

2400
2450
2480
2500



● ● ● Price index

IPA Qualification Certificate Air
Cleanless Class ISO Class 3
(at v = 2 m/s)

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 2400/2450/2480/2500:

- 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 2450)
- If fully enclosed E-Tube is required (Series 2480)



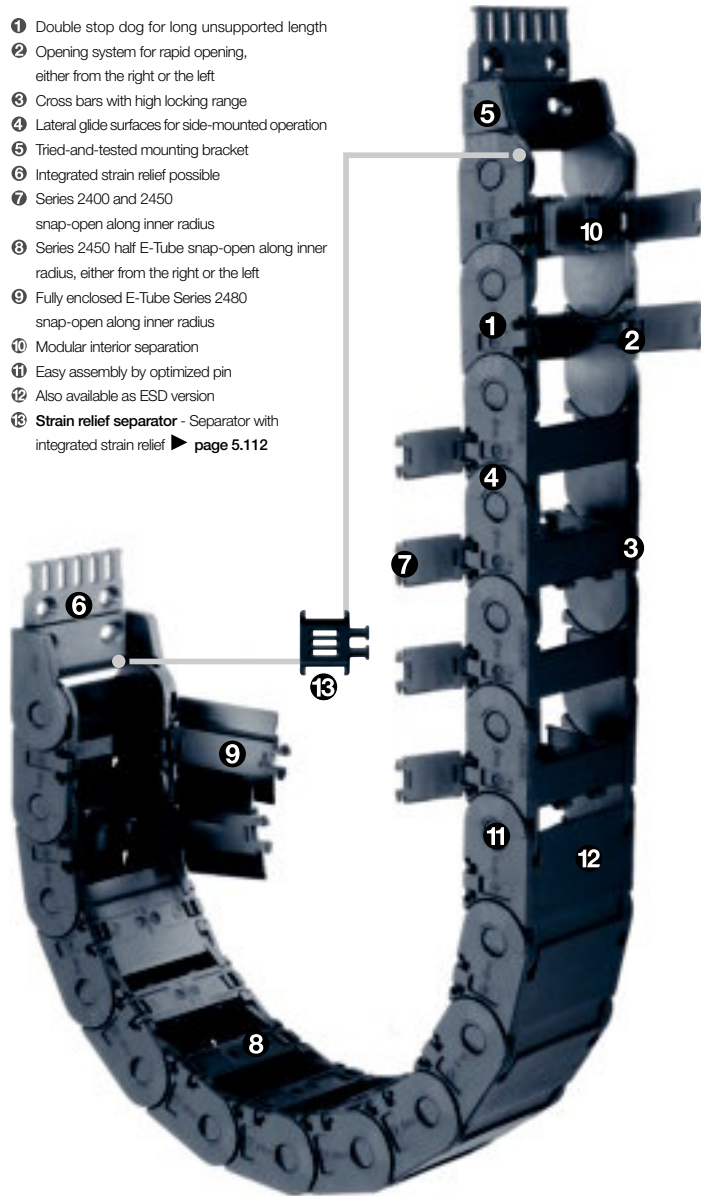
When not to use it:

- If maximum stability is required
▶ System E4.1, Series E4.21, page 7.16
- If the application is very simple
▶ Easy Chain®, Series E200, page 3.36
- E-Tubes with small bending radii 060, 075
▶ System E2 E-Tubes, Series R48, page 6.26

E2/000 | Series 2400·2450·2480·2500



- ❶ Double stop dog for long unsupported length
- ❷ Opening system for rapid opening, either from the right or the left
- ❸ Cross bars with high locking range
- ❹ Lateral glide surfaces for side-mounted operation
- ❺ Tried-and-tested mounting bracket
- ❻ Integrated strain relief possible
- ❼ Series 2400 and 2450 snap-open along inner radius
- ❽ Series 2450 half E-Tube snap-open along inner radius, either from the right or the left
- ❾ Fully enclosed E-Tube Series 2480 snap-open along inner radius
- 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 5.112



Order example complete E-Chain®

Please indicate chain-lengths or number of links Example: 3 m or 66 links

3 m 2500.10.100.0

E-Chain®

with 2 separators 211 assembled every 2nd link

Interior separation

1 set 2100.34PZB+

Mounting bracket

5.102



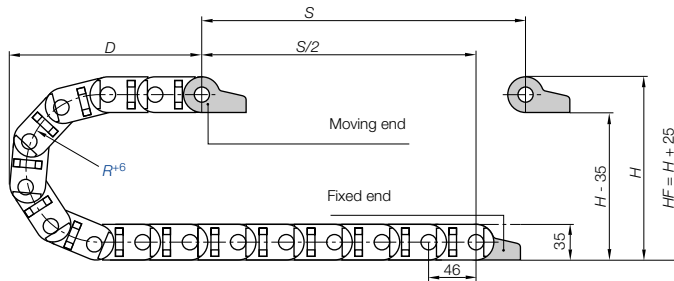
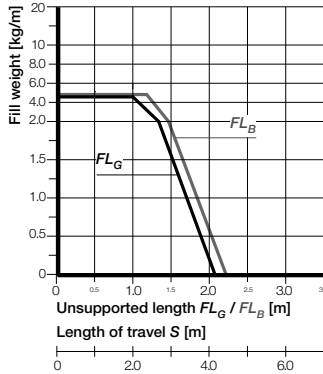
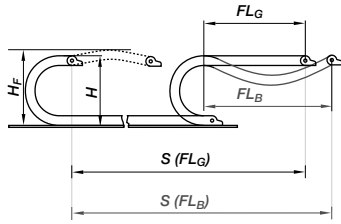
Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)

