# E6 clean-room

## Extremely low noise, vibration and abrasion, cleanroom suitable

### Advantages of the E6 system:

- For very high speeds and accelerations
- For small bend radii
- High strength
- Available as closed e-tube for some sizes
- **Low-noise 37dB(A)[1)]** - extremely low noise and vibration
- **IPA cleanroom Class 1[2)]-** virtually no wear or abrasion

1) Extremely low-noise - tested at the igus® lab 2) Cleanroom - series E6.29.060.150.0.CR

### When to use another e-chain® series:

- With only limited suitability for side-mounted applications
  **► E4.1L, page 538 ► E2/000, page 374**
- When a Reverse Bend Radius ***RBR*** is required
  **► E4.1L, page 538 ► E2/000, page**
- For longer unsupported lengths
  **► E4.1L, page 538 ► E2/000, page 374**
- For long travels
  **► E4.1, page 616 ► E2/000, page 374**
- For even less vibration and noise or even greater dynamics
  **► E6.1, page 832**
- When an enclosed e-chain® is required
  **► e-skin® corrugated tube SK / SKS/SKY, page 812**

Attachment from any side: with KMA mounting brackets

**Low noise from 37dB(A)[1]:** small pitch for low noise, smooth running

Long service life: low vibration, high strength

Dynamic: high speeds and accelerations

Quick assembly: openable along the inner and outer radius

Modular design: can be easily lengthened and shortened

High strength: for unsupported applications

No wear: polymer spring - no pin and bore connection

Variant: available as closed e-tube for some sizes

**IPA cleanroom Class 1[2]:** virtually no wear or abrasion

# Extremely low noise, vibration and abrasion, cleanroom suitable - system E6

The E6 series offers numerous advantages in addition to long life. It provides extremely quiet, low vibration operation, complimenting low vibration linear drives. It minimises the polygon effect which can occur during the rolling motion of an e-chain®. The ultra-low noise levels have been confirmed in a recent report by the Rheinland Technical Inspection Agency. Our extensive product range offers the right e-chain® size for any application; a wide range of interior separation is also available.

1) Extremely low-noise - tested at the igus® lab

2) Cleanroom - series E6.29.060.150.0.CR

**Typical industries and applications**

● Cleanroom ● Stage and theatre technology ● Printing machines ● Automation ● Machine tools ● Measuring machines ● Semiconductor industry ● Medical industry ● Electronic industry ● General machinery

**IPA Qualification Certificate[2] - Report IG 0704-400:**
ISO Class 1, according to DIN EN ISO 14644-1 for system E6, series E6.29.060.150 at *v* = 0.5m/s, 2.0m/s

37dB(A)[1] - value determined at the igus® test lab, *v* = 1.0m/s unsupported, series E6.29.080.075.0



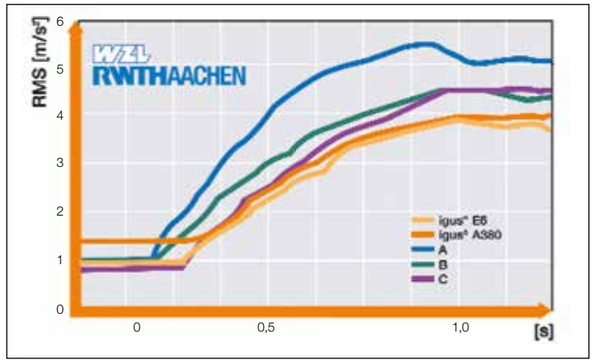


| Series | Inner height *hi* [mm] | Inner width *Bi* [mm] | Outer width *Ba* [mm] | Outer height *ha* [mm] | Bend radius *R* [mm] | Unsupported length ≤ [m] | Page |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **E6 e-chains®** crossbars removable along the inner and outer radius - standard | | | | | | | |
| **E6.29** | 29 | 30 - 140 | 46 - 156 | 35 | 055 - 150 | ≈ 1.75 | **878** |
| **E6.35** | 35 | 30 - 140 | 50 - 160 | 42 | 055 - 150 | ≈ 1.90 | **884** |
| **E6.40** | 40 | 40 - 300 | 60 - 320 | 54 | 063 - 200 | ≈ 2.50 | **888** |
| **E6.52** | 52 | 40 - 300 | 64 - 324 | 65 | 075 - 250 | ≈ 3.00 | **894** |
| **E6.62** | 62 | 50 - 400 | 86 - 436 | 84 | 115 - 350 | ≈ 4.00 | **900** |
| **E6.80L** | 80 | 87 - 550 | 115 - 578 | 108 | 150 - 300 | ≈ 2.50 | **904** |
| **E6.80** | 80 | 50 - 600 | 100 - 650 | 108 | 150 - 450 | ≈ 5.25 | **910** |
| | | | | | | | |
| **R6 e-tubes** fully enclosed - lids removable along the inner and outer radius | | | | | | | |
| **R6.29** | 28 | 30 - 120 | 46 - 136 | 35 | 055 - 150 | ≈ 1.75 | **878** |
| **R6.40** | 40 | 62 | 82 | 54 | 063 - 200 | ≈ 2.50 | **888** |
| **R6.52** | 52 | 50 - 200 | 74 - 224 | 65 | 075 - 250 | ≈ 3.00 | **894** |

**Available from stock.** Ready to ship in 72hrs.*

*Average time before the ordered goods are dispatched.

**Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ▶ From page 144**

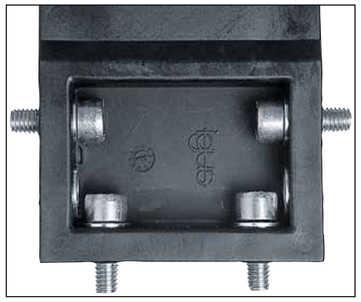



## E6 system - extremely quiet operation

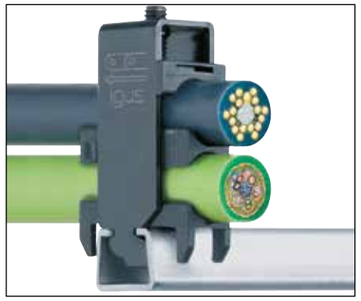
Study by the Machine Tools Laboratory and Business Operations (WZL) at RWTH Aachen on "Vibration Tests in Energy Supply Chains". Results: the "E6" energy supply system made by igus® GmbH, Cologne, is characterised by extremely low vibration and smooth operation.

Lean separators enable extremely fast cable filling in several layers

Pivoting KMA mounting brackets - pivot angle corresponds to the bend radius

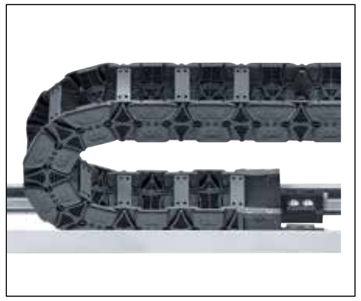


KMA mounting brackets with attachment options from any side



Strain relief e.g. clamps, tiewrap plates, nuggets, etc. ▶ **From page 1392**

Aluminium"SuperTrough" - the standard igus® guide trough ▶ **From page 1298**



Aluminium and steel support tray for support of the lower run ▶ **From page 1358**

A linear drive provides the highly dynamic feed for PCBs. This system is twice as fast as handling units with a toothed-belt drive; designed to withstand high dynamic loads, E6 e-chains® ensure a supply of power, coolant and control data with ultra-low noise and vibration





## Suitability of E6 e-chains® for cleanrooms - almost no wear or abrasion

By using a special material, the already low abrasion of the e-chain® can be reduced even further. In many applications where cumbersome special solutions are required, a simple standard e-chain® can be used instead. A comprehensive test programme was devised and performed for both gliding and unsupported use. For many applications, the e-chains® in special materials are virtually abrasion-free. IPA tests confirm that standard igus® e-chains® meet cleanroom requirements. "Tested and certified as very good!" e-chains® for cleanroom applications demand very high wear resistance of moving parts. e-chains®, for example, must be very wear-resistant, in order to meet the normal requirements for such a sensitive environment.

By eliminating the pin/bore connection, the unsupported E6 has very low abrasion and is suitable for cleanrooms

**IPA Qualification Certificate - Report IG 0704-400:**

- **Special material "cleanroom" - IPA cleanroom Class 1, according to DIN EN ISO 14644-1**
  for series E6.29.060.150.0.CR at *v* = 0.5m/s, 2.0m/s
- **Standard material - IPA cleanroom Class 3, according to DIN EN ISO 14644-1**
  for series E6.29.060.150.0 at *v* = 0.5m/s, 2.0m/s and
  series E6.29.050.055.0 with fitted cables CF34.15.04, CF9.05.12, CF11.02.01.02.PBA.LC.D

## E6 e-chains® in low-noise areas - from 37dB(A)

### Selected noise tests - external noise corrected measurement values

| e-chain® series | Test speed and test method | | Averaging of the corrected sound pressure levels |
|---|---|---|---|
| **igus® series E6.29*** | *v* = 1.0m/s | unsupported | **≈ 37 dB(A)** |
| **igus® series E6.52*** | *v* = 0.5m/s | side mounted unsupported | **≈ 41 dB(A)** |
| **igus® series E6.52** | *v* = 2.0m/s | unsupported | **≈ 46 dB(A)** |
| **Chain 1 third-party product** | *v* = 2.0m/s | unsupported | **≈ 77 dB(A)** |
| **Chain 2 third-party product** | *v* = 2.0m/s | unsupported | **≈ 68 dB(A)** |
| **Chain 3 third-party product** | *v* = 2.0m/s | unsupported | **≈ 73 dB(A)** |

Source: TÜV Rheinland *Source: igus® investigations

**Noise level ≤ 37dB(A) - a** measurement conducted by the Rhineland Technical Inspection Authority (TÜV Rheinland) in May 2002 indicates a value of ≤ 46dB(A) at 2m/s and with an unsupported length of 1.5m with series E6.52.100.100.0, and all this with at least 10dB(A) sound pressure level generated by external noise. We have received an official noise certificate from the Rhineland Technical Inspection Authority (TÜV Rheinland Berlin Brandenburg) and we are happy to provide you with a copy upon request. A measurement carried out in the igus® laboratory resulted in a value of 37dB(A) at 1m/s for the series E6.29.080.075.0 (unsupported length).

**Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ▶ From page 144**

## Technical data

| | |
|---|---|
| Speed gliding[1] / acceleration gliding[1] | upon request |
| Speed $FL_G$ / acceleration $FL_G$ | ≤ 20 [m/s] / ≤ 200 [m/s²] |
| Speed $FL_B$ / acceleration $FL_B$ | ≤ 3 [m/s] / ≤ 6 [m/s²] |
| igumid GE material - permitted temperature °C | upon request |
| Flammability class | VDE 0304 IIC UL94-HB |

$FL_G$ = unsupported with straight upper run $FL_B$ = unsupported with permitted sag

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

## Installation types, maximum travels

| Series | Unsupported | Gliding[1] | Vertical hanging | Vertical standing | Side mounted unsupported |
|---|---|---|---|---|---|
| E6.29 / R6.29 | ≤ 3.50m | upon request | ≤ 30m | ≤ 2.0m | upon request |
| E6.35 | ≤ 3.80m | upon request | ≤ 30m | ≤ 2.0m | upon request |
| E6.40 / R6.40 | ≤ 5.00m | upon request | ≤ 30m | ≤ 2.0m | upon request |
| E6.52 / R6.52 | ≤ 6.00m | upon request | ≤ 50m | ≤ 2.0m | upon request |
| E6.62 | ≤ 8.00m | upon request | ≤ 60m | ≤ 3.0m | upon request |
| E6.80L | ≤ 5.00m | upon request | ≤ 60m | ≤ 4.0m | upon request |
| E6.80 | ≤ 10.5m | upon request | ≤ 60m | ≤ 4.0m | upon request |

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





## Options with order keys | Examples based on series E6.52

| | *Standard* | *NC version - (No Camber) without pretension* |
|---|---|---|
| | Part No. Standard | Part No. NC version |
| | Standard | NC |
| | E6.52.100.*R*.0 | E6.52.100.*R*.0.NC |
| | Ready to ship in 72hrs.* | Ready to ship in 12 business days* |

*Average time before the ordered goods are dispatched.

## Order example | Order key and colour examples | Examples based on series E6.52

**Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:**

| | | |
|---|---|---|
| **e-chain®** (1.0m) | Please indicate e-chain® length or number of links: 1.0m or 34 links | E6.52.100.075.0 |
| **+ Mounting brackets** | KMA pivoting - 1 set | E6.520.100.12 |
| **Interior separation** | with 2 separators assembled every 2nd link | 2 x 38222 |
| **Order text:** | | 1m E6.52.100.075.0 + E6.520.100.12 + 2 x 38222 |

### Order key

e-chain® E6.52.100.075.0
e-tube R6.52.100.075.0

- Series / Type
- Width index (depends on *Bi*)
- Bend radius *R*
- Colour index (standard black)

**Order index for colour options**

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

Black e-chains® ready to ship in 72hrs.*
Above special colours upon request.

# E6 | Series E6.29·R6.29 | Product range

## Extremely low noise and vibration

29 e-chain® | 28 e-tube

**e-chains® | Series E6.29 | Crossbars removable along the inner and outer radius**
**e-tubes | Series R6.29 | Lids removable along the inner and outer radius**

| Part No. e-chains® | Part No. e-tubes | Bi [mm] | Ba [mm] | E6.29 [kg/m] | R6.29 [kg/m] |
|---|---|---|---|---|---|
| E6.29.030.R.0 | R6.29.030.R.0 | 30 | 46 | 0.73 | 0.80 |
| E6.29.040.R.0 | R6.29.040.R.0 | 40 | 56 | 0.75 | 0.85 |
| E6.29.050.R.0 | R6.29.050.R.0 | 50 | 66 | 0.78 | 0.89 |
| E6.29.060.R.0 | R6.29.060.R.0 | 60 | 76 | 0.80 | 0.94 |
| E6.29.070.R.0 | R6.29.070.R.0* | 70 | 86 | 0.83 | 0.97 |
| E6.29.080.R.0 | R6.29.080.R.0 | 80 | 96 | 0.85 | 1.03 |
| E6.29.090.R.0 | R6.29.090.R.0* | 90 | 106 | 0.88 | 1.08 |
| E6.29.100.R.0 | R6.29.100.R.0* | 100 | 116 | 0.90 | 1.13 |
| E6.29.110.R.0 | R6.29.110.R.0 | 110 | 126 | 0.93 | 1.18 |
| E6.29.120.R.0 | R6.29.120.R.0 | 120 | 136 | 0.95 | 1.22 |
| E6.29.140.R.0 | – 140.R.0 | 140 | 156 | 1.00 | – |

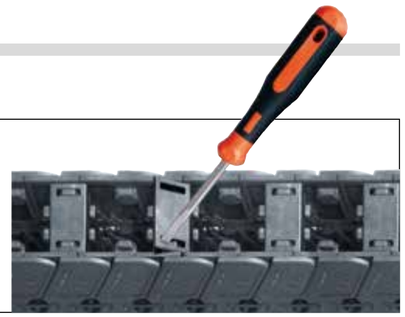
*Width available upon request. Please consult igus® for delivery time.

