
068	2200.68	2210.68
073	2200.73	2210.73
088	2200.88	2210.88
099	2200.99	2210.99
124	2200.124	2210.124
149	2200.149	2210.149

Shelf	
X	
X - 7	
t = 2,5	

Option 4: Vertical Separators for E-Tubes

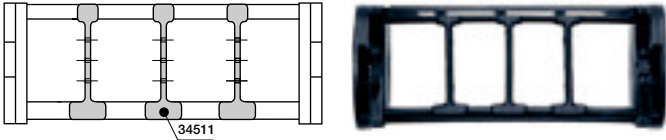
Vertical Separators are used if a vertical subdivision of the E-Tube interior is required -

By standard Vertical Separators are assembled every other E-Tube link

- **Standard** subdivision half E-Tube (**Series 3450**) and full E-Tube (**Series 3480**) with Vertical Separator 34511, for combinations with Full-Width Shelf 321.X
- **Strain Relief Separator** 34501.Z, integrable in the mounting bracket, to position at any point

Vert. Separator, slotted		
unassembled	34501	
assembled	34511	

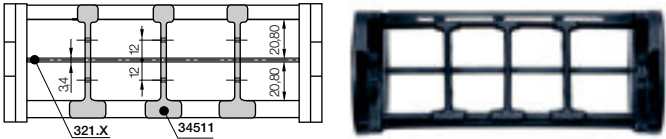
Strain Relief Separator		
unassembled	34501.Z	
assembled	34511.Z	



Option 5: Full-Width Shelves for E-Tubes

For applications involving many thin cables with similar or identical diameters

- **Vertical Separator, slotted 34511** - for applications with Full-Width Shelf 321.X



Width X [mm]	Part No. unassembled	Part No. assembled
050	320.050	321.050
075	320.075	321.075
100	320.100	321.100
115	320.115	321.115
125	320.125	321.125

Width X [mm]	Part No. unassembled	Part No. assembled
150	320.150	321.150
175	320.175	321.175
200	320.200	321.200
225	320.225	321.225
250	320.250	321.250

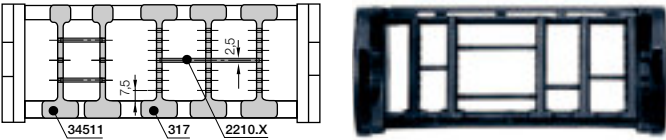
Full-Width Shelf	
X - 1	
t = 3,4	

Option 6: Shelves for E-Tubes

For applications involving many cables with different diameters. The Shelves can be arranged elevator-shifted with different bottoms within the entire E-Chain® width

- Assembling of the **Slotted Separator, open 317** in the existing separation afterwards possible
- Shelf 2210.X can be combined with **Slotted Separator, open 317**

Slotted Separator, open		
unassembled	307	
assembled	317	



Width X [mm]	Part No. unassembled	Part No. assembled
018	2200.18	2210.18
023	2200.23	2210.23
028	2200.28	2210.28
033	2200.33	2210.33
038	2200.38	2210.38
043	2200.43	2210.43
048	2200.48	2210.48

Width X [mm]	Part No. unassembled	Part No. assembled
058	2200.58	2210.58
068	2200.68	2210.68
073	2200.73	2210.73
088	2200.88	2210.88
099	2200.99	2210.99
124	2200.124	2210.124
149	2200.149	2210.149

Shelf	
X	
X - 7	
t = 2,5	

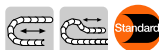
E2/000 medium
Inner height: 45 mm

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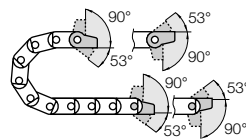
Possible installation conditions for assembled mounting brackets ► Order example "preassembled" below



The Standard - option polymer - pivoting

- Recommended for unsupported and gliding applications
- Well suited for tight installation conditions
- Strain relief with detachable tiewrap plates
- Variable traverse angle for flexible assembly
- The twistability of the E-Chain® and the option to assemble the mounting brackets on the fixed end and/or the moving end, enable various installation options