E2/000 | Series 2400 · 2450 · 2480 · 2500 | Dimensions and Technical Data



Unsupported length

FL_G = with straight upper run
 FL_B = with permitted sag
 Further information ► **Design, page 1.12**



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

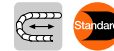
| | 055* | 075* | 100 | 125 | 150 | 175 | 200 | 225 | 250 |
|-------------|------|------|-----|-----|------|------|------|------|------|
| H | 145 | 185 | 235 | 285 | 335 | 385 | 435 | 485 | 535 |
| D | 125 | 150 | 170 | 195 | 220 | 245 | 270 | 295 | 320 |
| K | 276 | 346 | 414 | 496 | 578 | 660 | 742 | 814 | 920 |
| H_2 | 145 | 185 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| D_2^{+25} | 125 | 150 | 380 | 440 | 590 | 755 | 950 | 1040 | 1130 |
| K_2 | 276 | 346 | 644 | 736 | 1012 | 1242 | 1472 | 1610 | 1794 |

*for Series 2450/2480 upon request

- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- H_F = Required clearance height
- H_{in} = Trough inner height
- D = Overlength E-Chain* radius in final position
- K = $\pi \cdot R$ + "safety"
- D_2 = Overlength - 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 ≤ 40 m
- Vertical, standing ≤ 3 m
- Side mounted, unupp. ≤ 1 m
- Rotary requires further calculation
- Unsupported length of upper run = upon request

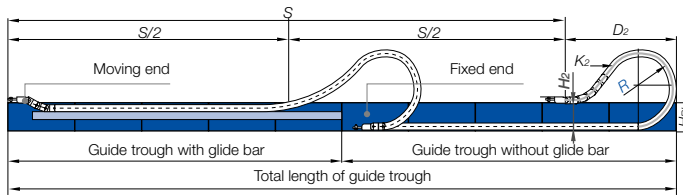


Short travels - unsupported

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

Long travel lengths from 10 m to max. 100 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. 100 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

| | |
|--|--|
| Speed / acceleration FL_G | max. 20 [m/s] / max. 200 [m/s ²] |
| Speed / acceleration FL_B | max. 3 [m/s] / max. 6 [m/s ²] |
| Gliding speed / acceleration (maximum) | max. 10 [m/s] / max. 50 [m/s ²] |
| Material - permitted temperature °C | igumid G / -40° up to +120° C |
| Flammability class, igumid G | VDE 0304 IIC UL94 HB |



Details of material properties
 ► page 1.38

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

2400
2450
2480
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E2/000 medium
Inner height: 25 mm

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► page 5.91

5.103

2400
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igus® E-ChainsSystems®

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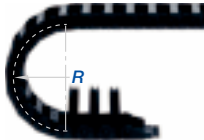
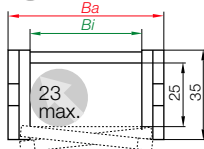
igus® GmbH
51147 Cologne

Internet: www.igus.eu
E-mail: info@igus.de

5.104



E2/000 | E-Chains® | Series 2400·2500 | Product Range



Part No. structure

2400. 02. 055. 0

Color
black
Bending
radius
Width
Series

Series 2400 E-Chain® - snap-open along inner radius

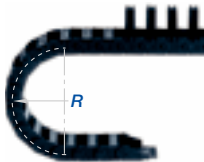
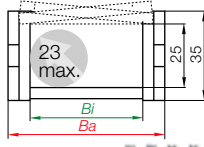
| Part No. | B_i [mm] | B_a [mm] | R [mm] | Bending radii | | | | | | | | | | Weight [kg/m] |
|-------------|------------|------------|----------|---------------|-----|-----|-----|-----|-----|-----|-----|--------|--|---------------|
| 2400.02.□.0 | 25 | 41 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,77 | | |
| 2400.03.□.0 | 38 | 54 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,83 | | |
| 2400.05.□.0 | 57 | 73 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,91 | | |
| 2400.07.□.0 | 77 | 93 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,01 | | |
| 2400.09.□.0 | 89 | 105 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,08 | | |
| 2400.10.□.0 | 103 | 119 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,15 | | |
| 2400.12.□.0 | 125 | 141 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,22 | | |

Supplement Part No. with required radius. Example: 2400.02.055.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 46 mm/link - Links/m = 22



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

2500. 02. 055. 0

Color
black
Bending
radius
Width
Series

Standard Series 2500 - E-Chain® - snap-open along outer radius - Standard!

| Part No. | B_i [mm] | B_a [mm] | R [mm] | Bending radii | | | | | | | | | | Weight [kg/m] |
|-------------|------------|------------|----------|---------------|-----|-----|-----|-----|-----|-----|-----|--------|--|---------------|
| 2500.02.□.0 | 25 | 41 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,77 | | |
| 2500.03.□.0 | 38 | 54 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,83 | | |
| 2500.05.□.0 | 57 | 73 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 0,91 | | |
| 2500.07.□.0 | 77 | 93 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,01 | | |
| 2500.09.□.0 | 89 | 105 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,08 | | |
| 2500.10.□.0 | 103 | 119 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,15 | | |
| 2500.12.□.0 | 125 | 141 | 055 | 075 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | ≈ 1,22 | | |