**Available bend radii**

*R* [mm] | 055 | 075 | 100 | 150 |

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

**E6.29.080.100.0 = e-chain® / R6.29.080.100.0 = e-tube**



### Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**

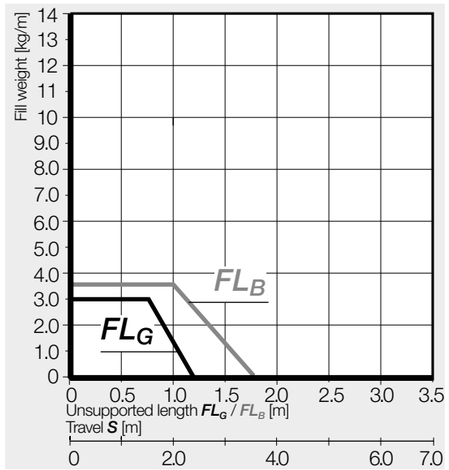


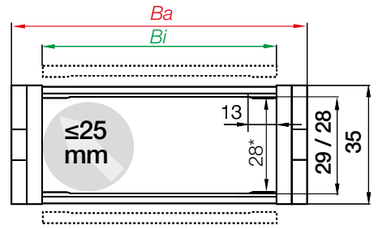


# E6 | Series 6.29·R6.29 | Installation dimensions

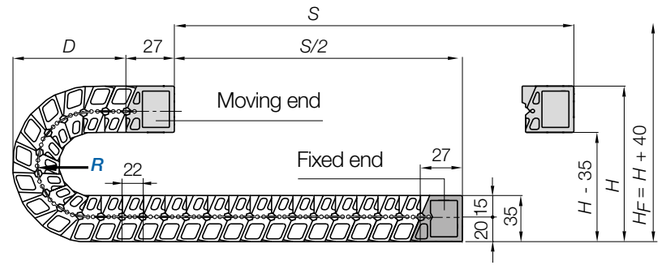
## Unsupported applications | Short travels

▶ 1392 ▶ 1312




| | |
|---|---|
| E6.29 Inner height [mm] | 29 |
| R6.29 Inner height [mm] | 28 |
| Pitch [mm/link] | 22 |
| Links/m | 46 |
| corresponds to [mm] | 1,012 |
| e-chain® length | $L_K = S/2 + K$ |




| R | 055 | 075 | 100 | 150 |
|---|---|---|---|---|
| H | 180 | 220 | 270 | 370 |
| D | 108 | 128 | 153 | 203 |
| K | 220 | 280 | 360 | 520 |

The required clearance height: $H_F = H + 40$mm (with 2.0kg/m fill weight)

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

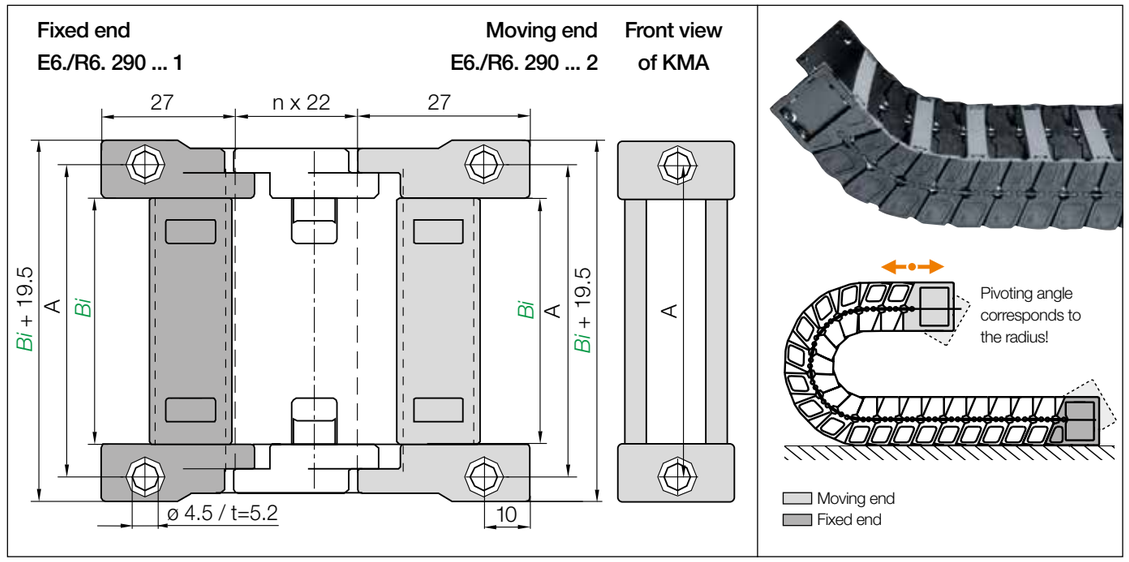
### Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

**More information ▶ From page 1362**

# E6 | Series E6.29·R6.29 | Accessories

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

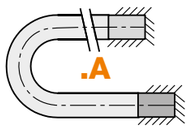



## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | | | A [mm] | Bi [mm] |
|---|---|---|---|---|---|
| 030. ▶ | E6.290. | R6.290. | 030.12 | 40 | 30 |
| 040. ▶ | E6.290. | R6.290. | 040.12 | 50 | 40 |
| 050. ▶ | E6.290. | R6.290. | 050.12 | 60 | 50 |
| 060. ▶ | E6.290. | R6.290. | 060.12 | 70 | 60 |
| 070. ▶ | E6.290. | R6.290.* | 070.12 | 80 | 70 |
| 080. ▶ | E6.290. | R6.290. | 080.12 | 90 | 80 |
| 090. ▶ | E6.290. | R6.290.* | 090.12 | 100 | 90 |
| 100. ▶ | E6.290. | R6.290.* | 100.12 | 110 | 100 |
| 110. ▶ | E6.290. | R6.290. | 110.12 | 120 | 110 |
| 120. ▶ | E6.290. | R6.290. | 120.12 | 130 | 120 |
| 140. ▶ | E6.290 | – | 140.12 | 150 | 140 |

*Width available upon request. Please consult igus® for delivery time.

(KMA = polymer metal mounting bracket)




The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index **.A.**

E6.290.080.12.A **Order example**
- Pre-assembled
- Full set
- Width index
- Series

Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

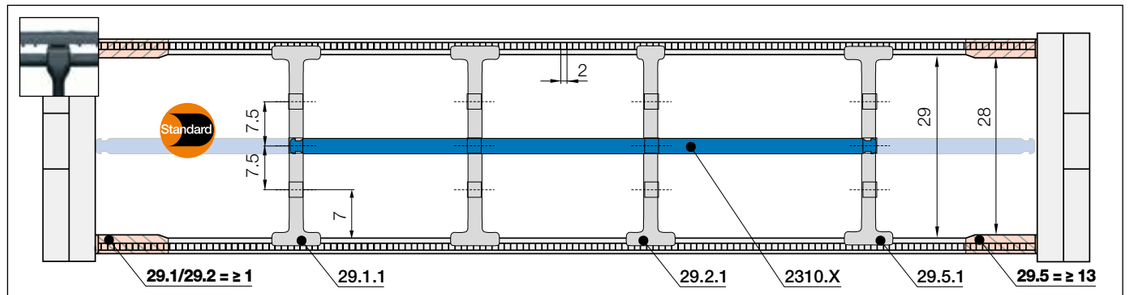




# E6 | e-chains® E6.29 | Accessories

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ▶ next page)

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.29**




**Note:** Please be aware of the minimum lateral gap to the side links! **29.1/29.2 = 1mm** | **29.5 = 13mm**
As standard separators are fitted every 2nd e-chain® link!

**Standard separator, wide base**
unassembled **29.1**
assembled **29.1.1**

### Standard - for any application

Separator with a wide base for maximum holding force.

**Separator, narrow top**
unassembled **29.2**
assembled **29.2.1**

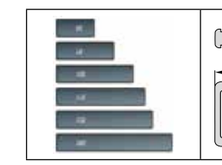
### For even faster installation

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

**Notch separator for notched crossbar**
unassembled **29.5**
assembled **29.5.1**

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.




**Shelf, lockable**
unassembled **2300.X**
assembled **2310.X**

### Horizontal separation

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

## Shelves

**Width = X** [mm]

| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|---|---|---|---|---|---|---|---|---|
| 015 | **2300.015** | **2310.015** | 060 | **2300.060** | **2310.060** | 087 | **2300.87** | **2310.087** |
| 025 | **2300.025** | **2310.025** | 062 | **2300.062** | **2310.062** | 090 | **2300.90** | **2310.090** |
| 030 | **2300.030** | **2310.030** | 065 | **2300.065** | **2310.065** | 100 | **2300.100** | **2310.100** |
| 038 | **2300.038** | **2310.038** | 070 | **2300.070** | **2310.070** | 103 | **2300.103** | **2310.103** |
| 040 | **2300.040** | **2310.040** | 075 | **2300.075** | **2310.075** | 110 | **2300.110** | **2310.110** |
| 050 | **2300.050** | **2310.050** | 077 | **2300.077** | **2310.077** | 120 | **2300.120** | **2310.120** |
| 057 | **2300.057** | **2310.057** | 080 | **2300.080** | **2310.080** | 125 | **2300.125** | **2310.125** |

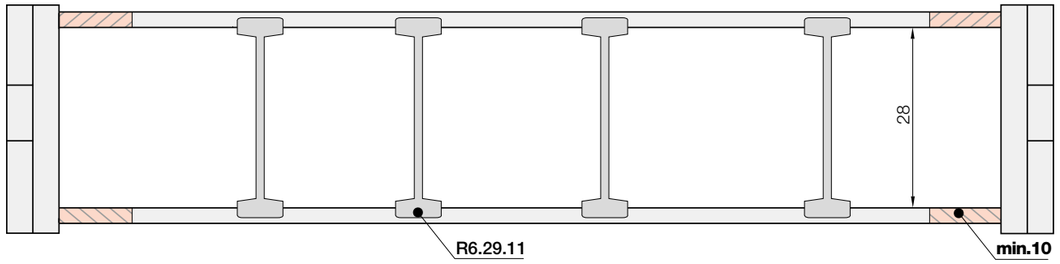
### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

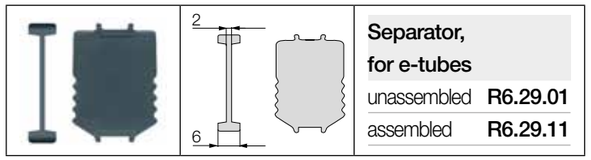
**Part No. E6.29.02.Z - more information ▶ From page 1424**

# E6 | **e-tubes R6.29** | Accessories

## Interior separation (only for e-tubes, for e-chains® ▶ previous page)




**Note**: Please be aware of the minimum lateral gap to the side links! **e-tubes: 10mm**
As standard separators are fitted every 2nd e-chain® link!




| Separator, for e-tubes | |
|---|---|
| unassembled | **R6.29.01** |
| assembled | **R6.29.11** |

### Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.

### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

**Part No. R6.29.02.Z - more information ▶ From page 1424**

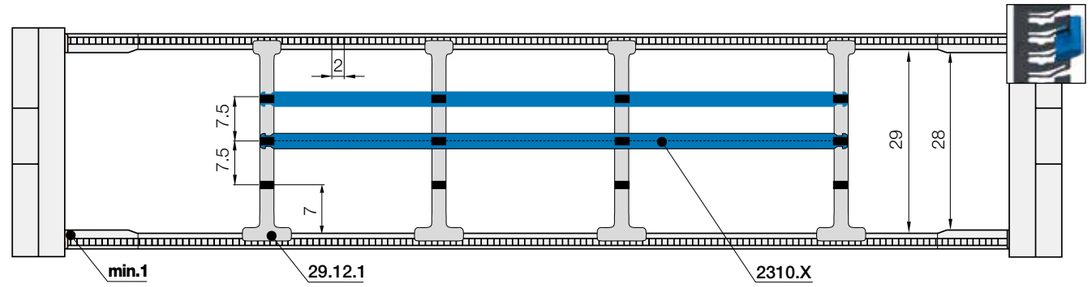
Long travel length with side-mounted orientation using the low noise and vibration series E6 for a camera application



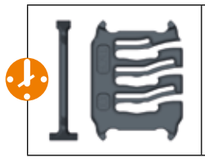


# E6 | **e-chains® E6.29** | Accessories

## Interior separation | To allow faster filling




**Note**: Please be aware of the minimum lateral gap to the side links! **e-chain®: 1mm**
As standard separators are fitted every 2nd e-chain® link!




| Lean separator*1) | |
|---|---|
| unassembled | **29.12** |
| assembled | **29.12.1** |

### Lean separators*1)

For quick fitting of shelves in several layers.

**1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!**

*Only suitable for e-chains®

**With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%2).**

2) Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory

# E6 | Series E6.35 | Product range

## Extremely low noise and vibration

35

## e-chains® | Series E6.35 | Crossbars removable along the inner and outer radius

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.35 [kg/m] |
|---|---|---|---|
| E6.35. 030. R.0 | 30 | 50 | 0.88 |
| E6.35. 040. R.0 | 40 | 60 | 0.90 |
| E6.35. 050. R.0 | 50 | 70 | 0.92 |
| E6.35. 060. R.0 | 60 | 80 | 0.94 |
| E6.35. 070. R.0 | 70 | 90 | 0.96 |
| E6.35. 080. R.0 | 80 | 100 | 0.99 |
| E6.35. 090. R.0 | 90 | 110 | 1.01 |
| E6.35. 100. R.0 | 100 | 120 | 1.03 |
| E6.35. 110. R.0 | 110 | 130 | 1.05 |
| E6.35. 120. R.0 | 120 | 140 | 1.07 |
| E6.35. 140. R.0 | 140 | 160 | 1.11 |

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

**Available bend radii**

R [mm] | 055 | 075 | 100 | 125* | 150 |

Complete Part No. with required radius (R). Example: **E6.35.100.100.0**

### Installation note - system E6

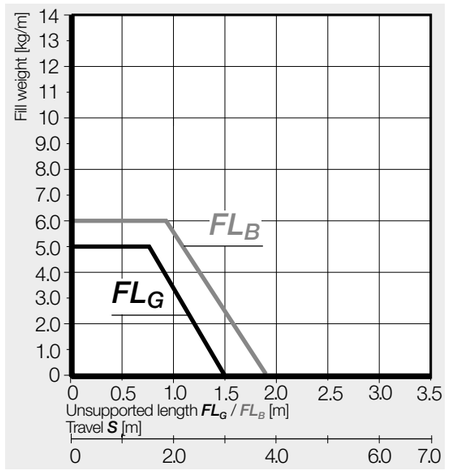
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

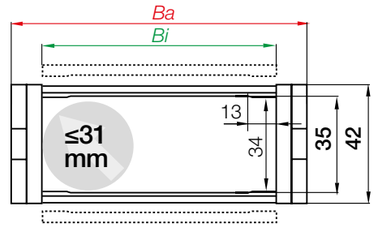
**Assembly video available online at ▶ www.igus.eu/E6_assembly**

# E6 | Series E6.35 | Installation dimensions

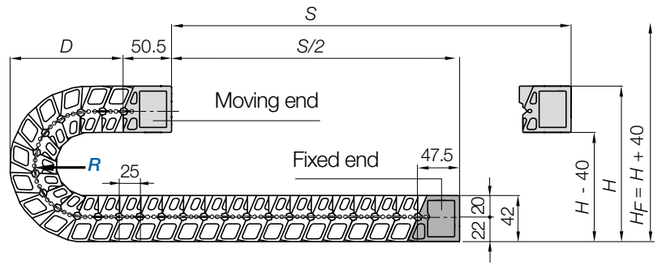
## Unsupported applications | Short travels