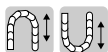
Moving end with bore
(outer link) 3...3PZ(B)



3...4PZ(B) Fixed end
with pin (inner link)



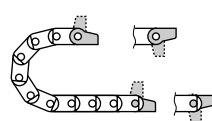
Possible installation conditions for assembled mounting brackets ► Order example "preassembled" below



Option polymer - locking

- Recommended for unsupported and gliding applications
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- The twistability of the E-Chain® and the option to assemble the mounting brackets on the fixed end and/or the moving end, enable various installation options

Moving end with bore
(outer link) 3...1PZ(B)



3...2PZ(B) Fixed end
with pin (inner link)

Dimensions and order configurations

Strain relief is possible on the moving end and/or the fixed end.

Part No. structure (pivoting)

3075. 34 PZB A1

A... must be indicated on preassembled configurations
With assembled strain relief tiewrap plates
Full set pivoting = 34
Mounting brackets for selected chain type

Full set, for both ends:

3075. 34 PZB + tiewrap plate

Single-part order:

3075. 3 PZB + tiewrap plate

Mounting bracket with bore

3075. 4 PZB + tiewrap plate

Mounting bracket with pin

Part No. structure (locking)

3075. 12 PZB A1

A... must be indicated on preassembled configurations
With assembled strain relief tiewrap plates
Full set locking = 12
Mounting brackets for selected chain type

Full set, for both ends:

3075. 12 PZB + tiewrap plate

Single-part order:

3075. 1 PZB + tiewrap plate

Mounting bracket with bore

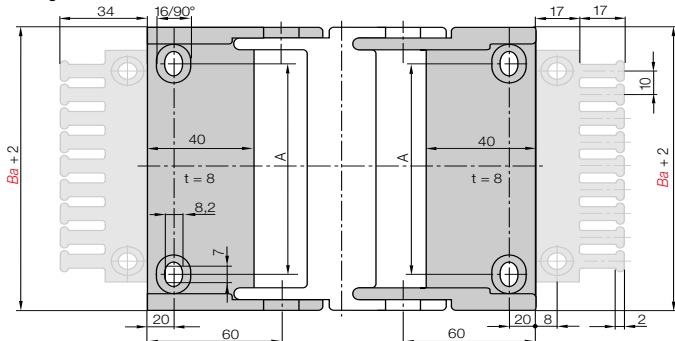
3075. 2 PZB + tiewrap plate

Mounting bracket with pin

3...3PZ(B) Standard! (pivoting)

3...1PZ(B) (locking)

Moving end



Standard! (pivoting) 3...4PZ(B)

(locking) 3...2PZ(B)

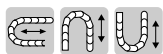
Fixed end

For E-Chain®	Part No. full set with tiewrap plate	Part No. with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]
3400 - 3500.050 ►	3050. PZB	3050. PZBK1	3050. PZ	28
3400 - 3500.075 ►	3075. PZB	3075. PZBK1	3075. PZ	53
3400 - 3500.100 ►	3100. PZB	3100. PZBK1	3100. PZ	78
3400 - 3500.115 ►	3115. PZB	3115. PZBK1	3115. PZ	93
3400 - 3500.125 ►	3125. PZB	3125. PZBK1	3125. PZ	103
3400 - 3500.150 ►	3150. PZB	3150. PZBK1	3150. PZ	128
3400 - 3500.175 ►	3175. PZB	3175. PZBK1	3175. PZ	153
3400 - 3500.200 ►	3200. PZB	3200. PZBK1	3200. PZ	178
3400 - 3500.225 ►	3225. PZB	3225. PZBK1	3225. PZ	203
3400 - 3500.250 ►	3250. PZB	3250. PZBK1	3250. PZ	228

Please add the Part No. with the requested index - 34 for the pivoting configuration

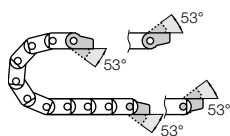
e.g. 3075. 34 PZB or 12 for the locking configuration e.g. 3075. 12 PZB