Supplement Part No. with required radius. Example: 2500.02.055.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 46 mm/link - Links/m = 22



E2/000 | E-Tubes | Series 2450·2480 | Product Range



Series 2450 - half E-Tube - snap-open along inner radius

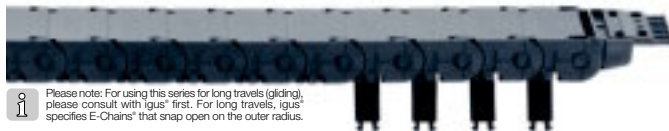
| Part No. | Bi [mm] | Ba [mm] | R [mm] | Bending radii | Weight [kg/m] |
|----------|---------|---------|--------|-----------------------------|---------------|
| 2450.02. | 0 | 25 | 41 | 100 125 150 175 200 225 250 | ≈ 0,80 |
| 2450.03. | 0 | 38 | 54 | 100 125 150 175 200 225 250 | ≈ 0,88 |
| 2450.05. | 0 | 57 | 73 | 100 125 150 175 200 225 250 | ≈ 0,99 |
| 2450.07. | 0 | 77 | 93 | 100 125 150 175 200 225 250 | ≈ 1,12 |
| 2450.09. | 0 | 89 | 105 | 100 125 150 175 200 225 250 | ≈ 1,20 |
| 2450.10. | 0 | 103 | 119 | 100 125 150 175 200 225 250 | ≈ 1,27 |
| 2450.12. | 0 | 125 | 141 | 100 125 150 175 200 225 250 | ≈ 1,35 |

The widths **Bi 125** are available upon request. Time of delivery approx. 6-8 weeks after order.

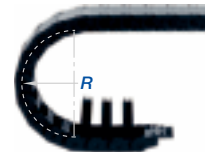
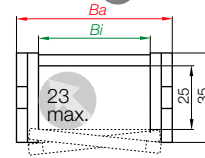
The bending radii **055 075** are available upon request.

Supplement Part No. with required radius. Example: 2450.02.**100**.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 46 mm/link - Links/m = 22



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

2450. 02. **100**. 0



Series 2480 - E-Tube - snap-open along inner radius

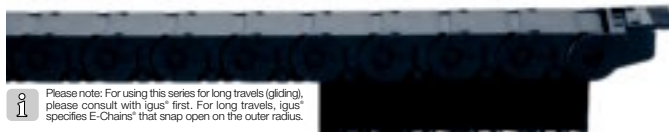
| Part No. | Bi [mm] | Ba [mm] | R [mm] | Bending radii | Weight [kg/m] |
|----------|---------|---------|--------|-----------------------------|---------------|
| 2480.02. | 0 | 25 | 41 | 100 125 150 175 200 225 250 | ≈ 0,82 |
| 2480.03. | 0 | 38 | 54 | 100 125 150 175 200 225 250 | ≈ 0,92 |
| 2480.05. | 0 | 57 | 73 | 100 125 150 175 200 225 250 | ≈ 1,03 |
| 2480.07. | 0 | 77 | 93 | 100 125 150 175 200 225 250 | ≈ 1,17 |
| 2480.09. | 0 | 89 | 105 | 100 125 150 175 200 225 250 | ≈ 1,26 |
| 2480.10. | 0 | 103 | 119 | 100 125 150 175 200 225 250 | ≈ 1,34 |
| 2480.12. | 0 | 125 | 141 | 100 125 150 175 200 225 250 | ≈ 1,43 |

The widths **Bi 25/125** are available upon request. Time of delivery approx. 6-8 weeks after order.

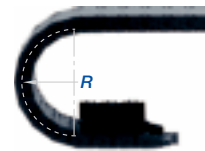
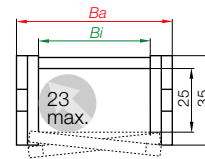
The bending radii **055 075** are available upon request.

Supplement Part No. with required radius. Example: 2480.03.**100**.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 46 mm/link - Links/m = 22



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

2480. 03. **100**. 0

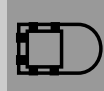


For smaller bending radii we recommend the fully closed E-Tubes, Series R48 ▶ page 6.34

2450
2480

E2/000 medium
Inner height: 25 mm

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



▶ page 5.91

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

igus® GmbH
51147 Cologne

Internet: www.igus.eu
E-mail: info@igus.de

5.106



E2/000 | E-Chains® | Series 2400·2500 | Interior Separation



Vertical Separator

| | |
|-------------|-----|
| unassembled | 201 |
| assembled | 211 |



Vertical Separator*

| | |
|-------------|--------|
| unassembled | 201.28 |
| assembled | 211.28 |



Spacer*

| | |
|-------------|--------|
| unassembled | 205.09 |
| assembled | 215.09 |



Strain Relief Separator

| | |
|-------------|--------|
| unassembled | 2020.Z |
| assembled | 2120.Z |



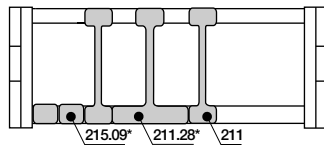
*For side-mounted applications

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 2400/Series 2500) with Vertical Separator 211
- 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, **Separators with wide base 211.28** or **Spacer 215.09** (not for openable crossbars) can be used
- **Strain Relief Separator 2020.Z**, integrable in the mounting bracket, to position at any point



