

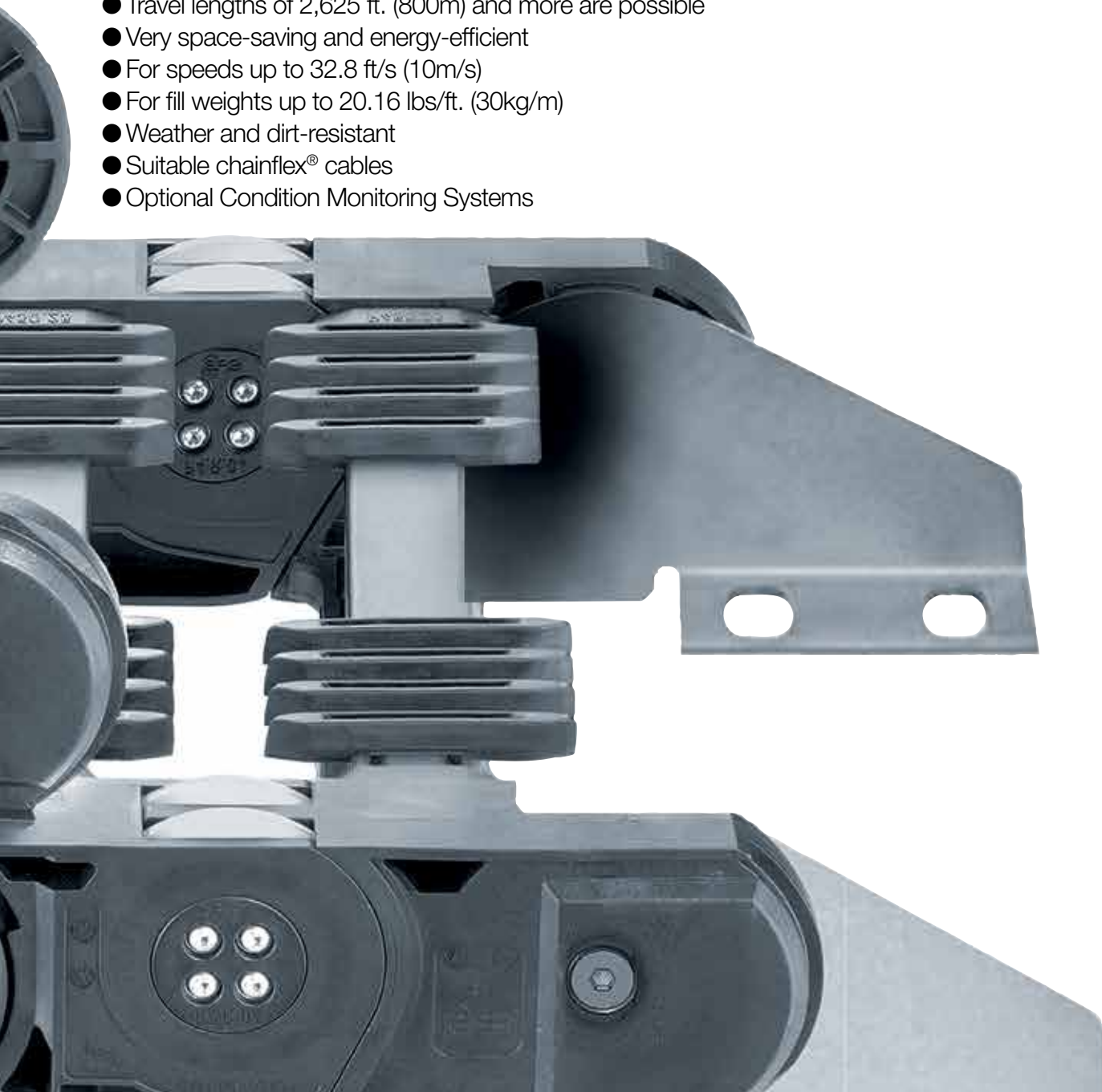
e-chains[®] for long travels

E4/4HD - System P4 -
rol e-chains[®] - autoglide

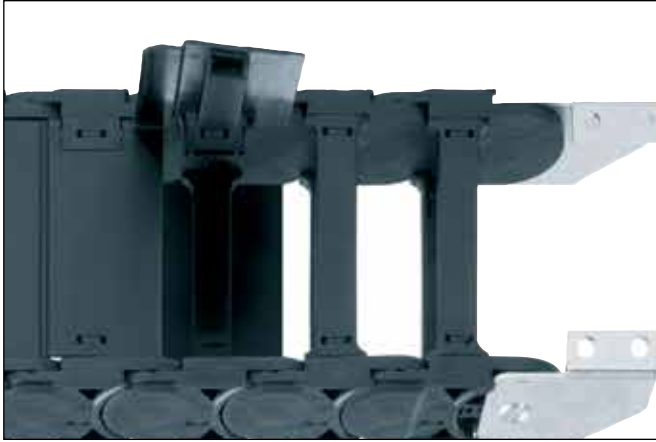


Advantages of igus[®] e-chains[®] for long travels

- Travel lengths of 2,625 ft. (800m) and more are possible
- Very space-saving and energy-efficient
- For speeds up to 32.8 ft/s (10m/s)
- For fill weights up to 20.16 lbs/ft. (30kg/m)
- Weather and dirt-resistant
- Suitable chainflex[®] cables
- Optional Condition Monitoring Systems



e-chain system® E4/4HD - P4 - rol e-chains® e-chains® for long travels



Very high fill weights for long travels - E4/4HD "Heavy-Duty"

- For very heavy fill weights and long travels
- Strong, even when used in very dirty or humid environments
- High torsional rigidity
- Long service life
- Recommended for heavy-duty applications



Reduce energy consumption by 57% - P4 profile-rol e-chain®

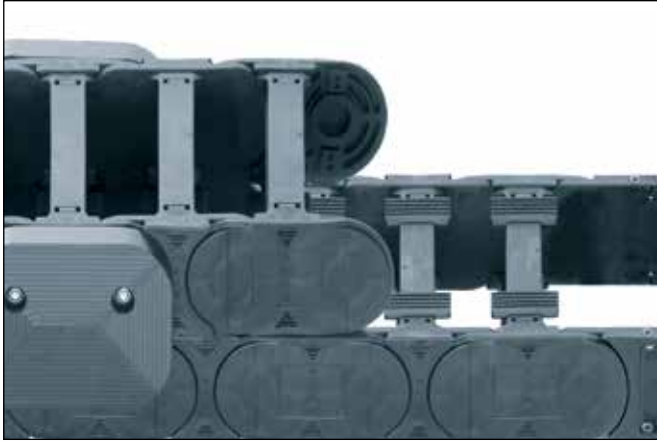
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 2,625 ft. (800m) and more, high fill weights up to 20.16 lbs/ft.(30kg/m)
- For very long travels and high travel speeds up to 32.8 ft/s (10m/s)
- autoglide crossbars for safe guidance



Rolling instead of gliding, long travels up to 800m - E4/4 rol e-chain®

- 75% reduction of drive power needed to move the e-chain®
- Long travels up to 2,625 ft. (800m) with E4/4 rol e-chain®
- Speeds up to 19.69 ft. (6m/s) possible
- Can be used in dirty environments

e-chain system® autoglide self-guiding e-chain systems®, without the need for guide troughs



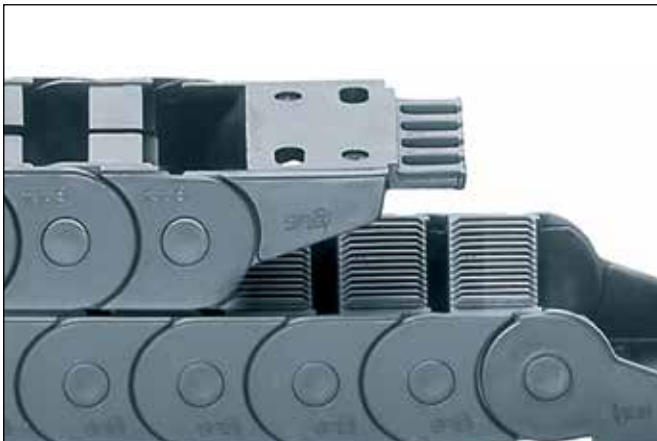
Self-guiding e-chains® for system E4.1 - autoglide version 01

- For the larger E4-1 e-chains®
- Simple guide elements for quick installation
- The autoglide crossbars safely guide the e-chain® replacing the need for a guide trough
- For travels over (32.8 ft. (10m))
- Floor guides can be driven over



Self-guiding e-chains® for system E2/000 - autoglide version 02

- Travel distance up to 229.7 ft. (70m) and speed up to 6.56 ft/s (2.0m/s)
- Very compact, removes troughs forming an obstacle in the working area
- Quick installation for long travels
- Openable along the inner radius
- Clip-on glide wings, secure movement of the e-chain®



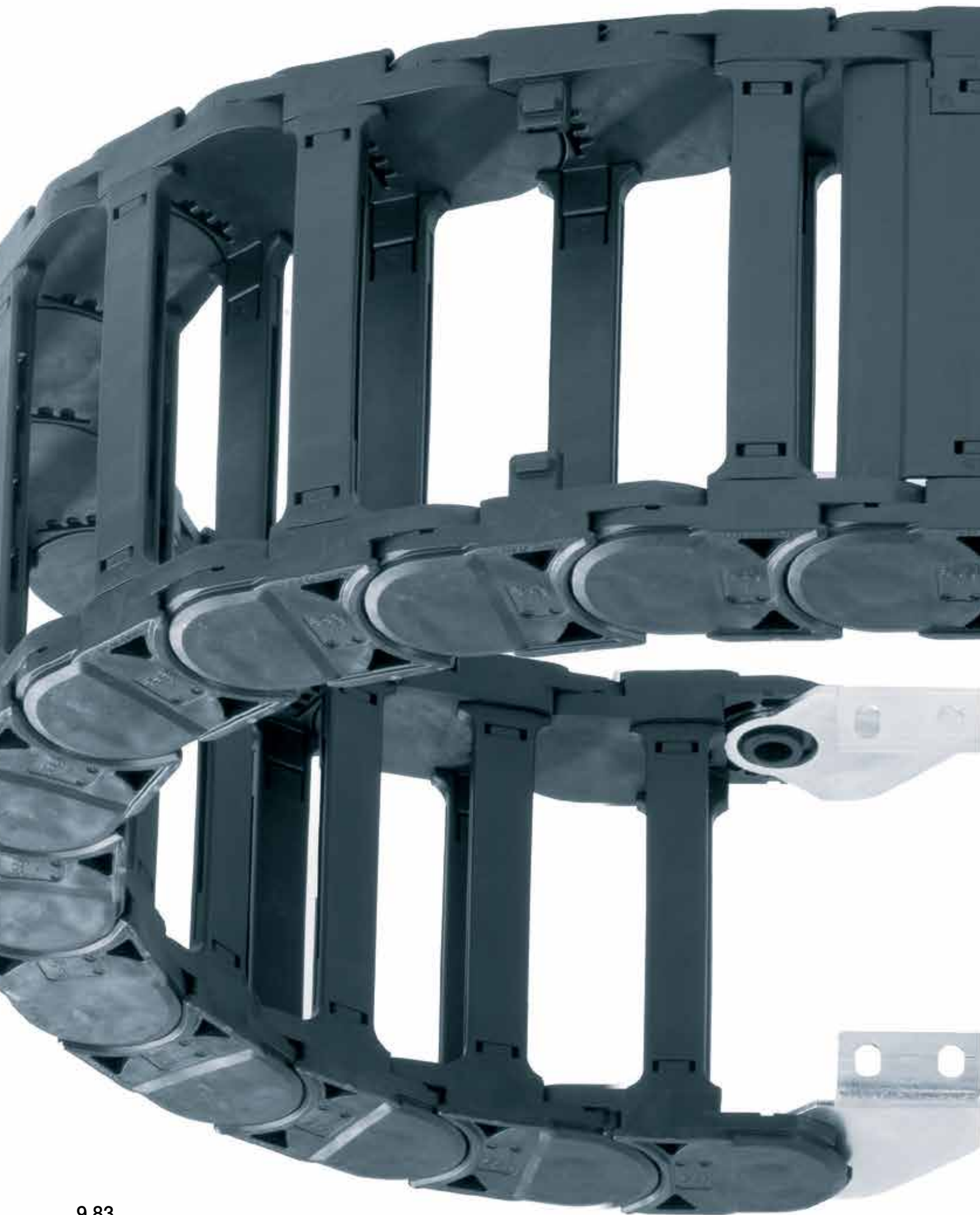
E-Z chain® openable along the outer radius, fitted with molded autoglide grooves along the inner radius - autoglide Version 03

- Doubly cost-effective due to elimination of guide troughs and economical, one-piece e-chain®
- Very quick assembly time - "easy" design
- Small width, quiet operation
- UL94-V2 classification



Special glide shoes provide a safe guiding for the E2/000 - autoglide version 04

- Reliable and precise guidance due to special plastic glide shoes
- Long travels with easier filling
- Provides precise lateral guidance and a smooth gliding of the e-chain®
- e-chains® openable along the outer radius





E4/4HD

Very high fill weights for long travels



E4/4HD advantages:

- For heavy-duty applications
- For very heavy fill weights and long travels
- The E4/4HD offers the required strength for long travels, dirty environments or with high humidity
- The undercut design provides extremely high torsional rigidity
- Extended service life is facilitated by particularly large glide surfaces
- Recommended for heavy-duty applications



When to use another e-chain® series:

- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
 - ▶ **P4 system**
- When you want a strong E4/4 rol e-chain® requiring 75% less drive power
 - ▶ **E4/4 rol e-chain®**
- When you want a self-guiding e-chain system® without any guide troughs
 - ▶ **autoglide**

E4/4 HD - for extremely high additional fill weights on long travels

The E4/4HD system was designed for the most demanding tasks. It provides the required stability in long travels with high additional weights, heavy pollution or high humidity. The extremely sturdy side plates allow high loads, the stable tongue and groove ensures extremely high torsional stiffness. A longer service life is due to the particularly large glide surfaces.

- For extremely high additional fill weights and long travels
- Ideal for heavy duty applications

Typical industries and applications

- Cranes: RTG, Quay cranes, many more
- Compost plants
- Heavy machinery
- Steel plants
- Shipyards
- Farm machinery
- General machinery



ESD classification: Electrically conductive ESD/
ATEX version upon request



High torsional rigidity



System E4/4 approved with long travel



E-Tubes available as a special design with HT material
for hot chips





The maintenance-free Series 4040HD protects the igus® chainflex® motor and signal cables during the lifting and lowering movements of the tidal turbine and also protects them against aggressive ambient conditions. The travel distance amounts to approximately 65.6 ft. (20 m) in vertical direction above and under water.

Crossbars every link for particularly demanding applications



Series	Inner height <i>hi</i> in. (mm)	Inner width <i>Bi</i> in. (mm)	Outer width <i>Ba</i> in. (mm)	Outer height <i>ha</i> in. (mm)	Bending radius <i>R</i> in. (mm)
4040HD	2.20 (56)	1.97-23.62 (50-600)	4.09-25.75 (104-654)	3.31 (84)	5.31-15.75 (135-400)
5050HD	3.15 (80)	1.97-23.62 (50-600)	4.33-25.98 (110-660)	4.25 (108)	5.91-19.69 (150-500)

E-Tubes fully enclosed, excellent cable protection against hot chips

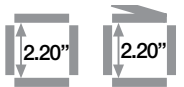


Series	Inner height <i>hi</i> in. (mm)	Inner width <i>Bi</i> in. (mm)	Outer width <i>Ba</i> in. (mm)	Outer height <i>ha</i> in. (mm)	Bending radius <i>R</i> in. (mm)
R8840HD	2.20 (56)	2.95-18.19 (75-462)	5.08-20.31 (129-516)	3.31 (84)	5.91-15.75 (150-400)
R9850HD	3.15 (80)	2.95-18.19 (75-462)	5.31-20.55 (135-522)	4.25 (108)	5.91-19.69 (150-500)

4040HD
R8840HD



e-chain system® E4/4 Series 4040HD/R8840HD



Price Index



Special Features / Options

Side-mounted - unsupported

ESD classification:
Electrically conductive ESD/
ATEX version upon request

High torsional rigidity

Assembly Tips



Opening e-chains®: Remove crossbars and clips - Insert screwdriver into the slot, push down, release by lever action



Remove lids/bottoms (E-Tubes) - Insert screwdriver into the slot, release by lever action

Other Installation Methods

Vertical, hanging ≤ 328 ft (100 m)

Vertical, standing ≤ 19.69 ft (6 m)

Side-mounted, un supp. ≤ 9.84 ft (3 m)

Rotary requires further calculation

Usage Guidelines



- When high torsional forces are expected
- For side-mounted applications
- For long-term operation in very moist environments



- If a quieter version is required
➤ **Series E4-56**
- If a simple and low-cost solution is required
➤ **Series 14040/R18840**

Features & Benefits

- 1 Robust steel-mounting brackets
- 2 Wide, rounded plastic crossbars - cable friendly
- 3 High tensile stability (20% higher tensile force than Series 4040)
- 4 Very wide glide surface, less wear
- 5 Closed and open styles can be combine
- 6 High torsional rigidity
- 7 Hinged snap-open removable lids along outer radius of Energy Tub
- 8 High side-mount stability due to undercut
- 9 Crossbars on e-chains® are removable along both radii
- 10 Numerous interior separation possibilities



Rol-e-chain® Series 4040RHD/8840RHD available upon request

Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

16.4 ft (5 m) **4040HD-30-300-0**

e-chain®

With 2 separators **56-1** assembled every 2nd link

Interior Separation

1 Set **4040HD-12-E**

Mounting Bracket

e-chain system® E4/4

Series 4040HD/R8840HD

Installation Dimensions

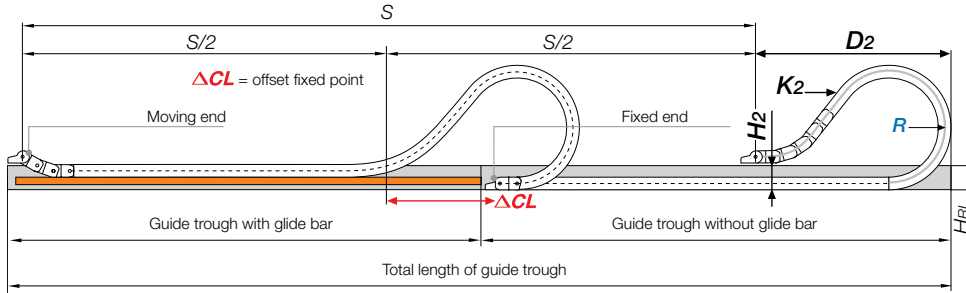


4040HD
R8840HD

For long travels with lowered mounting height

Long travel lengths from 32.8 ft. (10m) to max. 1,148 ft. (350m)

Chain length: $= \frac{S}{2} + K_2$



In case of travels between 13 ft. (4m) and 32.8 ft. (10m) we recommend a longer unsupported length.

R	5.31 (135)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)
H₂	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)
D₂	15.35 (390)	17.72 (450)	27.95 (710)	36.22 (920)	46.46 (1180)	56.69 (1440)	60.24 (1530)
K₂	28.66 (728)	32.24 (819)	50.16 (1274)	64.49 (1638)	78.82 (2002)	93.15 (2366)	100.31(2548)
ΔCL	4.88 (124)	6.26 (159)	14.13 (359)	20.04 (509)	27.91 (709)	35.79 (909)	37.76 (959)

Legend

- S = Length of travel
- H₂ = Required clearance height
- HRI = Trough inner height
- H₂ = *Mounting height
- D₂ = Over length - long travels, gliding
- K₂ = *Further add-on

*If the mounting bracket location is set lower

Long Travels - Gliding



If the unsupported length is exceeded, the e-chain®/ Tube must glide on itself. This requires a guide trough.

Design, Chapter 1



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Speed / acceleration FL _G	max. 6.56 ft/s (20 m/s) / max. 656 ft/s ² (200 m/s ²)
Speed / acceleration FL _B	max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s ² (6 m/s ²)
Gliding speed / acceleration (maximum)	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

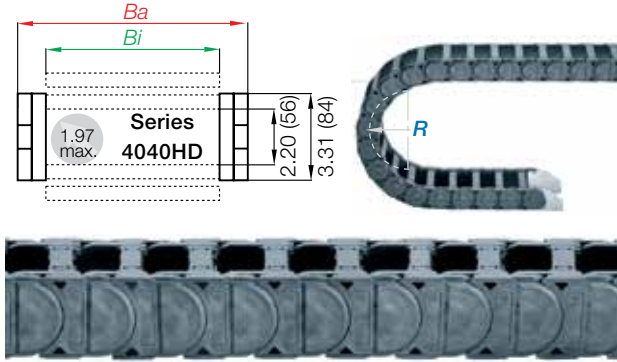
Technical Data



Details of material properties

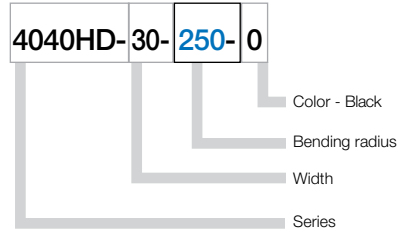
► Chapter 1

Series 4040HD - e-chain® with crossbars every link

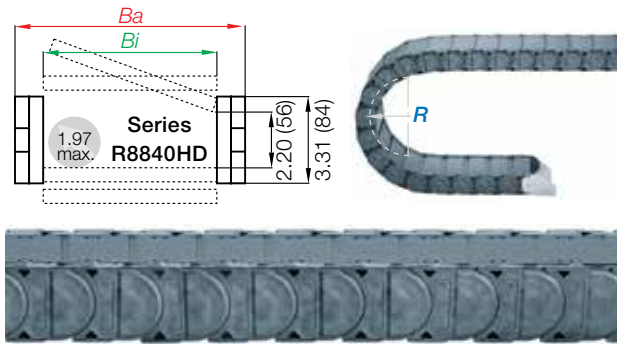


- Crossbars every link
- For use with rigid hydraulic hoses
- For particularly demanding applications
- Can be opened from both sides

Part Number Structure

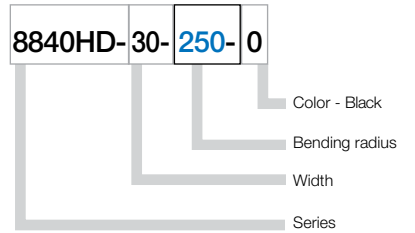


Series R8840HD - fully enclosed E-Tube

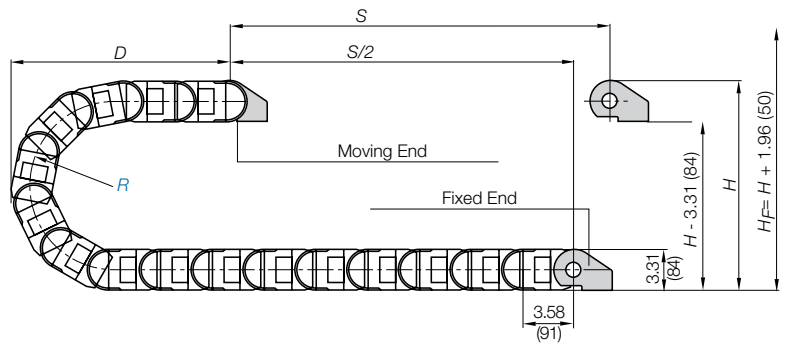
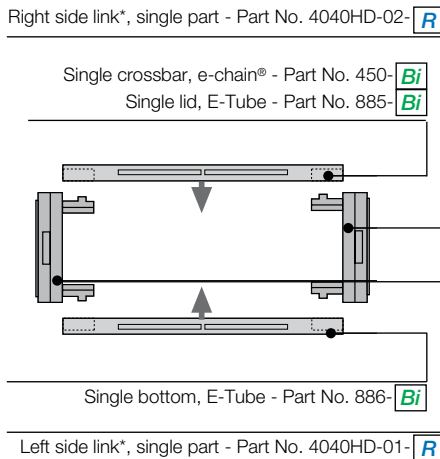


- Fully enclosed
- Excellent cable and hose protection against dirt
- Protection against hot chips up to 1652°F (900°C)
- Lids along inner radius are completely removable
- Lids along the outer radius are single-sided, snap open, hinged on one side as well as completely removable

Part Number Structure



e-chain® as separate parts, links and side plates



*View from the fixed point of the e-chain®/E-Tube

e-chain system® E4/4

Series 4040HD/R8840HD

Product Range



4040HD
R8840HD

Supplement part number with required radius. Example: 4040HD-30-300-0
Pitch: 3.58 in. (91mm) per link links/ft (m) = 3.35 (11)