For the preassembled mode please add the index A1...A4 e.g. 3075. 34 PZB A1

**Steel mounting bracket - pivoting**

- Pivoting connections
- One part for all chain widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible

Moving end with bore
(outer link) 3000.1

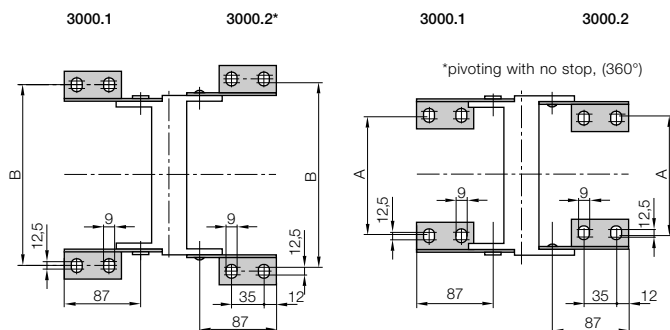


3000.2 Fixed end
with pin (inner link)



Possible installation conditions -

Further installation angles ► installation sketch

**Dimensions and
order configurations**

For E-Chain®	Part No. full set	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]
3400 - 3500.050 ►	3000.12	28	86	97
3400 - 3500.075 ►	3000.12	53	111	122
3400 - 3500.100 ►	3000.12	78	136	147
3400 - 3500.115 ►	3000.12	93	151	162
3400 - 3500.125 ►	3000.12	103	161	172
3400 - 3500.150 ►	3000.12	128	186	197
3400 - 3500.175 ►	3000.12	153	212	224
3400 - 3500.200 ►	3000.12	178	236	247
3400 - 3500.225 ►	3000.12	203	261	272
3400 - 3500.250 ►	3000.12	228	286	297

3000.12 Full set, 4 parts

2 with pin / 2 with bore

Single-part order:

3000.1 Mounting bracket

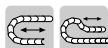
with bore, 1 part left / right

3000.2 Mounting bracket

with pin, 1 part left / right

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Fax +49- (0) 22 03-96 49-222





KMA = Polymer Metal
Mounting Bracket

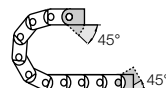
Option KMA, pivoting for E-Chains® Series 3400 and Series 3500

- Recommended for unsupported applications
- Bolted connection outside of chain cross-section
- Confined installation conditions
- Universal mountable with attachment capability on all sides
- Stackable

Moving end with bore

Series 3400 = 34001...1

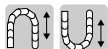
Series 3500 = 34001...1



Series 3400 = 34001...2

Series 3400 = 34001...2

Fixed end with pin



KMA = Polymer Metal
Mounting Bracket

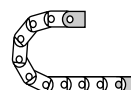
Option KMA, locking for E-Chains® Series 3400 and Series 3500

- Recommended for vertical hanging / standing applications
- Bolted connection outside of chain cross-section
- At very high speed and acceleration
- Universal mountable with attachment capability on all sides
- Stackable

Moving end with bore

Series 3400 = 34101...1

Series 3500 = 34101...1



Series 3400 = 34101...2

Series 3500 = 34101...2

Fixed end with pin

Dimensions and order configurations

Part No. structure (pivoting)

34001.050.12.C.A

A... must be indicated
on preassembled con-
figurations
Integrated C-profile
Full set
Breiten-Index
KMA pivoting for the
selected E-Chain type

Full set, for both ends:

34001.050.12.C (with C-profile)

Single-part order:

34001.050.1.C (with C-profile)

Mounting bracket with bore

34001.050.2.C (with C-profile)

Mounting bracket with pin

Part No. structure (locking)

34101.050.12.C.A

A... must be indicated
on preassembled con-
figurations
Integrated C-profile
Full set
Breiten-Index
KMA locking for the
selected E-Chain type

Full set, for both ends:

34101.050.12.C (with C-profile)

Single-part order:

34101.050.1.C (with C-profile)

Mounting bracket with bore

34101.050.2.C (with C-profile)