▶ 1392 ▶ 1314




| | |
|---|---|
| Inner height [mm] | 35 |
| Pitch [mm/link] | 25 |
| Links/m | 40 |
| corresponds to [mm] | 1,000 |
| e-chain® length | $L_K = S/2 + K$ |




| R | 055 | 075 | 100 | 125* | 150 |
|---|---|---|---|---|---|
| H | 189 | 229 | 279 | 329 | 379 |
| D | 115 | 135 | 160 | 185 | 210 |
| K | 225 | 290 | 365 | 445 | 525 |

The required clearance height: $H_F = H + 40$mm (with 2.0kg/m fill weight)

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

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

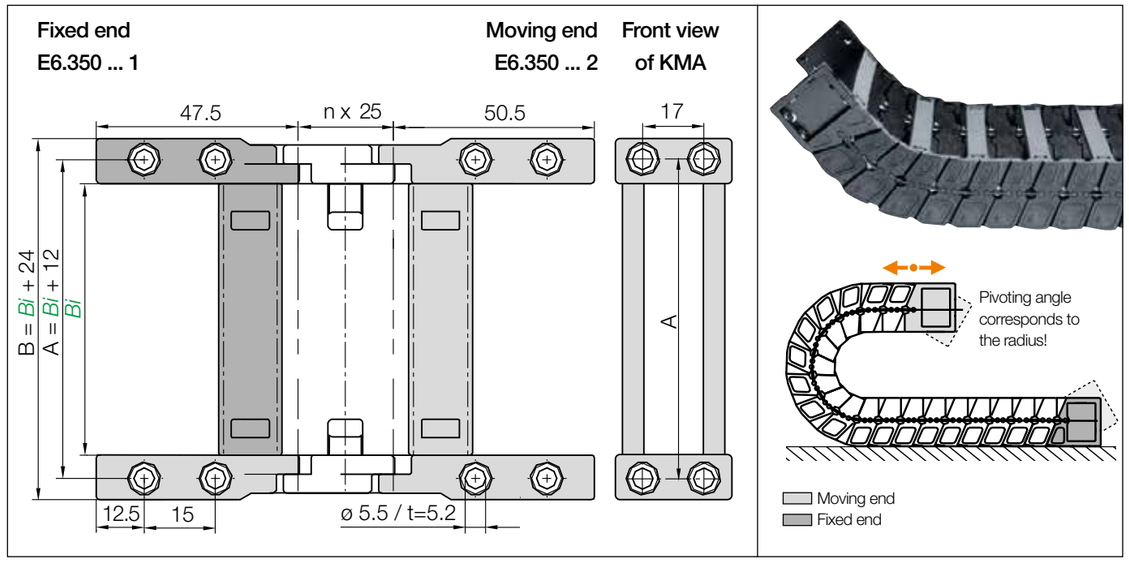
### Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

**More information ▶ From page 1362**

# E6 | Series E6.35 | Accessories

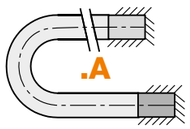
## KMA mounting brackets | Attachment from any side | Pivoting




## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 030. ▶ | E6.350. 030.12 | 42 | 54 | 30 |
| 040. ▶ | E6.350. 040.12 | 52 | 64 | 40 |
| 050. ▶ | E6.350. 050.12 | 62 | 74 | 50 |
| 060. ▶ | E6.350. 060.12 | 72 | 84 | 60 |
| 070. ▶ | E6.350. 070.12 | 82 | 94 | 70 |
| 080. ▶ | E6.350. 080.12 | 92 | 104 | 80 |
| 090. ▶ | E6.350. 090.12 | 102 | 114 | 90 |
| 100. ▶ | E6.350. 100.12 | 112 | 124 | 100 |
| 110. ▶ | E6.350. 110.12 | 122 | 134 | 110 |
| 120. ▶ | E6.350. 120.12 | 132 | 144 | 120 |
| 140. ▶ | E6.350. 140.12 | 152 | 164 | 140 |

(KMA = polymer metal mounting bracket)




The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index **.A.**

E6.350.100.12.A **Order example**
- Pre-assembled
- Full set
- Width index
- Series

Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

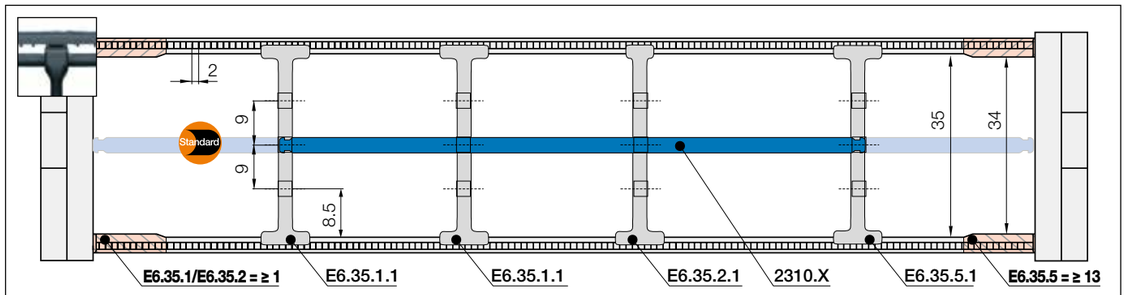




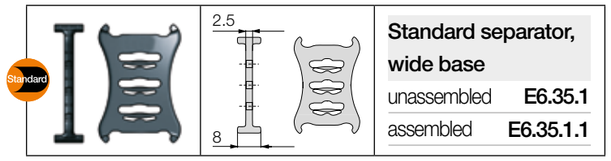
# E6 | Series E6.35 | Accessories

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.35**



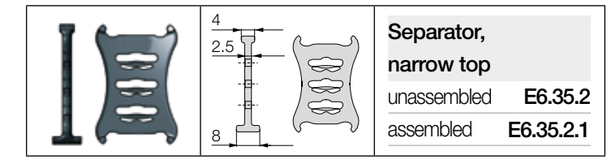

**Note:** Please be aware of the minimum lateral gap to the side links! **E6.35.1/E6.35.2 = 1mm | E6.35.5 = 13mm**
As standard separators are fitted every 2nd e-chain® link!




**Standard separator, wide base**
unassembled **E6.35.1**
assembled **E6.35.1.1**

### Standard - for any application

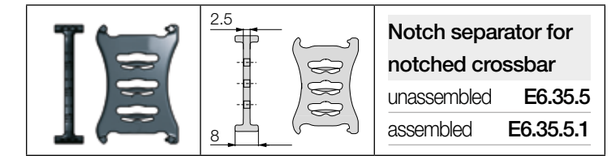
Separator with a wide base for maximum holding force.




**Separator, narrow top**
unassembled **E6.35.2**
assembled **E6.35.2.1**

### For even faster installation

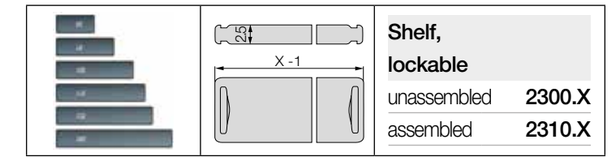
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.




**Notch separator for notched crossbar**
unassembled **E6.35.5**
assembled **E6.35.5.1**

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.




**Shelf, lockable**
unassembled **2300.X**
assembled **2310.X**

### Horizontal separation

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

### Shelves

Width = X [mm]

| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|---|---|---|---|---|---|---|---|---|
| 015 | **2300.015** | **2310.015** | 060 | **2300.060** | **2310.060** | 087 | **2300.87** | **2310.087** |
| 025 | **2300.025** | **2310.025** | 062 | **2300.062** | **2310.062** | 090 | **2300.90** | **2310.090** |
| 030 | **2300.030** | **2310.030** | 065 | **2300.065** | **2310.065** | 100 | **2300.100** | **2310.100** |
| 038 | **2300.038** | **2310.038** | 070 | **2300.070** | **2310.070** | 103 | **2300.103** | **2310.103** |
| 040 | **2300.040** | **2310.040** | 075 | **2300.075** | **2310.075** | 110 | **2300.110** | **2310.110** |
| 050 | **2300.050** | **2310.050** | 077 | **2300.077** | **2310.077** | 120 | **2300.120** | **2310.120** |
| 057 | **2300.057** | **2310.057** | 080 | **2300.080** | **2310.080** | 125 | **2300.125** | **2310.125** |

### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

**Part No. E6.35.02.Z - more information ▶ From page 1424**

# E6 | Series E6.40·R6.40 | Product range

## Extremely low noise and vibration

40

**e-chains® | Series E6.40 | Crossbars removable along the inner and outer radius**
**e-tubes | Series R6.40 | Lids removable along the inner and outer radius**

| Part No. e-chains® | Part No. e-tubes | Bi [mm] | Ba [mm] | E6.40 [kg/m] | R6.40 [kg/m] |
|---|---|---|---|---|---|
| E6.40. 040.R.0 | R6.40. 040.R.0* | 40 | 60 | ≈ 1.29 | – |
| E6.40. 050.R.0 | R6.40. 050.R.0* | 50 | 70 | ≈ 1.33 | – |
| E6.40. 052.R.0 | R6.40. 052.R.0* | 52 | 72 | ≈ 1.34 | – |
| E6.40. 062.R.0 | R6.40. 062.R.0 | 62 | 82 | ≈ 1.38 | ≈ 1.59 |
| E6.40. 070.R.0 | R6.40. 070.R.0* | 70 | 90 | ≈ 1.41 | – |
| E6.40. 075.R.0 | R6.40. 075.R.0* | 75 | 95 | ≈ 1.43 | – |
| E6.40. 087.R.0 | R6.40. 087.R.0* | 87 | 107 | ≈ 1.48 | – |
| E6.40. 100.R.0 | R6.40. 100.R.0* | 100 | 120 | ≈ 1.53 | – |
| E6.40. 125.R.0 | R6.40. 125.R.0* | 125 | 145 | ≈ 1.63 | – |
| E6.40. 150.R.0 | R6.40. 150.R.0* | 150 | 170 | ≈ 1.73 | – |
| E6.40. 175.R.0 | R6.40. 175.R.0* | 175 | 195 | ≈ 1.83 | – |
| E6.40. 200.R.0 | R6.40. 200.R.0* | 200 | 220 | ≈ 1.93 | – |
| E6.40. 225.R.0 | R6.40. 225.R.0* | 225 | 245 | ≈ 2.02 | – |
| E6.40. 250.R.0 | R6.40. 250.R.0* | 250 | 270 | ≈ 2.12 | – |
| E6.40. 275.R.0 | R6.40. 275.R.0* | 275 | 295 | ≈ 2.22 | – |
| E6.40. 300.R.0 | R6.40. 300.R.0* | 300 | 320 | ≈ 2.32 | – |

*Width available upon request. Please consult igus® for delivery time.

**Available bend radii**

*R* [mm] | 063 | 075 | 100 | 125 | 150 | 200 |

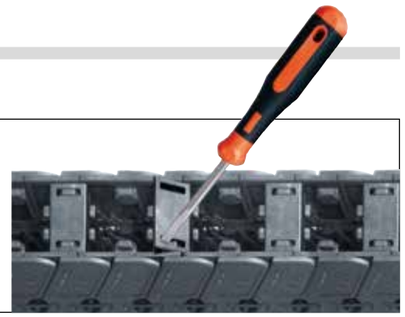
Complete Part No. with required radius (*R*). Example:

**E6.40.62.100.0 = e-chain® / R6.40.62.100.0 = e-tube**

## Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**



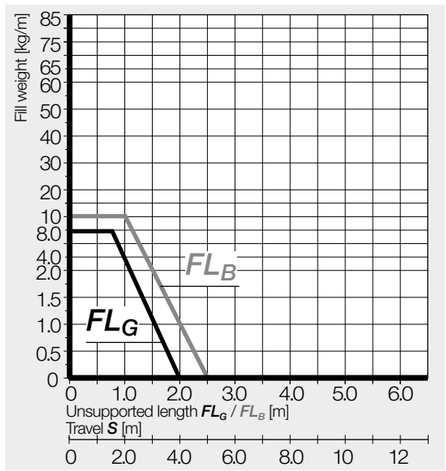


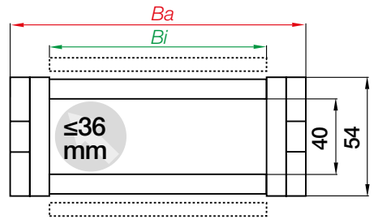


# E6 | E6.40·R6.40 | Installation dimensions

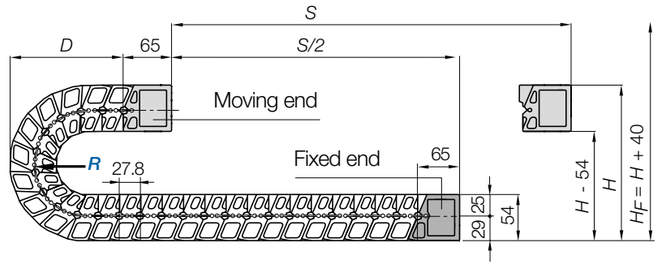
## Unsupported applications | Short travels

▶ 1392 ▶ 1316




| | |
|---|---|
| Inner height [mm] | 40 |
| Pitch [mm/link] | 27.8 |
| Links/m | 36 |
| corresponds to [mm] | 1,001 |
| e-chain® length | $L_K = S/2 + K$ |




| *R* | 063 | 075 | 100 | 125 | 150 | 200 |
|---|---|---|---|---|---|---|
| *H* | 224 | 248 | 298 | 348 | 398 | 498 |
| *D* | 134 | 146 | 171 | 196 | 221 | 271 |
| *K* | 255 | 295 | 370 | 450 | 530 | 685 |

The required clearance height: $H_F = H + 40$mm (with 2.0kg/m fill weight)

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

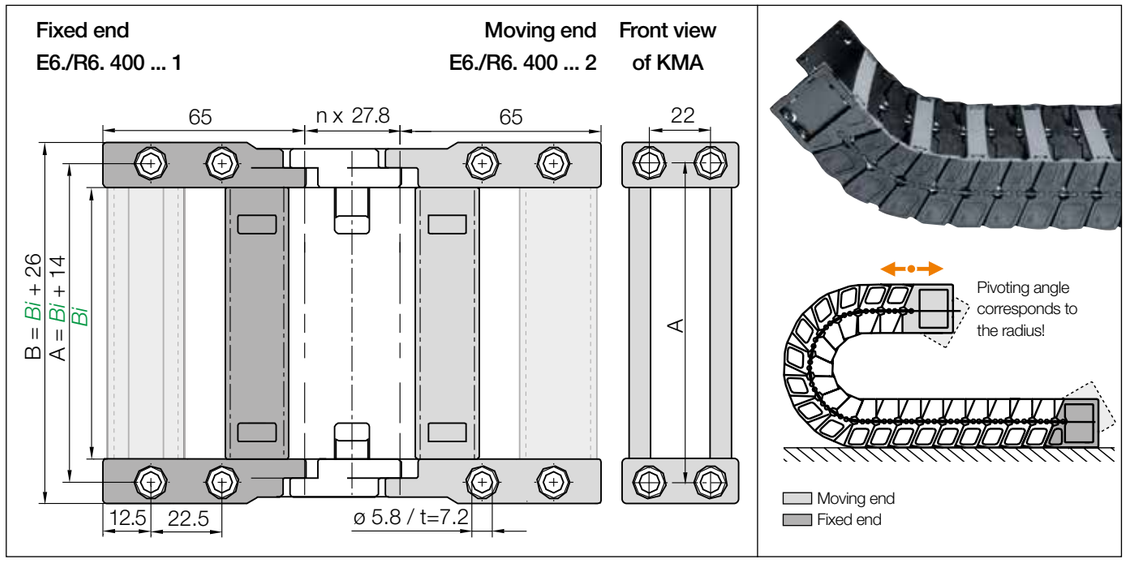
## Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