Part Number			Weight			
Crossbars	Tube		<i>Bi</i>	<i>Ba</i>	4040R	8840HD
Every Link	Version		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
4040HD-05-		<input type="checkbox"/> -0	1.97 (50)	4.09 (104)	≈ 3.38 (5.03)	–
4040HD-06-		<input type="checkbox"/> -0	2.56 (65)	4.69 (119)	≈ 3.44 (5.12)	–
4040HD-07-	8840HD-07-	<input type="checkbox"/> -0*	2.95 (75)	5.08 (129)	≈ 3.49 (5.19)	≈ 3.79 (5.64)
4040HD-08-		<input type="checkbox"/> -0	3.43 (87)	5.55 (141)	≈ 3.54 (5.27)	–
4040HD-10-	8840HD-10-	<input type="checkbox"/> -0	3.94 (100)	6.06 (154)	≈ 3.60 (5.36)	≈ 3.98 (5.93)
4040HD-11-		<input type="checkbox"/> -0	4.41 (112)	6.54 (166)	≈ 3.68 (5.48)	–
4040HD-12-	8840HD-12-	<input type="checkbox"/> -0	4.92 (125)	7.05 (179)	≈ 3.74 (5.56)	≈ 4.23 (6.29)
4040HD-13-		<input type="checkbox"/> -0	5.39 (137)	7.52 (191)	≈ 3.82 (5.69)	–
4040HD-15-	8840HD-15-	<input type="checkbox"/> -0	5.91 (150)	8.03 (204)	≈ 3.85 (5.73)	≈ 4.48 (6.67)
4040HD-16-		<input type="checkbox"/> -0	6.38 (162)	8.50 (216)	≈ 3.92 (5.84)	–
4040HD-17-	8840HD-17-	<input type="checkbox"/> -0	6.89 (175)	9.02 (229)	≈ 4.01 (5.97)	≈ 4.69 (6.98)
4040HD-18-		<input type="checkbox"/> -0	7.36 (187)	9.49 (241)	≈ 4.09 (6.09)	–
4040HD-20-	8840HD-20-	<input type="checkbox"/> -0	7.87 (200)	10.00 (254)	≈ 4.13 (6.14)	≈ 4.90 (7.29)
4040HD-21-		<input type="checkbox"/> -0	8.35 (212)	10.47 (266)	≈ 4.17 (6.21)	–
4040HD-22-		<input type="checkbox"/> -0	8.86 (225)	10.98 (279)	≈ 4.22 (6.28)	–
4040HD-23-		<input type="checkbox"/> -0	9.33 (237)	11.46 (291)	≈ 4.29 (6.39)	–
4040HD-25-	8840HD-25-	<input type="checkbox"/> -0	9.84 (250)	11.97 (304)	≈ 4.37 (6.50)	≈ 5.39 (8.02)
4040HD-26-		<input type="checkbox"/> -0	10.31 (262)	12.44 (316)	≈ 4.43 (6.59)	–
4040HD-27-	8840HD-27	<input type="checkbox"/> -0	10.83 (275)	12.95 (329)	≈ 4.50 (6.70)	≈ 5.63 (8.38)
4040HD-28-		<input type="checkbox"/> -0	11.30 (287)	13.43 (341)	≈ 4.54 (6.75)	–
4040HD-30-	8840HD-30-	<input type="checkbox"/> -0	11.81 (300)	13.94 (354)	≈ 4.64 (6.91)	≈ 5.83 (8.68)
4040HD-31-		<input type="checkbox"/> -0	12.28 (312)	14.41 (366)	≈ 4.66 (6.94)	–
4040HD-32-		<input type="checkbox"/> -0	12.79 (325)	14.92 (379)	≈ 4.74 (7.05)	–
4040HD-33-		<input type="checkbox"/> -0	13.27 (337)	15.39 (391)	≈ 4.82 (7.17)	–
4040HD-35-	8840HD-35-	<input type="checkbox"/> -0	13.78 (350)	15.91 (404)	≈ 4.95 (7.37)	≈ 6.30 (9.38)
4040HD-36-		<input type="checkbox"/> -0	14.25 (362)	16.38 (416)	≈ 4.89 (7.28)	–
4040HD-37-		<input type="checkbox"/> -0	14.76 (375)	16.89 (429)	≈ 4.96 (7.38)	–
4040HD-38-		<input type="checkbox"/> -0	15.24 (387)	17.36 (441)	≈ 5.03 (7.49)	–
4040HD-40-	8840HD-40-	<input type="checkbox"/> -0	15.75 (400)	17.87 (454)	≈ 5.21 (7.76)	≈ 6.98 (10.38)
4040HD-41-		<input type="checkbox"/> -0	16.22 (412)	18.35 (466)	≈ 5.16 (7.68)	–
4040HD-42-		<input type="checkbox"/> -0	16.73 (425)	18.86 (479)	≈ 5.36 (7.98)	–
4040HD-43-		<input type="checkbox"/> -0	17.20 (437)	19.33 (491)	≈ 5.25 (7.82)	–
4040HD-45-		<input type="checkbox"/> -0	17.72 (450)	19.84 (504)	≈ 5.48 (8.15)	–
4040HD-46-	8840HD-46-	<input type="checkbox"/> -0	18.19 (462)	20.31 (516)	≈ 5.44 (8.10)	≈ 7.29 (10.85)
4040HD-47-		<input type="checkbox"/> -0	18.70 (475)	20.83 (529)	≈ 5.47 (8.14)	–
4040HD-48-		<input type="checkbox"/> -0	19.17 (487)	21.30 (541)	≈ 5.64 (8.39)	–
4040HD-50-		<input type="checkbox"/> -0	19.69 (500)	21.81 (554)	≈ 5.64 (8.40)	–
4040HD-51-		<input type="checkbox"/> -0	20.16 (512)	22.28 (566)	≈ 5.70 (8.48)	–
4040HD-52-		<input type="checkbox"/> -0	20.67 (525)	22.80 (579)	≈ 5.76 (8.57)	–
4040HD-53-		<input type="checkbox"/> -0	21.14 (537)	23.27 (591)	≈ 5.82 (8.66)	–
4040HD-55-		<input type="checkbox"/> -0	21.65 (550)	23.78 (604)	≈ 6.10 (9.08)	–
4040HD-60-		<input type="checkbox"/> -0	23.62 (600)	25.75 (654)	≈ 6.26 (9.31)	–

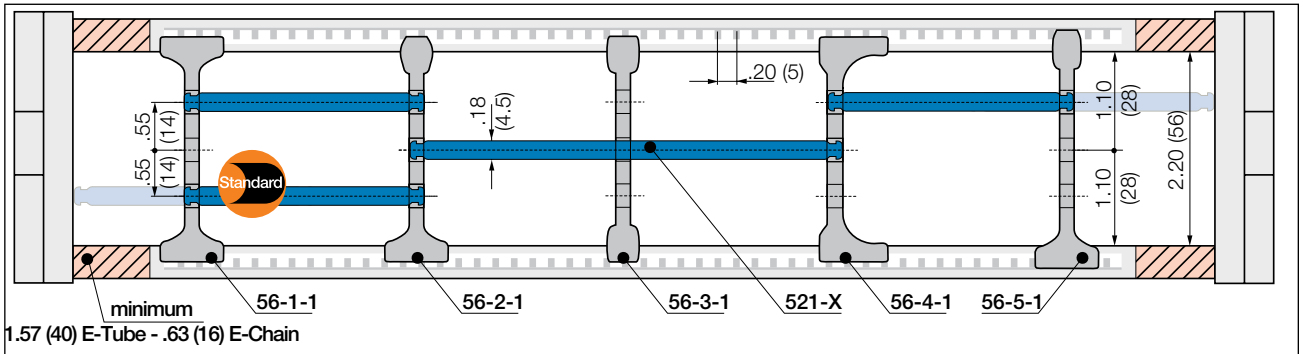
Choose from the radii below for all of the above sizes
Radius (mm) Example: 4040HD-30-300-0

	135**	150	200	250	300	350	400
R	5.31 (135)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)
H* _{max}	13.94 (354)	15.12 (384)	19.06 (484)	22.99 (584)	26.93 (684)	30.87 (784)	34.80 (884)
D	12.36 (314)	12.95 (329)	14.92 (379)	16.88 (429)	18.86 (479)	20.83 (529)	22.79 (579)
K	24.02 (610)	25.79 (655)	32.09 (815)	38.19 (970)	44.29 (1125)	50.59 (1285)	56.69 (1440)

** This radius is not available for the R8840HD Series *Removable lid only, no hinged option

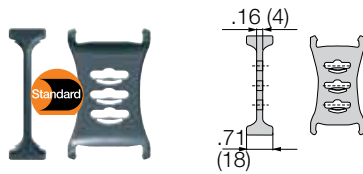
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





1.57 (40) E-Tube - .63 (16) E-Chain

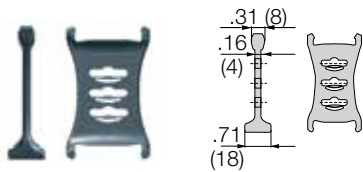
Note Please maintain a lateral spacing of 1.57" (40 mm) for E-Tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link



Separator, wide base

Unassembled	Part No. 56-1
Assembled	Part No. 56-1-1

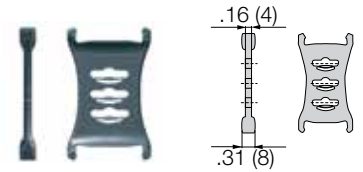
- **Standard separator 56-1 for all applications**
Separator with wide base for maximum locking strength and safe standing in e-chains®.



Separator, narrow head

Unassembled	Part No. 56-2
Assembled	Part No. 56-2-1

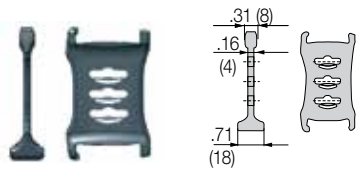
- **Separator 56-2 For even faster installation**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator, narrow base

Unassembled	Part No. 56-3
Assembled	Part No. 56-3-1

- **Separator 56-3 For many thin cables**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

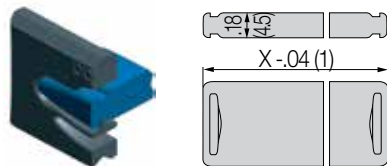


Separator, asymmetrical

Unassembled	Part No. 56-5
Assembled	Part No. 56-5-1

- **Separator 56-5 Locks safely in .30" (7.5 mm) increments**
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled	Part No. 520-X
Assembled	Part No. 521-X

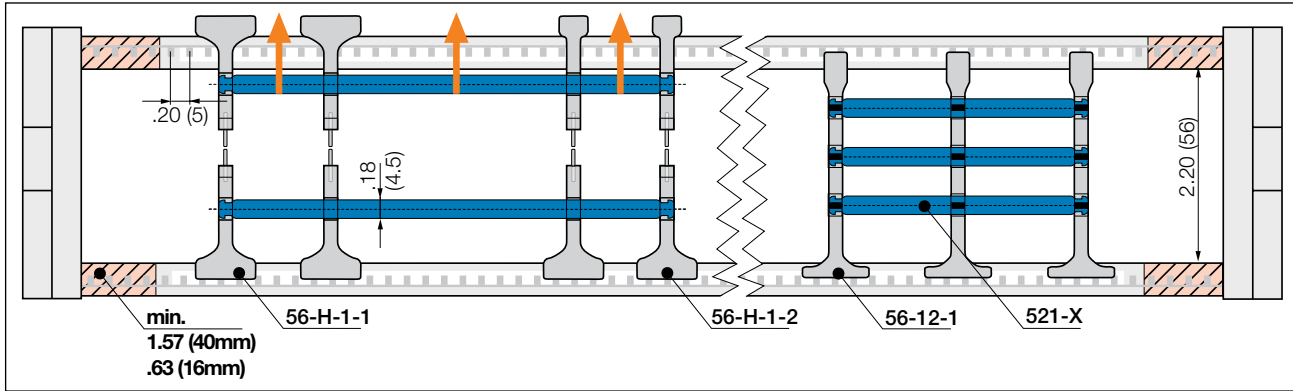
- **Full width shelf, lockable**
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.


Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	520-050	521-050	5.91 (150)	520-150	521-150	11.81 (300)	520-300	521-300
2.56 (065)	520-065	521-065	6.89 (175)	520-175	521-175	13.78 (350)	520-350	521-350
2.95 (075)	520-075	521-075	7.87 (200)	520-200	521-200	14.76 (375)	520-375	521-375
3.94 (100)	520-100	521-100	8.86 (225)	520-225	521-225	15.24 (387)	520-387	521-387
4.92 (125)	520-125	521-125	9.84 (250)	520-250	521-250	17.723 (450)	520-450	521-450

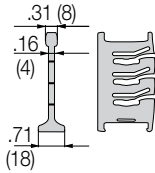
e-chain system® E4/4
 Series 4040HD/R8840HD
 Interior Separation - New Generation



4040HD
 R8840HD



 Note Please maintain a lateral spacing of 1.57" (40 mm) for e-tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link



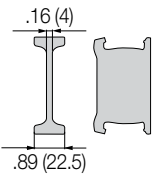
Lean separator

Unassembled	Part No. 56-12
Assembled	Part No. 56-12-1

- **Lean separators 56-12**
 New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.



- **Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time**
 (*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® harnessing factory)



Notch locking separator

Unassembled	Part No. 56-6
Assembled	Part No. 56-6-1

- **Notch locking separator for increased holding force**
 Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains

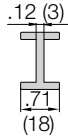
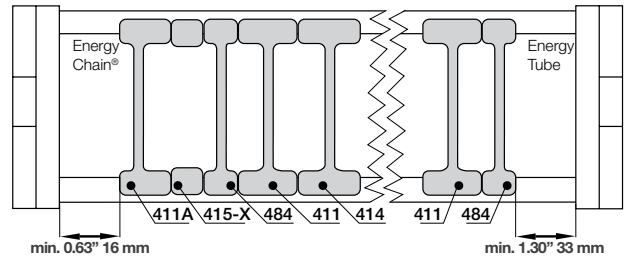




Vertical separators and spacers

Vertical separators are used if a vertical subdivision of the e-chain® interior is required. In standard configuration, a separator is installed every second chain link.

NOTE: Observe a lateral spacing of at least 1.26 in. (32mm) for E-Tubes and .63 in. (16mm) for e-chain®. There is no minimum spacing needed for side plates



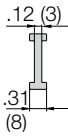
Vertical separator

Unassembled **Part No. 401**

Assembled **Part No. 411**

- **Standard separator 401 for e-chains® and E-Tubes**

This separator offers safe stability due to its wide base design.



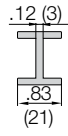
Vertical separator

Unassembled **Part No. 483**

Assembled **Part No. 484**

- **Vertical separator 483 for e-chains® and E-Tubes**

This separator offers a narrow base for applications where a large number of small cables need to be individually separated.



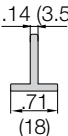
Locking separator (chain only)

Unassembled **Part No. 404**

Assembled **Part No. 414**

- **Locking separator 404 for e-chains®**

This separator features increased retention force for applications exposed to very high humidity and extreme loads. The extra retention force is achieved by asymmetric claws for the crossbar. Take care to ensure proper alignment.



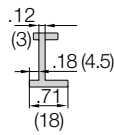
Locking separator (tube only)

Unassembled **Part No. 406**

Assembled **Part No. 416**

- **Locking separator 406 for E-Tubes**

It features a single sided, secure fit, and can be placed on the lid or the bottom of the E-Tube. The single side locking design helps to eliminate difficulties in assembling the opposite cover or crossbar



Asymmetrical separator (chain only)

Unassembled **Part No. 401A**

Assembled **Part No. 411A**

- **Asymmetrical separator 401A for e-chains®**

This separator features an .71" (18mm) base. It can be used in combinations between spacers of different widths and vertical separators in side mounted applications.



Spacer (chain only)

Unassembled **Part No. 405-XX**

Assembled **Part No. 415-XX**

XX = width of the spacer

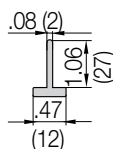
- **NOTE ON SPACERS**

Vertical separators are adjustable, but can be fixed in position by means of a spacer. Spacers are most often necessary for side mounted applications. The available inner height is reduced by .08" (2mm) **per spacer** (for example if one spacer is placed on either side of the separator, the overall inner height is reduced by .16" (4mm). To avoid this, place the spacers on the **outside** of the opening crossbar (**not for long travels**).

Spacers available in the following sizes:

Part No. Unassembled	Part No. Assembled	in. (mm)	Part No. Unassembled	Part No. Assembled	in. (mm)	Part No. Unassembled	Part No. Assembled	in. (mm)
405 -10	415 -10	.39 (10)	405 -20	415 -20	.79 (20)	405 -40	415 -40	1.57 (40)
405 -15	415 -15	.59 (15)	405 -30	415 -30	1.18 (30)			

Center crossbar - for applications involving a very large number of thin cables This offers the option of subdividing the e-chain® into upper and lower halves

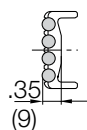


Center crossbar

Unassembled **Part No. 405**

Assembled **Part No. 415**

Rollclip - minimizes abrasion of particularly sensitive hoses or cables. The integrated rollers compensate for relative movement between the chain and the hose or cable.

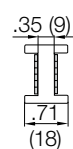


Rollclip

Unassembled **Part No. 489-27**

Assembled **Part No. 490-27**

Roller separator - performs a similar function to the Rollclip, but doubles as a separator.



Center crossbar

Unassembled **Part No. 429**

Assembled **Part No. 430**

e-chain system® E4/4

Series 4040HD/R8840HD

Interior Separation - Previous Generation



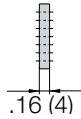
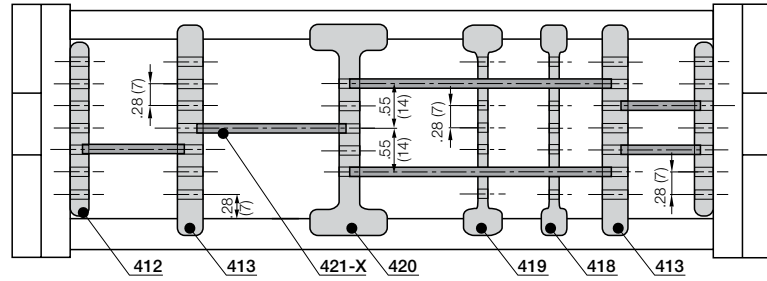
4040HD
R8840HD



Shelves and separators

e-chains® and E-Tubes can be subdivided both vertically and horizontally using the various interior separation elements.

► Design, Chapter 1 for layout recommendations.

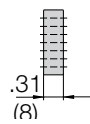


Side plate

Unassembled	Part No. 402
Assembled	Part No. 412

- **Side plates 402**

This component is used to form the basic pattern of a shelf system.

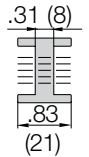


Vertical separator

Unassembled	Part No. 403
Assembled	Part No. 413

- **Vertical separator 403**

This component is used to form the basic pattern of a shelf system.

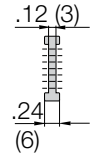
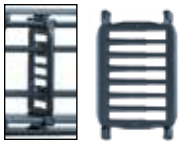


Locking vertical separator

Unassembled	Part No. 410
Assembled	Part No. 420

- **Locking vertical separator 410**

This separator is slotted and able to be combined with shelves. For e-chains® only

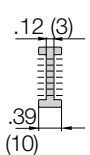


Slotted separators, closed

Unassembled	Part No. 408
Assembled	Part No. 418

- **Slotted separators 408**

These are used for very complex subdivisions. However, they cannot be retrofitted into an existing separation system without removing the shelves first.



Slotted separators, open

Unassembled	Part No. 409
Assembled	Part No. 419

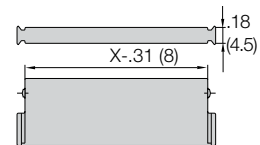
- **Slotted separator 409**

This separator can be retrofitted into an existing interior separation system without removing the shelves, as long as these shelves fit into any of the 3 middle slots

Shelves 420-XX

These components form the basic pattern of a shelf system. Shelves of various widths can be arranged at 7 different heights in .28" (7mm) increments

Width X in. (mm)	Usable Width in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Usable Width in. (mm)	Part No. Unassembled	Part No. Assembled
.71 (18)	.39 (10)	420-18	421-18	2.95 (75)	2.64 (67)	420-75	421-75
.91 (23)	.59 (15)	420-23	421-23	3.46 (88)	3.15 (80)	420-88	421-88
.98 (25)	.67 (17)	420-25	421-25	3.94 (100)	3.62 (92)	420-100	421-100
1.10 (28)	.79 (20)	420-28	421-28	4.92 (125)	4.61(117)	420-125	421-125
1.30 (33)	.98 (25)	420-33	421-33	5.91 (150)	5.59(142)	420-150	421-150
1.69 (43)	1.38 (35)	420-43	421-43	6.89 (175)	6.57(167)	420-175	421-175
1.97 (50)	1.65 (42)	420-50	421-50	7.36 (187)	7.05(179)	420-187	421-187
2.44 (62)	2.13 (54)	420-62	421-62	7.87 (200)	7.56(192)	420-200	421-200



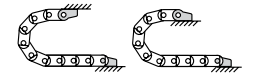
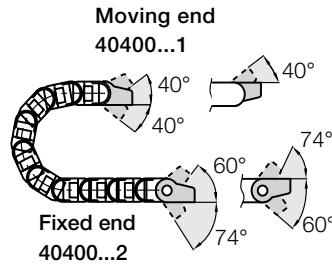
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Option 1: pivoting

- For pivoting connections
- One part for all chain widths
- Electrically conductive



Possible installation configurations -

Part No. Mounting Brackets Full Set

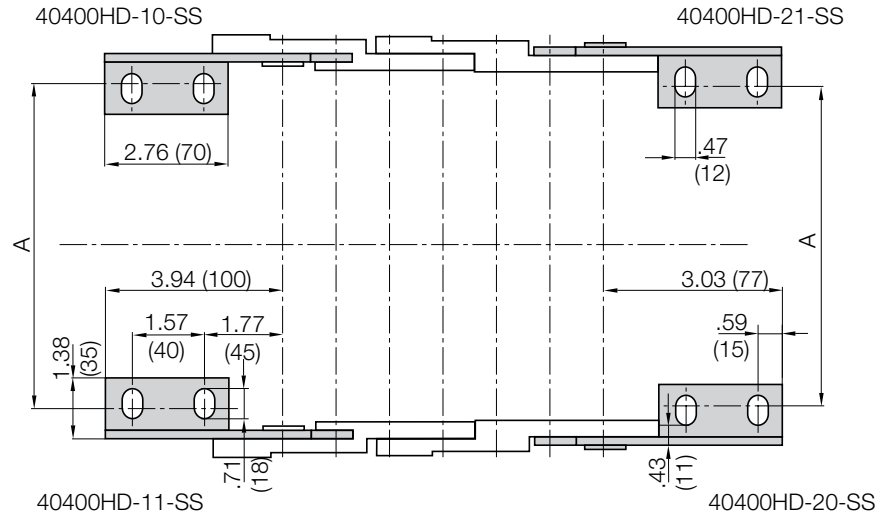
4 parts, 2 with pin, 2 with bore
Series 4040HD or R8840HD
40400HD-12-SS

Part No. Mounting Bracket Moving End

2 parts, 1 left & 1 right with bore
Series 4040HD or R8840HD
40400HD-1-SS

Part No. Mounting Bracket Fixed End

2 parts, 1 left & 1 right with pin
Series 4040HD or R8840HD
40400HD-2-SS



Bracket Mounting dimensions

Width of Chain <i>Bi</i>	Part Number	Mounting Brackets			A in. (mm)	Width of Chain <i>Bi</i>	Part Number	Mounting Brackets			A in. (mm)
		Full Set	Moving End Only	Fixed End Only				Full Set	Moving End Only	Fixed End Only	
1.97 (50)	40400HD	-12	-1	-2	1.18 (30)	12.28 (312)	40400HD	-12	-1	-2	11.49 (292)
2.56 (65)	40400HD	-12	-1	-2	1.77 (45)	12.79 (325)	40400HD	-12	-1	-2	12.00 (305)
2.95 (75)	40400HD	-12	-1	-2	2.16 (55)	13.27 (337)	40400HD	-12	-1	-2	12.48 (317)
3.43 (87)	40400HD	-12	-1	-2	2.64 (67)	13.78 (350)	40400HD	-12	-1	-2	12.99 (330)
3.94 (100)	40400HD	-12	-1	-2	3.15 (80)	14.25 (362)	40400HD	-12	-1	-2	13.46 (342)
4.41 (112)	40400HD	-12	-1	-2	3.62 (92)	14.76 (375)	40400HD	-12	-1	-2	13.97 (355)
4.92 (125)	40400HD	-12	-1	-2	4.13 (105)	15.24 (387)	40400HD	-12	-1	-2	14.45 (367)
5.39 (137)	40400HD	-12	-1	-2	4.61 (117)	15.75 (400)	40400HD	-12	-1	-2	14.96 (380)
5.91 (150)	40400HD	-12	-1	-2	5.12 (130)	16.22 (412)	40400HD	-12	-1	-2	15.43 (392)
6.38 (162)	40400HD	-12	-1	-2	5.59 (142)	16.73 (425)	40400HD	-12	-1	-2	15.94 (405)
6.89 (175)	40400HD	-12	-1	-2	6.10 (155)	17.20 (437)	40400HD	-12	-1	-2	16.42 (417)
7.36 (187)	40400HD	-12	-1	-2	6.57 (167)	17.72 (450)	40400HD	-12	-1	-2	16.93 (430)
7.87 (200)	40400HD	-12	-1	-2	7.09 (180)	18.19 (462)	40400HD	-12	-1	-2	17.40 (442)
8.35 (212)	40400HD	-12	-1	-2	7.56 (192)	18.70 (475)	40400HD	-12	-1	-2	17.91 (455)
8.86 (225)	40400HD	-12	-1	-2	8.07 (205)	19.17 (487)	40400HD	-12	-1	-2	18.39 (467)
9.33 (237)	40400HD	-12	-1	-2	8.54 (217)	19.69 (500)	40400HD	-12	-1	-2	18.90 (480)
9.84 (250)	40400HD	-12	-1	-2	9.05 (230)	20.16 (512)	40400HD	-12	-1	-2	19.37 (492)
10.31 (262)	40400HD	-12	-1	-2	9.53 (242)	20.67 (525)	40400HD	-12	-1	-2	19.88 (505)
10.83 (275)	40400HD	-12	-1	-2	10.04 (255)	21.14 (537)	40400HD	-12	-1	-2	20.35 (517)
11.30 (287)	40400HD	-12	-1	-2	10.51 (267)	21.65 (550)	40400HD	-12	-1	-2	20.87 (530)
11.81 (300)	40400HD	-12	-1	-2	11.02 (280)	23.62 (600)	40400HD	-12	-1	-2	22.83 (580)

e-chain system® E4/4

Series 4040HD/R8840HD

Strain Relief



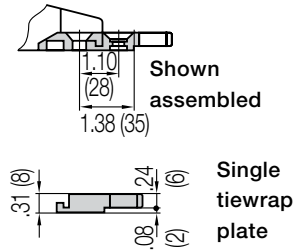
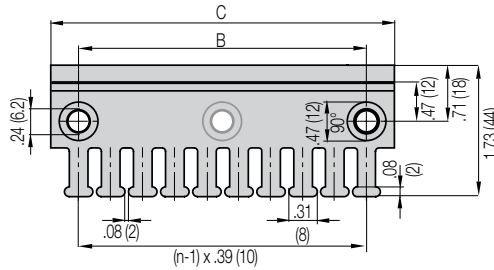
4040HD
R8840HD

Tiewrap plates as an individual part

Available as an individual component, can be fixed onto a mounting bracket with the use of a profile rail.