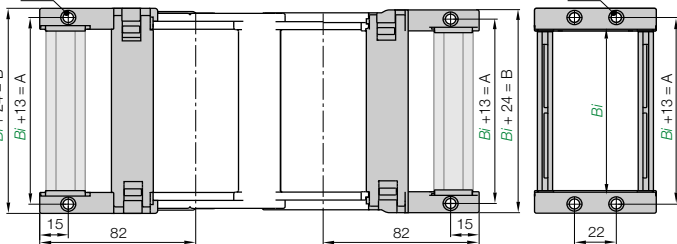
Mounting bracket with pin

3400 | 3500 = 34001...1 (pivoting)

3400 | 3500 = 34101...1 (locking)

Moving end

ø 5,5



3400 | 3500 = 34001...2 (pivoting)

3400 | 3500 = 34101...2 (locking)

Fixed end

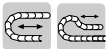
ø 5,5

For	Part No. full set	Part No. full set	Dim. A [mm]	Dim B [mm]
E-Chain®	with C-profile	without C-profile		
Series 3400/3500				
3400/3500.050	34001.050.12.C	34001.050.12	63	74
3400/3500.075	34001.075.12.C	34001.075.12	88	99
3400/3500.100	34001.100.12.C	34001.100.12	113	124
3400/3500.115	34001.115.12.C	34001.115.12	128	139
3400/3500.125	34001.125.12.C	34001.125.12	138	149
3400/3500.150	34001.150.12.C	34001.150.12	163	174
3400/3500.175	34001.175.12.C	34001.175.12	188	199
3400/3500.200	34001.200.12.C	34001.200.12	213	224
3400/3500.225	34001.225.12.C	34001.225.12	238	249
3400/3500.250	34001.250.12.C	34001.250.12	263	274

● For E-Chains® please add the Part No. with the requested index

For the pivoting option e.g. 34001.050.12 or for the locking option e.g. 34101.050.12

For the preassembled mode please add the index A e.g. 34101.050.12.A

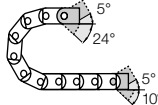


KMA = Polymer Metal
Mounting Bracket

Option KMA, pivoting for half E-Tubes
Series 3450 and for full E-Tubes Series 3480

- Recommended for unsupported applications
- Bolted connection outside of chain cross-section
- Confined installation conditions
- Universal mountable with attachment capability on all sides
- Stackable

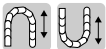
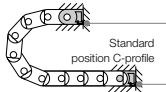
Moving end with bore
Series 3450 = 34500....1
Series 3480 = 34800....1



Series 3450 = 34500....2
Series 3480 = 34800....2
Fixed end with pin



The attachment variants arising automatically by the choice of the KMA mounting bracket

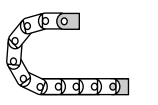


KMA = Polymer Metal
Mounting Bracket

Option KMA, locking for half E-Tubes Series 3450
Option KMA, locking for full E-Tubes Series 3480

- Recommended for vertical hanging / standing applications
- Bolted connection outside of chain cross-section
- At very high speed and acceleration
- Universal mountable with attachment capability on all sides
- Stackable

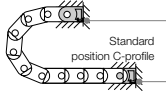
Moving end with bore
Series 3450 = 34510....1
Series 3480 = 34810....1



Series 3450 = 34510....2
Series 3480 = 34810....2
Fixed end with pin



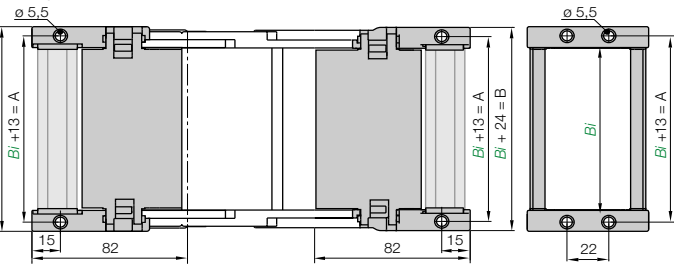
The attachment variants arising automatically by the choice of the KMA mounting bracket