Vert. Separator, slotted

| | |
|-------------|-----|
| unassembled | 202 |
| assembled | 212 |



Side Plate

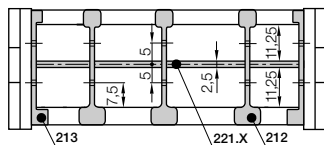
| | |
|-------------|-----|
| unassembled | 203 |
| assembled | 213 |



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

For applications involving many thin cables with similar or identical diameters

- Vertical Separator, slotted 212 and Side Plate 213 - for applications with Full-Width Shelf 221.X



Full-Width Shelf

| |
|---------|
| X - 1 |
| t = 2,5 |

| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 025 | 220.25 | 221.25 |
| 038 | 220.38 | 221.38 |
| 057 | 220.57 | 221.57 |
| 077 | 220.77 | 221.77 |

| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 090 | 220.90 | 221.90 |
| 103 | 220.103 | 221.103 |
| 125 | 220.125 | 221.125 |

Side Plate

| | |
|-------------|------|
| unassembled | 2030 |
| assembled | 2130 |



Vert. Separator, slotted

| | |
|-------------|------|
| unassembled | 2040 |
| assembled | 2140 |



Middle Plate

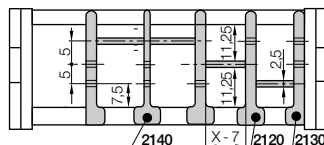
| | |
|-------------|------|
| unassembled | 2020 |
| assembled | 2120 |



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 2120, Vertical Separator, slotted 2140 and Side Plate 2130



Shelf

| |
|---------|
| X |
| X - 7 |
| t = 2,5 |

| 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 |

| Width X [mm] | Part No. unassembled | Part No. assembled |
|--------------|----------------------|--------------------|
| 048 | 2200.48 | 2210.48 |
| 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 |

E2/000 | E-Tubes | Series 2450·2480 | Interior Separation




2400
2450
2480
2500

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 of the half E-Tube (Series 2450) and the fully enclosed E-Tube (Series 2480) with Vertical Separator, slotted 24511, for combinations with Full-Width Shelf 221.X
- Strain Relief Separator 2020.ZR, integrable in the mounting bracket, to position at any point

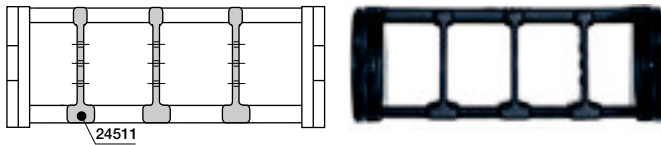
| | |
|--------------------------|-------|
| Vert. Separator, slotted | |
| unassembled | 24501 |
| assembled | 24511 |



| | |
|-------------------------|---------|
| Strain Relief Separator | |
| unassembled | 2020.ZR |
| assembled | 2120.ZR |



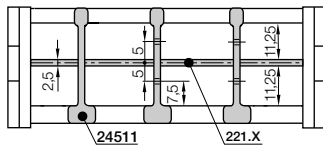
E2/000 medium
Inner height: 25 mm



Option 5: Full-Width Shelves for E-Tubes

For applications involving many thin cables with similar or identical diameters

- Vertical Separator, slotted 24511 - for applications with Full-Width Shelf 221.X



| Width X [mm] | Part No. | |
|-----------------|-------------|-----------|
| | unassembled | assembled |
| 025 | 220.25 | 221.25 |
| 038 | 220.38 | 221.38 |
| 057 | 220.57 | 221.57 |
| 077 | 220.77 | 221.77 |

| Width X [mm] | Part No. | |
|-----------------|-------------|-----------|
| | unassembled | assembled |
| 090 | 220.90 | 221.90 |
| 103 | 220.103 | 221.103 |
| 125 | 220.125 | 221.125 |

| |
|------------------|
| Full-Width Shelf |
| X - 1 |
| t = 2,5 |

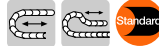
Phone +49- (0) 22 03-96 49-800
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▶ page 5.91

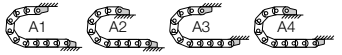
2400
2450
2480
2500

igus® Series 2400 · 2450 · 2480 · 2500 | Accessories | Mounting Brackets, Polymer



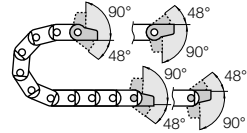
The Standard - option polymer - pivoting

- Recommended for unsupported and gliding applications
- Well suited for tight installation conditions
- Strain relief with detachable tiwrap 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

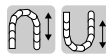


Possible installation conditions for assembled mounting brackets ▶ Order example "preassembled" below

Moving end with bore
(outer link) 2...3PZ(B)+



2...4PZ(B)+ Fixed end
with pin (inner link)



Option polymer - locking

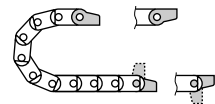
- Recommended for unsupported and gliding applications