For more information please refer to strain relief section of Chapter 10



Tiewrap Plate	n Number of Teeth	C Overall Width in. (mm)	B Bore Width in. (mm)	Center Bore
3050-ZB	5	1.97 (50)	1.18 (30)	no
3075-ZB	7	2.95 (75)	2.16 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3115-ZB	11	4.53 (115)	3.74 (95)	no
3125-ZB	12	4.92 (125)	4.13 (105)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no
3175-ZB	17	6.89 (175)	6.10 (155)	no
3200-ZB	20	7.87 (200)	7.09 (180)	yes
3225-ZB	22	8.86 (225)	8.07 (205)	yes
3250-ZB	25	9.84 (250)	9.06 (230)	yes

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Width of Crossbar
4040HD-05-200-0

	B_{Ri}	Installation Part No.
-05	4.29 (109)	*
-06	4.88 (124)	94-50-225
-07	5.28 (134)	94-50-225
-08	5.75 (146)	94-50-250
-10	6.26 (159)	94-50-250
-11	6.73 (171)	94-50-275
-12	7.24 (184)	94-50-275
-13	7.72 (196)	94-50-300
-15	8.23 (209)	94-50-300
-16	8.70 (221)	94-50-325
-17	9.21 (234)	94-50-325
-18	9.69 (246)	94-50-350
-20	10.20 (259)	94-50-350
-21	10.67 (271)	94-50-375
-22	11.18 (284)	94-50-375
-23	11.65 (296)	94-50-400
-25	12.17 (309)	94-50-400
-26	12.64 (321)	94-50-425
-27	13.15 (334)	94-50-425
-28	13.62 (346)	94-50-450
-30	14.13 (359)	94-50-450
-31	14.61 (371)	94-50-475
-32	15.12 (384)	94-50-475
-33	15.59 (396)	94-50-500
-35	16.10 (409)	94-50-500
-36	16.57 (421)	94-50-525
-37	17.09 (434)	94-50-525
-38	17.56 (446)	94-50-550
-40	18.07 (459)	94-50-550
-41	18.54 (471)	94-50-575
-42	19.06 (484)	94-50-575
-43	19.53 (496)	94-50-600
-45	20.04 (509)	94-50-600
-46	20.51 (521)	94-50-625
-47	21.02 (534)	94-50-625
-48	21.50 (546)	94-50-650
-50	22.01 (559)	94-50-650
-51	22.48 (571)	94-50-675
-52	22.99 (584)	94-50-675
-53	23.46 (596)	94-50-700
-55	23.98 (609)	94-50-700
-60	25.94 (659)	94-50-750

Guide troughs are used with applications where the upper run of the e-chain® glides on the lower run. If using igus® steel guide troughs, the following components are required.

- Full travel length of guide trough
Part No. 94-30
- 1/2 travel length glide bars
Part No. 93-01
- Installation sets as end connectors
Part No. 94-50-XX

.XX indicates the length of the profile rails on which the guide trough is mounted. The values and part numbers are specified in the table on the left. The standard length of the trough components and glide bars is 6.56 ft (2 m). The required overall length of the guide trough directly correlates to the length of travel.

Example:

Length of travel 164 ft (50 m)
Center mounted

Required guide troughs:

164 ft (50 m) guide trough
82 ft (25 m) glide bars
= 25 sections of 6.56 ft (2 m) guide trough
Part No. 94-30
= 13 sections of 6.56 ft (2 m) glide bars
Part No. 93-01

Required number of installation sets:

= Number of guide trough components + 1
= 25 + 1 = 26

Part number of the installation sets

94-50-XXX

Example:

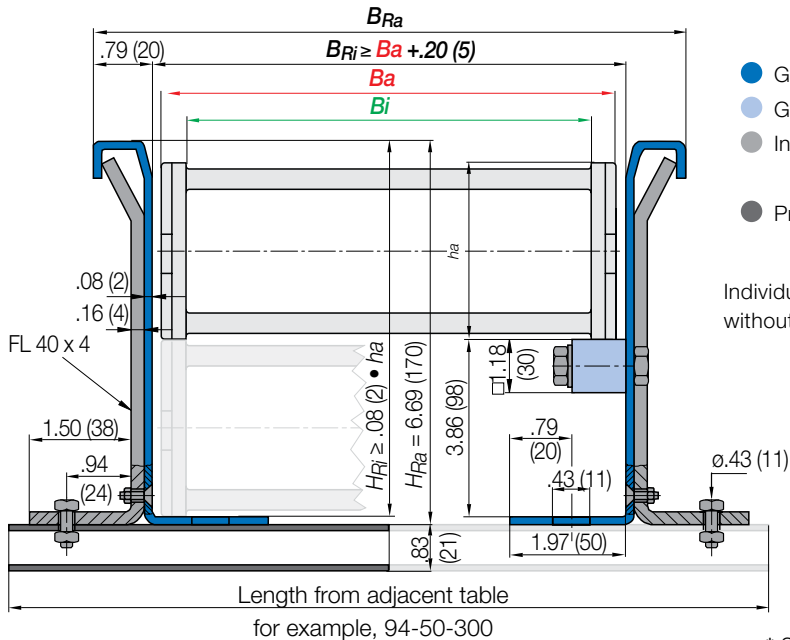
94-50-400 for 15.75 (400 mm) long profile rail



Left: Guide trough with glide bars
Right: Guide troughs without glide bars



Installation sets as section connectors



- Guide trough
- Glide bars
- Installation set "Basic"
- Profile rail

Individual attachment without profile rail

* Specialized guide trough available upon request

Standard length profile rail

For further technical information on guide troughs
► Chapter 9

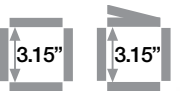
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



5050HD
R9850HD



e-chain system® E4/4 Series 5050HD/R9850HD

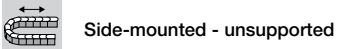


Price Index



Series 5050HD Series R9850HD

Special Features / Options



Side-mounted - unsupported



ESD classification:
Electrically conductive ESD/
ATEX version upon request



High torsional rigidity

Assembly Tips



Opening e-chains®: Remove crossbars and clips - Insert screwdriver into the slot, push down, release by lever action



Remove lids/bottoms (E-Tubes) - Insert screwdriver into the slot, release by lever action

Other Installation Methods

Vertical, hanging ≤ 394 ft (120 m)

Vertical, standing ≤ 19.69 ft (6 m)

Side-mounted, un supp. ≤ 9.84 ft (3 m)

Rotary requires further calculation

Usage Guidelines



- When high torsional forces are expected
- For side-mounted applications
- For long-term operation in very moist environments



- When short travels or medium additional loads are involved
 - Series E4-80
- If a simpler low-cost solution is required
 - Series 15050/15150/R19850

Features & Benefits

- 1 Robust steel-mounting brackets
- 2 Wide, rounded plastic crossbars - cable friendly
- 3 Very wide glide surface, less wear
- 4 High tensile stability (20% higher tensile force than Series 5050)
- 5 Hinged snap-open removable lids along outer radius of E-Tube
- 6 High torsional rigidity
- 7 Closed and open styles can be combine
- 8 Numerous interior separation possibilities
- 9 High side-mount stability due to undercut
- 10 Crossbars on e-chains® are removable along both radii

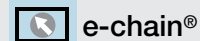


rol e-chain® Series 5050RHD/9850RHD available upon request

Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

16.4 ft (5 m) 5050HD-30-300-0



e-chain®

With 2 separators 80-1 assembled every 2nd link



Interior Separation

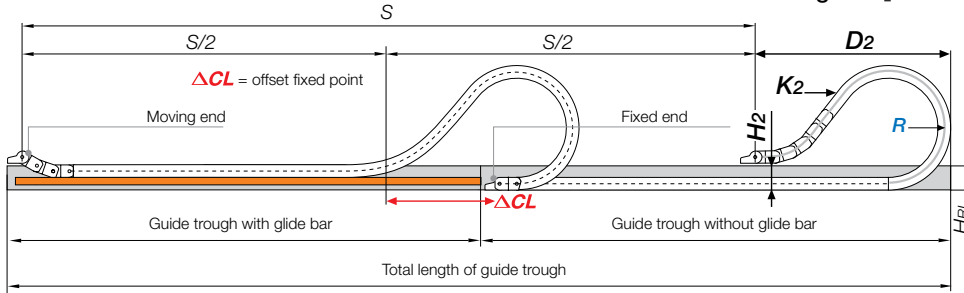
1 Set 50500HD-12-E



Mounting Bracket

For long travels with lowered mounting height
Long travel lengths from 32.8 ft.(10m) to max. 1,640 ft. (500m)

Chain length: $= \frac{S}{2} + K_2$



In case of travels between 13 ft. (4m) and 32.8 ft. (10m) we recommend a longer unsupported length.

R	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)
D	21.65 (550)	31.50 (800)	37.40 (950)	47.24 (1200)	61.02 (1550)	66.93 (1700)	85.63 (2175)
K	35.83 (910)	50.16 (1274)	64.49 (1638)	78.82 (2002)	97.44 (2475)	107.48 (2730)	136.14 (3458)
ΔACL	8.23 (209)	16.10 (409)	20.04 (509)	27.91 (709)	39.72 (1009)	43.66 (1109)	58.43 (1484)

Legend

- S = Length of travel
- H = Required clearance height
- HRI = Trough inner height
- H₂ = *Mounting height
- D₂ = Over length - long travels, gliding
- K₂ = *Further add-on

*If the mounting bracket location is set lower

Long Travels - Gliding



If the unsupported length is exceeded, the e-chain®/ Tube must glide on itself. This requires a guide trough.

Design, Chapter 1



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Technical Data

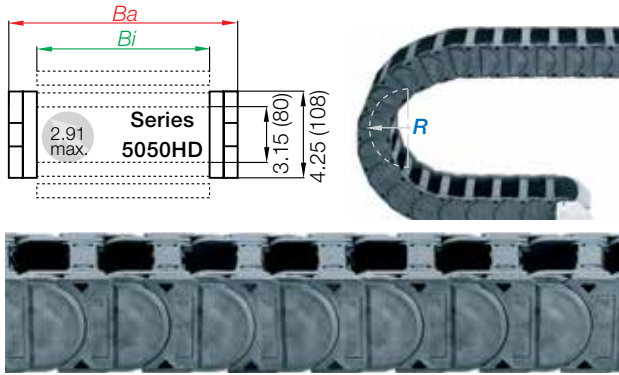
Speed / acceleration FL _G	max. 6.56 ft/s (20 m/s) / max. 656 ft/s ² (200 m/s ²)
Speed / acceleration FL _B	max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s ² (6 m/s ²)
Gliding speed / acceleration (maximum)	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB



Details of material properties

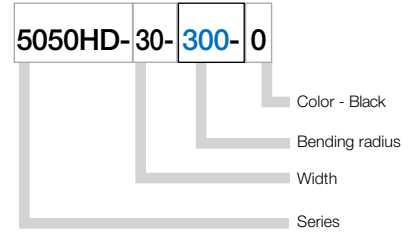
► Chapter 1

Series 5050HD - e-chain® with crossbars every link

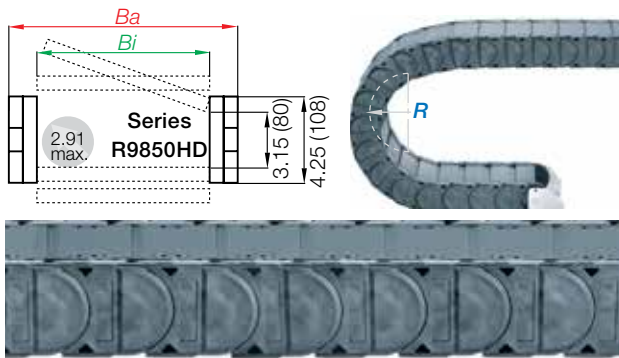


- Crossbars every link
- For use with rigid hydraulic hoses
- For particularly demanding applications
- Can be opened from both sides

Part Number Structure

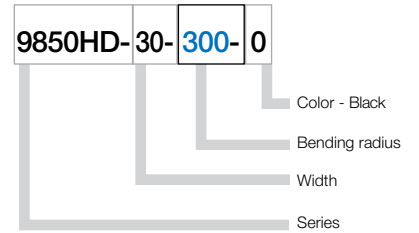


Series R9850HD - fully enclosed E-Tube

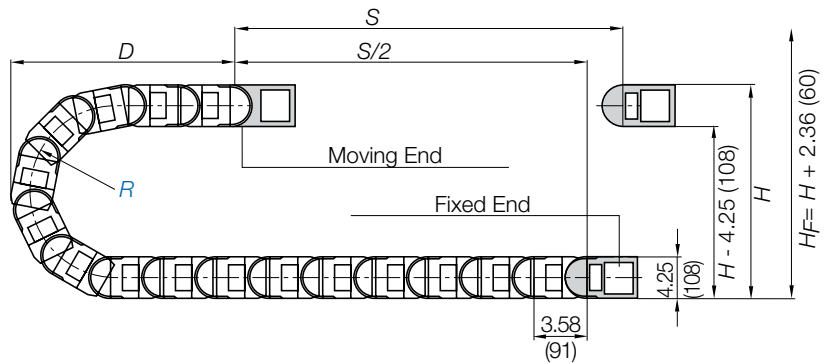
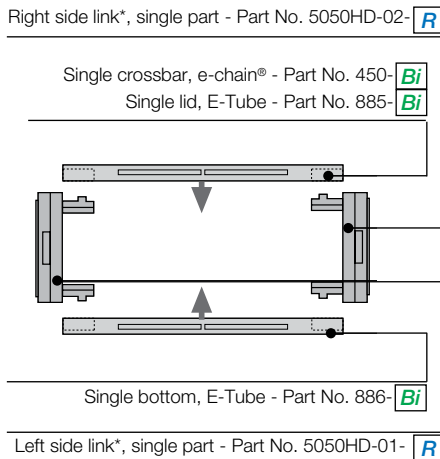


- Fully enclosed
- Excellent cable and hose protection against dirt
- Protection against hot chips up to 1562°F (850°C)
- Lids along inner radius are completely removable
- Lids along the outer radius are single-sided, snap open, hinged on one side as well as completely removable

Part Number Structure



e-chain® as separate parts, links and side plates



*View from the fixed point of the e-chain®/E-Tube

e-chain system® E4/4

Series 5050HD/R9850HD



5050HD
R9850HD

Supplement part number with required radius. Example: 5050HD-30--0

Pitch: 3.58 in. (91mm) per link links/ft(m) = 3.35 (11)

Part Number.			<i>Bi</i>	<i>Ba</i>	5050HD	R9850HD
Crossbars	Tube		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
Every link	Version					
5050HD-05-		<input type="text" value=""/> -0	1.97 (50)	4.33 (110)	≈ 4.47 (6.65)	–
5050HD-06-		<input type="text" value=""/> -0	2.56 (65)	4.92 (125)	≈ 4.53 (6.74)	–
5050HD-07-	9850HD-07-	<input type="text" value=""/> -0*	2.95 (75)	5.31 (135)	≈ 4.58 (6.81)	≈ 4.87 (7.25)
5050HD-08-		<input type="text" value=""/> -0	3.43 (87)	5.79 (147)	≈ 4.63 (6.89)	–
5050HD-10-	9850HD-10-	<input type="text" value=""/> -0	3.94 (100)	6.30 (160)	≈ 4.70 (6.99)	≈ 5.07 (7.55)
5050HD-11-		<input type="text" value=""/> -0	4.41 (112)	6.77 (172)	≈ 4.77 (7.10)	–
5050HD-12-	9850HD-12-	<input type="text" value=""/> -0	4.92 (125)	7.28 (185)	≈ 4.82 (7.18)	≈ 5.32 (7.91)
5050HD-13-		<input type="text" value=""/> -0	5.39 (137)	7.76 (197)	≈ 4.92 (7.32)	–
5050HD-15-	9850HD-15-	<input type="text" value=""/> -0	5.91 (150)	8.27 (210)	≈ 4.94 (7.35)	≈ 5.57 (8.29)
5050HD-16-		<input type="text" value=""/> -0	6.38 (162)	8.74 (222)	≈ 5.02 (7.47)	–
5050HD-17-	9850HD-17	<input type="text" value=""/> -0	6.89 (175)	9.25 (235)	≈ 5.11 (7.60)	≈ 5.78 (8.60)
5050HD-18-		<input type="text" value=""/> -0	7.36 (187)	9.72 (247)	≈ 5.18 (7.71)	–
5050HD-20-	9850HD-20-	<input type="text" value=""/> -0	7.87 (200)	10.24 (260)	≈ 5.22 (7.77)	≈ 5.99 (8.91)
5050HD-21-		<input type="text" value=""/> -0	8.35 (212)	10.71 (272)	≈ 5.27 (7.84)	–
5050HD-22-		<input type="text" value=""/> -0	8.86 (225)	11.22 (285)	≈ 5.32 (7.91)	–
5050HD-23-		<input type="text" value=""/> -0	9.33 (237)	11.69 (297)	≈ 5.39 (8.02)	–
5050HD-25-	9850HD-25-	<input type="text" value=""/> -0	9.84 (250)	12.20 (310)	≈ 5.46 (8.13)	≈ 6.48 (9.64)
5050HD-26-		<input type="text" value=""/> -0	10.31 (262)	12.68 (322)	≈ 5.52 (8.22)	–
5050HD-27-	9850HD-27	<input type="text" value=""/> -0	10.83 (275)	13.19 (335)	≈ 5.59 (8.32)	≈ 6.72 (10.00)
5050HD-28-		<input type="text" value=""/> -0	11.30 (287)	13.66 (347)	≈ 5.63 (8.38)	–
5050HD-30-	9850HD-30-	<input type="text" value=""/> -0	11.81 (300)	14.17 (360)	≈ 5.73 (8.53)	≈ 6.92 (10.30)
5050HD-31-		<input type="text" value=""/> -0	12.28 (312)	14.65 (372)	≈ 5.76 (8.57)	–
5050HD-32-		<input type="text" value=""/> -0	12.79 (325)	15.16 (385)	≈ 5.83 (8.67)	–
5050HD-33-		<input type="text" value=""/> -0	13.27 (337)	15.63 (397)	≈ 5.91 (8.79)	–
5050HD-35-	9850HD-35-	<input type="text" value=""/> -0	13.78 (350)	16.14 (410)	≈ 6.04 (8.99)	≈ 7.39 (11.00)
5050HD-36-		<input type="text" value=""/> -0	14.25 (362)	16.61 (422)	≈ 5.98 (8.90)	–
5050HD-37-		<input type="text" value=""/> -0	14.76 (375)	17.12 (435)	≈ 6.04 (9.00)	–
5050HD-38-		<input type="text" value=""/> -0	15.24 (387)	17.60 (447)	≈ 6.12 (9.11)	–
5050HD-40-	9850HD-40-	<input type="text" value=""/> -0	15.75 (400)	18.11 (460)	≈ 6.30 (9.38)	≈ 8.06 (12.00)
5050HD-41-		<input type="text" value=""/> -0	16.22 (412)	18.58 (472)	≈ 6.26 (9.31)	–
5050HD-42-		<input type="text" value=""/> -0	16.73 (425)	19.09 (485)	≈ 6.45 (9.60)	–
5050HD-43-		<input type="text" value=""/> -0	17.20 (437)	19.57 (497)	≈ 6.34 (9.44)	–
5050HD-45-		<input type="text" value=""/> -0	17.72 (450)	20.08 (510)	≈ 6.42 (9.55)	–
5050HD-46-	9850HD-46-	<input type="text" value=""/> -0	18.19 (462)	20.55 (522)	≈ 6.53 (9.72)	≈ 8.38 (12.47)
5050HD-47-		<input type="text" value=""/> -0	18.70 (475)	21.06 (535)	≈ 6.56 (9.76)	–
5050HD-48-		<input type="text" value=""/> -0	19.17 (487)	21.54 (547)	≈ 6.73 (10.01)	–
5050HD-50-		<input type="text" value=""/> -0	19.69 (500)	22.05 (560)	≈ 6.79 (10.11)	–
5050HD-51-		<input type="text" value=""/> -0	20.16 (512)	22.52 (572)	≈ 6.73 (10.02)	–
5050HD-52-		<input type="text" value=""/> -0	20.67 (525)	23.03 (585)	≈ 6.85 (10.19)	–
5050HD-53-		<input type="text" value=""/> -0	21.14 (537)	23.50 (597)	≈ 6.91 (10.29)	–
5050HD-55-		<input type="text" value=""/> -0	21.65 (550)	24.02 (610)	≈ 7.20 (10.71)	–
5050HD-60-		<input type="text" value=""/> -0	23.62 (600)	25.98 (660)	≈ 7.35 (10.94)	–

Choose from the radii below for all of the above sizes

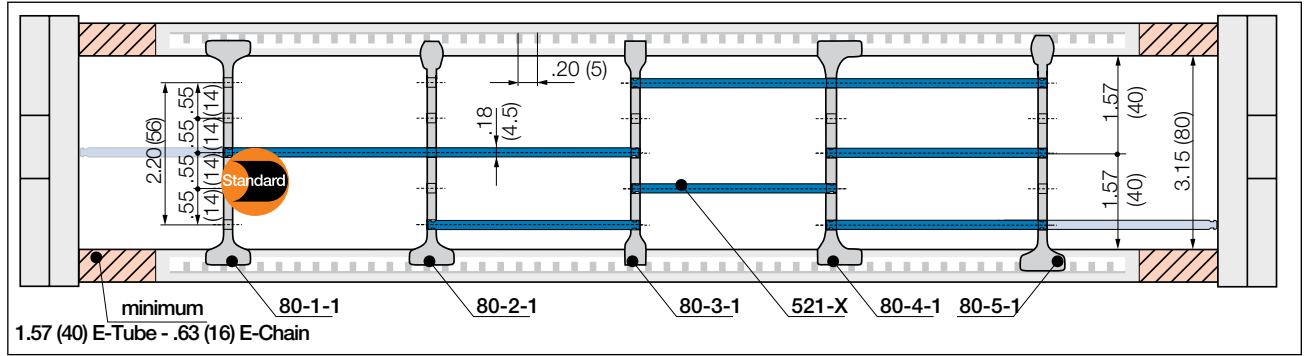
Radius (mm) Example: 5050HD-30--0

	150	200	250	300	350	400	500
R	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H** _{as}	16.06 (408)	20.00 (508)	23.94 (608)	27.87 (708)	31.81 (808)	35.75 (908)	43.62 (1108)
D	13.43 (341)	15.39 (391)	17.36 (441)	19.33 (491)	21.30 (541)	23.27 (591)	27.20 (691)
K	25.79 (655)	32.09 (815)	38.19 (970)	44.29 (1125)	50.59 (1285)	56.69 (1440)	69.09 (1755)

** This radius is not available for the R9850HD Series *Removable lid only, no hinged option

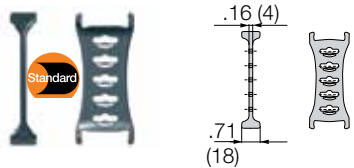
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Note Please maintain a lateral spacing of 1.57" (40 mm) for E-Tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link

Telephone 1-800-521-2747

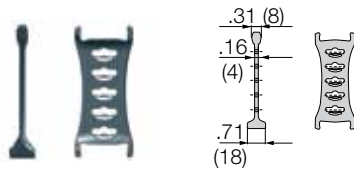


Separator, wide base

Unassembled	Part No. 80-1
Assembled	Part No. 80-1-1

- **Standard separator 80-1 for all applications**

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

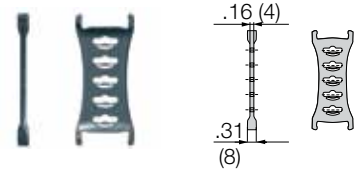


Separator, narrow head

Unassembled	Part No. 80-2
Assembled	Part No. 80-2-1

- **Separator 80-2**

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

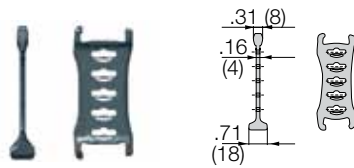


Separator, narrow base

Unassembled	Part No. 80-3
Assembled	Part No. 80-3-1

- **Separator 80-3**

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



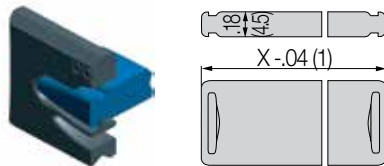
Separator, asymmetrical

Unassembled	Part No. 80-5
Assembled	Part No. 80-5-1

- **Separator 80-5**

Locks safely in .30" (7.5 mm) increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled	Part No. 520-X
Assembled	Part No. 521-X

- **Full width shelf, lockable**

Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 5 different heights.