3450 = 34500....1 | 3480 = 34800....1 (pivoting)
3450 = 34510....1 | 3480 = 34810....1 (locking)

3450 = 34500....2 | 3480 = 34800....2 (pivoting)
3450 = 34510....2 | 3480 = 34810....2 (locking)

Moving end

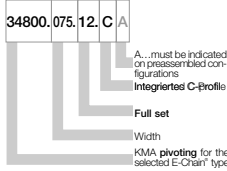


For E-Chain*	Part No. full set	Part No. full set without C-profile	Dim. A [mm]	Dim B [mm]
Series 3450/3480	with C-profile	without C-profile		
3450/3480.050	3450.12.C	3450.12	63	74
3450/3480.075	3450.12.C	3450.12	88	99
3450/3480.100	3450.12.C	3450.12	113	124
3450/3480.115	3450.12.C	3450.12	128	139
3450/3480.125	3450.12.C	3450.12	138	149
3450/3480.150	3450.12.C	3450.12	163	174
3450/3480.175	3450.12.C	3450.12	188	199
3450/3480.200	3450.12.C	3450.12	213	224
3450/3480.225	3450.12.C	3450.12	238	249
3450/3480.250	3450.12.C	3450.12	263	274

- For half E-Tube please add the Part No. with the requested index
For the pivoting option e.g. 34500.075.12 or for the locking option e.g. 34510.075.12
For the preassembled mode please add the index [A] e.g. 34510.075.12 [A]
- For full E-Tube please add the Part No. with the requested index
For the pivoting option e.g. 34800.075.12 or for the locking option e.g. 34810.075.12
For the preassembled mode please add the index [A] e.g. 34810.075.12 [A]

Dimensions and order configurations

Part No. structure (pivoting)



Full set, for both ends:

34800.075.12.C [A] (with C-profile)

Single-part order:

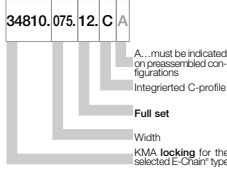
34800.075.1. [C] (with C-profile)

Mounting bracket with bore

34800.075.2. [C] (with C-profile)

Mounting bracket with pin

Part No. structure (locking)



Full set, for both ends:

34810.075.12.C [A] (with C-profile)

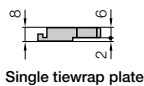
Single-part order:

34810.075.1. [C] (with C-profile)

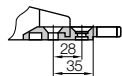
Mounting bracket with bore

34810.075.2. [C] (with C-profile)

Mounting bracket with pin



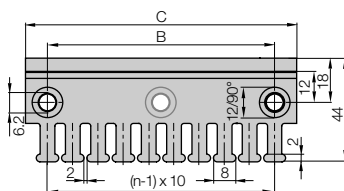
Single tie-wrap plate



Shown assembled

Tiewrap plate as individual part

As individual component screwed on KMA. Can be plugged in the mounting brackets. **Details ► chapter 10**



Tiewrap plate	No. of teeth n	Dim. C [mm]	Dim. B [mm]
3050.ZB	5	50	30
3075.ZB	7	75	55
3100.ZB	10	100	80
3115.ZB	11	115	95
3125.ZB	12	125	105
3150.ZB	15	150	130
3175.ZB	17	175	155
3200.ZB	20	200	180
3225.ZB	22	225	205
3250.ZB	25	250	230

(- = no / + = yes)



Cable tiewraps as individual part

Cable tiewraps (100-piece bag)	Width x length	max. Ø	Tensile strength
CFB.001	4,8 x 150 mm	36 mm	222 N

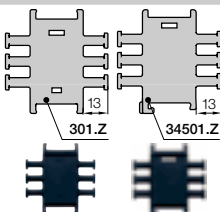


"Double" strain relief

If an E-Chain® is harnessed with a very large number of cables, strain relief may be necessary at two levels. Our 30XX.Z and 30XX.ZS strain relief system was developed for this purpose. It can be placed in any position along the E-Chain®. As required, the 30XX.Z and 30XX.ZS strain relief system is simply clamped onto the crossbar of the chain link. No additional installation elements are needed. **Details ► chapter 10**