**More information ▶ From page 1362**

# E6 | Series E6.40·R6.40 | Accessories

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



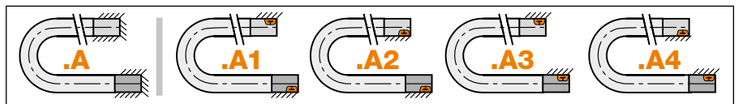

## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 040. ▶ | E6.400. R6.400.* 040.12.C | 54 | 66 | 40 |
| 050. ▶ | E6.400. R6.400.* 050.12.C | 64 | 76 | 50 |
| 052. ▶ | E6.400. R6.400.* 052.12.C | 66 | 78 | 52 |
| 062. ▶ | E6.400. R6.400. 062.12.C | 76 | 88 | 62 |
| 070. ▶ | E6.400. R6.400.* 070.12.C | 84 | 96 | 70 |
| 075. ▶ | E6.400. R6.400.* 075.12.C | 89 | 101 | 75 |
| 087. ▶ | E6.400. R6.400.* 087.12.C | 101 | 113 | 87 |
| 100. ▶ | E6.400. R6.400.* 100.12.C | 114 | 126 | 100 |

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 125. ▶ | E6.400. R6.400.* 125.12.C | 139 | 151 | 125 |
| 150. ▶ | E6.400. R6.400.* 150.12.C | 154 | 176 | 150 |
| 175. ▶ | E6.400. R6.400.* 175.12.C | 189 | 201 | 175 |
| 200. ▶ | E6.400. R6.400.* 200.12.C | 214 | 226 | 200 |
| 225. ▶ | E6.400. R6.400.* 225.12.C | 239 | 251 | 225 |
| 250. ▶ | E6.400. R6.400.* 250.12.C | 264 | 276 | 250 |
| 275. ▶ | E6.400. R6.400.* 275.12.C | 289 | 301 | 275 |
| 300. ▶ | E6.400. R6.400.* 300.12.C | 314 | 326 | 300 |

*Width available upon request. Please consult igus® for delivery time.

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**




Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile**, please attach index **.A1**, **.A2**, **.A3** or **.A4**.

**E6.400.100.12.C.A2 Order example**

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

**Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

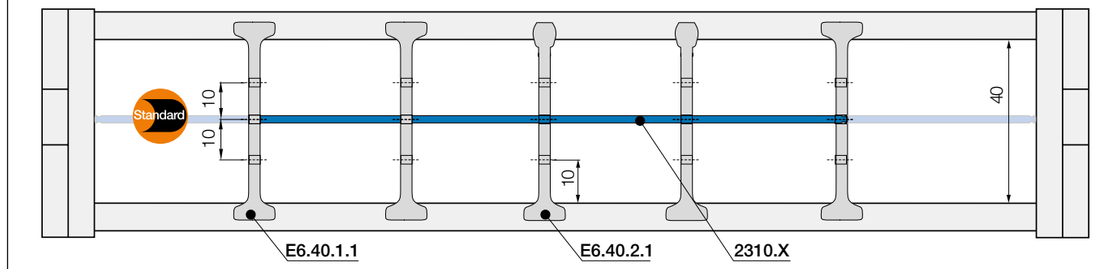




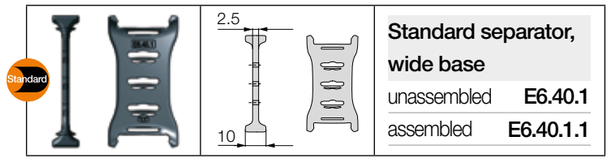
# E6 | e-chains® E6.40 | Accessories

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ▶ next page)

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.40**



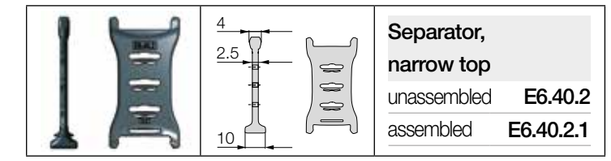

**No lateral gap to side links necessary.**
**As standard separators are fitted every 2nd e-chain® link!**




| | |
|---|---|
| **Standard separator, wide base** | |
| unassembled | **E6.40.1** |
| assembled | **E6.40.1.1** |

### Standard - for any application

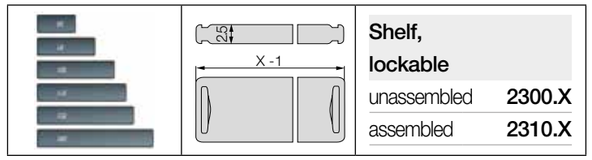
Separator with a wide base for maximum holding force.




| | |
|---|---|
| **Separator, narrow top** | |
| unassembled | **E6.40.2** |
| assembled | **E6.40.2.1** |

### For even faster installation

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



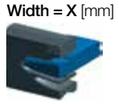

| | |
|---|---|
| **Shelf, lockable** | |
| unassembled | **2300.X** |
| assembled | **2310.X** |

### Horizontal separation

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

### Shelves

**Width = X** [mm]



| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|---|---|---|---|---|---|---|---|---|
| 015 | **2300.015** | **2310.015** | 060 | **2300.060** | **2310.060** | 087 | **2300.87** | **2310.087** |
| 025 | **2300.025** | **2310.025** | 062 | **2300.062** | **2310.062** | 090 | **2300.90** | **2310.090** |
| 030 | **2300.030** | **2310.030** | 065 | **2300.065** | **2310.065** | 100 | **2300.100** | **2310.100** |
| 038 | **2300.038** | **2310.038** | 070 | **2300.070** | **2310.070** | 103 | **2300.103** | **2310.103** |
| 040 | **2300.040** | **2310.040** | 075 | **2300.075** | **2310.075** | 110 | **2300.110** | **2310.110** |
| 050 | **2300.050** | **2310.050** | 077 | **2300.077** | **2310.077** | 120 | **2300.120** | **2310.120** |
| 057 | **2300.057** | **2310.057** | 080 | **2300.080** | **2310.080** | 125 | **2300.125** | **2310.125** |

### Separator with integrated strain relief teeth

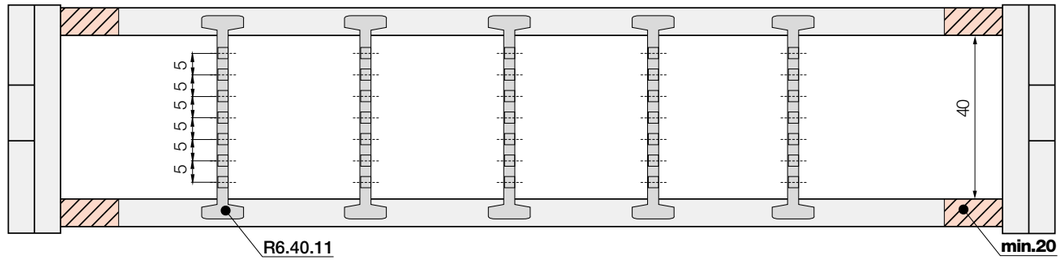
- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

**E6.40.02.Z - More information ▶ From page 1424**

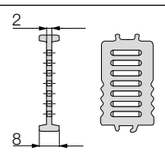
# E6 | **e-tubes R6.40** | Accessories

## Interior separation | Only for e-tubes (e-chains® ▶ previous page)

Previous generation of interior separation with other options ▶ **www.igus.eu/R6.40**



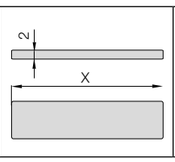

**Note**: Please be aware of the minimum lateral gap to the side links! **e-tubes: 20mm**
As standard separators are fitted every 2nd e-chain® link!




| Separator, for e-tubes | |
|---|---|
| unassembled | **R6.40.01** |
| assembled | **R6.40.11** |

### Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.




| Full-width shelf for e-tubes | |
|---|---|
| unassembled | **110.X** |
| assembled | **111.X** |

### Full-width shelf for e-tubes

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

**Full-width shelves**
Width = X [mm]

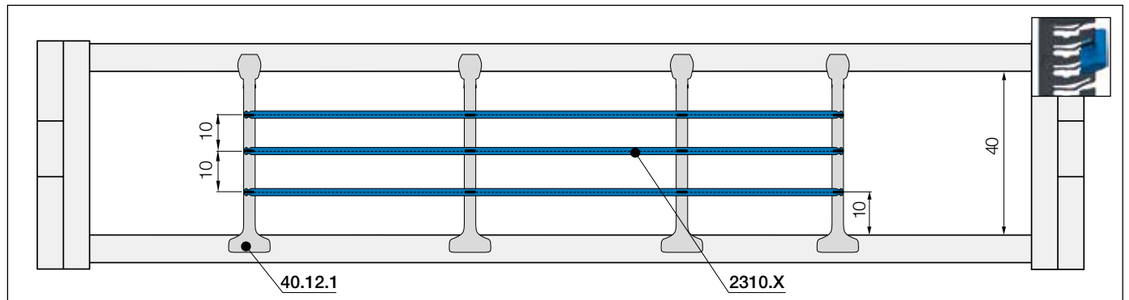
| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|---|---|---|---|---|---|---|---|---|
| 030 | **110.30** | **111.30** | 070 | **110.70** | **111.70** | 110 | **110.110** | **111.110** |
| 040 | **110.40** | **111.40** | 080 | **110.80** | **111.80** | 120 | **110.120** | **111.120** |
| 050 | **110.50** | **111.50** | 090 | **110.90** | **111.90** | | | |
| 060 | **110.60** | **111.60** | 100 | **110.100** | **111.100** | | | |



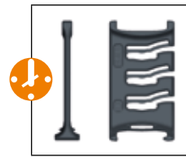


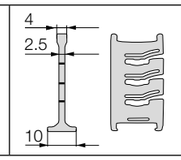
# E6 | **e-chains® E6.40** | Accessories

## Interior separation | To allow faster filling




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






| Lean separator*1) | |
|---|---|
| unassembled | **40.12** |
| assembled | **40.12.1** |

### Lean separators*1)

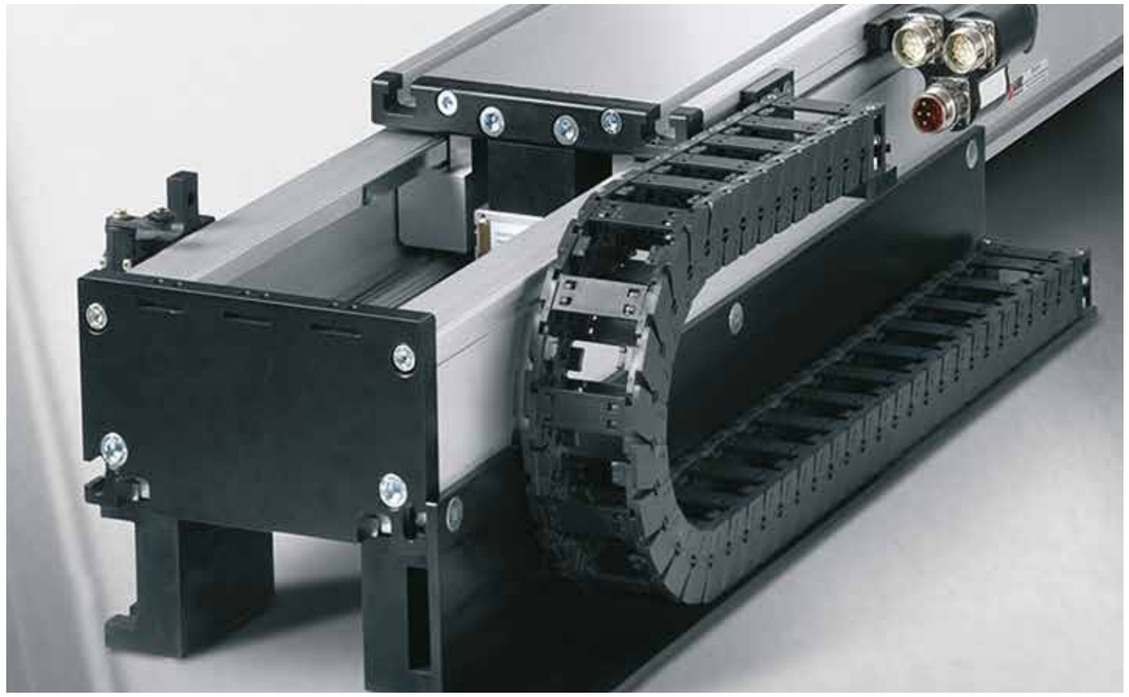
For quick fitting of shelves in several layers.

**1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!**

*Only suitable for e-chains®

**With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%2).**

2) Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory



igus® system E6 on a linear drive for extremely high accelerations (over 10m/s²)

# E6 | Series E6.52·R6.52 | Product range

52

## Extremely low noise and vibration

**e-chains® | Series E6.52 | Crossbars removable along the inner and outer radius**
**e-tubes | Series R6.52 | Lids removable along the inner and outer radius**

| Part No. e-chains® | Part No. e-tubes | Bi [mm] | Ba [mm] | E6.52 [kg/m] | R6.52 [kg/m] |
|---|---|---|---|---|---|
| E6.52. 040. R.0 | R6.52. 040. R.0* | 40 | 64 | ≈ 1.76 | ≈ 1.78 |
| E6.52. 050. R.0 | R6.52. 050. R.0 | 50 | 74 | ≈ 1.80 | ≈ 1.89 |
| E6.52. 052. R.0 | R6.52. 052. R.0* | 52 | 66 | ≈ 1.81 | ≈ 1.92 |
| E6.52. 062. R.0 | R6.52. 062. R.0* | 62 | 86 | ≈ 1.84 | ≈ 1.97 |
| E6.52. 070. R.0 | R6.52. 070. R.0* | 70 | 94 | ≈ 1.87 | ≈ 2.07 |
| E6.52. 075. R.0 | R6.52. 075. R.0 | 75 | 99 | ≈ 1.89 | ≈ 2.12 |
| E6.52. 087. R.0 | R6.52. 087. R.0* | 87 | 111 | ≈ 1.94 | ≈ 2.21 |
| E6.52. 100. R.0 | R6.52. 100. R.0 | 100 | 124 | ≈ 1.98 | ≈ 2.35 |
| E6.52. 125. R.0 | R6.52. 125. R.0 | 125 | 149 | ≈ 2.07 | ≈ 2.57 |
| E6.52. 150. R.0 | R6.52. 150. R.0 | 150 | 174 | ≈ 2.17 | ≈ 2.80 |
| E6.52. 175. R.0 | R6.52. 175. R.0 | 175 | 199 | ≈ 2.26 | ≈ 3.03 |
| E6.52. 200. R.0 | R6.52 200. R.0 | 200 | 224 | ≈ 2.36 | ≈ 3.25 |
| E6.52. 225. R.0 | R6.52. 225. R.0* | 225 | 249 | ≈ 2.45 | ≈ 3.46 |
| E6.52. 250. R.0 | R6.52. 250. R.0* | 250 | 274 | ≈ 2.54 | ≈ 3.68 |
| E6.52. 275. R.0 | R6.52. 275. R.0* | 275 | 299 | ≈ 2.64 | ≈ 3.92 |
| E6.52. 300. R.0 | R6.52. 300. R.0* | 300 | 324 | ≈ 2.73 | ≈ 4.15 |

*Width available upon request. Please consult igus® for delivery time.