Furthermore:

- 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

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

Moving end with bore
(outer link) 2...1PZ(B)+



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

igus® GmbH
51147 Cologne

Internet: www.igus.eu
E-mail: info@igus.de

5.108

Dimensions and order configurations

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

Part No. structure (pivoting)

| | | | |
|-------|----|--------|--|
| 2020. | 34 | PZB+A1 | |
|-------|----|--------|--|

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

- Full set, for both ends:
2020. 34 PZB+ +tiwrap plate
- Single-part order:
2020. 3 PZB+ +tiwrap plate
- Mounting bracket with bore
2020. 4 PZB+ +tiwrap plate
- Mounting bracket with pin

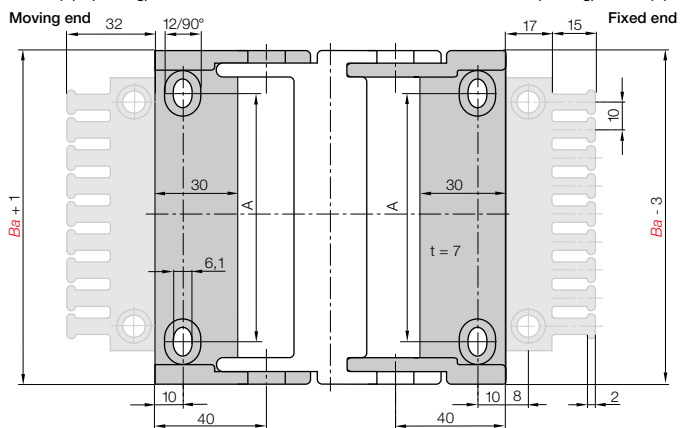
Part No. structure (locking)

| | | | |
|-------|----|--------|--|
| 2020. | 12 | PZB+A1 | |
|-------|----|--------|--|

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

- Full set, for both ends:
2020. 12 PZB+ +tiwrap plate
- Single-part order:
2020. 1 PZB+ +tiwrap plate
- Mounting bracket with bore
2020. 2 PZB+ +tiwrap plate
- Mounting bracket with pin

2...3PZ(B)+ Standard! (pivoting)
2...1PZ(B)+ (locking)



| For E-Chain® | Part No. full set with tiwrap plate | Part No. with tiwrap plate + 10 cable tiwraps | Part No. full set without tiwrap plate | Dim. A [mm] |
|------------------|-------------------------------------|---|--|-------------|
| 2400 - 2500.02 ▶ | 2020. [] PZB+ | 2020. [] PZBK1+ | 2020. [] PZ+ | 12 |
| 2400 - 2500.03 ▶ | 2030. [] PZB+ | 2030. [] PZBK1+ | 2030. [] PZ+ | 25 |
| 2400 - 2500.05 ▶ | 2050. [] PZB+ | 2050. [] PZBK1+ | 2050. [] PZ+ | 44 |
| 2400 - 2500.07 ▶ | 2070. [] PZB+ | 2070. [] PZBK1+ | 2070. [] PZ+ | 64 |
| 2400 - 2500.09 ▶ | 2090. [] PZB+ | 2090. [] PZBK1+ | 2090. [] PZ+ | 77 |
| 2400 - 2500.10 ▶ | 2100. [] PZB+ | 2100. [] PZBK1+ | 2100. [] PZ+ | 90 |
| 2400 - 2500.12 ▶ | 2125. [] PZB+ | 2125. [] PZBK1+ | 2125. [] PZ+ | 112 |

Please add the Part No. with the requested index - 34 for the pivoting configuration e.g. 2020. 34 PZB+ or 12 for the locking configuration e.g. 2020. 12 PZB+

For the preassembled mode please add the index A1...A4 e.g. 2020. 34 PZB+ A1

Info ▶ www.igus.de/en/2400 · www.igus.de/en/2450 · www.igus.de/en/2480 · www.igus.de/en/2500

Series 2400 · 2450 · 2480 · 2500 | Accessories | Mounting Brackets, Steel



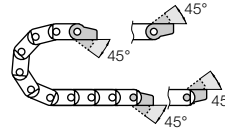
2400
2450
2480
2500



Steel mounting bracket - pivoting

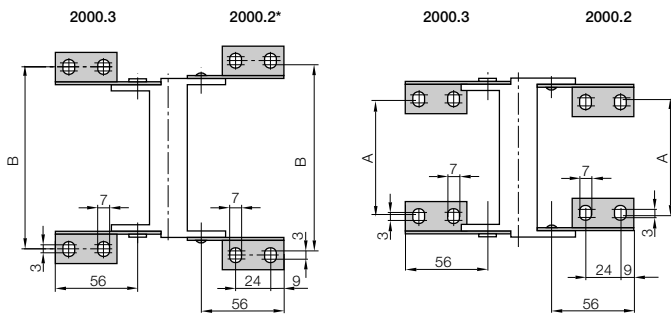
- Pivoting connections
- One part for all chain widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible

Moving end with bore
(outer link) 2000.3



2000.2 Fixed end
with pin (inner link)

Possible installation conditions -
Further installation angles ► installation sketch