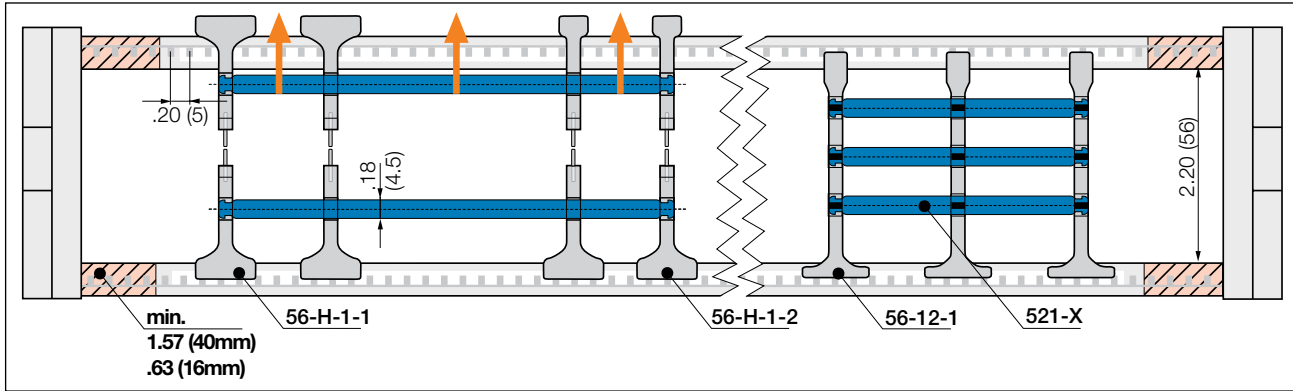
Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec


Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	520-050	521-050	5.91 (150)	520-150	521-150	11.81 (300)	520-300	521-300
2.56 (065)	520-065	521-065	6.89 (175)	520-175	521-175	17.723 (450)	520-450	521-125
2.95 (075)	520-075	521-075	7.87 (200)	520-200	521-200			
3.94 (100)	520-100	521-100	8.86 (225)	520-225	521-225			
4.92 (125)	520-125	521-125	9.84 (250)	520-250	521-250			

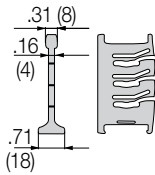
e-chain system® E4/4
 Series 5050HD/R9850HD
 Interior Separation - Previous Generation



5050HD
 R9850HD



 Note Please maintain a lateral spacing of 1.57" (40 mm) for e-tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link



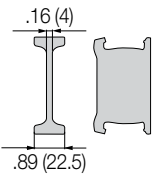
Lean separator

Unassembled	Part No. 56-12
Assembled	Part No. 56-12-1

- **Lean separators 56-12**
 New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.



- **Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time**
 (*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® harnessing factory)



Notch locking separator

Unassembled	Part No. 56-6
Assembled	Part No. 56-6-1

- **Notch locking separator for increased holding force**
 Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position.

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains

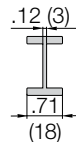
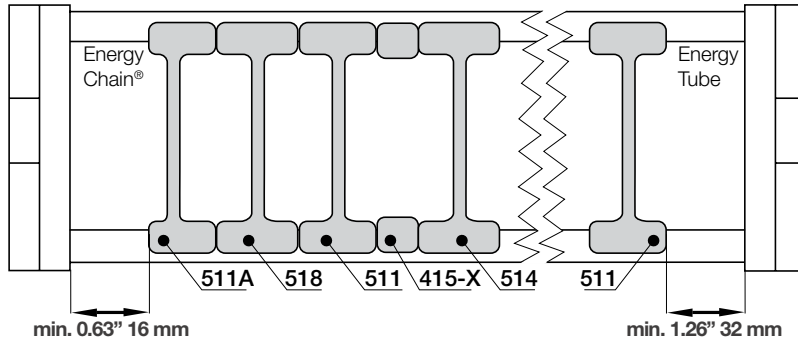




Vertical separators and spacers

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.

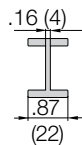
NOTE: Observe a lateral spacing of at least 1.30 in. (33mm) for E-Tubes and .63 in. (16mm) for e-chain®. There is no minimum spacing needed for side plates



Vertical separator

Unassembled	Part No. 501
Assembled	Part No. 511

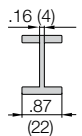
- **Standard separator 501 for e-chains® and E-Tubes**
This separator offers safe stability due to its wide base design, also when used with thick cables or hoses.



Locking separator (for e-chains®)

Unassembled	Part No. 504
Assembled	Part No. 514

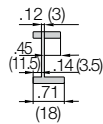
- **Locking separator 504 for e-chains®**
This separator features increased retention force for applications exposed to very high humidity and extreme loads. If locking separators are used, the e-chain® is more difficult to open.



Locking separator (for E-Tubes)

Unassembled	Part No. 508
Assembled	Part No. 518

- **Locking separator 508 for E-Tubes**
This separator is used for applications that are exposed to extremely high humidity. The clamp at the side serves to uniformly align the separators. In order to avoid destroying the separators when opening the e-chain®, make sure all separators are identically aligned.



Asymmetrical separator (for e-chains®)

Unassembled	Part No. 501A
Assembled	Part No. 511A

- **Asymmetrical separator 501A for e-chains®**
This separator is NOT for E-Tubes. It features an (18mm) base and can be used in combinations between spacers of different widths and vertical separators in side mounted applications.



Spacer (for e-chains®)

Unassembled	Part No. 405-XX
Assembled	Part No. 415-XX

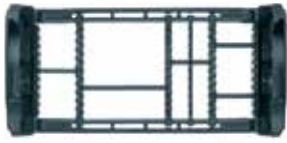
XX = width of the spacer

- **NOTE ON SPACERS**
Vertical separators are adjustable, but can be fixed in position by means of a spacer. Spacers are most often necessary for side mounted applications. The available inner height is reduced by .08" (2mm) per spacer (for example if one spacer is placed on either side of the separator, the overall inner height is reduced by .16" (4mm). To avoid this, place the spacers on the **outside** of the opening crossbar (**not for long travels**).

Spacers available in the following sizes:

Part No. Unassembled	Part No. Assembled	in.	(mm)	Part No. Unassembled	Part No. Assembled	in.	(mm)
405 -10	415 -10	.39"	(10)	405 -30	415 -30	1.18"	(30)
405 -15	415 -15	.59"	(15)	405 -40	415 -40	1.57"	(40)
405 -20	415 -20	.79"	(20)				

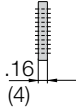
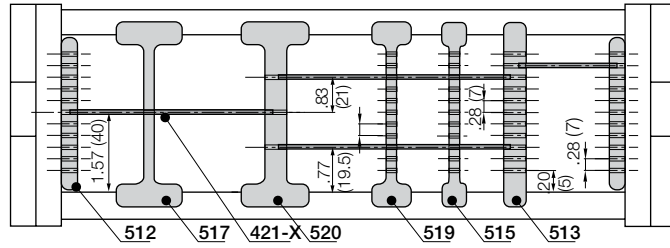




Shelves

e-chains® and E-Tubes can be subdivided both vertically and horizontally using the various interior separation elements.

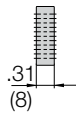
► **Design, Chapter 1** for layout recommendations.



Side plate

Unassembled	Part No. 502
Assembled	Part No. 512

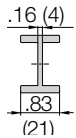
- **Side plates 502**
This component is used to form the basic pattern of a shelf system.



Vertical separator

Unassembled	Part No. 503
Assembled	Part No. 513

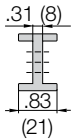
- **Vertical separator 503**
This component is used to form the basic pattern of a shelf system.



Locking vertical separator

Unassembled	Part No. 507
Assembled	Part No. 517

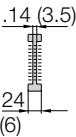
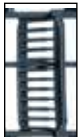
- **Locking vertical separator 507**
This separator features increased retention force for applications exposed to very high humidity and extreme loads. The extra retention force is achieved by asymmetric claws for the crossbar. Take care to ensure proper alignment.



Locking vertical separator

Unassembled	Part No. 510
Assembled	Part No. 520

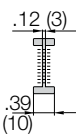
- **Locking vertical separator 510**
This separator is slotted and able to be combined with shelves. For e-chains® only



Slotted separators, closed

Unassembled	Part No. 505
Assembled	Part No. 515

- **Slotted separators 505**
These are used for very complex subdivisions. However, they cannot be retrofitted into an existing separation system without removing the shelves first.



Slotted separators, open

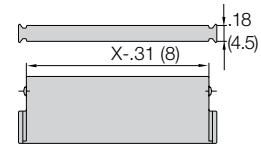
Unassembled	Part No. 509
Assembled	Part No. 519

- **Slotted separator 509**
This separator can be retrofitted into an existing interior separation system without removing the shelves, as long as these shelves fit into any of the 7 middle slots

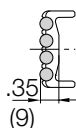
Shelves 420-XX

These components form the basic pattern of a shelf system. Shelves of various widths can be arranged at 7 different heights in .28" (7mm) increments

Usable Width X in. (mm)	Part No. Width in. (mm)	Part No. Shelf only	Assembled	Usable Width X in. (mm)	Part No. Width in. (mm)	Part No. Shelf only	Assembled
.71 (18)	.39 (10)	420-18	421-18	2.95 (75)	2.64 (67)	420-75	421-75
.91 (23)	.59 (15)	420-23	421-23	3.46 (88)	3.15 (80)	420-88	421-88
.98 (25)	.67 (17)	420-25	421-25	3.94 (100)	3.62 (92)	420-100	421-100
1.10 (28)	.79 (20)	420-28	421-28	4.92 (125)	4.61(117)	420-125	421-125
1.30 (33)	.98 (25)	420-33	421-33	5.91 (150)	5.59(142)	420-150	421-150
1.69 (43)	1.38 (35)	420-43	421-43	6.89 (175)	6.57(167)	420-175	421-175
1.97 (50)	1.65 (42)	420-50	421-50	7.36 (187)	7.05(179)	420-187	421-187
2.44 (62)	2.13 (54)	420-62	421-62	7.87 (200)	7.56(192)	420-200	421-200



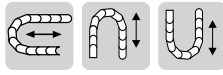
Rollclip - minimizes abrasion of particularly sensitive hoses or cables in an e-chain®. The integrated rollers compensate for relative movement between the chain and the hose or cable. This reduces the abrasion of the hoses or cables



Rollclip

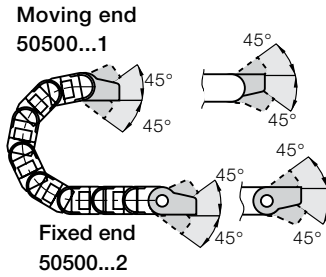
Unassembled	Part No. 489-27
Assembled	Part No. 490-27





pivoting

- For pivoting connections
- One part for all chain widths
- Electrically conductive



Possible installation configurations -

Part No. Mounting Brackets Full Set

4 parts, 2 with pin, 2 with bore
Series 5050HD or R9850HD:
50500HD-12-SS

Part No. Mounting Bracket Moving End

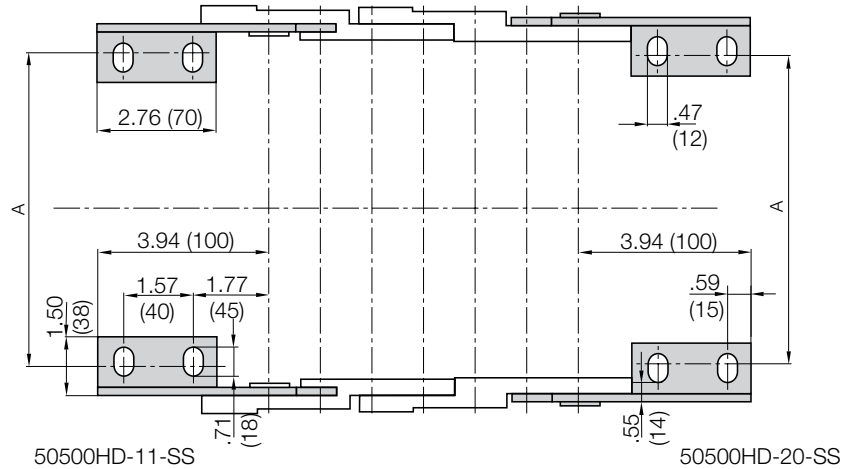
2 parts, 1 left & 1 right with bore
Series 5050HD or R9850HD:
50500HD-1-SS

Part No. Mounting Bracket Fixed End

2 parts, 1 left & 1 right with pin
Series 5050HD or R9850HD:
50500HD-2-SS

50500HD-10-SS

50500HD-21-SS



Bracket mounting dimensions

Width of Chain <i>Bi</i>	Part Number	Mounting Brackets			A in. (mm)	Width of Chain <i>Bi</i>	Part Number	Mounting Brackets			A in. (mm)
		Full Set	Moving End Only	Fixed End Only				Full Set	Moving End Only	Fixed End Only	
1.97 (50)	50500HD	-12	-1	-2	1.18 (30)	12.28 (312)	50500HD	-12	-1	-2	11.49 (292)
2.56 (65)	50500HD	-12	-1	-2	1.77 (45)	12.79 (325)	50500HD	-12	-1	-2	12.00 (305)
2.95 (75)	50500HD	-12	-1	-2	2.16 (55)	13.27 (337)	50500HD	-12	-1	-2	12.48 (317)
3.43 (87)	50500HD	-12	-1	-2	2.64 (67)	13.78 (350)	50500HD	-12	-1	-2	12.99 (330)
3.94 (100)	50500HD	-12	-1	-2	3.15 (80)	14.25 (362)	50500HD	-12	-1	-2	13.46 (342)
4.41 (112)	50500HD	-12	-1	-2	3.62 (92)	14.76 (375)	50500HD	-12	-1	-2	13.97 (355)
4.92 (125)	50500HD	-12	-1	-2	4.13 (105)	15.24 (387)	50500HD	-12	-1	-2	14.45 (367)
5.39 (137)	50500HD	-12	-1	-2	4.61 (117)	15.75 (400)	50500HD	-12	-1	-2	14.96 (380)
5.91 (150)	50500HD	-12	-1	-2	5.12 (130)	16.22 (412)	50500HD	-12	-1	-2	15.43 (392)
6.38 (162)	50500HD	-12	-1	-2	5.59 (142)	16.73 (425)	50500HD	-12	-1	-2	15.94 (405)
6.89 (175)	50500HD	-12	-1	-2	6.10 (155)	17.20 (437)	50500HD	-12	-1	-2	16.42 (417)
7.36 (187)	50500HD	-12	-1	-2	6.57 (167)	17.72 (450)	50500HD	-12	-1	-2	16.93 (430)
7.87 (200)	50500HD	-12	-1	-2	7.09 (180)	18.19 (462)	50500HD	-12	-1	-2	17.40 (442)
8.35 (212)	50500HD	-12	-1	-2	7.56 (192)	18.70 (475)	50500HD	-12	-1	-2	17.91 (455)
8.86 (225)	50500HD	-12	-1	-2	8.07 (205)	19.17 (487)	50500HD	-12	-1	-2	18.39 (467)
9.33 (237)	50500HD	-12	-1	-2	8.54 (217)	19.69 (500)	50500HD	-12	-1	-2	18.90 (480)
9.84 (250)	50500HD	-12	-1	-2	9.05 (230)	20.16 (512)	50500HD	-12	-1	-2	19.37 (492)
10.31 (262)	50500HD	-12	-1	-2	9.53 (242)	20.67 (525)	50500HD	-12	-1	-2	19.88 (505)
10.83 (275)	50500HD	-12	-1	-2	10.04 (255)	21.14 (537)	50500HD	-12	-1	-2	20.35 (517)
11.30 (287)	50500HD	-12	-1	-2	10.51 (267)	21.65 (550)	50500HD	-12	-1	-2	20.87 (530)
11.81 (300)	50500HD	-12	-1	-2	11.02 (280)	23.62 (600)	50500HD	-12	-1	-2	22.83 (580)

e-chain system® E4/4

Series 5050HD/R9850HD

Strain Relief



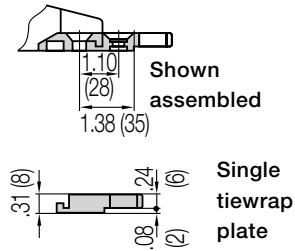
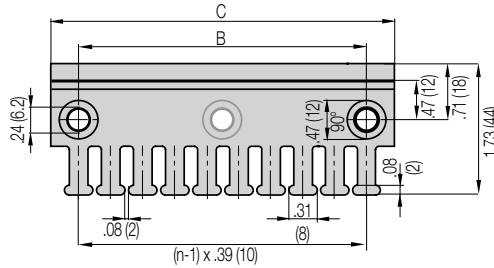
5050HD
R9850HD

Tiewrap plates as an individual part

Available as an individual component, can be fixed onto a mounting bracket with the use of a profile rail.

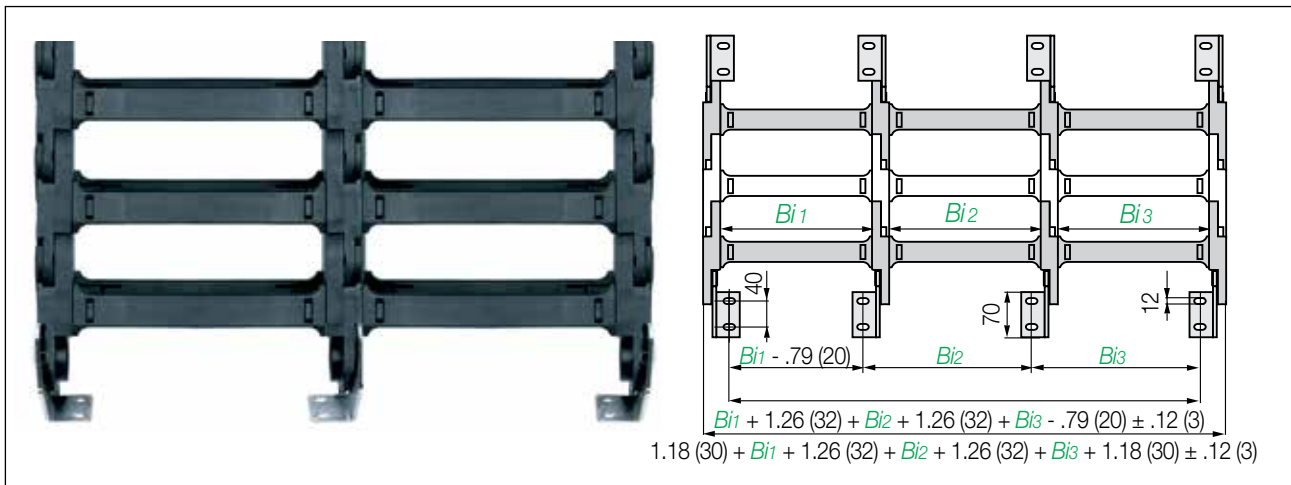


For more information please refer to strain relief section of Chapter 10



Tiewrap Plate	n Number of Teeth	C Overall Width in. (mm)	B Bore Width in. (mm)	Center Bore
3050-ZB	5	1.97 (50)	1.18 (30)	no
3075-ZB	7	2.95 (75)	2.16 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3115-ZB	11	4.53 (115)	3.74 (95)	no
3125-ZB	12	4.92 (125)	4.13 (105)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no
3175-ZB	17	6.89 (175)	6.10 (155)	no
3200-ZB	20	7.87 (200)	7.09 (180)	yes
3225-ZB	22	8.86 (225)	8.07 (205)	yes
3250-ZB	25	9.84 (250)	9.06 (230)	yes

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Extension links | For extremely wide e-chains® up to 9.84 ft. (3 m)

- Virtually unlimited side-by-side attachment when high fill weights necessitate extremely wide e-chains® (up to 118" (3,000mm))
- The unsupported length FL_c max. can be increased when high fill weights are required



Width of Crossbar
5050HD-05-200-0

	B_{Ri}	Installation Part No.
-05	4.13 (105)	96-50-225
-06	4.72 (120)	96-50-250
-07	5.12 (130)	96-50-250
-08	5.59 (142)	96-50-275
-10	6.10 (155)	96-50-275
-11	6.61 (168)	96-50-300
-12	7.09 (180)	96-50-300
-13	7.60 (193)	96-50-325
-15	8.07 (205)	96-50-325
-16	8.58 (218)	96-50-350
-17	9.06 (230)	96-50-350
-18	9.57 (243)	96-50-375
-20	10.04 (255)	96-50-375
-21	10.55 (268)	96-50-400
-22	11.02 (280)	96-50-400
-23	11.54 (293)	96-50-425
-25	12.01 (305)	96-50-425
-26	12.52 (318)	96-50-450
-27	12.99 (330)	96-50-450
-28	13.50 (343)	96-50-475
-30	13.98 (355)	96-50-475
-31	14.49 (368)	96-50-500
-32	14.96 (380)	96-50-500
-33	15.47 (393)	96-50-525
-35	15.94 (405)	96-50-525
-36	16.46 (418)	96-50-550
-37	16.93 (430)	96-50-550
-38	17.44 (443)	96-50-575
-40	17.91 (455)	96-50-575
-41	18.43 (468)	96-50-600
-42	18.90 (480)	96-50-600
-43	19.41 (493)	96-50-625
-45	19.88 (505)	96-50-625
-46	20.39 (518)	96-50-650
-47	20.87 (530)	96-50-650
-48	21.38 (543)	96-50-675
-50	21.85 (555)	96-50-675
-51	22.36 (568)	96-50-700
-52	22.83 (580)	96-50-700
-53	23.35 (593)	96-50-725
-55	23.82 (605)	96-50-725
-60	25.79 (655)	96-50-775

Guide troughs are used with applications where the upper run of the e-chain® glides on the lower run. If using igus® steel guide troughs, the following components are required:

- Full travel length of guide trough
Part No. 99-30
- 1/2 travel length glide bars
Part No. 93-01
- Installation sets as end connectors
Part No. 96-50-XX

-XX indicates the length of the profile rails on which the guide trough is mounted. The values and part numbers are specified in the table on the right. The standard length of the trough components and glide bars is 6.56 ft (2 m). The overall length of the guide trough directly correlates to the length of travel.