**Available bend radii**

R [mm] | 075 | 100 | 125 | 150 | 200 | 250 |

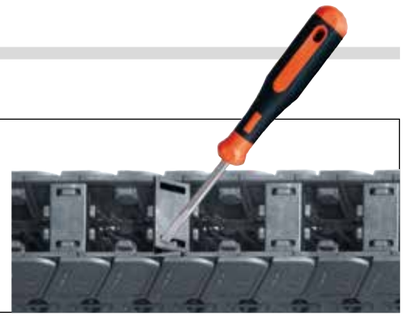
Complete Part No. with required radius (R). Example:

**E6.52.100.100.0 = e-chain® / R6.52.100.100.0 = e-tube**

## Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**

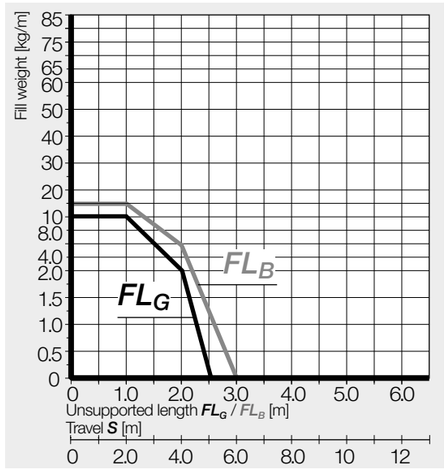


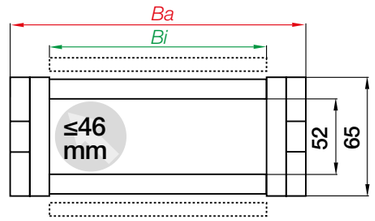




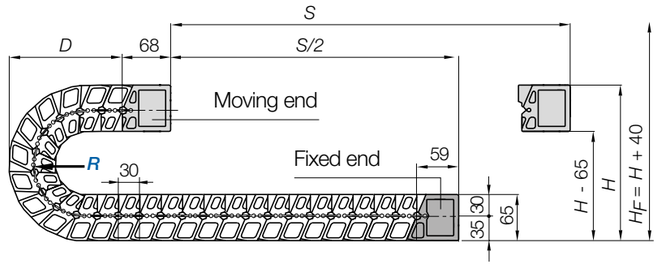
# E6 | E6.52·R6.52 | Installation dimensions

## Unsupported applications | Short travels




| | |
|---|---|
| Inner height [mm] | 52 |
| Pitch [mm/link] | 30 |
| Links/m | 34 |
| corresponds to [mm] | 1,020 |
| e-chain® length | $L_K = S/2 + K$ |




| R | 063 | 075 | 100 | 125 | 150 | 200 |
|---|---|---|---|---|---|---|
| H | 224 | 248 | 298 | 348 | 398 | 498 |
| D | 134 | 146 | 171 | 196 | 221 | 271 |
| K | 255 | 295 | 370 | 450 | 530 | 685 |

The required clearance height: $H_F = H + 40$mm (with 2.0kg/m fill weight)

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

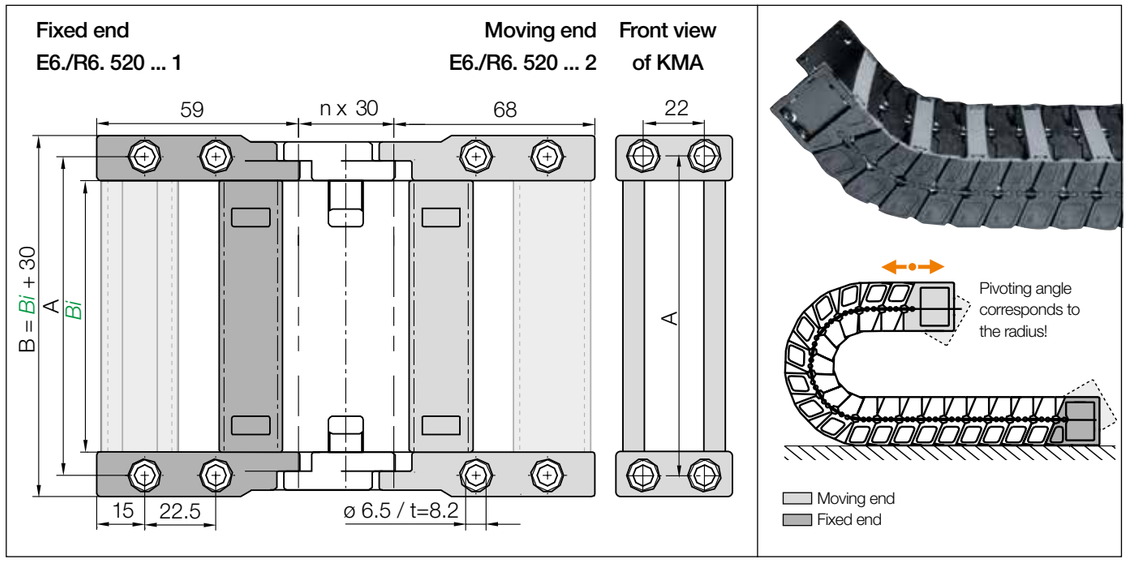
## Steel support tray for support of the lower run

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

**More information ▶ From page 1356**

# E6 | Series E6.52·R6.52 | Accessories

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

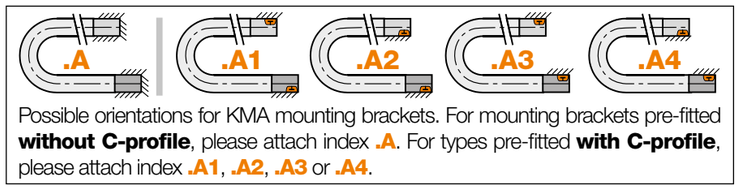



## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set **KMA pivoting** | | | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|---|---|
| 040. ▶ | **E6.520.** | R6.520.* | **040.12**.C | 56 | 70 | 40 |
| 050. ▶ | **E6.520.** | **R6.520.** | **050.12**.C | 66 | 80 | 50 |
| 052. ▶ | **E6.520.** | R6.520.* | **052.12**.C | 68 | 82 | 52 |
| 062. ▶ | **E6.520.** | R6.520.* | **062.12**.C | 78 | 92 | 62 |
| 070. ▶ | **E6.520.** | R6.520.* | **070.12**.C | 86 | 100 | 70 |
| 075. ▶ | **E6.520.** | **R6.520.** | **075.12**.C | 91 | 105 | 75 |
| 087. ▶ | **E6.520.** | R6.520.* | **087.12**.C | 103 | 117 | 87 |
| 100. ▶ | **E6.520.** | **R6.520.** | **100.12**.C | 116 | 130 | 100 |
| 125. ▶ | **E6.520.** | **R6.520.** | **125.12**.C | 141 | 155 | 125 |
| 150. ▶ | **E6.520.** | **R6.520.** | **150.12**.C | 166 | 180 | 150 |
| 175. ▶ | **E6.520.** | **R6.520.** | **175.12**.C | 191 | 205 | 175 |
| 200. ▶ | **E6.520.** | **R6.520.** | **200.12**.C | 216 | 230 | 200 |
| 225. ▶ | **E6.520.** | R6.520.* | **225.12**.C | 241 | 255 | 225 |
| 250. ▶ | **E6.520.** | R6.520.* | **250.12**.C | 266 | 280 | 250 |
| 275. ▶ | **E6.520.** | R6.520.* | **275.12**.C | 291 | 300 | 275 |
| 300. ▶ | **E6.520.** | R6.400.* | **300.12**.C | 316 | 330 | 300 |

*Width available upon request. Please consult igus® for delivery time.

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**




Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile**, please attach index **.A1**, **.A2**, **.A3** or **.A4**.

E6.520.100.12.C.**A2** **Order example**

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

Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

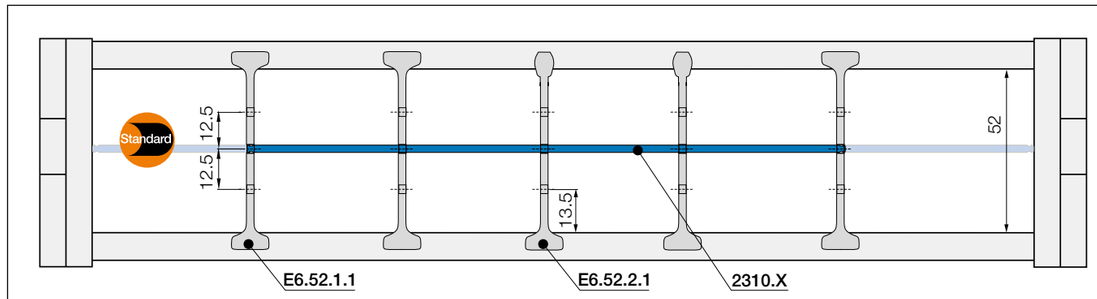




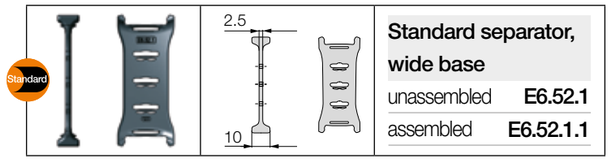
# E6 | e-chains® E6.52 | Accessories

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ▶ next page)

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.52**



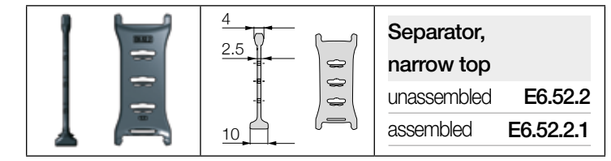

**No lateral gap to side links necessary.**
**As standard separators are fitted every 2nd e-chain® link!**




| Standard separator, wide base | |
|---|---|
| unassembled | **E6.52.1** |
| assembled | **E6.52.1.1** |

### Standard - for any application

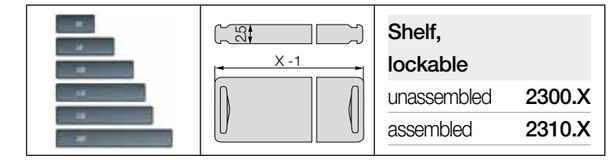
Separator with a wide base for maximum holding force.




| Separator, narrow top | |
|---|---|
| unassembled | **E6.52.2** |
| assembled | **E6.52.2.1** |

### For even faster installation

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



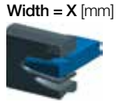

| Shelf, lockable | |
|---|---|
| unassembled | **2300.X** |
| assembled | **2310.X** |

### Horizontal separation

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

### Shelves

Width = X [mm]

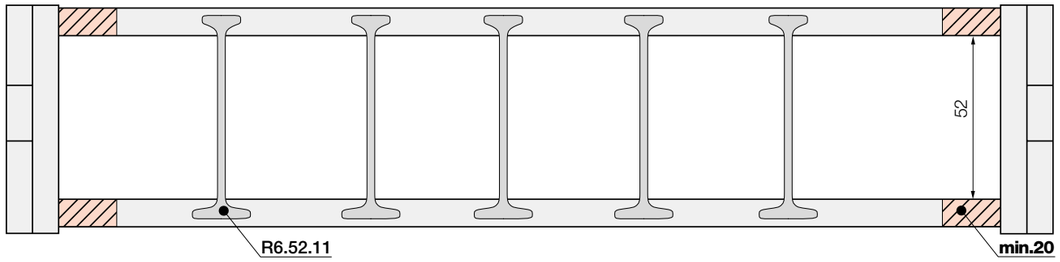


| X [mm] | unassembled | assembled |
|---|---|---|
| 015 | **2300.015** | **2310.015** |
| 025 | **2300.025** | **2310.025** |
| 030 | **2300.030** | **2310.030** |
| 038 | **2300.038** | **2310.038** |
| 040 | **2300.040** | **2310.040** |
| 050 | **2300.050** | **2310.050** |
| 057 | **2300.057** | **2310.057** |
| 060 | **2300.060** | **2310.060** |
| 062 | **2300.062** | **2310.062** |
| 065 | **2300.065** | **2310.065** |
| 070 | **2300.070** | **2310.070** |
| 075 | **2300.075** | **2310.075** |
| 077 | **2300.077** | **2310.077** |
| 080 | **2300.080** | **2310.080** |
| 087 | **2300.87** | **2310.087** |
| 090 | **2300.90** | **2310.090** |
| 100 | **2300.100** | **2310.100** |
| 103 | **2300.103** | **2310.103** |
| 110 | **2300.110** | **2310.110** |
| 120 | **2300.120** | **2310.120** |
| 125 | **2300.125** | **2310.125** |

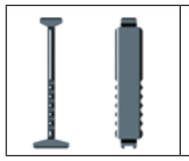
# E6 | **e-tubes R6.52** | Accessories

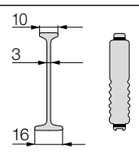
## Interior separation | Only for e-tubes (e-chains® ▶ previous page)

Previous generation of interior separation with other options ▶ **www.igus.eu/R6.29**




**Note**: Please be aware of the minimum lateral gap to the side links! **e-tubes: 20mm**
As standard separators are fitted every 2nd e-chain® link!






| Separator, for e-tubes | |
|---|---|
| unassembled | **R6.52.01** |
| assembled | **R6.52.11** |

### Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.