Dimensions and order configurations

*pivoting with no stop, (360°)

| For E-Chain* | Part No. full set | Dim. A [mm] | Dim. B [mm] |
|------------------|-------------------|-------------|-------------|
| 2400 - 2500.02 ► | 2000.32 | - | 60 |
| 2400 - 2500.03 ► | 2000.32 | 25 | 73 |
| 2400 - 2500.05 ► | 2000.32 | 44 | 92 |
| 2400 - 2500.07 ► | 2000.32 | 64 | 112 |
| 2400 - 2500.09 ► | 2000.32 | 76 | 124 |
| 2400 - 2500.10 ► | 2000.32 | 90 | 138 |
| 2400 - 2500.12 ► | 2000.32 | 112 | 160 |

2000.32 Full set, 4 parts
2 with pin / 2 with bore

Single-part order:

2000.3 Mounting bracket
with bore, 1 part left / right

2000.2 Mounting bracket
with pin, 1 part left / right

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► page 5.91

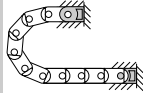
2400
2450
2480
2500

igus® E-Chains® | Series 2400·2500 | Accessories | Mounting Brackets, KMA



Option KMA, pivoting for E-Chains® Series 2400 and Series 2500

- Recommended for unsupported applications
- Bolted connection outside of chain cross-section
- Confined installation conditions
- Universal mountable with attachment capability on all sides
- Strain relief separator pluggable into the KMA-bracket, adjustable in 3 heights
- Stackable

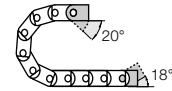


The attachment variants arising automatically by the choice of the KMA mounting bracket

Moving end with bore

Series 2400 = 24001...1

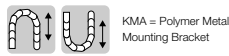
Series 2500 = 24001...1



Series 2400 = 24001...2

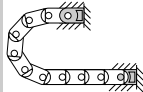
Series 2500 = 24001...2

Fixed end with pin



Option KMA, locking for E-Chains® Series 2400 and Series 2500

- 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
- Strain relief separator pluggable into the KMA-bracket, adjustable in 3 heights
- Stackable

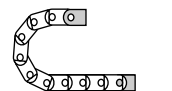


The attachment variants arising automatically by the choice of the KMA mounting bracket

Moving end with bore

Series 2400 = 24101...1

Series 2500 = 24101...1



Series 2400 = 24101...2

Series 2500 = 24101...2

Fixed end with pin

Dimensions and order configurations

2400 | 2500 = 24001...1 (pivoting)

2400 | 2500 = 24101...1 (locking)

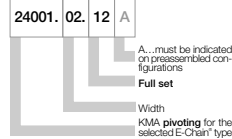
2400 | 2500 = 24001...2 (pivoting)

2400 | 2500 = 24101...2 (locking)

Moving end

Fixed end

Part No. structure (pivoting)



Full set, for both ends:

24001.02.12

Single-part order:

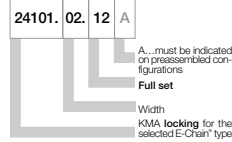
24001.02.1

Mounting bracket with bore

24001.02.2

Mounting bracket with pin

Part No. structure (locking)



Full set, for both ends:

24101.02.12

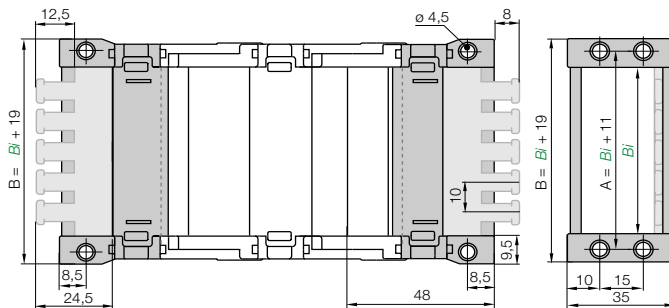
Single-part order:

24101.02.1

Mounting bracket with bore

24101.02.2

Mounting bracket with pin



| For E-Chain® | Part No. full set with tiewrap plate | Part No. full set without tiewrap plate | Dim. A [mm] | Dim. B [mm] |
|-------------------|--------------------------------------|---|-------------|-------------|
| Series 2400/2500 | | | | |
| 2400.02 / 2500.02 | 24001.02.12.ZB | 24001.02.12 | 36 | 44 |
| 2400.03 / 2500.03 | 24001.03.12.ZB | 24001.03.12 | 49 | 57 |
| 2400.05 / 2500.05 | 24001.05.12.ZB | 24001.05.12 | 68 | 76 |
| 2400.07 / 2500.07 | 24001.07.12.ZB | 24001.07.12 | 88 | 86 |
| 2400.09 / 2500.09 | 24001.09.12.ZB | 24001.09.12 | 100 | 108 |
| 2400.10 / 2500.10 | 24001.10.12.ZB | 24001.10.12 | 114 | 122 |
| 2400.12 / 2500.12 | 24001.12.12.ZB | 24001.12.12 | 136 | 144 |

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

For the pivoting option e.g. 24001.02.12 or for the locking option e.g. 24101.02.12

For the preassembled mode please add the index [A] e.g. 24001.02.12[A]

igus® GmbH
51147 Cologne

Internet: www.igus.eu
E-mail: info@igus.de

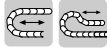
5.110

Info ► www.igus.de/en/2400 · www.igus.de/en/2450 · www.igus.de/en/2480 · www.igus.de/en/2500