Example:

Length of travel 164 ft (50 m)
Center-mounted

Required guide troughs:

164 ft (50 m) guide trough, 82 ft. (25 m) glide bar
= 25 sections of 6.56 ft (2 m) guide trough

Part No. 99-30

= 13 sections of 6.56 ft (2 m) glide bar

Part No. 93-01

Required number of installation set:

= Number of guide trough components + 1
= 25 + 1 = 26

Part No. of the installation sets **96-50-XXX**

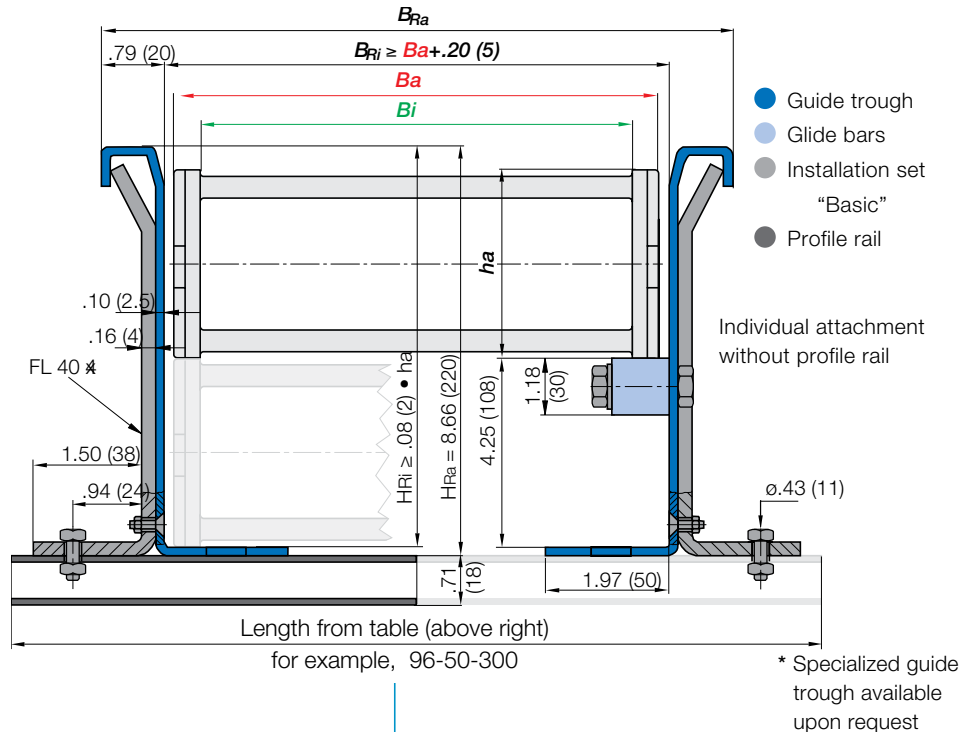
Example: 96-50-400 for 15.75 (400 mm) long profile rail



Left: Guide trough with glide bars
Right: Guide troughs without glide bars



Installation sets as section connectors



Standard length profile rail

For further technical information on guide troughs
► Chapter 9

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





igus

P4.42R.04

P4.42R.04

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P4

Reduce energy consumption by up to 57% - with profile-rol e-chain®



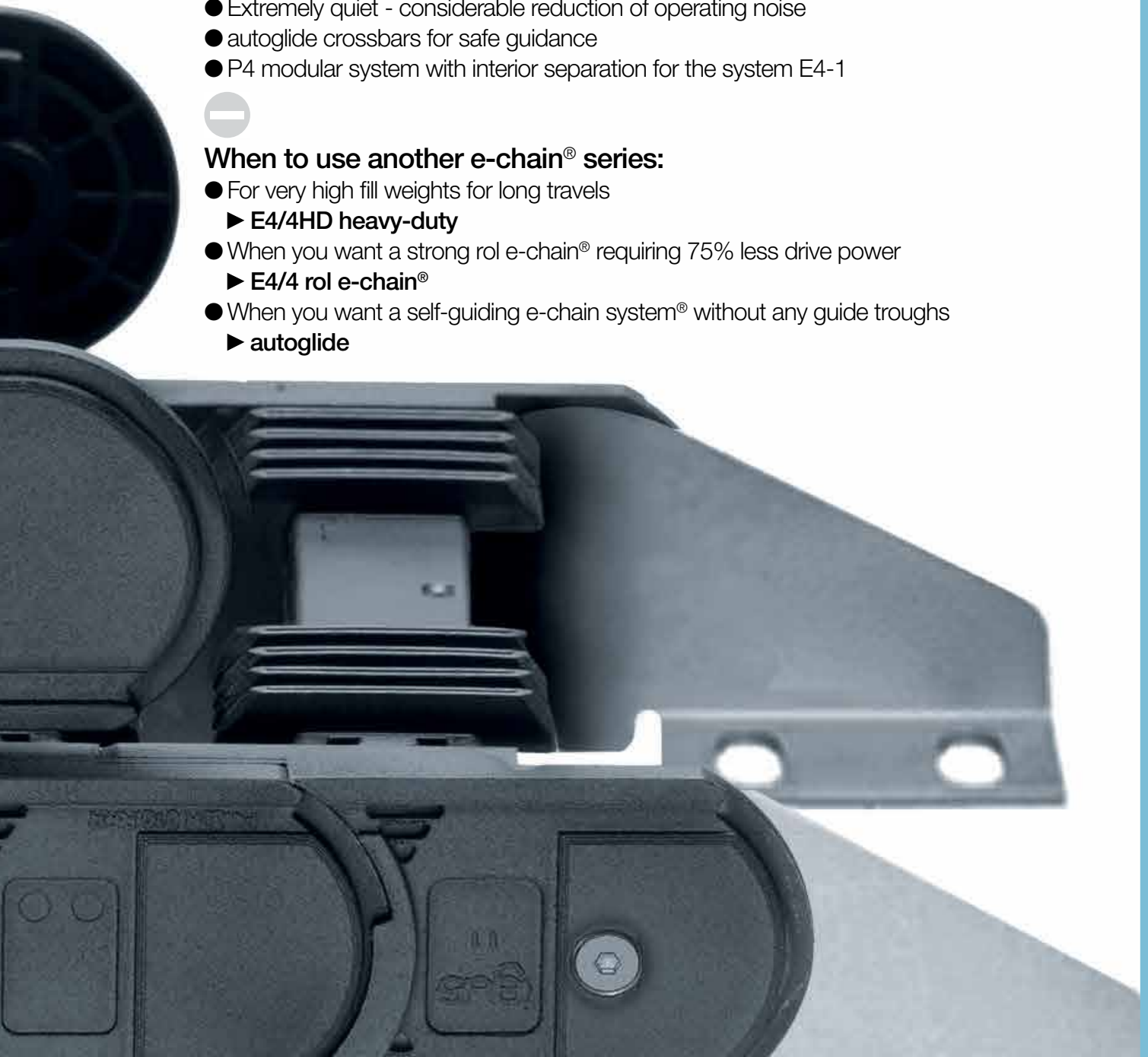
Advantages of P4:

- Reduce energy consumption by up to 57% - P4 profile-rol e-chain system®
- Safe, low-noise, abrasion-resistant energy supply system for long travels
- Long travels up to 2,625 ft. (800m) and more, high fill weights up to 20.16 lbs/ft. (30kg/m)
- For very long travels and high travel speeds up to 32.8 ft. (10m/s)
- Identical pitch of the e-chain® link with or without roller
- Extremely quiet - considerable reduction of operating noise
- autoglide crossbars for safe guidance
- P4 modular system with interior separation for the system E4-1



When to use another e-chain® series:

- For very high fill weights for long travels
 - ▶ **E4/4HD heavy-duty**
- When you want a strong rol e-chain® requiring 75% less drive power
 - ▶ **E4/4 rol e-chain®**
- When you want a self-guiding e-chain system® without any guide troughs
 - ▶ **autoglide**



Special solutions for long travel System P4 - Profile rol e-chain®

For very long travels, speed up to 32.8 f/s (10 m/s)

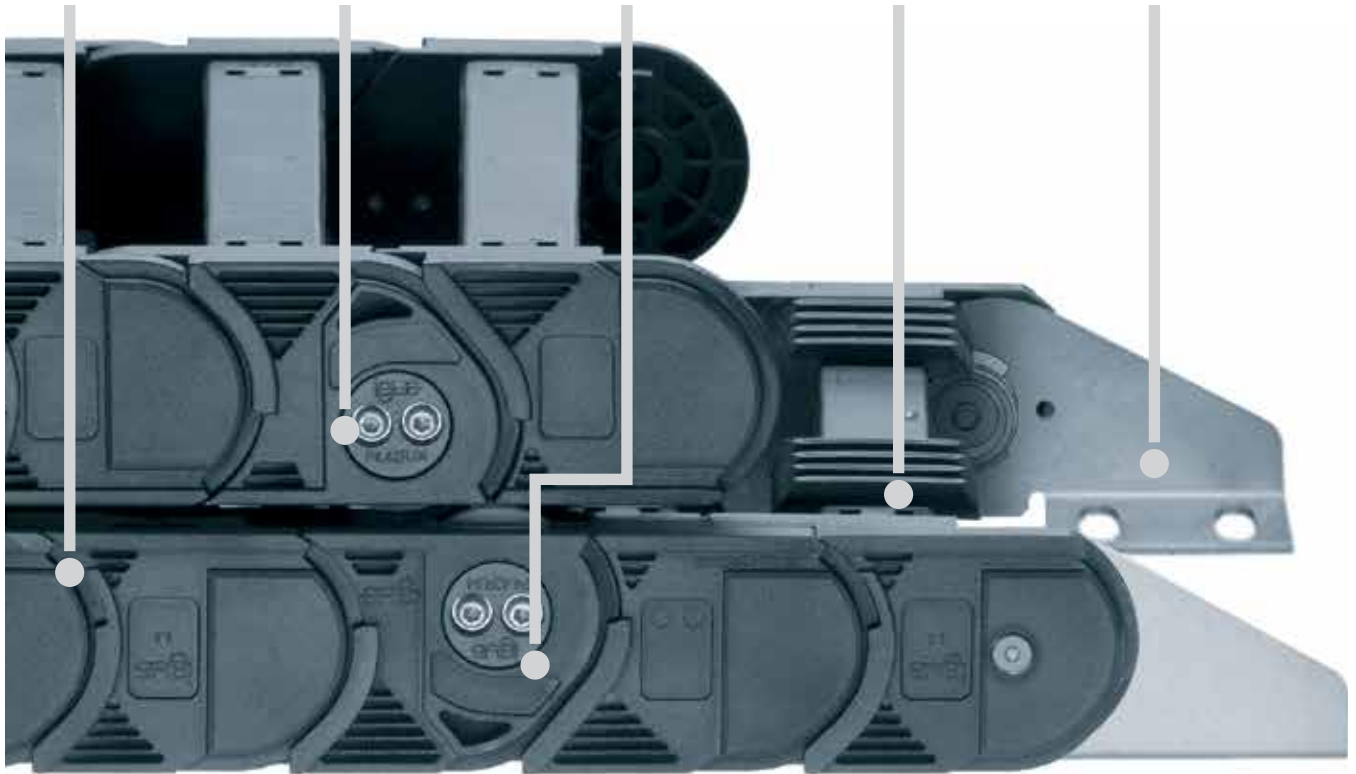
Low vibration:
Offset operation of upper
and lower run

Low maintenance:
Tribo-optimized plastic
rollers

Low noise:
Special roller- /
e-chain® links -design

Secure guidance:
comb style autoglide
crossbars

Robust:
Steel mounting brackets



57% less energy consumption - System P4, profile rol e-chain®

Safe, low-noise, abrasion-resistant energy supply system on long travels up to 2,625 ft. (800 m) and more

Standard rol e-chain® has been used in over 1000 installations worldwide. Some industries - cranes, for example - have ever-increasing demands for length of travel, fill weight and speed. **Systems of this type should be designed by our system design engineers. We will be more than willing to submit an offer to you. Please contact us about this.**

- Identical pitch of the chain link with or without roller
- Smooth, low noise operation through identical pitch length for links with and without rollers
- Integrated "captive" roller in the side part
- Long travels (up to 2,625 ft. (800 m), high additional loads up to 20.2 lbs/ ft (30 kg/m)
- For very long travels and high speeds >32.8 ft/s (10 m/s) travel speed
- autoglide crossbars provide for a safe guiding in very long travels
- 4 different inner heights: 1.26" (32mm), 1.65" (42mm), 2.20" (56mm), 3.15" (80 mm) available
- Large modular tool box system with interior separations of the System E4

Typical industries and applications

- Cranes
- Warehousing
- Equipment manufacturing
- Gantry robots
- Material handling



iF product design award
2007 igus® System P4

2007 ■


Special solutions for long travel System P4 - Profile rol e-chain® Efficiency

Energy efficient polymer e-chains® and cables reduce consumption by up to 57%


With the right materials and clever design, the energy consumption can be drastically reduced, as now proven by current tests and sample calculations in the e-chain® and cable laboratory at igus®. igus® e-chains® and chainflex® cables reduce the required drive power and extend the application's service life.

Better cables, stronger and rolling e-chains®	System P4 -57%	
Rolling instead of gliding	rol e-chain® -37%	
Stronger e-chains®	E4-1 -17%	
Optimized cables	chainflex® -17%	
Gliding application	Standard 100%	

System P4

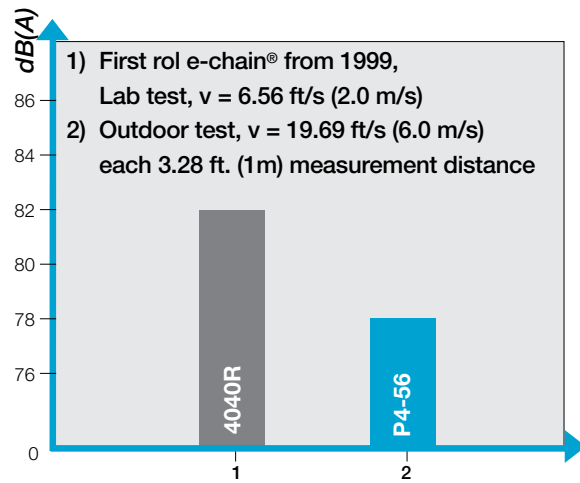
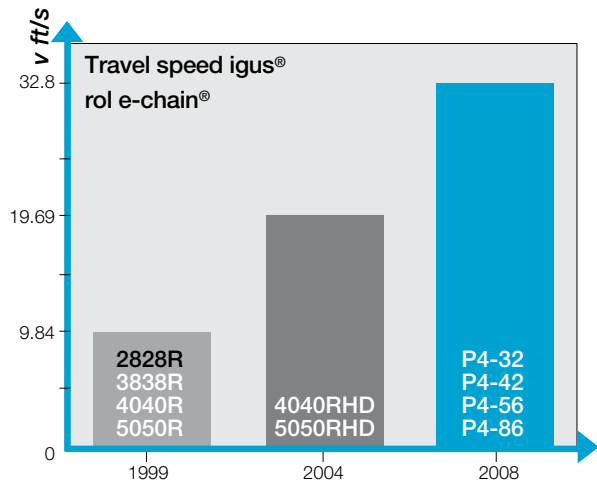


chainflex®



= 57%

Saving



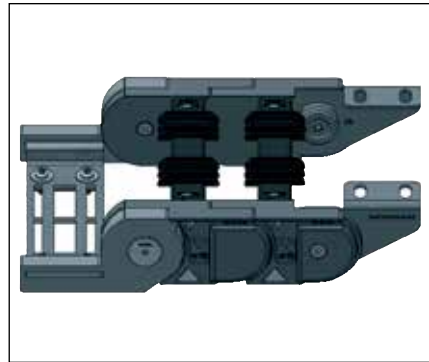
**System P4 -
 Profile rol e-chain®**
 Safe, low noise, abrasion-
 resistant on long travels



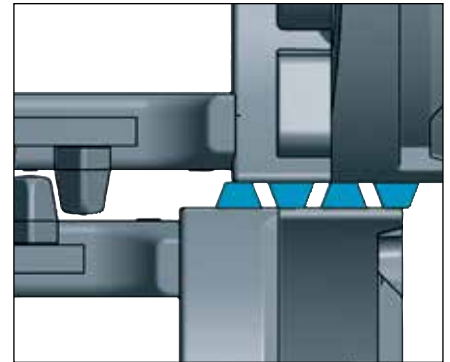
Series	Inner height <i>hi</i> in. (mm)	Inner width <i>Bi</i> in. (mm)	Outer width <i>Ba</i> in. (mm)	Outer height <i>ha</i> in. (mm)	Bending radius <i>R</i> in. (mm)	Maximum Travel ft. (m)
P4-32	1.26 (32)	3.94-7.87 (100-200)	5.20-9.13 (132-232)	2.13 (54)	5.91-9.84 (150-250)	1,641 (500)
P4-42	1.65 (42)	3.94-7.87 (100-200)	6.06-10.00 (154-254)	2.52 (64)	3.94-13.78 (100-350)	1,969 (600)
P4-56	2.20 (56)	7.36-15.75 (187-400)	10.12-18.50 (257-470)	3.31 (84)	9.84-13.78 (250-350)	2,625 (800)
P4-80	3.15 (80)	7.36-15.75 (187-400)	10.35-18.74 (263-476)	4.25 (108)	9.84-13.78 (250-350)	2,625 (800)



Optimized interior separation program, cables last up to 4 times longer



Robust pivoting mounting brackets available



Offset operation of upper and lower run, resulting in continuous roll-through surface



- Extension link for heavy fill weights
- 2 inner heights available (56, 80 mm)
- 50% higher fill weight possible
- Maximum rigidity
- Divides cross section into compartments (electric/hydraulic)



- Tribo-optimized plastic rollers for all P4 systems
- Wear optimized
- Long cycle life
- Improved rolling
- Lower noise and vibration
- Same pitch for roller links / e-chain® links

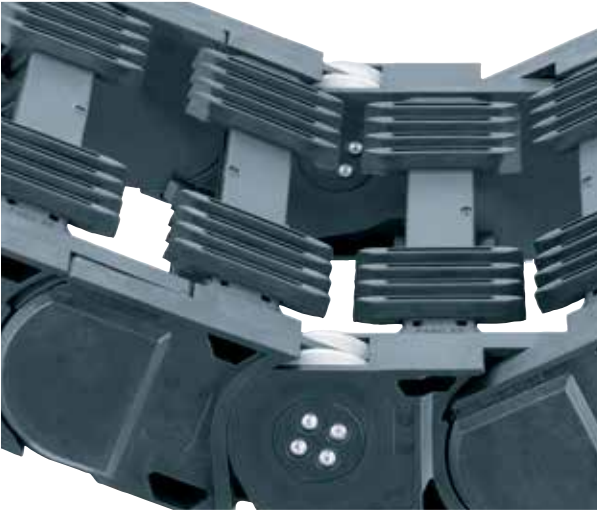


- Aluminum guide trough system
- Special geometry in combination with autoglide cross bars allows for offset upper and lower run
- Strong installation kits for long cycle life
- Aluminum trough segments resist corrosion

Special solutions for long travel System P4 - Profile rol e-chain®



igus® P4 rol e-chain® in suitable aluminum SuperTrough. High speeds, longest travels, smooth running - thereby longest lifetime

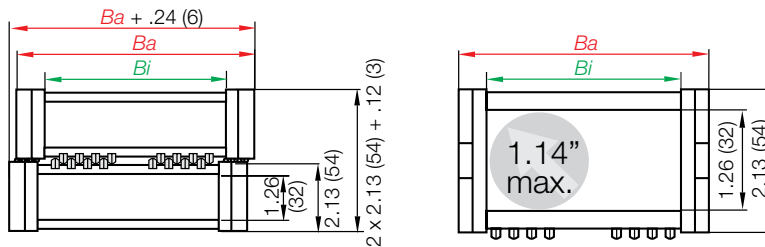


System P4 - Very quiet operation through identical pitch of all chain links. autoglide crossbars offer a safe guidance in very long travels

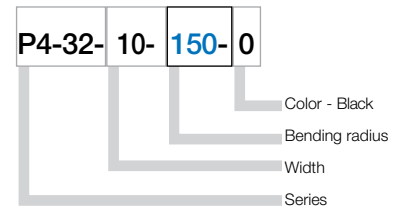
P4-32 - openable along both radii, crossbars every link - comb style autoglide crossbars



P4-32 crossbars every link



Part Number Structure



Part Number	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft (kg/m)
P4-32-10- <input type="text"/> -0	3.94 (100)	5.20 (132)	≈ 1.82 (2.71)
P4-32-15- <input type="text"/> -0	5.91 (150)	7.17 (182)	≈ 2.04 (3.04)
P4-32-20- <input type="text"/> -0	7.87 (200)	9.13 (232)	≈ 2.24 (3.34)

Choose from the radii below for all of the above sizes
 Radius (mm) Example: P4-32-20- -0

	<input type="text"/> 150	<input type="text"/> 200	<input type="text"/> 250
R	5.91 (150)	7.87 (200)	9.84 (250)
H₂	4.92 (125)	4.92 (125)	4.92 (125)
D₂	29.92 (760)	39.96 (1015)	55.12 (1400)
K	48.50 (1232)	63.94 (1624)	81.57 (2072)

The bending radii 075 100 125 300 are available upon request.
 Please contact technical sales for approximate delivery times.

Note: We recommend contacting our technical experts when planning your P4 application.
 For distances below 32.8 ft. (10 m) we recommend a self-supporting e-chain®.

Additional Features



Interior separation available
 ➤ Series E4-32



Robust steel mounting brackets
 available ➤ Upon request



Special P4 guide trough system
 available ➤ Upon request

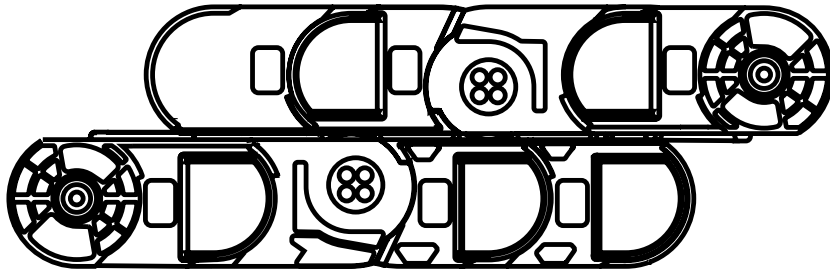
Special solutions for long travel

System P4 - rol e-chain® - Series P4-32

Installation Dimensions



P4-32



Legend

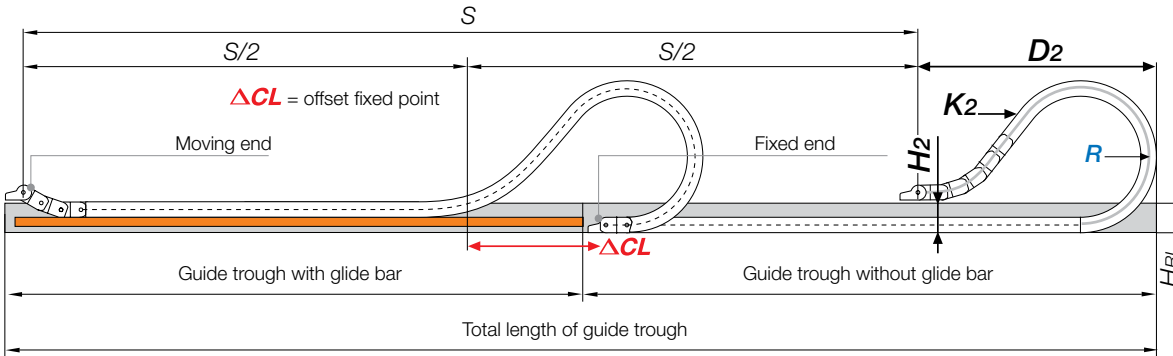
- S = Length of travel
- R = Bending radius
- H = Mounting height
- D = Overlength - long travels, gliding
- K = Add-on
- H_{in} = Trough inner height

The required clearance height: $H_r = H + 1.57$ in. (40 mm) with 4.03 lbs/ft (6 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Sliding applications

Long travel lengths up to 1,641 ft. (500 m)

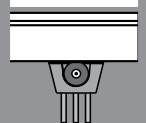
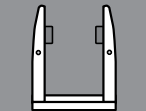
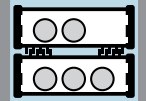
In case of travels below 32.8 ft. (10m) we recommend a self-supporting e-chain®.