Preassembled energy supply systems significantly reduce assembly times. As cleanroom compatibility is required in this positioning system, a cleaning protocol is provided with each pre-harnessed e-chain system®

# E6 | Series E6.62 | Product range

62

## Extremely low noise and vibration

## e-chains® | Series E6.62 | Crossbars removable along the inner and outer radius

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.62 [kg/m] |
|---|---|---|---|
| E6.62. 05. R.0 | 50 | 86 | 3.22 |
| E6.62. 06. R.0 | 68 | 104 | 3.28 |
| E6.62. 07. R.0 | 75 | 111 | 3.31 |
| E6.62. 087. R.0 | 87 | 123 | 3.35 |
| E6.62. 097. R.0 | 97 | 133 | 3.38 |
| E6.62. 10. R.0 | 100 | 136 | 3.39 |
| E6.62. 11. R.0 | 108 | 144 | 3.42 |
| E6.62. 112. R.0 | 112 | 148 | 3.43 |
| E6.62. 12. R.0 | 125 | 161 | 3.48 |
| E6.62. 137. R.0 | 137 | 173 | 3.52 |
| E6.62. 15. R.0 | 150 | 186 | 3.57 |
| E6.62. 162. R.0 | 162 | 198 | 3.61 |
| E6.62. 17. R.0 | 168 | 204 | 3.63 |
| E6.62. 18. R.0 | 175 | 211 | 3.65 |
| E6.62. 187. R.0 | 187 | 223 | 3.69 |
| E6.62. 20. R.0 | 200 | 236 | 3.74 |

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.62 [kg/m] |
|---|---|---|---|
| E6.62. 212. R.0 | 212 | 248 | 3.78 |
| E6.62. 23. R.0 | 225 | 261 | 3.83 |
| E6.62. 237. R.0 | 237 | 273 | 3.87 |
| E6.62. 25. R.0 | 250 | 286 | 3.91 |
| E6.62. 262. R.0 | 262 | 298 | 3.95 |
| E6.62. 28. R.0 | 275 | 311 | 4.00 |
| E6.62. 29. R.0 | 287 | 323 | 4.04 |
| E6.62. 30. R.0 | 300 | 336 | 4.09 |
| E6.62. 312. R.0 | 312 | 348 | 4.13 |
| E6.62. 325. R.0 | 325 | 361 | 4.17 |
| E6.62. 337. R.0 | 337 | 373 | 4.21 |
| E6.62. 350. R.0 | 350 | 386 | 4.26 |
| E6.62. 362. R.0 | 362 | 398 | 4.30 |
| E6.62. 375. R.0 | 375 | 411 | 4.35 |
| E6.62. 387. R.0 | 387 | 423 | 4.39 |
| E6.62. 400. R.0 | 400 | 436 | 4.43 |

**Available bend radii**

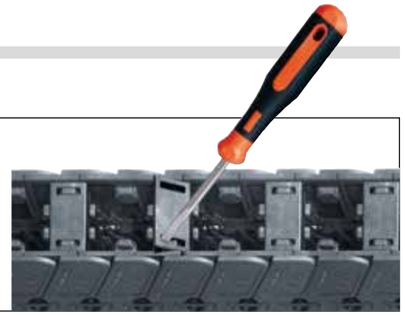
R [mm] | 115 | 150 | 200 | 250 | 300 | 350 |

Complete Part No. with required radius (R). Example: **E6.62.10.250.0**

### Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**



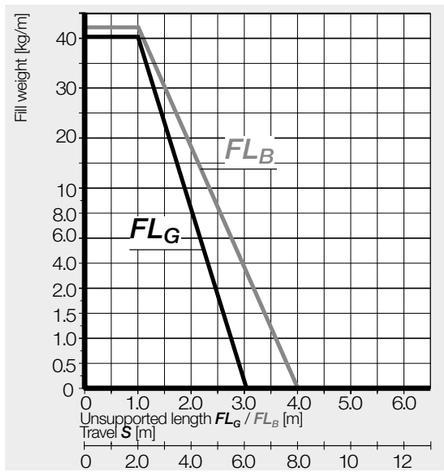


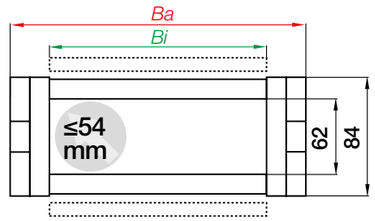


# E6 | Series E6.62 | Installation dimensions

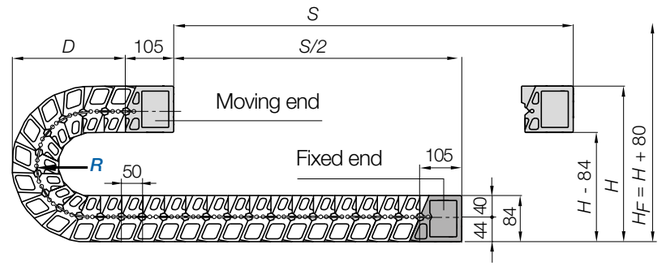
▶ 1392 ▶ 1322

## Unsupported applications | Short travels




| | |
|---|---|
| Inner height [mm] | 62 |
| Pitch [mm/link] | 50 |
| Links/m | 20 |
| corresponds to [mm] | 1,000 |
| e-chain® length | $L_K = S/2 + K$ |




| R | 115 | 150 | 200 | 250 | 300 | 350 |
|---|---|---|---|---|---|---|
| H | 388 | 458 | 558 | 658 | 758 | 858 |
| D | 234 | 269 | 319 | 369 | 419 | 469 |
| K | 465 | 575 | 730 | 890 | 1,045 | 1,200 |

The required clearance height: $H_F = H + 80$mm (with 2.0kg/m fill weight)

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

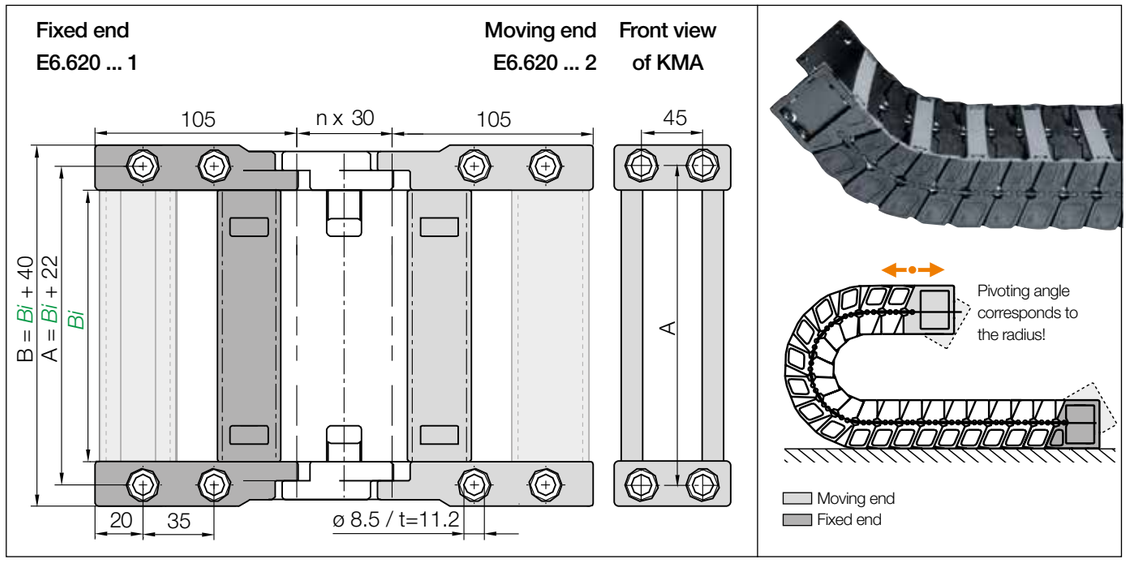
### Steel support tray for support of the lower run

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

**More information ▶ From page 1356**

# E6 | Series E6.62 | Accessories

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




## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 05. ▶ | E6.620. 05. 12.C | 72 | 90 | 50 |
| 06. ▶ | E6.620. 06. 12.C | 90 | 108 | 68 |
| 07. ▶ | E6.620. 07. 12.C | 97 | 115 | 75 |
| 087. ▶ | E6.620. 087.12.C | 109 | 127 | 87 |
| 097. ▶ | E6.620. 097.12.C | 119 | 137 | 97 |
| 10. ▶ | E6.620. 10. 12.C | 122 | 140 | 100 |
| 11. ▶ | E6.620. 11. 12.C | 130 | 148 | 108 |
| 112. ▶ | E6.620. 112.12.C | 134 | 152 | 112 |
| 12. ▶ | E6.620. 12. 12.C | 147 | 165 | 125 |
| 137. ▶ | E6.620. 137.12.C | 159 | 177 | 137 |
| 15. ▶ | E6.620. 15. 12.C | 172 | 190 | 150 |
| 162. ▶ | E6.620. 162.12.C | 184 | 202 | 162 |
| 17. ▶ | E6.620. 17. 12.C | 190 | 208 | 168 |
| 18. ▶ | E6.620. 18. 12.C | 197 | 215 | 175 |
| 187. ▶ | E6.620. 187.12.C | 209 | 227 | 187 |
| 20. ▶ | E6.620. 20. 12.C | 222 | 240 | 200 |

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 212. ▶ | E6.620. 212.12.C | 234 | 252 | 212 |
| 23. ▶ | E6.620. 23. 12.C | 247 | 265 | 225 |
| 237. ▶ | E6.620. 237.12.C | 259 | 277 | 237 |
| 25. ▶ | E6.620. 25. 12.C | 272 | 290 | 250 |
| 262. ▶ | E6.620. 262.12.C | 284 | 302 | 262 |
| 28. ▶ | E6.620. 28. 12.C | 297 | 315 | 275 |
| 29. ▶ | E6.620. 29. 12.C | 309 | 327 | 287 |
| 30. ▶ | E6.620. 30. 12.C | 322 | 340 | 300 |
| 312 ▶ | E6.620. 312.12.C | 334 | 352 | 312 |
| 325. ▶ | E6.620. 325.12.C | 347 | 365 | 325 |
| 337. ▶ | E6.620. 337.12.C | 359 | 377 | 337 |
| 350. ▶ | E6.620. 350.12.C | 372 | 390 | 350 |
| 362 ▶ | E6.620. 362.12.C | 384 | 402 | 362 |
| 375. ▶ | E6.620. 375.12.C | 397 | 415 | 375 |
| 387. ▶ | E6.620. 387.12.C | 409 | 427 | 387 |
| 400. ▶ | E6.620. 400.12.C | 422 | 440 | 400 |

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**

Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile**, please attach index **.A1**, **.A2**, **.A3** or **.A4**.

E6.620.10.12.C.A2 **Order example**

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

Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

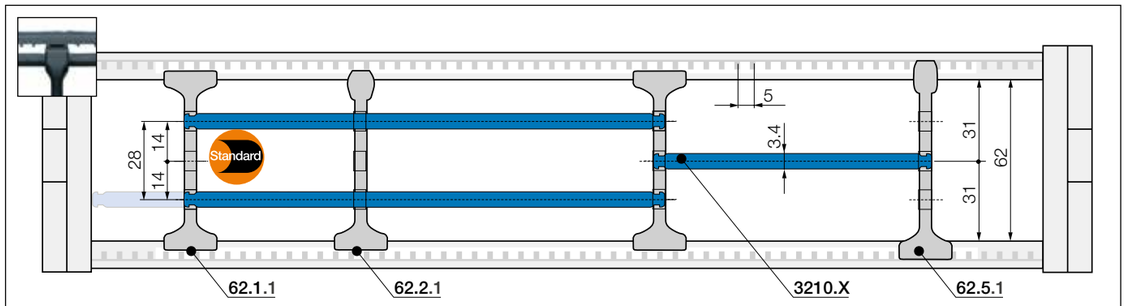




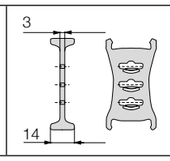
# E6 | Series E6.62 | Accessories

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.62**



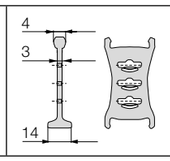

**No lateral gap to side links necessary.**
**As standard separators are fitted every 2nd e-chain® link!**




| Standard separator, wide base | |
|---|---|
| unassembled | 62.1 |
| assembled | 62.1.1 |

### Standard - for any application

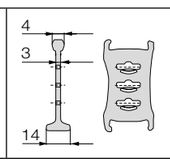
Separator with a wide base for maximum holding force.




| Separator, narrow top | |
|---|---|
| unassembled | 62.2 |
| assembled | 62.2.1 |

### For even faster installation

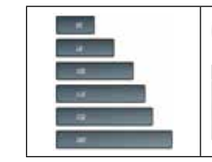
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

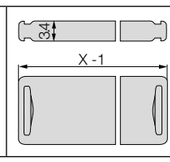



| Notch separator for notched crossbar | |
|---|---|
| unassembled | 62.5 |
| assembled | 62.5.1 |

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.






| Shelf, lockable | |
|---|---|
| unassembled | 3200.X |
| assembled | 3210.X |

### Horizontal separation

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

### Shelves

Width = X [mm]

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

# E6 | Series E6.80L | Product range

## Extremely low noise and vibration

80

## e-chains® | Series E6.80L | Crossbars removable along the inner and outer radius

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.80L [kg/m] |
|---|---|---|---|
| E6.80L. 08. R.0 | 87 | 115 | 3.28 |
| E6.80L. 10. R.0 | 100 | 128 | 3.33 |
| E6.80L. 11. R.0 | 112 | 140 | 3.38 |
| E6.80L. 12. R.0 | 125 | 153 | 3.43 |
| E6.80L. 13. R.0 | 137 | 165 | 3.49 |
| E6.80L. 15. R.0 | 150 | 178 | 3.55 |
| E6.80L. 16. R.0 | 162 | 190 | 3.61 |
| E6.80L. 17. R.0 | 175 | 203 | 3.67 |
| E6.80L. 18. R.0 | 187 | 215 | 3.73 |
| E6.80L. 20. R.0 | 200 | 228 | 3.79 |
| E6.80L. 21. R.0 | 212 | 240 | 3.85 |
| E6.80L. 22. R.0 | 225 | 253 | 3.91 |
| E6.80L. 23. R.0 | 237 | 265 | 3.97 |
| E6.80L. 25. R.0 | 250 | 278 | 4.02 |
| E6.80L. 26. R.0 | 262 | 290 | 4.09 |
| E6.80L. 27. R.0 | 275 | 303 | 4.14 |
| E6.80L. 28. R.0 | 287 | 315 | 4.20 |
| E6.80L. 30. R.0 | 300 | 328 | 4.26 |
| E6.80L. 31. R.0 | 312 | 340 | 4.32 |

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.80L [kg/m] |
|---|---|---|---|
| E6.80L. 32. R.0 | 325 | 353 | 4.38 |
| E6.80L. 33. R.0 | 337 | 365 | 4.44 |
| E6.80L. 35. R.0 | 350 | 378 | 4.50 |
| E6.80L. 36. R.0 | 362 | 390 | 4.56 |
| E6.80L. 37. R.0 | 375 | 403 | 4.62 |
| E6.80L. 38. R.0 | 387 | 415 | 4.68 |
| E6.80L. 40. R.0 | 400 | 428 | 4.74 |
| E6.80L. 41. R.0 | 412 | 440 | 4.80 |
| E6.80L. 42. R.0 | 425 | 453 | 4.85 |
| E6.80L. 43. R.0 | 437 | 465 | 4.92 |
| E6.80L. 45. R.0 | 450 | 478 | 5.03 |
| E6.80L. 46. R.0 | 462 | 490 | 5.09 |
| E6.80L. 47. R.0 | 475 | 503 | 5.15 |
| E6.80L. 48. R.0 | 487 | 515 | 5.21 |
| E6.80L. 50. R.0 | 500 | 528 | 5.27 |
| E6.80L. 51. R.0 | 512 | 540 | 5.33 |
| E6.80L. 52. R.0 | 525 | 553 | 5.39 |
| E6.80L. 53. R.0 | 537 | 565 | 5.45 |
| E6.80L. 55. R.0 | 550 | 578 | 5.51 |

**Available bend radii**

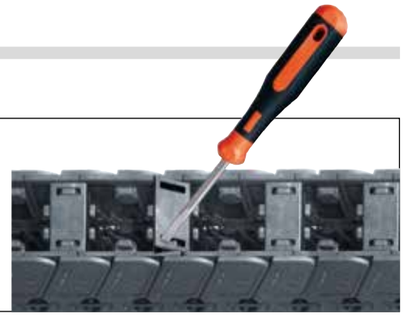
*R* [mm] | 150 | 175 | 200 | 250 | 300 |