E-Tubes | Series 2450 · 2480 | Accessories | Mounting Brackets, KMA



2400
2450
2480
2500



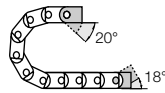
KMA = Polymer Metal Mounting Bracket

Option KMA, pivoting for half E-Tubes Series 2450 and for full E-Tubes Series 2480

- Recommended for unsupported applications
- Bolted connection outside of chain cross-section
- Confined installation conditions
- Universal mountable with attachment capability on all sides
- Strain relief separator pluggable into the KMA-bracket, adjustable in 3 heights
- Stackable

Moving end with bore

Series 2450 = 24501...1
Series 2480 = 24801...1



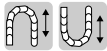
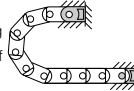
Series 2450 = 24501...2

Series 2480 = 24801...2

Fixed end with pin



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



KMA = Polymer Metal Mounting Bracket

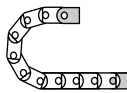
Option KMA, locking for half E-Tubes Series 2450 and for full E-Tubes Series 2480

- 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
- Strain relief separator pluggable into the KMA-bracket, adjustable in 3 heights
- Stackable

Moving end with bore

Series 2450 = 24511...1

Series 2480 = 24811...1



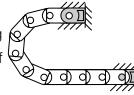
Series 2450 = 24511...2

Series 2480 = 24811...2

Fixed end with pin



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

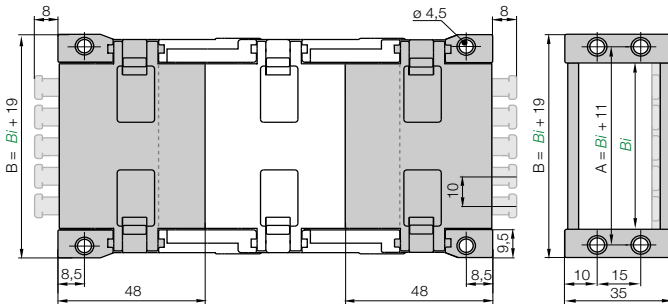


2450 = 24501...1 | 2480 = 24801...1 (pivoting)
2450 = 24511...1 | 2480 = 24811...1 (locking)

2450 = 24501...2 | 2480 = 24801...2 (pivoting)
2450 = 24511...2 | 2480 = 24811...2 (locking)

Moving end

Fixed end

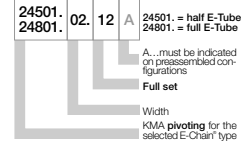


| For E-Chain* | Part No. full set with | Part No. full set without | Dim. A [mm] | Dim. B [mm] |
|-------------------|------------------------|---------------------------|-------------|-------------|
| Series 2400/2500 | tiewrap plate | tiewrap plate | | |
| 2450.02 / 2480.02 | ...02.12.ZB | ...02.12 | 36 | 44 |
| 2450.03 / 2480.03 | ...03.12.ZB | ...03.12 | 49 | 57 |
| 2450.05 / 2480.05 | ...05.12.ZB | ...05.12 | 68 | 76 |
| 2450.07 / 2480.07 | ...07.12.ZB | ...07.12 | 88 | 96 |
| 2450.09 / 2480.09 | ...09.12.ZB | ...09.12 | 100 | 108 |
| 2450.10 / 2480.10 | ...10.12.ZB | ...10.12 | 114 | 122 |
| 2450.12 / 2480.12 | ...12.12.ZB | ...12.12 | 136 | 144 |

- For **half E-Tube** please add the Part No. with the requested index
For the pivoting option e.g. [24501.02.12](#) or for the locking option e.g. [24511.02.12](#)
For the **preassembled** mode please add the index [A](#) e.g. [24501.02.12A](#)
- For **full E-Tube** please add the Part No. with the requested index
For the pivoting option e.g. [24801.02.12](#) or for the locking option e.g. [24811.02.12](#)
For the **preassembled** mode please add the index [A](#) e.g. [24801.02.12A](#)

Dimensions and order configurations

Part No. structure (pivoting)



Full set, for both ends:

[24501./24801.02.12](#)

Single-part order:

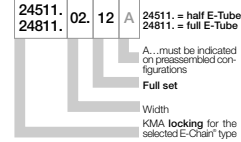
[24501./24801.02.1](#)

Mounting bracket with bore

[24501./24801.02.2](#)

Mounting bracket with pin

Part No. structure (locking)



Full set, for both ends:

[24511./24811.02.12](#)

Single-part order:

[24511./24811.02.1](#)

Mounting bracket with bore

[24511./24811.02.2](#)

Mounting bracket with pin

2400
2450
2480
2500

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

igus® GmbH
51147 Cologne

Internet: www.igus.eu
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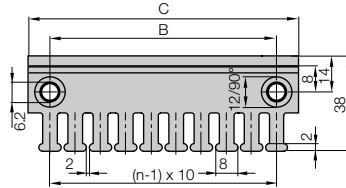
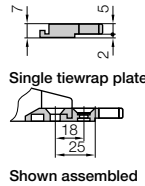