R	5.91 (150)	7.87 (200)	9.84 (250)
H	4.92 (125)	4.92 (125)	4.92 (125)
D	29.92 (760)	39.96 (1015)	55.12 (1400)
K	48.50 (1232)	63.94 (1624)	81.57 (2072)
ΔCL	14.80 (376)	23.46 (596)	32.87 (835)

Pitch per link = 2.20" (56 mm)
 Links per ft (m) = 5.49 (18)
 Chain length = $\frac{S}{2} + K$

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



Long travels	from 32.8 ft. (10 m) up to max. 1,641 ft. (500 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Fill weight	max. 4.03 lbs/ft. (6 kg/m)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120°C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

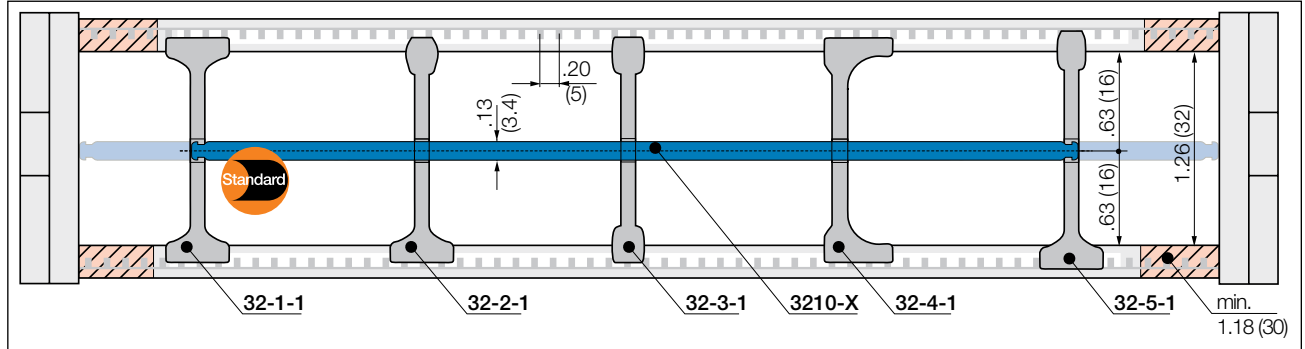
Technical Data



Details of material properties

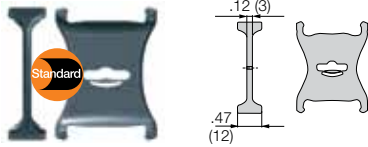
► Chapter 1

9.118



Note E-Tube: Please maintain a lateral spacing of 1.18" (30 mm) between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link

Telephone 1-800-521-2747



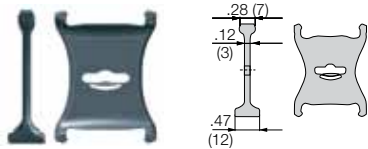
Separator, wide base

Unassembled **Part No. 32-1**

Assembled **Part No. 32-1-1**

- **Standard separator 32-1 for all applications**

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



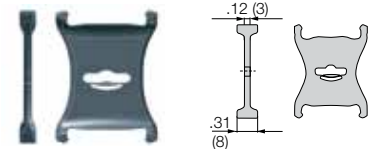
Separator, narrow head

Unassembled **Part No. 32-2**

Assembled **Part No. 32-2-1**

- **Separator 32-2 For even faster installation**

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



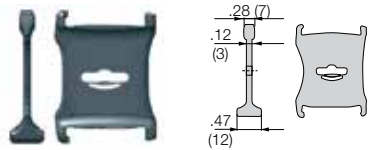
Separator, narrow base

Unassembled **Part No. 32-3**

Assembled **Part No. 32-3-1**

- **Separator 32-3 For many thin cables**

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



Separator, asymmetrical

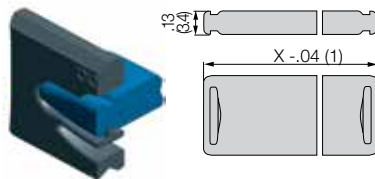
Unassembled **Part No. 32-5**

Assembled **Part No. 32-5-1**

- **Separator 32-5 Locks safely in .20" (5 mm) increments**

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

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled **Part No. 3200-X**

Assembled **Part No. 3210-X**

- **Full width shelf, lockable**

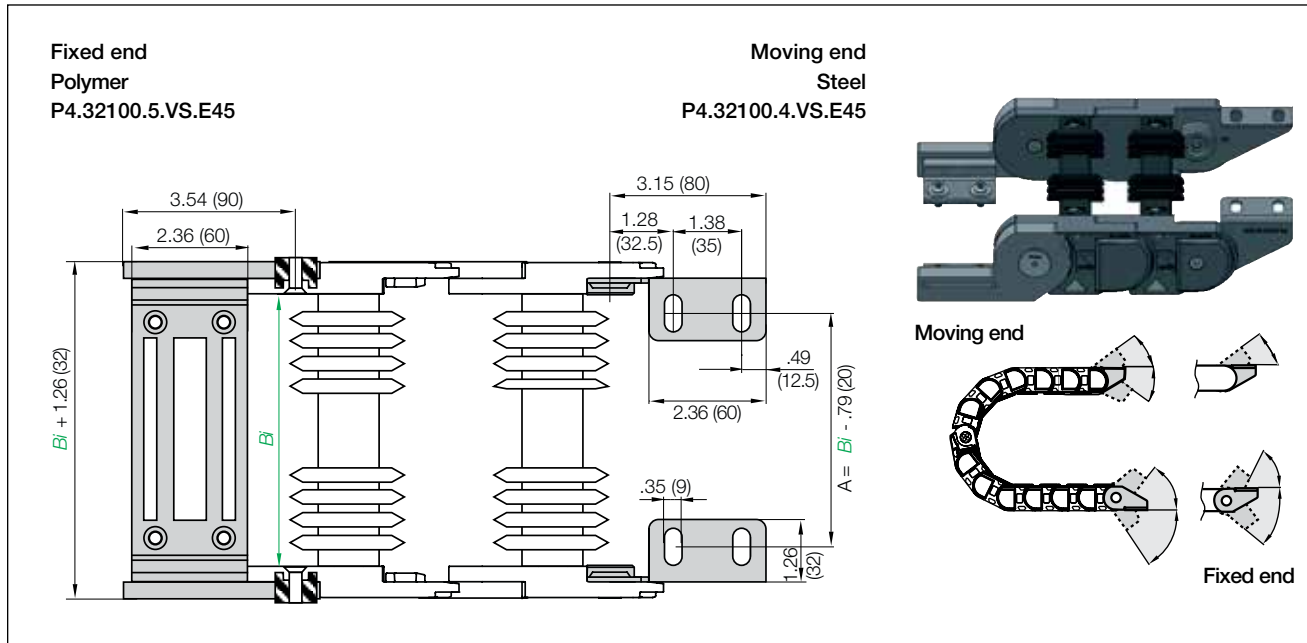
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be used at one height.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	3200-050	3210-050	4.92 (125)	3200-125	3210-125	8.86 (225)	3200-225	3210-225
2.95 (075)	3200-075	3210-075	5.91 (150)	3200-150	3210-150	9.84 (250)	3200-250	3210-250
3.94 (100)	3200-100	3210-100	6.89 (175)	3200-175	3210-175			
4.53 (115)	3200-115	3210-115	7.87 (200)	3200-200	3210-200			

Special solutions for long travel

System P4 - rol e-chain® - Series P4-32

Installation Dimensions



Mounting brackets pivoting - Recommended for rolling applications on long travels

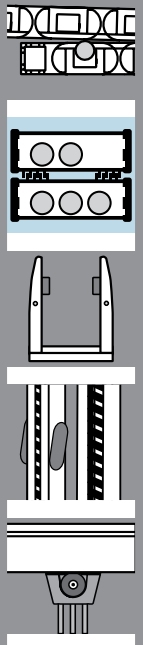
Width Index	Part No. full set for Fixed end and moving end	<i>Bi</i> in. (mm)	Dim. A in. (mm)
10- ▶	P4-32100-54-10-VS-E45	3.94 (100)	3.15 (80)
15- ▶	P4-32100-54-15-VS-E45	5.91 (150)	5.12 (130)
20- ▶	P4-32100-54-20-VS-E45	7.87 (200)	7.09 (180)

The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensure that the rollers move over a plain surface at the fixed end.

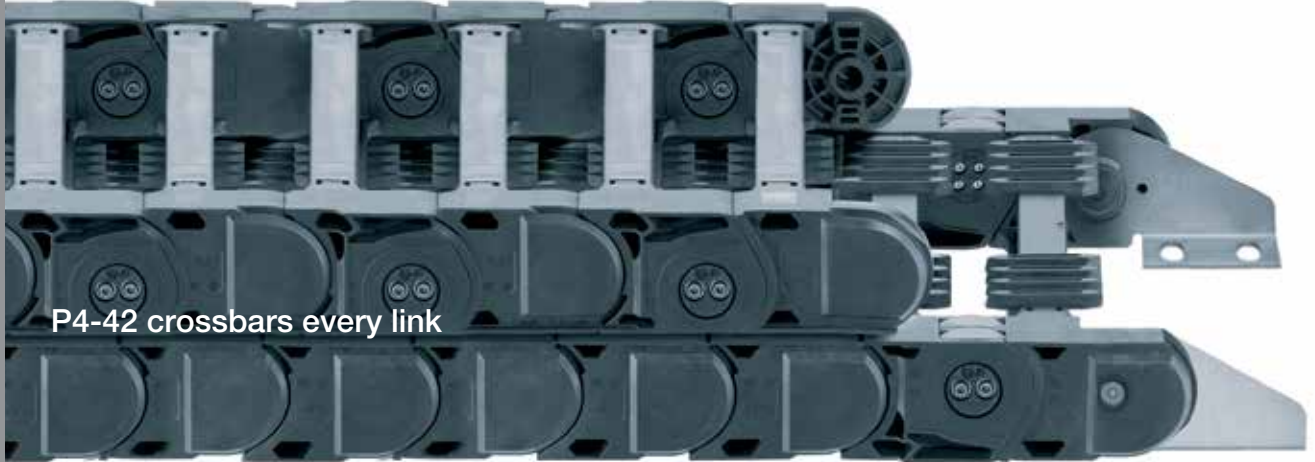
Strain relief, clamps, tiewrap plates, and clip-on solutions are available from stock.

For the complete Chainfix range refer to ▶ Chapter 10

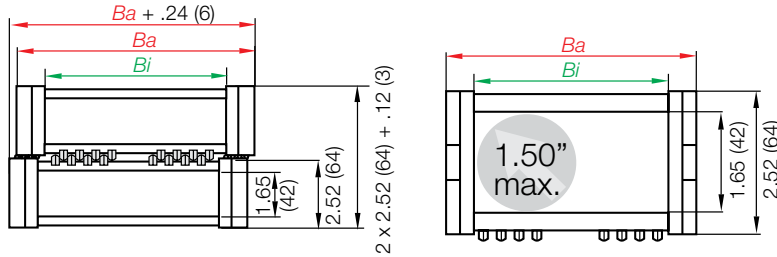
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



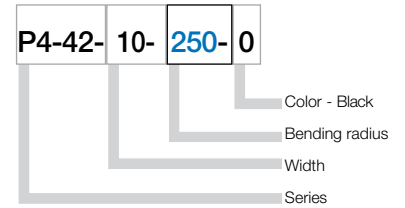
P4-42 - openable along both radii, crossbars every link - comb style autoglide crossbars



P4-42 crossbars every link



Part Number Structure



Part Number	Bi in. (mm)	Ba in. (mm)	Weight lbs/ft (kg/m)
P4-42-10- [] -0	3.94 (100)	6.06 (154)	≈ 1.82 (2.71)
P4-42-15- [] -0	5.91 (150)	8.03 (204)	≈ 2.04 (3.04)
P4-42-20- [] -0	7.87 (200)	10.00 (254)	≈ 2.24 (3.34)

Choose from the radii below for all of the above sizes

Radius (mm) Example: P4-42-20-250-0

	100	125	150	200	250	300	350
R	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H.	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)
D.	20.47 (520)	30.91 (785)	37.01 (940)	50.39 (1280)	63.78 (1620)	77.17 (1960)	89.17 (2265)
K.	36.61 (930)	47.48 (1206)	55.39 (1407)	73.86 (1876)	92.32 (2345)	110.79 (2814)	126.61 (3216)

Note: We recommend contacting our technical experts when planning your P4 application.
For distances below 32.8 ft. (10 m) we recommend a self-supporting e-chain®.

Additional Features



Interior separation available
► Series E4-42



Robust steel mounting brackets
available ► Upon request



Special P4 guide trough system
available ► Upon request

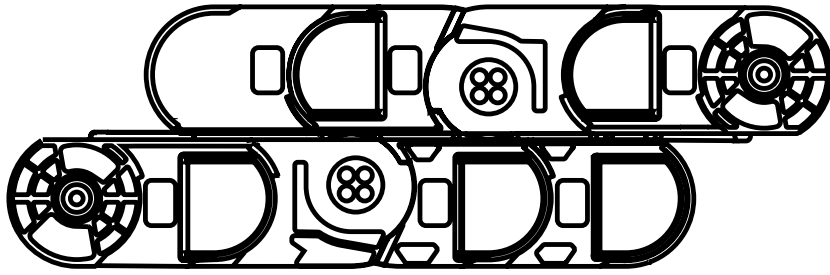
Special solutions for long travel

System P4 - rol e-chain® - Series P4-42

Installation Dimensions



P4-42



Legend

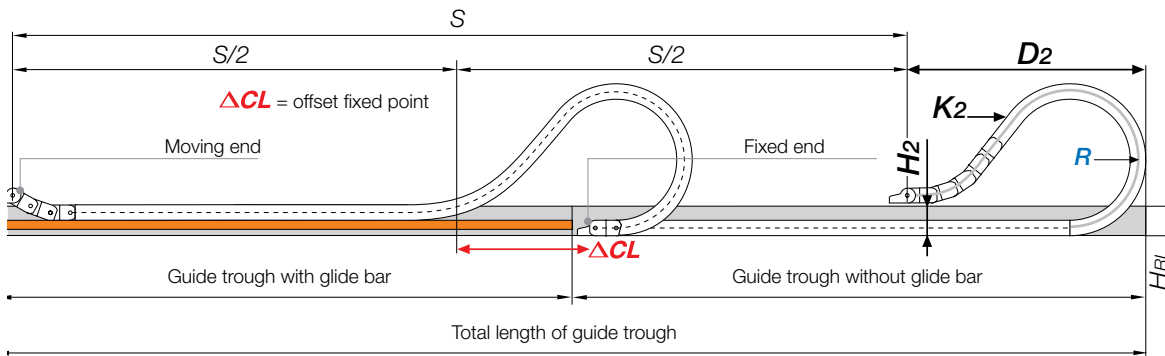
- S = Length of travel
- R = Bending radius
- H = Mounting height
- D = Overlength - long travels, gliding
- K = Add-on
- H_{ri} = Trough inner height

The required clearance height: $H_r = H + 1.57$ in. (40 mm) with 4.70 lbs/ft (7 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Sliding applications

Long travel lengths up to 1,969 ft. (600 m)

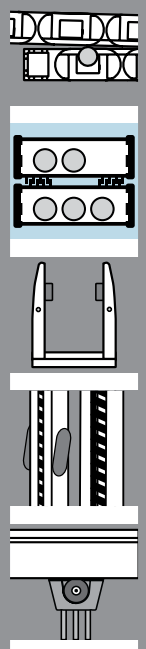
In case of travels less than 32.8 ft. (10m) we recommend an self-supporting e-chain®.



Pitch per link: = 2.64" (67 mm)
 Links per ft (m): = 4.57 (15)
 Chain length: = $\frac{S}{2} + K_2$

R	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H _i	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)	5.51 (140)
D	20.47 (520)	30.91 (785)	37.01 (940)	50.39 (1280)	63.78 (1620)	77.17 (1960)	89.17 (2265)
K	36.61 (930)	47.48 (1206)	55.39 (1407)	73.86 (1876)	92.32 (2345)	110.79 (2814)	126.61 (3216)
ΔCL	7.68 (195)	130.19 (335)	18.50 (470)	30.12 (765)	41.14 (1045)	52.36 (1330)	63.58 (1615)

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



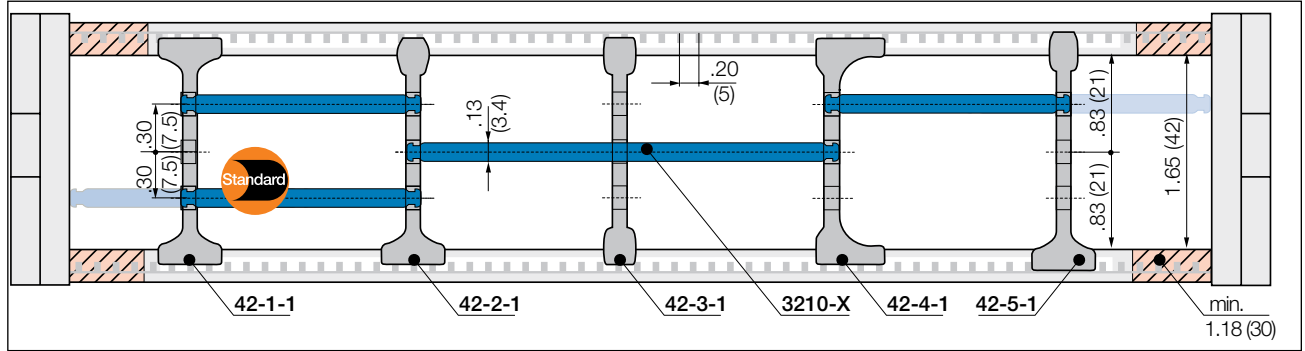
Long travels	from 32.8 ft. (10 m) up to max. 1,969 ft. (600 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Fill weight	max. 4.70 lbs/ft. (7 kg/m)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120°C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data

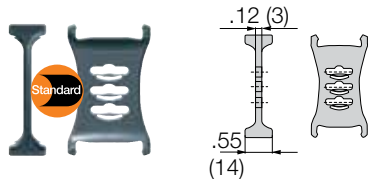


Details of material properties

► Chapter 1



Note E-Tube: Please maintain a lateral spacing of 1.18" (30 mm) between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link

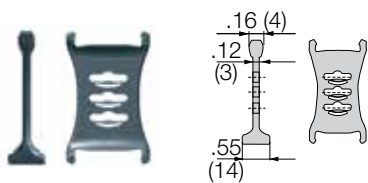


Separator, wide base

Unassembled	Part No. 42-1
Assembled	Part No. 42-1-1

- **Standard separator 42-1 for all applications**

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

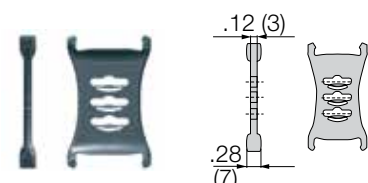


Separator, narrow head

Unassembled	Part No. 42-2
Assembled	Part No. 42-2-1

- **Separator 42-2 For even faster installation**

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

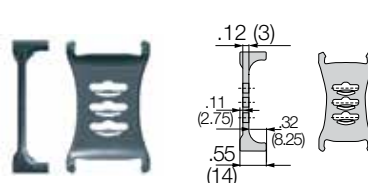


Separator, narrow base

Unassembled	Part No. 42-3
Assembled	Part No. 42-3-1

- **Separator 42-3 For many thin cables**

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

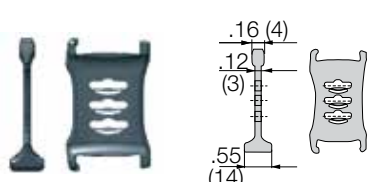


Separator, asymmetrical

Unassembled	Part No. 42-4
Assembled	Part No. 42-4-1

- **Separator 42-4 For side mounted applications**

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



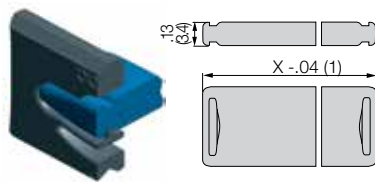
Separator, asymmetrical

Unassembled	Part No. 42-5
Assembled	Part No. 42-5-1

- **Separator 42-5 Locks safely in .30" (7.5 mm) increments**

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

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled	Part No. 3200-X
Assembled	Part No. 3210-X

- **Full width shelf, lockable**

Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be used at one height.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	3200-050	3210-050	4.92 (125)	3200-125	3210-125	8.86 (225)	3200-225	3210-225
2.95 (075)	3200-075	3210-075	5.91 (150)	3200-150	3210-150	9.84 (250)	3200-250	3210-250
3.94 (100)	3200-100	3210-100	6.89 (175)	3200-175	3210-175			
4.53 (115)	3200-115	3210-115	7.87 (200)	3200-200	3210-200			

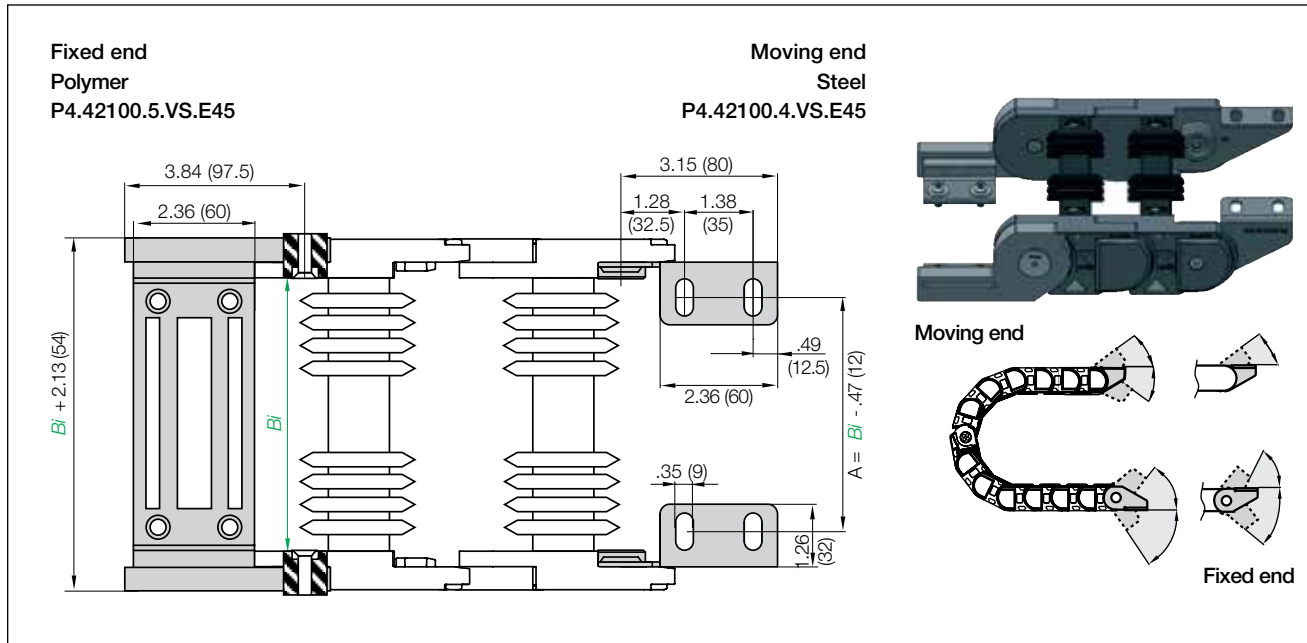
Special solutions for long travel

System P4 - rol e-chain® - Series P4-42

Installation Dimensions



P4-42



Mounting brackets pivoting - Recommended for rolling applications on long travels

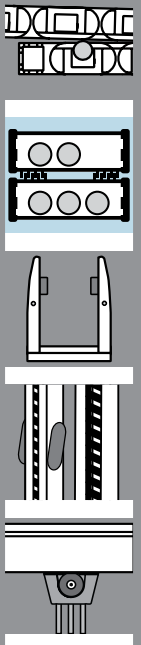
Width Index	Part No. full set for Fixed end and moving end	Bi in. (mm)	Dim. A in. (mm)
10- ▶	P4-42100-54-10-VS-E45	3.94 (100)	3.15 (80)
15- ▶	P4-42100-54-15-VS-E45	5.91 (150)	5.12 (130)
20- ▶	P4-42100-54-20-VS-E45	7.87 (200)	7.09 (180)

The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensure that the rollers move over a plain surface at the fixed end.

Strain relief, clamps, tiwrap plates, and clip-on solutions are available from stock.

For the complete Chainfix range refer to ▶ Chapter 10

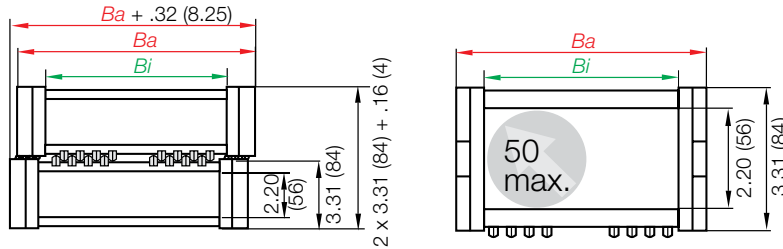
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



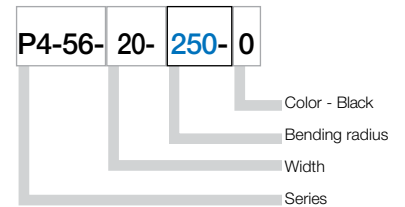
P4-56 - openable along both radii, crossbars every link - comb style autoglide crossbars



P4-56 crossbars every link



Part Number Structure



Part Number	B_i in. (mm)	B_a in. (mm)	Weight lbs/ft (kg/m)
P4-56-18- <input type="checkbox"/> -0	7.36 (187)	9.84 (250)	≈ 4.52 (6.72)
P4-56-20- <input type="checkbox"/> -0	7.87 (200)	10.63 (270)	≈ 4.72 (7.03)
P4-56-25- <input type="checkbox"/> -0	9.84 (250)	12.60 (320)	≈ 4.97 (7.39)
P4-56-30- <input type="checkbox"/> -0	11.81 (300)	14.57 (370)	≈ 5.23 (7.79)
P4-56-35- <input type="checkbox"/> -0	13.78 (350)	16.54 (420)	≈ 5.45 (8.11)
P4-56-40- <input type="checkbox"/> -0	15.75 (400)	18.50 (470)	≈ 5.71 (8.50)

Choose from the radii below for all of the above sizes

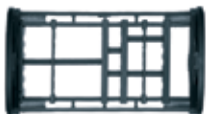
Radius (mm) Example: P4-56-20- 250 -0

	<input type="checkbox"/> 200	<input type="checkbox"/> 250	<input type="checkbox"/> 300	<input type="checkbox"/> 350
R	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D	44.88 (1140)	57.87 (1470)	66.93 (1700)	76.77 (1950)
K	71.65 (1820)	89.57 (2275)	103.90 (2639)	118.23 (3003)

The bending radii 150 400 450 500 are available upon request. Please contact technical sales for approximate delivery times.

Note: We recommend contacting our technical experts when planning your P4 application. For distances below 32.8 ft. (10 m) we recommend a self-supporting e-chain®.