Complete Part No. with required radius (*R*). Example: **E6.80L.10.175.0**

### Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**



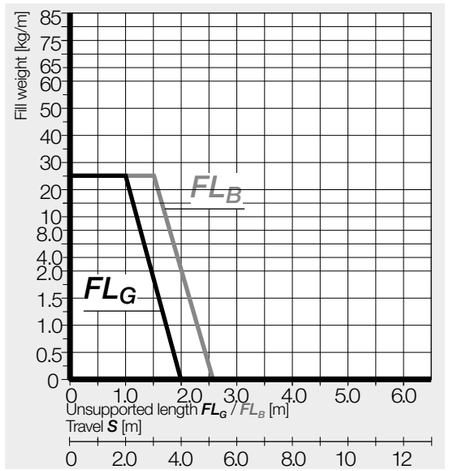


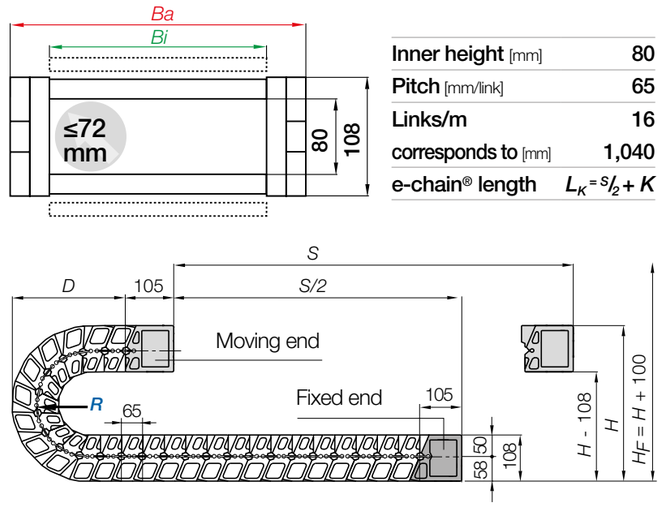


# E6 | Series E6.80L | Installation dimensions

## Unsupported applications | Short travels

▶ 1392 ▶ 1324




| | | | | | |
|---|---|---|---|---|---|
| *R* | 150 | 175 | 200 | 250 | 300 |
| ***H*** | 516 | 566 | 616 | 716 | 816 |
| ***D*** | 306 | 331 | 356 | 406 | 456 |
| ***K*** | 605 | 680 | 760 | 915 | 1,075 |

The required clearance height: $H_F = H + 100$mm (with 5.0kg/m fill weight)

| | |
|---|---|
| Inner height [mm] | 80 |
| Pitch [mm/link] | 65 |
| Links/m | 16 |
| corresponds to [mm] | 1,040 |
| e-chain® length | $L_K = S/2 + K$ |

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

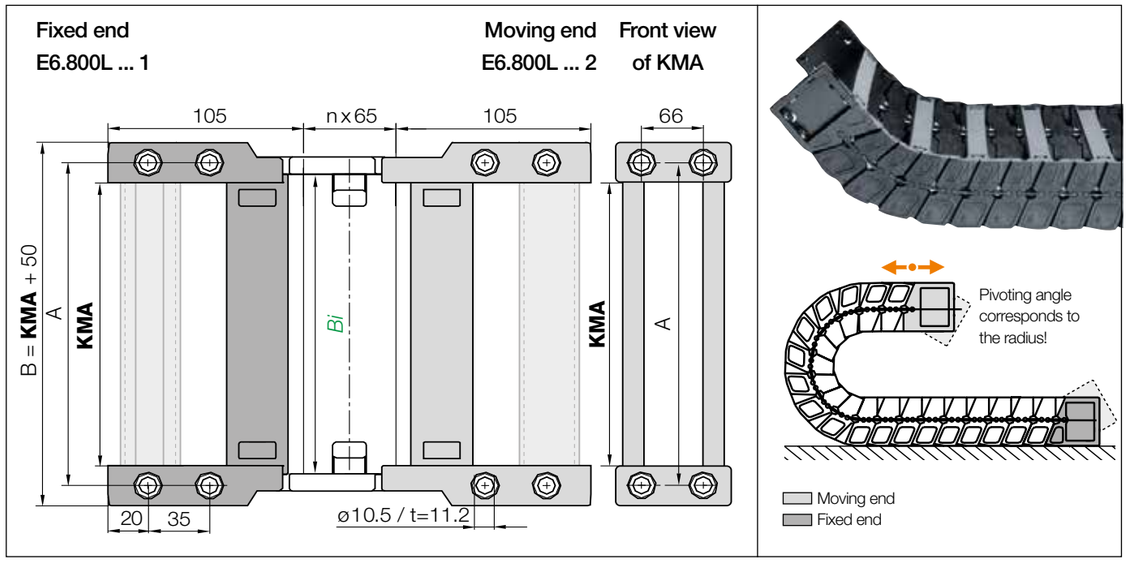
### Steel support tray for support of the lower run

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

**More information ▶ From page 1356**

# E6 | Series E6.80L | Accessories

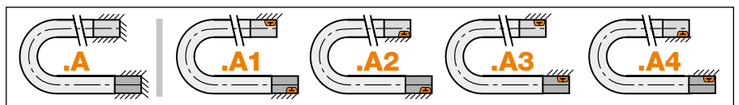
## KMA mounting brackets | Attachment from any side | Pivoting



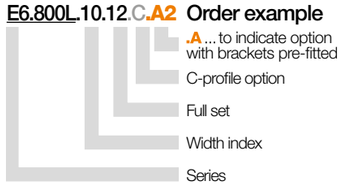

## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A [mm] | KMA [mm] |
|---|---|---|---|
| 08. ▶ | E6.800L.08. 12.C | 103 | 75 |
| 10. ▶ | E6.800L.10. 12.C | 115 | 87 |
| 11. ▶ | E6.800L.11. 12.C | 128 | 100 |
| 12. ▶ | E6.800L.12. 12.C | 140 | 112 |
| 13. ▶ | E6.800L.13. 12.C | 153 | 125 |
| 15. ▶ | E6.800L.15. 12.C | 165 | 137 |
| 16. ▶ | E6.800L.16. 12.C | 178 | 150 |
| 17. ▶ | E6.800L.17. 12.C | 190 | 162 |
| 18. ▶ | E6.800L.18. 12.C | 203 | 175 |
| 20. ▶ | E6.800L.20. 12.C | 215 | 187 |
| 21. ▶ | E6.800L.21. 12.C | 228 | 200 |
| 22. ▶ | E6.800L.22. 12.C | 240 | 212 |
| 23. ▶ | E6.800L.23. 12.C | 253 | 225 |
| 25. ▶ | E6.800L.25. 12.C | 265 | 237 |
| 26. ▶ | E6.800L.26. 12.C | 278 | 250 |
| 27. ▶ | E6.800L.27. 12.C | 290 | 262 |
| 28. ▶ | E6.800L.28. 12.C | 303 | 275 |
| 30. ▶ | E6.800L.30. 12.C | 315 | 287 |
| 31. ▶ | E6.800L.31. 12.C | 328 | 300 |
| 32. ▶ | E6.800L.32. 12.C | 340 | 312 |
| 33. ▶ | E6.800L.33. 12.C | 353 | 325 |
| 35. ▶ | E6.800L.35. 12.C | 365 | 337 |
| 36. ▶ | E6.800L.36. 12.C | 378 | 350 |
| 37. ▶ | E6.800L.37. 12.C | 390 | 362 |
| 38. ▶ | E6.800L.38. 12.C | 403 | 375 |
| 40. ▶ | E6.800L.40. 12.C | 415 | 387 |
| 41. ▶ | E6.800L.41. 12.C | 428 | 400 |
| 42. ▶ | E6.800L.42. 12.C | 440 | 412 |
| 43. ▶ | E6.800L.43. 12.C | 453 | 425 |
| 45. ▶ | E6.800L.45. 12.C | 465 | 437 |
| 46. ▶ | E6.800L.46. 12.C | 478 | 450 |
| 47. ▶ | E6.800L.47. 12.C | 490 | 462 |
| 48. ▶ | E6.800L.48. 12.C | 503 | 475 |
| 50. ▶ | E6.800L.50. 12.C | 515 | 487 |
| 51. ▶ | E6.800L.51. 12.C | 528 | 500 |
| 52. ▶ | E6.800L.52. 12.C | 540 | 512 |
| 53. ▶ | E6.800L.53. 12.C | 553 | 525 |
| 55. ▶ | E6.800L.55. 12.C | 565 | 537 |

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**




Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile**, please attach index **.A1**, **.A2**, **.A3** or **.A4**.




Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

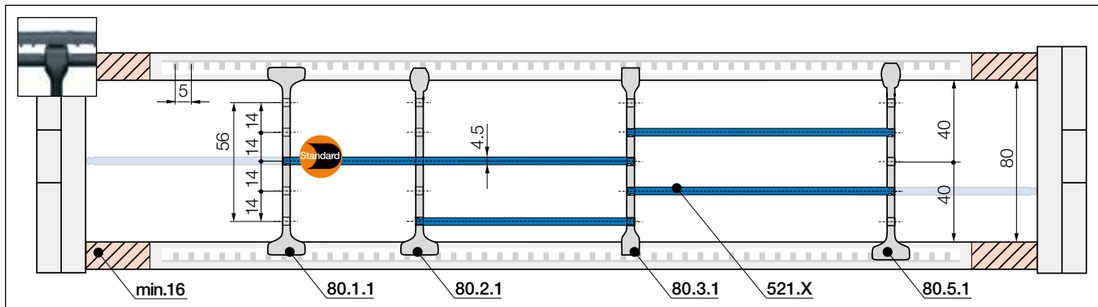




# E6 | Series E6.80L | Accessories

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.80L**




**Note:** Please be aware of the minimum lateral gap to the side links! **e-chain®: 16mm**
As standard separators are fitted every 2nd e-chain® link!

| Standard separator, wide base | |
|---|---|
| unassembled | 80.1 |
| assembled | 80.1.1 |

### Standard - for any application

Separator with a wide base for maximum holding force.

| Separator, narrow top | |
|---|---|
| unassembled | 80.2 |
| assembled | 80.2.1 |

### For even faster installation

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

| Separator, narrow | |
|---|---|
| unassembled | 80.3 |
| assembled | 80.3.1 |

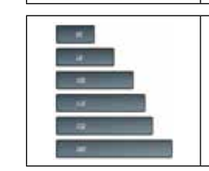
### For small cables

Separator with a narrow base for a large number of small cables side by side. Saves space.

| Notch separator for notched crossbar | |
|---|---|
| unassembled | 80.5 |
| assembled | 80.5.1 |

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.




| Shelf, lockable | |
|---|---|
| unassembled | 520.X |
| assembled | 521.X |

### Horizontal separation

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

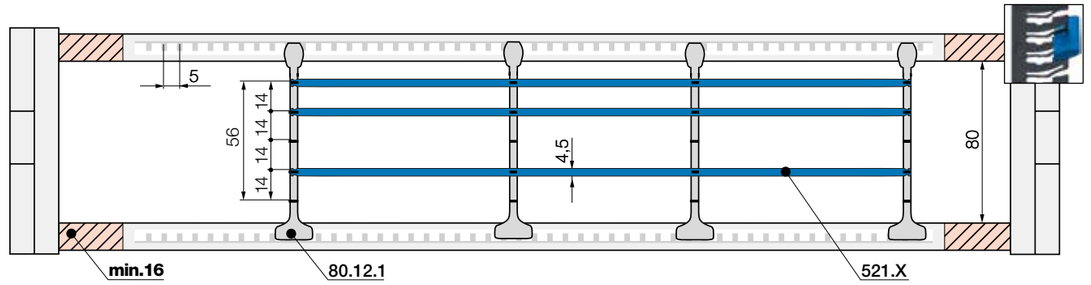
### Shelves

Width = X [mm]

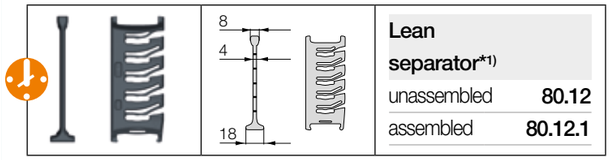
| X [mm] | unassembled | assembled |
|---|---|---|
| 050 | 520.050 | 521.050 |
| 065 | 520.065 | 521.065 |
| 075 | 520.075 | 521.075 |
| 100 | 520.100 | 521.100 |
| 125 | 520.125 | 521.125 |
| 150 | 520.150 | 521.150 |
| 175 | 520.175 | 521.175 |
| 200 | 520.200 | 521.200 |
| 225 | 520.225 | 521.225 |
| 250 | 520.250 | 521.250 |
| 300 | 520.300 | 521.300 |
| 350 | 520.350 | 521.350 |
| 375 | 520.375 | 521.375 |
| 387 | 520.387 | 521.387 |
| 450 | 520.450 | 521.450 |

# E6 | Series E6.80L | Accessories

## Interior separation | To allow faster filling




**Note:** Please be aware of the minimum lateral gap to the side links! **e-chain®: 16mm**
As standard separators are fitted every 2nd e-chain® link!




| Lean separator*1) | |
|---|---|
| unassembled | 80.12 |
| assembled | 80.12.1 |

### Lean separators*1)

For quick fitting of shelves in several layers.