E2/000 | Series 2400 · 2450 · 2480 · 2500 | Accessories | Strain Relief



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 <i>n</i> | Dim. C [mm] | Dim. B [mm] |
|----------------------------------|-----------------------|-------------|-------------|
| 2020.ZB | 3 | 30 | 15 |
| 2030.ZB | 4 | 40 | 20 |
| 2040.ZB | 5 | 50 | 30 |
| 2050.ZB | 6 | 60 | 40 |
| 2070.ZB | 8 | 80 | 60 |
| 2090.ZB = (2030.ZB + 2040.ZB) | 9 | 90 | - |
| 2100.ZB | 10 | 100 | 80 |
| 2125.ZB = (2050.ZB + 2050.ZB) | 12 | 120 | - |



Cable tiewraps as individual part

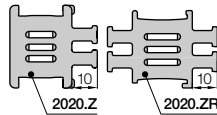
| Cable tiewraps (100-piece bag) | Width x length | max. Ø | Tensile strength |
|--------------------------------|----------------|--------|------------------|
| CFB.001 | 4,8 x 150 mm | 36 mm | 222 N |



"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 2050.Z strain relief system was developed for this purpose. It can be placed in any position along the E-Chain®. As required, the 2050.Z strain relief system is simply clamped onto the crossbar of the chain link. No additional installation elements are needed. **Details ▶ chapter 10**

| Part No. | Width strain relief [mm] | |
|----------|--------------------------|-------------------------------------|
| 2050.Z* | 60 | *not available for Series 2450/2480 |



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 and 2020.ZR is 10 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 |
|----------|-----------------|--------------------|
| 2020.Z | 2 one side | 2400/2500 E-Chain® |
| 2020.ZR | 2 both sides | 2450/2480 E-Tube |



Strain relief for steel mounting brackets

Clip-on connection is not possible with steel mounting brackets. In this case, the tiewrap plates must be bolted directly into separate bore holes in front of the mounting bracket. Alternatively the tiewrap plates 20XX.ZB can be also used here. **Details ▶ chapter 10**



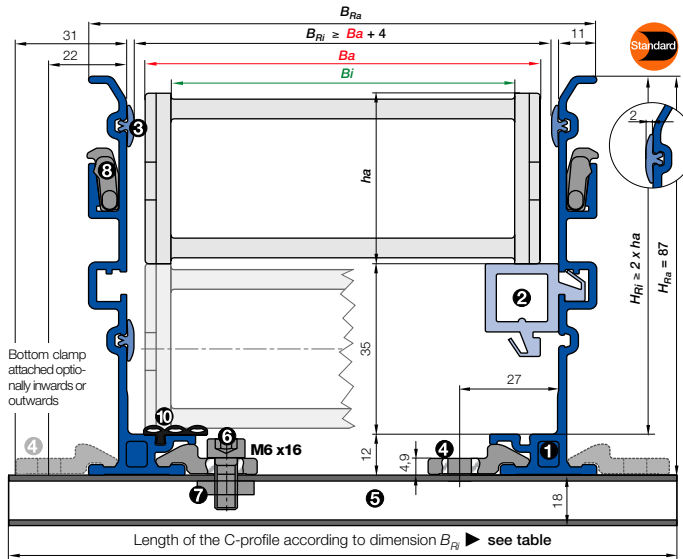
Other strain relief elements - optional ▶ chapter 10

Info ▶ www.igus.de/en/2400 · www.igus.de/en/2450 · www.igus.de/en/2480 · www.igus.de/en/2500

Part No. 971.30 | 971.31 | Trough height: 87 mm
 Aluminum "SuperTrough" | Basic Version



2400
 2450
 2480
 2500



- B_a = Outer width E-Chains® / E-Tube
- B_i = Inner width E-Chains® / E-Tube
- h_a = Outer height E-Chains® / E-Tube
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width ▶ depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = Number of installation sets (left/right)
- n_{Ri} = Number of trough sets (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- ! $B_{Ri} \geq B_a + 4$
- = Guide trough set ● = Glide bar
- = Installation set "Basic" ● = C-profile

Installation set "Basic" with C-profile

Bottom Clamp attached optionally inwards or outwards

2500.05.200.0 ▶ Order example

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

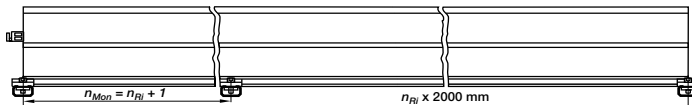
Insert for the installation set "Heavy-Duty": **971.50.XXX** instead of (960.30.XXX) on the right column "attached outwards"



- **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, steel galvanized ⑥ Screw M6 x16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic

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

- Guide trough set (set of 2 trough side parts, incl. glide strips) **without** glide bar
 Order text: 16 m guide trough without glide bar (8 x 2 m sections) Part No. 971.30.SL
- Guide trough set (set of 2 trough side parts, incl. glide strips) **with** glide bar
 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 "Basic" Part No. 960.30.125
- Module for the fixed end
 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



A quick fix for mounting the stationary end of an E-Chain®
 With this module for the fixed end, fast and easy mounting onto the Aluminum "SuperTrough" is now possible without any drilling. Fast mounting of the E-Chain® by clamping onto the aluminum trough

- Quick relocation of the stationary end
- No drilling necessary

Details about Alu "SuperTrough" and further guidance possibilities ▶ chapter 9, guide troughs

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