Additional Features



Interior separation available
► Series E4-56



Robust steel mounting brackets available ► Upon request



Special P4 guide trough system available ► Upon request



Extension link for heavy fill weights available ► upon request

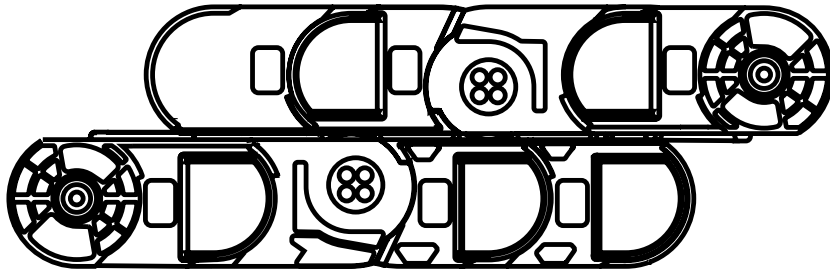
Special solutions for long travel

System P4 - rol e-chain® - Series P4-56

Installation Dimensions



P4-56



Legend

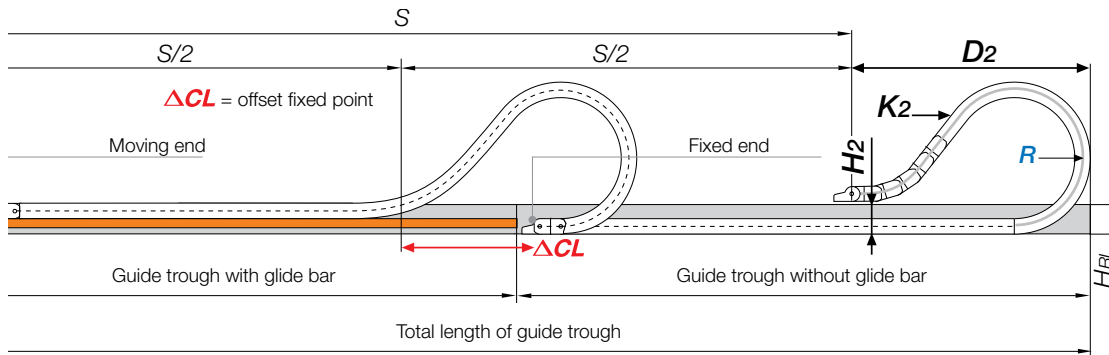
- S = Length of travel
- R = Bending radius
- H = Mounting height
- D = Overlength - long travels, gliding
- K = Add-on
- H_{in} = Trough inner height

The required clearance height: $H_r = H + 1.97$ in. (50 mm) with 8.74 lbs/ft (13 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Sliding applications

Long travel lengths up to 2,625 ft. (800 m)

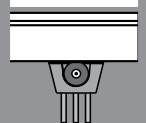
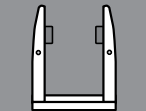
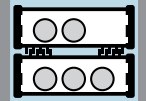
In case of travels less than 32.8 ft. (10m) we recommend an self-supporting e-chain®.



Pitch per link = 3.58" (91 mm)
 Links per ft (m) = 3.35 (11)
 Chain length = $\frac{S}{2} + K_2$

R	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D	44.88 (1140)	57.87 (1470)	66.93 (1700)	76.77 (1950)
K	71.65 (1820)	89.57 (2275)	103.90 (2639)	118.23 (3003)
ΔACL	21.65 (550)	31.50 (800)	39.37 (1000)	47.24 (1200)

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



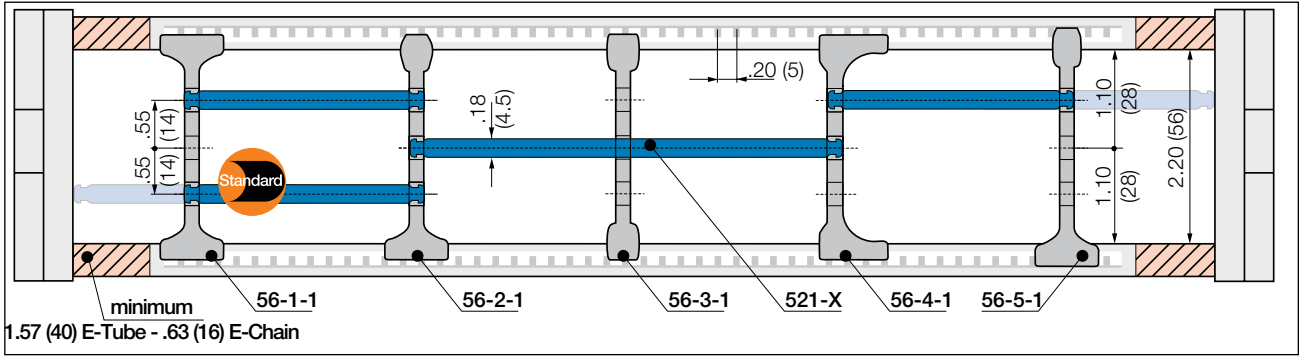
Long travels	from 32.8 ft. (10 m) up to max. 2,625 ft. (800 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Fill weight	max. 8.74 lbs/ft. (13 kg/m)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data

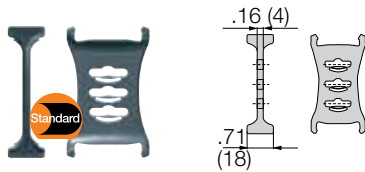


Details of material properties

► Chapter 1



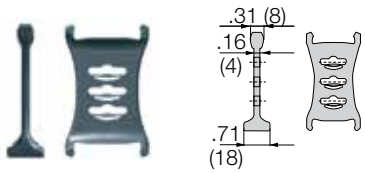
Note Please maintain a lateral spacing of 1.57" (40 mm) for E-Tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link



Separator, wide base

Unassembled	Part No. 56-1
Assembled	Part No. 56-1-1

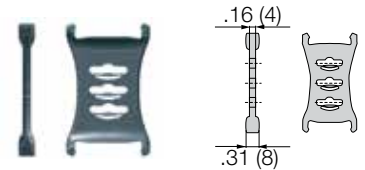
- **Standard separator 56-1 for all applications**
Separator with wide base for maximum locking strength and safe standing in e-chains®.



Separator, narrow head

Unassembled	Part No. 56-2
Assembled	Part No. 56-2-1

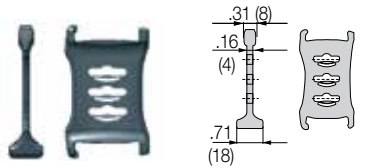
- **Separator 56-2 For even faster installation**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator, narrow base

Unassembled	Part No. 56-3
Assembled	Part No. 56-3-1

- **Separator 56-3 For many thin cables**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

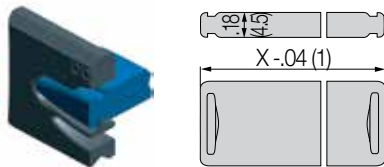


Separator, asymmetrical

Unassembled	Part No. 56-5
Assembled	Part No. 56-5-1

- **Separator 56-5 Locks safely in .30" (7.5 mm) increments**
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled	Part No. 520-X
Assembled	Part No. 521-X

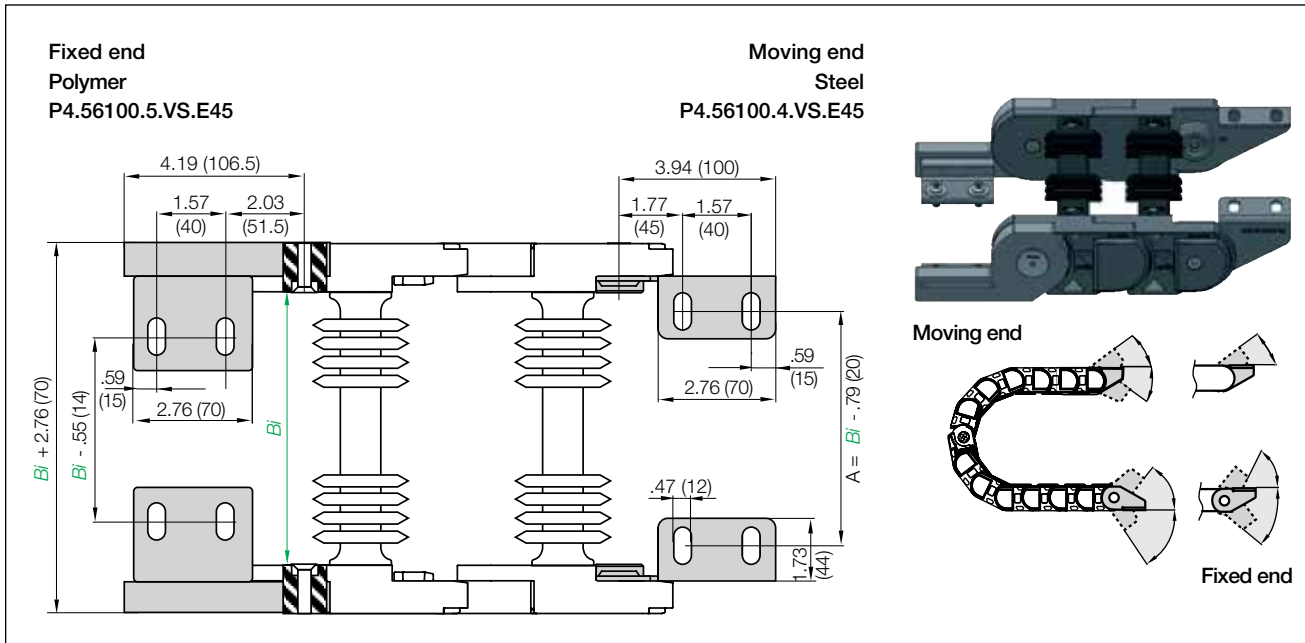
- **Full width shelf, lockable**
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	520-050	521-050	5.91 (150)	520-150	521-150	11.81 (300)	520-300	521-300
2.56 (065)	520-065	521-065	6.89 (175)	520-175	521-175	17.723 (450)	520-450	521-450
2.95 (075)	520-075	521-075	7.87 (200)	520-200	521-200			
3.94 (100)	520-100	521-100	8.86 (225)	520-225	521-225			
4.92 (125)	520-125	521-125	9.84 (250)	520-250	521-250			

Special solutions for long travel

System P4 - rol e-chain® - Series P4-56

Installation Dimensions



Mounting brackets pivoting - Recommended for rolling applications on long travels

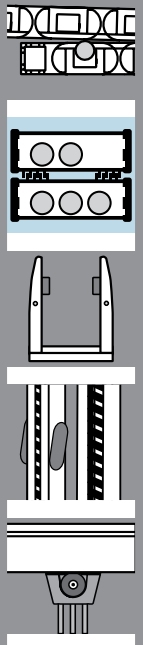
Width Index	Part No. full set for Fixed end and moving end	Bi in. (mm)	Dim. A in. (mm)
18- ▶	P4-56100-54-VS-E45	7.09 (180)	6.30 (160)
20- ▶	P4-56100-54-VS-E45	7.87 (200)	7.09 (180)
25- ▶	P4-56100-54-VS-E45	9.84 (250)	9.06 (230)
30- ▶	P4-56100-54-VS-E45	11.81 (300)	11.02 (280)
35- ▶	P4-56100-54-VS-E45	13.78 (350)	12.99 (330)
40- ▶	P4-56100-54-VS-E45	15.75 (400)	14.96 (380)

The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensure that the rollers move over a plain surface at the fixed end.

Strain relief, clamps, tiwrap plates, and clip-on solutions are available from stock.

For the complete Chainfix range refer to ▶ Chapter 10

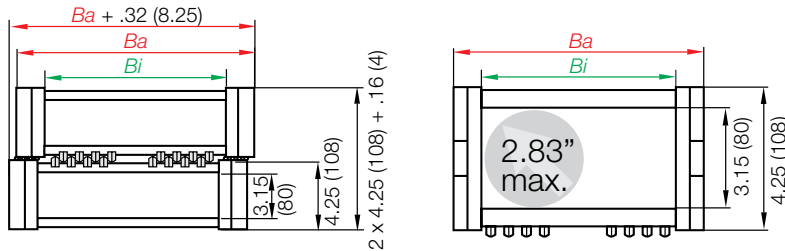
PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



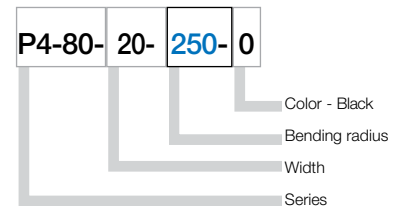
P4-80 - openable along both radii, crossbars every link - comb style autoglide crossbars



P4-56 crossbars every link



Part Number Structure



Part Number	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft (kg/m)
P4-80-18-□-0	7.36 (187)	10.35 (263)	≈ 5.95 (8.85)
P4-80-20-□-0	7.87 (200)	10.87 (276)	≈ 6.14 (9.13)
P4-80-25-□-0	9.84 (250)	12.83 (326)	≈ 6.36 (9.46)
P4-80-30-□-0	11.81 (300)	14.80 (376)	≈ 6.61 (9.83)
P4-80-35-□-0	13.78 (350)	16.77 (426)	≈ 6.85 (10.19)
P4-80-40-□-0	15.75 (400)	18.74 (476)	≈ 7.03 (10.46)

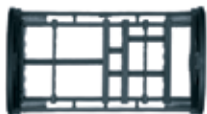
Choose from the radii below for all of the above sizes
Radius (mm) Example: P4-80-20-250-0

	250	300	350	500
R	9.84 (250)	11.81 (300)	13.78 (350)	19.68 (500)
H	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D	63.39 (1610)	77.72 (1974)	81.10 (2060)	128.94 (3275)
K	70.87 (1800)	90.55 (2300)	106.30 (2700)	161.42 (4100)

The bending radii 150 200 400 450 are available upon request.
Please contact technical sales for approximate delivery times.

Note: We recommend contacting our technical experts when planning your P4 application.
For distances below 32.8 ft. (10 m) we recommend a self-supporting e-chain®.

Additional Features



Interior separation available
► Series E4-80



Robust steel mounting brackets
available ► Upon request



Special P4 guide trough system
available ► Upon request



Extension link for heavy fill weights
available ► upon request

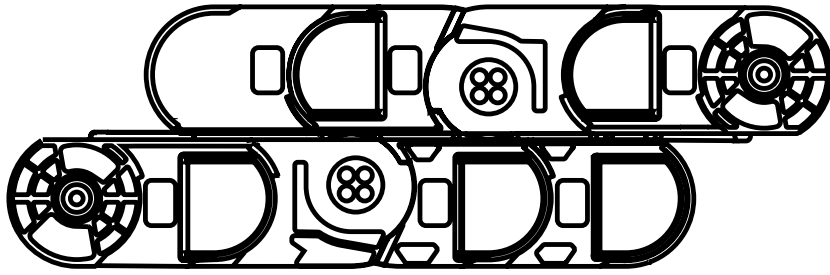
Special solutions for long travel

System P4 - rol e-chain® - Series P4-80

Installation Dimensions



P4-80



Legend

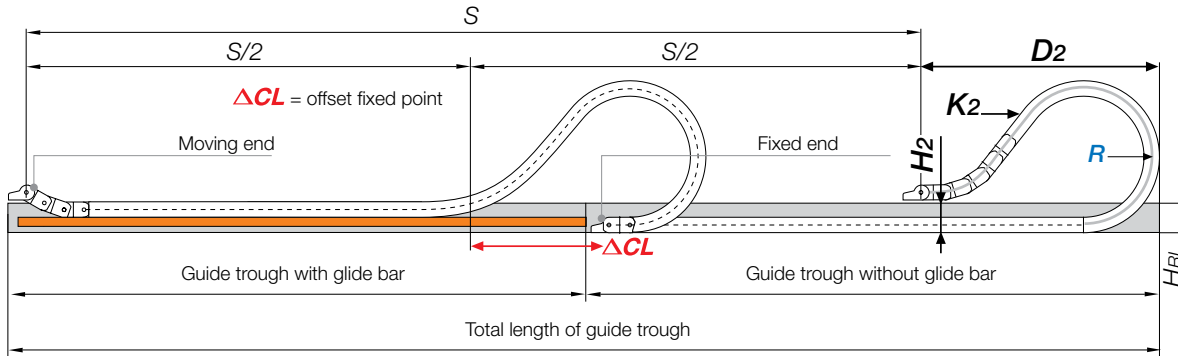
- S = Length of travel
- R = Bending radius
- H = Mounting height
- D = Overlength - long travels, gliding
- K = Add-on
- H_i = Trough inner height

The required clearance height: $H_i = H + 1.97$ in. (50 mm) with 20.16 lbs/ft (30 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Sliding applications

Long travel lengths up to 2,625 ft. (800 m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.



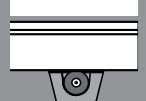
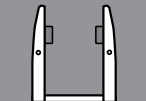
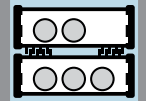
R	9.84 (250)	11.81 (300)	13.78 (350)	19.68 (500)
H _i	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D	63.39 (1610)	77.72 (1974)	81.10 (2060)	128.94 (3275)
K	70.87 (1800)	90.55 (2300)	106.30 (2700)	161.42 (4100)
ΔCL	23.62 (600)	31.50 (800)	38.19 (970)	60.24 (1530)

Pitch per link: = 3.94" (100 mm)

Links per ft (m): = 3.05 (10)

Chain length: = $S/2 + K_2$

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



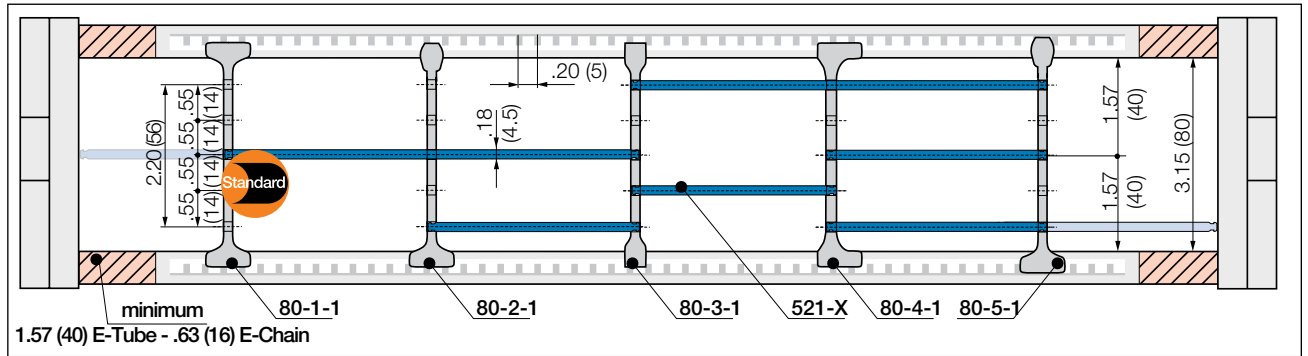
Long travels	from 32.8 ft. (10 m) up to max. 2,625 ft. (600 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Fill weight	max. 20.16 lbs/ft. (30 kg/m)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120°C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



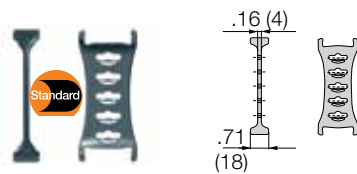
Details of material properties

► Chapter 1



Note Please maintain a lateral spacing of 1.57" (40 mm) for E-Tube and .63" (16 mm) for e-chains® between the separators and the side links. In the standard configuration separators are assembled every 2nd e-chain® link

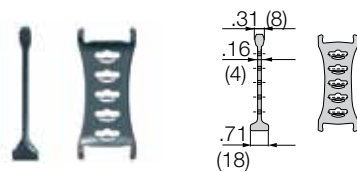
Telephone 1-800-521-2747



Separator, wide base

Unassembled	Part No. 80-1
Assembled	Part No. 80-1-1

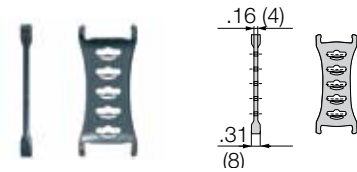
- **Standard separator 80-1 for all applications**
Separator with wide base for maximum locking strength and safe standing in e-chains®.



Separator, narrow head

Unassembled	Part No. 80-2
Assembled	Part No. 80-2-1

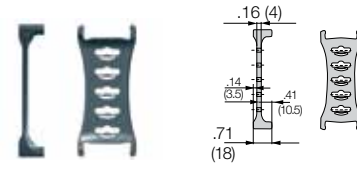
- **Separator 80-2 For even faster installation**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator, narrow base

Unassembled	Part No. 80-3
Assembled	Part No. 80-3-1

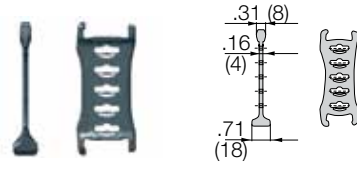
- **Separator 80-3 For many thin cables**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Separator, asymmetrical

Unassembled	Part No. 80-4
Assembled	Part No. 80-4-1

- **Separator 80-4 For side mounted applications**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

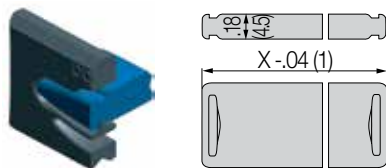


Separator, asymmetrical

Unassembled	Part No. 80-5
Assembled	Part No. 80-5-1

- **Separator 80-5 Locks safely in .30" (7.5 mm) increments**
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Lockable full-width shelves - for the standard interior separation



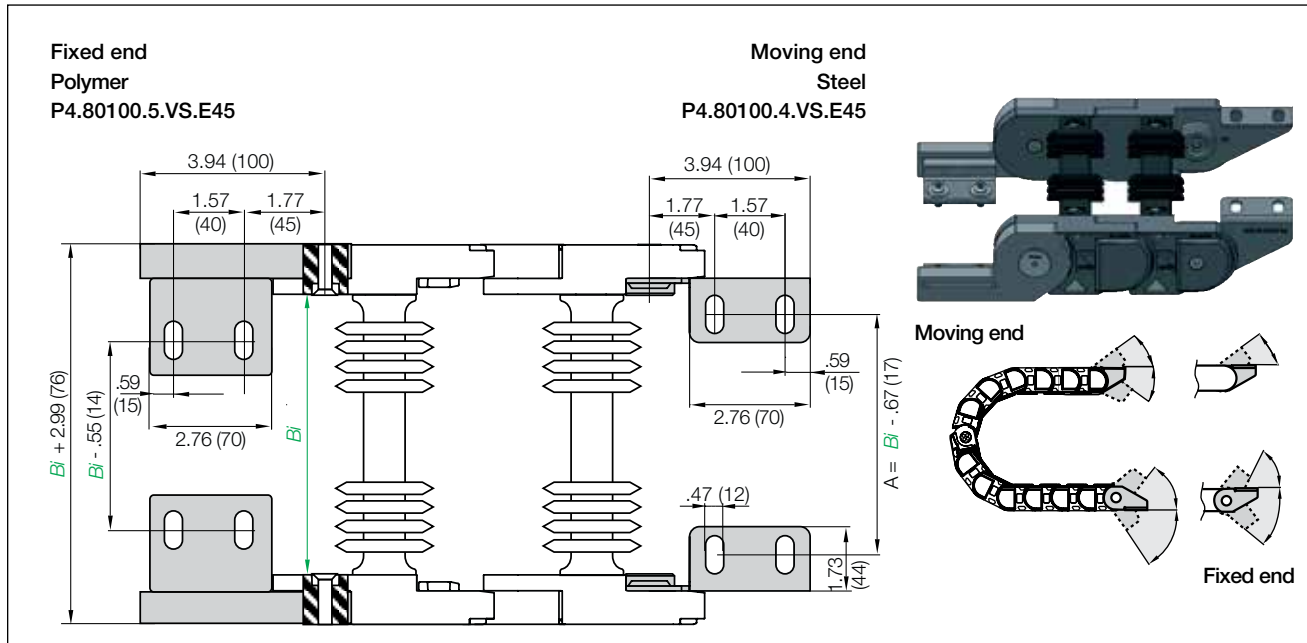
Full width shelf, lockable

Unassembled	Part No. 520-X
Assembled	Part No. 521-X

- **Full width shelf, lockable**
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 5 different heights.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	520-50	521-50	5.91 (150)	520-125	521-125	11.81 (300)	520-125	521-125
2.56 (065)	520-65	521-65	6.89 (175)	520-125	521-125	13.78 (350)	520-125	521-125
2.95 (075)	520-75	521-75	7.87 (200)	520-125	521-125	14.76 (375)	520-125	521-125
3.94 (100)	520-100	521-100	8.86 (225)	520-125	521-125	15.24 (387)	520-125	521-125
4.92 (125)	520-125	521-125	9.84 (250)	520-125	521-125	17.723 (450)	520-125	521-125

Special solutions for long travel
 System P4 - rol e-chain® - Series P4-80
 Installation Dimensions



Mounting brackets pivoting - Recommended for rolling applications on long travels

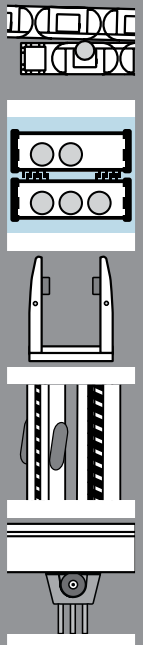
Width Index	Part No. full set for Fixed end and moving end	<i>Bi</i> in. (mm)	Dim. A in. (mm)
18- ➤	P4-80100-54-VS-E45	7.09 (180)	6.30 (160)
20- ➤	P4-80100-54-VS-E45	7.87 (200)	7.09 (180)
25- ➤	P4-80100-54-VS-E45	9.84 (250)	9.06 (230)
30- ➤	P4-80100-54-VS-E45	11.81 (300)	11.02 (280)
35- ➤	P4-80100-54-VS-E45	13.78 (350)	12.99 (330)
40- ➤	P4-80100-54-VS-E45	15.75 (400)	14.96 (380)

The mounting brackets for P4 e-chains® consist of a steel mounting bracket at the moving end and a polymer mounting bracket at the fixed end. This ensure that the rollers move over a plain surface at the fixed end.