Art. Nr. crossbar (fixed)	Width [mm]	No. of teeth
3050.Z*	50	5
3075.Z*	74	7
Art. Nr. crossbar (openable)	Width [mm]	No. of teeth
3035.ZS**	35	3
3050.ZS**	50	5
3075.ZS**	75	7

*not available for Series 3450 and 3480 **not available for Series 3480



Strain relief separator

Separator with integrated strain relief, for use in the first or last chain link. For manufacturing of switchgear cabinets or for the assembly of machines. Easy to assemble without any fastening device. Separator base 2020.Z is 18 mm and 34501.Z is 14 mm wide. The possible number of separators per E-Chain® is defined by its inner width B_i and by the cable-diameter. **Details ► chapter 10**

Part No.	Number of teeth	For Series
301.Z	3 both sides	3400/3500 E-Chain®
34501.Z	3 both sides	3450/3480 E-Tube



Strain relief for steel mounting brackets

Clip-on connection is not possible with steel mounting brackets. In this case, the tie-wrap plates must be bolted directly into separate bore holes in front of the mounting bracket. Alternatively the tie-wrap plates 30XX.Z and ZS can be also used here. **Details ► chapter 10**

Chainfix strain relief C-profile-solutions - more Details ► chapter 10



Other strain relief elements - optional ► chapter 10



Chainfix clamps made of steel or stainless steel



Chainfix Clips - modular, snap-on



Chainfix Nugget with pre-harnessed cable strap



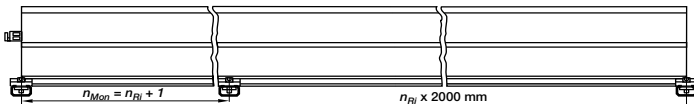
Chainfix - tie-wrap plates with clip-on connection



- **Components, trough "Basic":** ❶ Trough side parts, aluminum, 2 m ❷ Glide bar, plastic, 2 m ❸ Glide strips, plastic, 2 m (without glide strips on request) ❹ Optional: Silencer profile, rubber ● **Components, installation set "Basic":** ❶ Bottom clamp, aluminum ❷ C-profile, steel galvanized ❸ Screw M6 x16 ❹ Sliding nut M6 ❺ Interface connector, plastic



Guide trough set (set of 2 trough side parts, incl. glide strips) without glide bar	Part No.	973.30.SL
Order text: 16 m guide trough without glide bar (8 x 2 m sections)		
Guide trough set (set of 2 trough side parts, incl. glide strips) with glide bar	Part No.	973.31.SL
Order text: 16 m guide trough with glide bar (8 x 2 m sections)		
Installation set "Basic" complete (guide trough-sets + 1)	Part No.	960.40.175
Order text: 17 installation sets "Basic"		
Module for the fixed end	Part No.	973.80
Order text: 1 set		
Option: For an additional noise dampening with silencer profile, please add Index A - Example:	Part No.	973.30.SLA



- Quick relocation of the stationary end
- No drilling necessary



Ba = Outer width E-Chains® / E-Tube
Bi = Inner width E-Chains® / E-Tube
ha = Outer height E-Chains® / E-Tube
H_{Ri} = Inner trough height
H_{Ra} = Outer trough height
B_{Ri} = Inner trough width ► depends on dim. Ba
B_{Ra} = Outer trough width
n_{Mon} = Number of installation sets (left/right)
n_{Ri} = Number of trough sets (left/right)

H_{Ri} ≥ 2 • ha
B_{Ri} ≥ Ba + 4

 = Guide trough set  = Glide bar
 = Installation set "Basic"  = C-Profile

Bottom Clamp attached optionally
inwards or outwards

3500.075.200.0 ► Order example

	B_{Ri}	Part No. attached	Part No. attached
	[mm]	inwards	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"

Phone +49- (0) 22 03-96 49-800
Fax +49- (0) 22 03-96 49-222