**1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!**

*Only suitable for e-chains®

**With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%2).**

2) Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory

# E6 | Application example

The E6 system is one of the best ways to guide energy, data and media safely and with very low vibration on printers and plotters

# E6 | Series E6.80 | Product range

## Extremely low noise and vibration

80

## e-chains® | Series E6.80 | Crossbars removable along the inner and outer radius

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.80 [kg/m] |
|---|---|---|---|
| E6.80. 05. R.0 | 50 | 100 | 5.21 |
| E6.80. 06. R.0 | 65 | 115 | 5.28 |
| E6.80. 07. R.0 | 75 | 125 | 5.33 |
| E6.80. 08. R.0 | 87 | 137 | 5.38 |
| E6.80. 10. R.0 | 100 | 150 | 5.45 |
| E6.80. 11. R.0 | 112 | 162 | 5.50 |
| E6.80. 12. R.0 | 125 | 175 | 5.57 |
| E6.80. 13. R.0 | 137 | 187 | 5.62 |
| E6.80. 15. R.0 | 150 | 200 | 5.68 |
| E6.80. 16. R.0 | 162 | 212 | 5.74 |
| E6.80. 17. R.0 | 175 | 225 | 5.80 |
| E6.80. 18. R.0 | 187 | 237 | 5.86 |
| E6.80. 20. R.0 | 200 | 250 | 5.92 |
| E6.80. 21. R.0 | 212 | 262 | 5.98 |
| E6.80. 22. R.0 | 225 | 275 | 6.04 |
| E6.80. 23. R.0 | 237 | 287 | 6.10 |
| E6.80. 25. R.0 | 250 | 300 | 6.16 |
| E6.80. 26. R.0 | 262 | 312 | 6.21 |
| E6.80. 27. R.0 | 275 | 325 | 6.28 |
| E6.80. 28. R.0 | 287 | 337 | 6.33 |
| E6.80. 30. R.0 | 300 | 350 | 6.39 |

| Part No. e-chains® | Bi [mm] | Ba [mm] | E6.80 [kg/m] |
|---|---|---|---|
| E6.80. 31. R.0 | 312 | 362 | 6.45 |
| E6.80. 32. R.0 | 325 | 375 | 6.51 |
| E6.80. 33. R.0 | 337 | 387 | 6.57 |
| E6.80. 35. R.0 | 350 | 400 | 6.63 |
| E6.80. 36. R.0 | 362 | 412 | 6.69 |
| E6.80. 37. R.0 | 375 | 425 | 6.75 |
| E6.80. 38. R.0 | 387 | 437 | 6.80 |
| E6.80. 40. R.0 | 400 | 450 | 6.88 |
| E6.80. 41. R.0 | 412 | 462 | 6.92 |
| E6.80. 42. R.0 | 425 | 475 | 6.99 |
| E6.80. 43. R.0 | 437 | 487 | 7.04 |
| E6.80. 45. R.0 | 450 | 500 | 7.10 |
| E6.80. 46. R.0 | 462 | 512 | 7.16 |
| E6.80. 47. R.0 | 475 | 525 | 7.22 |
| E6.80. 48. R.0 | 487 | 537 | 7.28 |
| E6.80. 50. R.0 | 500 | 550 | 7.34 |
| E6.80. 51. R.0 | 512 | 562 | 7.40 |
| E6.80. 52. R.0 | 525 | 575 | 7.46 |
| E6.80. 53. R.0 | 537 | 587 | 7.52 |
| E6.80. 55. R.0 | 550 | 600 | 7.58 |
| E6.80. 60. R.0 | 600 | 650 | 7.81 |

**Available bend radii**

R [mm] | 150 | 200 | 250 | 300 | 350 | 400 | 450 |

Complete Part No. with required radius (R). Example: **E6.80.10.300.0**

### Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

**Assembly video available online at ▶ www.igus.eu/E6_assembly**

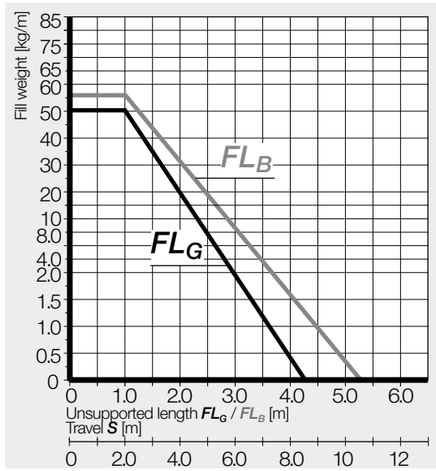


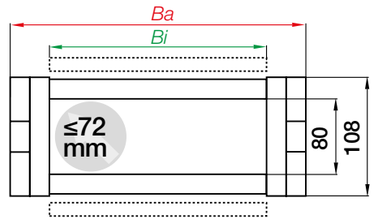


# E6 | Series E6.80 | Installation dimensions

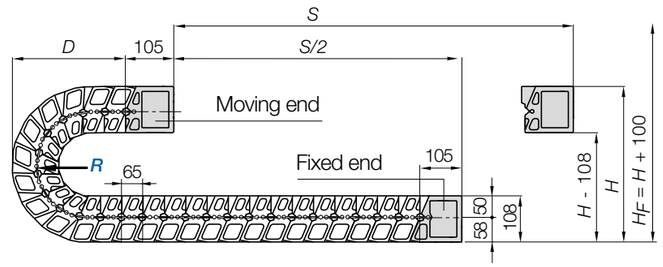
## Unsupported applications | Short travels

▶ 1392 ▶ 1324




| | |
|---|---|
| Inner height [mm] | 80 |
| Pitch [mm/link] | 65 |
| Links/m | 16 |
| corresponds to [mm] | 1,040 |
| e-chain® length | $L_K = S/2 + K$ |




| R | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
|---|---|---|---|---|---|---|---|
| H | 516 | 616 | 716 | 816 | 916 | 1,016 | 1,116 |
| D | 306 | 356 | 406 | 456 | 506 | 556 | 606 |
| K | 605 | 760 | 920 | 1,075 | 1,230 | 1,390 | 1,545 |

The required clearance height: $H_F = H + 100$mm (with 5.0kg/m fill weight)

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

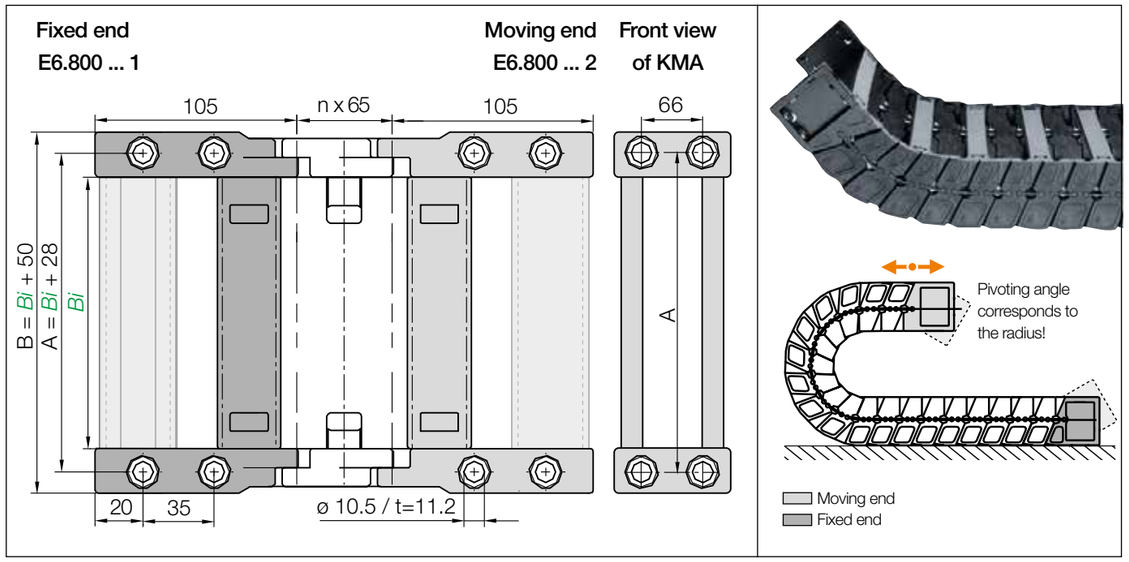
### Steel support tray for support of the lower run

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

**More information ▶ From page 1356**

# E6 | Series E6.80 | Accessories

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




## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 05. ▶ | E6.800. 05. 12.C | 78 | 100 | 50 |
| 06. ▶ | E6.800. 06. 12.C | 93 | 115 | 65 |
| 07. ▶ | E6.800. 07. 12.C | 103 | 125 | 75 |
| 08. ▶ | E6.800. 08. 12.C | 115 | 137 | 87 |
| 10. ▶ | E6.800. 10. 12.C | 128 | 150 | 100 |
| 11. ▶ | E6.800. 11. 12.C | 140 | 162 | 112 |
| 12. ▶ | E6.800. 12. 12.C | 153 | 175 | 125 |
| 13. ▶ | E6.800. 13. 12.C | 165 | 187 | 137 |
| 15. ▶ | E6.800. 15. 12.C | 178 | 200 | 150 |
| 16. ▶ | E6.800. 16. 12.C | 190 | 212 | 162 |
| 17. ▶ | E6.800. 17. 12.C | 203 | 225 | 175 |
| 18. ▶ | E6.800. 18. 12.C | 215 | 237 | 187 |
| 20. ▶ | E6.800. 20. 12.C | 228 | 250 | 200 |
| 21. ▶ | E6.800. 21. 12.C | 240 | 262 | 212 |
| 22. ▶ | E6.800. 22. 12.C | 253 | 275 | 225 |
| 23. ▶ | E6.800. 23. 12.C | 265 | 287 | 237 |
| 25. ▶ | E6.800. 25. 12.C | 278 | 300 | 250 |
| 26. ▶ | E6.800. 26. 12.C | 290 | 412 | 262 |
| 27. ▶ | E6.800. 27. 12.C | 303 | 325 | 275 |
| 28. ▶ | E6.800. 28. 12.C | 315 | 337 | 287 |
| 30. ▶ | E6.800. 30. 12.C | 328 | 350 | 300 |

| Width index | Part No. full set KMA pivoting | A [mm] | B [mm] | Bi [mm] |
|---|---|---|---|---|
| 31. ▶ | E6.800. 31. 12.C | 340 | 362 | 312 |
| 32. ▶ | E6.800. 32. 12.C | 353 | 375 | 325 |
| 33. ▶ | E6.800. 33. 12.C | 365 | 387 | 337 |
| 35. ▶ | E6.800. 35. 12.C | 378 | 400 | 350 |
| 36. ▶ | E6.800. 36. 12.C | 390 | 412 | 362 |
| 37. ▶ | E6.800. 37. 12.C | 403 | 425 | 375 |
| 38. ▶ | E6.800. 38. 12.C | 415 | 437 | 387 |
| 40. ▶ | E6.800. 40. 12.C | 428 | 450 | 400 |
| 41. ▶ | E6.800. 41. 12.C | 440 | 462 | 412 |
| 42. ▶ | E6.800. 42. 12.C | 453 | 475 | 425 |
| 43. ▶ | E6.800. 43. 12.C | 465 | 487 | 437 |
| 45. ▶ | E6.800. 45. 12.C | 478 | 500 | 450 |
| 46. ▶ | E6.800. 46. 12.C | 490 | 512 | 462 |
| 47. ▶ | E6.800. 47. 12.C | 503 | 525 | 475 |
| 48. ▶ | E6.800. 48. 12.C | 515 | 537 | 487 |
| 50. ▶ | E6.800. 50. 12.C | 528 | 550 | 500 |
| 51. ▶ | E6.800. 51. 12.C | 540 | 562 | 512 |
| 52. ▶ | E6.800. 52. 12.C | 553 | 575 | 525 |
| 53. ▶ | E6.800. 53. 12.C | 565 | 587 | 537 |
| 55. ▶ | E6.800. 55. 12.C | 578 | 600 | 550 |
| 60. ▶ | E6.800. 60. 12.C | 628 | 650 | 600 |

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**

Orientations for KMA mounting brackets. To receive KMA pre-fitted **without C-profile** please add index **.A**. Please add index **.A2** for the standard version **with C-profile**, in the inner radius at the moving end and in the outer radius at the fixed end.

**E6.800.10.12.C.A2 Order example**

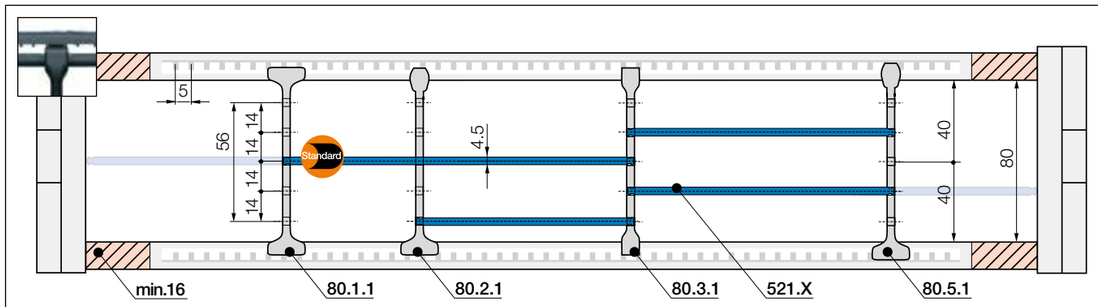
- **.A** ... to indicate option with brackets pre-fitted
- C-profile option
- Full set
- Width index
- Series





## Interior separation | Increase cable service life

Previous generation of interior separation with other options ▶ **www.igus.eu/E6.80**




**Note:** Please be aware of the minimum lateral gap to the side links! **e-chain®: 16mm**

As standard separators are fitted every 2nd e-chain® link!

| Standard separator, wide base | |
|---|---|
| unassembled | 80.1 |
| assembled | 80.1.1 |

### Standard - for any application

Separator with a wide base for maximum holding force.

| Separator, narrow top | |
|---|---|
| unassembled | 80.2 |
| assembled | 80.2.1 |

### For even faster installation

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

| Separator, narrow | |
|---|---|
| unassembled | 80.3 |
| assembled | 80.3.1 |

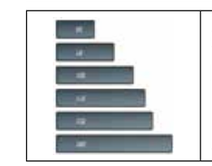
### For small cables

Separator with a narrow base for a large number of small cables side by side. Saves space.

| Notch separator for notched crossbar | |
|---|---|
| unassembled | 80.5 |
| assembled | 80.5.1 |

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.




| Shelf, lockable | |
|---|---|
| unassembled | 520.X |
| assembled | 521.X |

### Horizontal separation

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

### Shelves

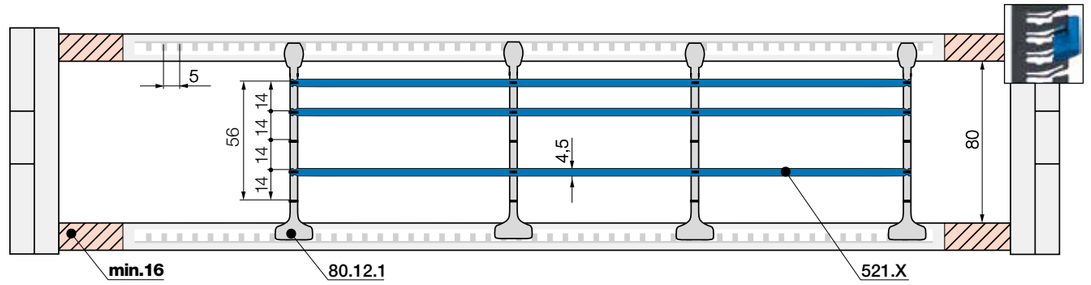
Width = X [mm]

| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|---|---|---|---|---|---|---|---|---|
| 050 | 520.050 | 521.050 | 150 | 520.150 | 521.150 | 300 | 520.300 | 521.300 |
| 065 | 520.065 | 521.065 | 175 | 520.175 | 521.175 | 350 | 520.350 | 521.350 |
| 075 | 520.075 | 521.075 | 200 | 520.200 | 521.200 | 375 | 520.375 | 521.375 |
| 100 | 520.100 | 521.100 | 225 | 520.225 | 521.225 | 387 | 520.387 | 521.387 |
| 125 | 520.125 | 521.125 | 250 | 520.250 | 521.250 | 450 | 520.450 | 521.450 |

Strain relief **e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392**

# E6 | Series E6.80 | Accessories

## Interior separation | To allow faster filling

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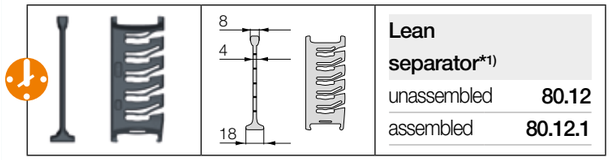


| Lean separator*1) | |
|---|---|
| unassembled | 80.12 |
| assembled | 80.12.1 |

### Lean separators*1)

For quick fitting of shelves in several layers.

**1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!**

*Only suitable for e-chains®

**With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%2).**

2) Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory

igus® system E6 guiding an extraction hose - speed 8m/s, acceleration 78.5m/s²

An igus® e-chain® from the E6 range accelerates work processes in the wafer-handling application in chip production. The E6 easily supplies energy for wafer handling in chip production requiring acceleration rates of up to 4m/s² and speeds of up to 6m/s. Its low abrasion is especially important because a high degree of purity is critical in chip production. The E6 is cleanroom-compatible and has Fraunhofer IPA certification