Strain relief, clamps, tiwrap plates, and clip-on solutions are available from stock.

For the complete Chainfix range refer to ➤ Chapter 10

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains





E4/4

rol e-chain®

Long travels up to 2,625 ft. (800m),
rolling instead of gliding



Advantages E4/4 rol e-chain®

- Special solution for long travels
- 75% less drive power, rolling
- Reduction of drive power needed to move the e-chain®
- Long travels up to 2,625 ft. (800m) with E4/4 rol e-chain®
- Speeds up to 19.69 ft/s (6m/s) possible
- Various roller types for optimum application adaption
- Can be used in dirty environments



When to use another e-chain® series:

- For very high fill weights for long travels
 - ▶ E4/4HD heavy-duty
- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
 - ▶ P4 system
- When you want a self-guiding e-chain system® without any guide troughs
 - ▶ autoglide



Special solutions for long travel E4/4 rol e-chain® Rolling instead of gliding

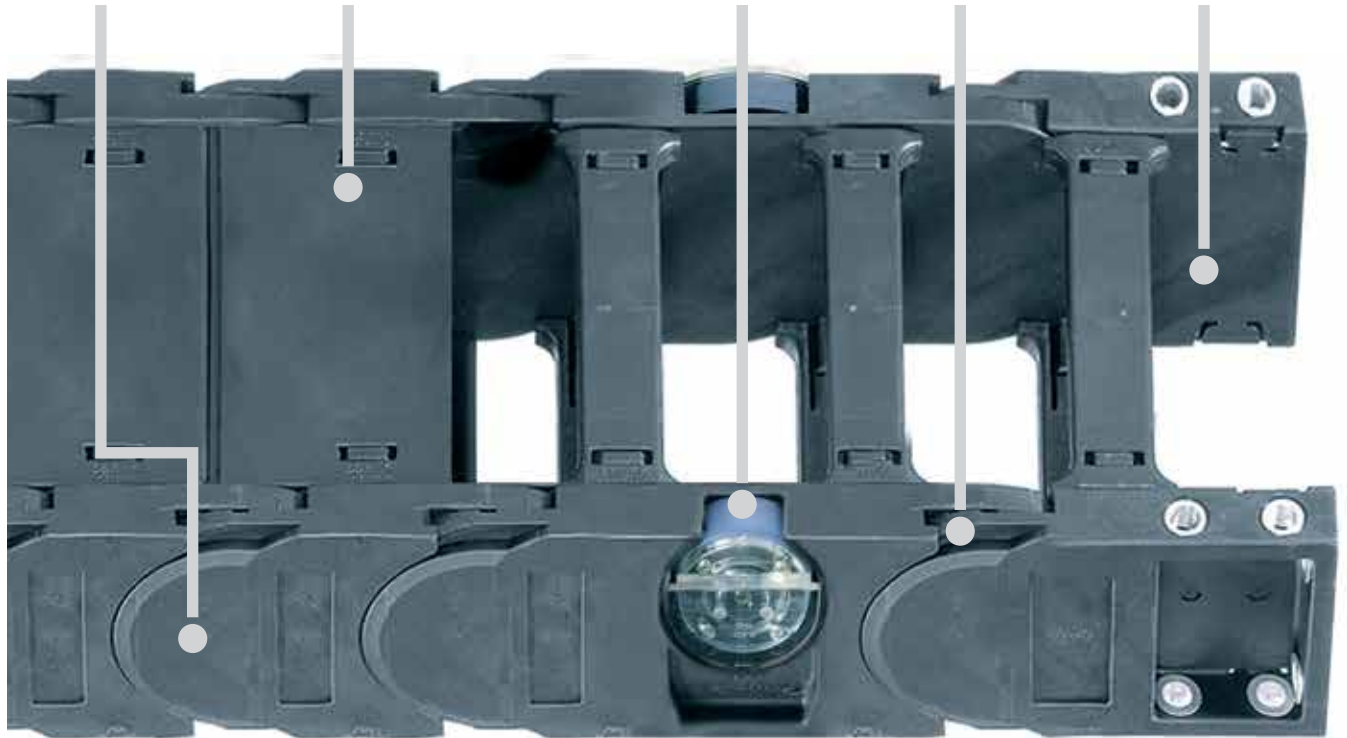
High push/pull forces:
Large bolt connection

Quick to fill:
Lids open on both sides,
flip open in the outer
radius

Long life:
High-strength rollers,
quiet design, stainless
steel ball bearings

High stability:
Torsional stiffness
through undercut
design

Universal:
KMA with attachment
points on all sides



Long travels up to 2,625 ft. (800 m), rolling instead of gliding - rol e-chain®

Conventionally designed e-chains® are operated in the glide mode on long travels. The reason for developing the igus® rol e-chain® was the necessity to extend the technical limits of this operating mode. The demands on e-chains® for long travels have increased steadily in recent years. Travels of 2,625 ft. (800 m) also pose new challenges in crane building such as high travel speeds and low noise with extreme cable loads.

Please contact us if you have decided for this product. We'll assist you in the project planning!

- Major reduction in drive power for moving the e-chain®
- Travels up to 2,625 ft. (800 m) possible
- Speeds up to 19.69 ft/s (6 m/s) possible
- Various roller types for optimum application adaption
- Can be used even in dirty environments
- Available as ready-to-fit, made-to-specifications system with system guarantee

Typical industries and applications

- Cranes
- Warehousing
- Equipment manufacturing
- Gantry robots
- Material handling
- Mining
- Construction machinery

Special solutions for long travel

E4/4 rol e-chain®

Selection Table - Technical Data

Series	Inner height <i>hi</i> in. (mm)	Inner width <i>Bi</i> in. (mm)	Outer width <i>Ba</i> in. (mm)	Outer height <i>ha</i> in. (mm)	Bending radius <i>R</i> in. (mm)	Maximum Travel ft. (m)
--------	---------------------------------------	--------------------------------------	--------------------------------------	---------------------------------------	----------------------------------------	------------------------------



**rol e-chain® -
with crossbars every link
for the most demanding applications**

2828R	1.26 (32)	1.97-15.75 (50-400)	2.91-16.69 (74-424)	2.13 (54)	4.92-11.81 (125-300)**	820 (250)
3838R	1.65 (42)	1.97-15.75 (50-400)	3.03-16.81 (77-427)	2.52 (64)	5.91-13.78 (150-350)**	1,082 (330)
4040R	2.20 (56)	1.97-23.62 (50-600)	3.39-25.04 (86-636)	3.31 (84)	7.87-19.69 (200-500)**	1,641 (500)
5050R	3.15 (80)	1.97-23.62 (50-600)	3.94-25.59 (100-650)	4.25 (108)	9.84-19.69 (250-500)**	1,969 (600)



**rol e-chain® -
E-Tubes fully enclosed,
excellent cable protection**

7728R	1.26 (32)	1.97-11.81 (50-300)	2.91-16.69 (74-424)	2.13 (54)	9.84-11.81 (250-300)	820 (250)
7838R	1.65 (42)	1.97-11.81 (50-300)	3.03-16.81 (77-327)	2.52 (64)	4.92-13.78 (200-350)	1,082 (330)
8840R	2.20 (56)	2.95-18.19 (75-462)	4.37-19.65 (111-499)	3.31 (84)	11.81-19.69 (300-500)	1,641 (500)
9850R	3.15 (80)	2.95-18.19 (75-462)	4.92-20.20 (125-513)	4.25 (108)	11.81-39.37 (300-1000)	1,969 (600)



**rol e-chain® -
with crossbars every link, Heavy Duty
For very long travels with high additional
fill weights**

4040RHD*	2.20 (56)	1.97-23.62 (50-600)	4.09-25.75 (104-654)	3.31 (84)	7.87-15.75 (200-400)	1,969 (600)
5050RHD*	3.15 (80)	1.97-23.62 (50-600)	4.33-25.98 (110-660)	4.25 (108)	9.84-19.69 (250-500)	2,625 (800)

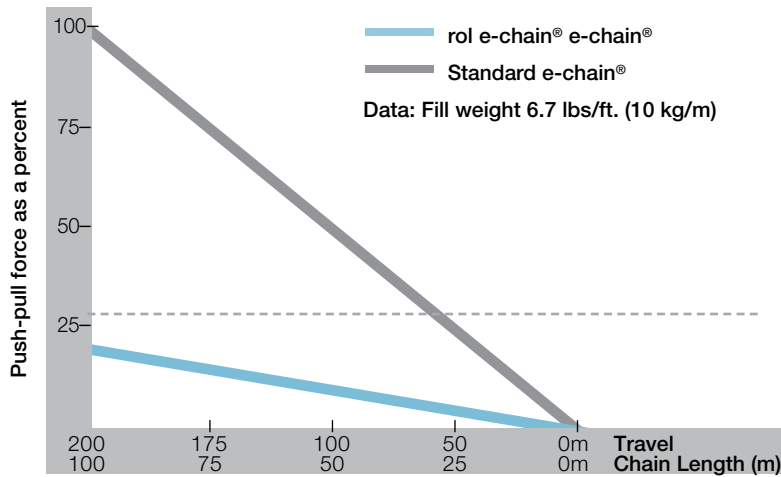
**Smaller bending radii (only For e-chains®) available upon request, please consult igus® for delivery time.

Product Range rol e-chain®

Interior heights of 1.26", 1.65", 2.20", and 3.15" (32, 42, 56, and 80 mm) can be supplied from stock. All interior separation and mounting bracket options of the igus® System E4 are available. The standard guide troughs of the various chains from stock can be used. rol e-chains® can be opened on both sides. The rol e-chain® is available as a made-to-spec e-chain systems®. chainflex® cables can be harnessed in rol e-chain to your specifications by igus® specialists and are packaged in an

installation-friendly manner. Depending on the rol e-chain length it can be delivered on a drum. If cables from the chainflex® product line are to be used, we will also be happy to provide a guarantee for the entire system. **Systems of this type should be designed by our system design engineers. We will be more than willing to submit an offer to you. Please contact igus®.**

Reduce push/pull forces by over 75% with igus® rol e-chain



The rol e-chain® roller e-chain® compared with a conventional e-chain system®



Shipyard-Crane: 590.5 ft. (180 m) travel, 20.16 lbs/ft (30 kg/m) fill weight: No problems since installation in 2001 with igus® rol e-chain®

Special solutions for long travel
E4/4 rol e-chain®



Rol E-Chain®



igus® rol e-chain® Series 5050R in a steel plant in India with highly corrosive atmosphere -
Travel = 72 ft. (22 m), $v = 3.28 \text{ ft/s}$ (1 m/s), $a = 3.28 \text{ ft/s}^2$ (1 m/s²)



Power plant application with igus® rol e-chain® 4040R -
Travel 151 ft. (46 m), Speed 4.92 ft/s (1.5 m/s), Fill weight 3.56 lbs/ft (5.3 kg/m)



Assembled system in a ship unloading crane with igus® 5050RHD - Travel 248 ft. (106 m), Speed 13.12 ft/s (4 m/s), Fill weight 16.8 lbs/ft (25 kg/m)



Series 4040R on a coal unloading system -
Travel 623 ft. (190 m), Speed 1.6 ft/s (0.5 m/s), Fill weight 5.41 lbs/ft (8.05 kg/m)

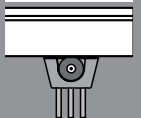
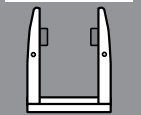
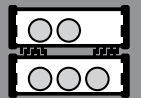
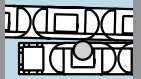


Series 4040R in steel works environment -
Travel 34.5 ft. (10.5 m), Speed 197 ft/min (60 m/min), Fill weight 4.09 lbs/ft (6.084 kg/m)



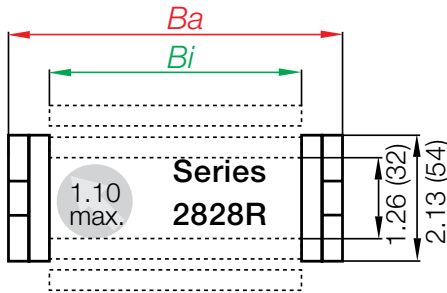
igus® e-chains® 5050RHD rol e-chain® in an igus® Aluminum SuperTrough = 75% less driving power

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 2828R - crossbars every link, openable along both radii
Series 7728R - fully enclosed, hinged, snap-open removable lids

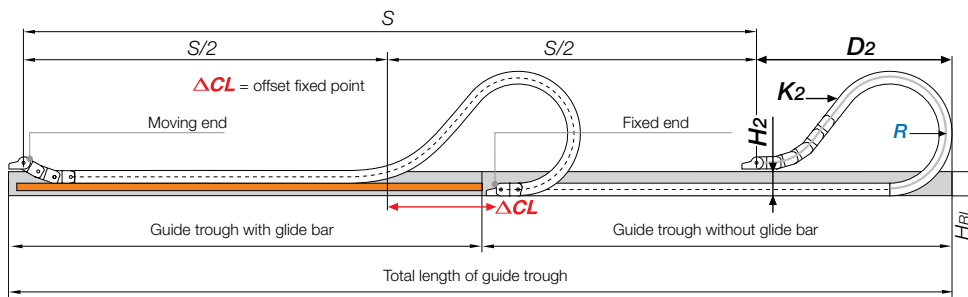


Sliding applications

Long travel lengths up to 820 ft. (250 m) fill weight up to 4.03 lbs/ft (6 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



Legend

- S = Length of travel
- R = Bending radius
- H₁ = Trough inner height
- H₂ = *Mounting height
- D₂ = Overlength - long travels, gliding
- K₂ = *Add-on

R	4.92 (125**)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
H ₁ +10	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D ₂ +50	22.64 (575)	27.56 (700)	33.27 (845)	37.80 (960)	40.94 (1040)	50.00 (1270)	60.63 (1540)
K ₂	35.28 (896)	41.89 (1064)	50.71 (1288)	57.32 (1456)	63.94 (1624)	74.96 (1904)	90.39 (2296)
ΔCL	10.63 (270)	14.96 (380)	19.29 (490)	23.62 (600)	27.56 (700)	33.07 (840)	41.54 (1055)

Pitch per link: = 2.20" (56 mm)
Links per ft (m): = 5.48 (18)
For center mount applications:
Chain length: = $\frac{S}{2} + K_2$

** This radius not available for E-Tubes

Available Accessories



Optimized, cable-friendly interior separation program



Pivoting KMA mounting bracket with all-sides attachment



Steel mounting brackets, pivoting, robust and electrically conductive



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 820 ft. (250 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

Special solutions for long travel

E4/4 rol e-chain® - Series 2828R/7728R

Installation Dimensions



2828R
7728R

Supplement part number with required radius. Example: 2828R-30-300-0

Pitch: 2.20 in. (56mm) per link links/ft (m) = 5.49 (18)



Part Number				Weight		
Crossbars	Tube		<i>Bi</i>	<i>Ba</i>	2828R	7728R
Every Link	Version		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
2828R-05-	¹⁾ 7728R-05-	<input type="checkbox"/> -0	1.97 (50)	2.91 (74)	≈ 1.16 (1.73)	≈ 1.76 (2.63)
2828R-06-		<input type="checkbox"/> -0	2.68 (68)	3.62 (92)	≈ 1.20 (1.79)	-
2828R-07-	7728R-07-	<input type="checkbox"/> -0	2.95 (75)	3.90 (99)	≈ 1.24 (1.84)	≈ 1.84 (2.75)
2828R-087-		<input type="checkbox"/> -0	3.43 (87)	4.37 (111)	≈ 1.30 (1.93)	-
2828R-097		<input type="checkbox"/> -0	3.82 (97)	4.72 (120)	≈ 1.34 (1.99)	-
2828R-10-	7728R-10-	<input type="checkbox"/> -0	3.94 (100)	4.88 (124)	≈ 1.36 (2.02)	≈ 1.90 (2.83)
2828R-11-	7728R-11-	<input type="checkbox"/> -0	4.25 (108)	5.20 (132)	≈ 1.40 (2.08)	≈ 1.98 (2.94)
2828R-112-		<input type="checkbox"/> -0	4.41 (112)	5.39 (137)	≈ 1.44 (2.15)	-
2828R-12-	7728R-12-	<input type="checkbox"/> -0	4.92 (125)	5.87 (149)	≈ 1.48 (2.20)	≈ 2.04 (3.03)
2828R-137-		<input type="checkbox"/> -0	5.39 (137)	6.38 (162)	≈ 1.54 (2.29)	-
2828R-15-	7728R-15-	<input type="checkbox"/> -0	5.91 (150)	6.85 (174)	≈ 1.60 (2.38)	≈ 2.14 (3.19)
2828R-162-		<input type="checkbox"/> -0	6.38 (162)	7.36 (187)	≈ 1.64 (2.44)	-
2828R-17-	7728R-17-	<input type="checkbox"/> -0	6.61 (168)	7.56 (192)	≈ 1.69 (2.51)	≈ 2.28 (3.39)
2828R-18-		<input type="checkbox"/> -0	6.89 (175)	7.83 (199)	≈ 1.72 (2.56)	-
2828R-187-		<input type="checkbox"/> -0	7.36 (187)	8.35 (212)	≈ 1.78 (2.65)	-
2828R-20-	7728R-20-	<input type="checkbox"/> -0	7.87 (200)	8.82 (224)	≈ 1.84 (2.74)	≈ 2.41 (3.59)
2828R-212-		<input type="checkbox"/> -0	8.35 (212)	9.33 (237)	≈ 1.93 (2.87)	-
2828R-23-		<input type="checkbox"/> -0	8.86 (225)	9.80 (249)	≈ 1.96 (2.92)	-
2828R-237-		<input type="checkbox"/> -0	9.33 (237)	10.31 (262)	≈ 2.05 (3.05)	-
2828R-25-	7728R-25-	<input type="checkbox"/> -0	9.84 (250)	10.79 (274)	≈ 2.08 (3.10)	≈ 2.72 (4.04)
2828R-262-		<input type="checkbox"/> -0	10.31 (262)	11.26 (286)	≈ 2.14 (3.19)	-
2828R-28		<input type="checkbox"/> -0	10.83 (275)	11.77 (299)	≈ 2.20 (3.28)	-
2828R-29-		<input type="checkbox"/> -0	11.30 (287)	12.28 (312)	≈ 2.26 (3.37)	-
2828R-30-	7728R-30-	<input type="checkbox"/> -0	11.81 (300)	12.76 (324)	≈ 2.33 (3.46)	≈ 2.98 (4.43)
2828R-312-		<input type="checkbox"/> -0	12.28 (312)	13.27 (337)	≈ 2.41 (3.59)	-
2828R-325-		<input type="checkbox"/> -0	12.79 (325)	13.74 (349)	≈ 2.47 (3.68)	-
2828R-337-		<input type="checkbox"/> -0	13.27 (337)	14.25 (362)	≈ 2.53 (3.77)	-
2828R-350-		<input type="checkbox"/> -0	13.78 (350)	14.72 (374)	≈ 2.59 (3.86)	-
2828R-362-		<input type="checkbox"/> -0	14.25 (362)	15.24 (387)	≈ 2.65 (3.95)	-
2828R-375-		<input type="checkbox"/> -0	14.76 (375)	15.71 (399)	≈ 2.72 (4.04)	-
2828R-387-		<input type="checkbox"/> -0	15.24 (387)	16.22 (412)	≈ 2.76 (4.11)	-
2828R-400		<input type="checkbox"/> -0	15.75 (400)	16.69 (424)	≈ 2.81 (4.18)	-

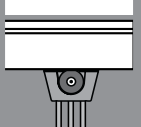
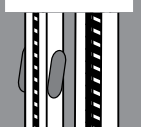
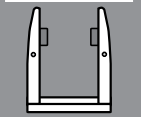
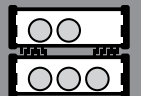
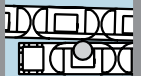
Choose from the radii below for all of the above sizes
Radius (mm) Example: 2828R-30-300-0

	125**	150	175	200	220	250	300
R	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
H: +10	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D: +50	22.64 (575)	27.56 (700)	33.27 (845)	37.80 (960)	40.94 (1040)	50.00 (1270)	60.63 (1540)
K:	35.28 (896)	41.89 (1064)	50.71 (1288)	57.32 (1456)	63.94 (1624)	74.96 (1904)	90.39 (2296)

** This radius not available for E-Tubes

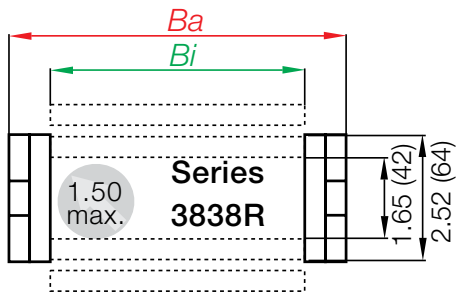
¹⁾ Removable lid only, no hinged option

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 3838R - crossbars every link, openable along both radii
Series 7838R - fully enclosed, hinged, snap-open removable lids

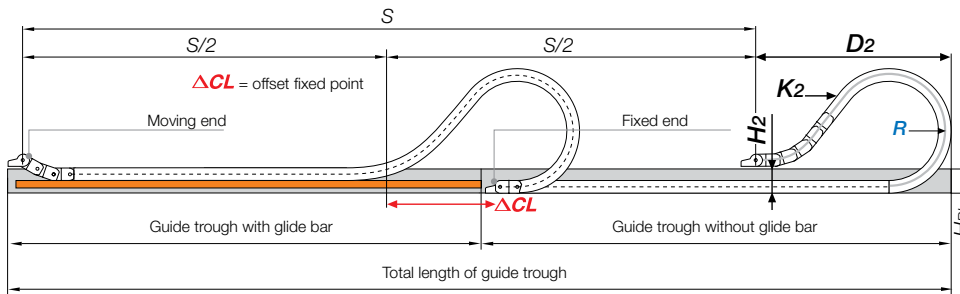


Sliding applications

Long travel lengths up to 1,083 ft. (330 m), Fill weights up to 4.70 lbs/ft (7 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



Legend

- S = Length of travel
- R = Bending radius
- H₁ = Trough inner height
- H₂ = *Mounting height
- D₂ = Overlength - long travels, gliding
- K₂ = *Add-on

R	5.91 (150**)	6.69 (170**)	7.87 (200)	8.46 (215)	9.84 (250)	11.81 (300)	13.78 (350)
H ₁ +10	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
D ₂ +50	26.77 (680)	32.28 (820)	39.76 (1010)	40.55 (1030)	49.02 (1245)	64.17 (1630)	72.05 (1830)
K ₂	42.13 (107)	50.12 (1273)	60.67 (1541)	63.31 (1608)	73.86 (1876)	97.60 (2479)	108.15 (2747)
ΔCL	13.58 (345)	17.91 (455)	24.02 (610)	23.38 (670)	32.48 (825)	42.32 (1075)	50.59 (1285)

Pitch per link: = 2.64" (67 mm)
Links per ft (m): = 4.57 (15)
For center mount applications:
Chain length = $\frac{S}{2} + K$

** This radius not available for E-Tubes

Available Accessories



Optimized, cable-friendly interior separation program



Pivoting KMA mounting bracket with all-sides attachment



Steel mounting brackets, pivoting, robust and electrically conductive



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 1,083 ft. (330 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

Special solutions for long travel

E4/4 rol e-chain® - Series 3838R/R7838R

Installation Dimensions



3838R
7838R

Supplement part number with required radius. Example: 3838R-30--0
Pitch: 2.64 in. (67mm) per link, links/ft (m) = 4.57 (15)



Part Number			Weight			
Crossbars	Tube		<i>Bi</i>	<i>Ba</i>	3838R	7838R
Every Link	Version		in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
3838R-05-	¹⁾ 7838R-05-	<input type="text" value=""/> -0	1.97 (50)	3.03 (77)	≈ 1.38 (2.06)	≈ 1.51 (2.25)
3838R-06-		<input type="text" value=""/> -0	2.68 (68)	3.74 (95)	≈ 1.40 (2.09)	–
3838R-07-	7838R-07-	<input type="text" value=""/> -0	2.95 (75)	4.02 (102)	≈ 1.42 (2.12)	≈ 1.60 (2.38)
3838R-087-		<input type="text" value=""/> -0	3.43 (87)	4.53 (115)	≈ 1.47 (2.18)	–
3838R-097-		<input type="text" value=""/> -0	3.82 (97)	4.84 (123)	≈ 1.50 (2.23)	–
3838R-10-	7838R-10-	<input type="text" value=""/> -0	3.94 (100)	5.00 (127)	≈ 1.51 (2.25)	≈ 1.75 (2.60)
3838R-11-	7838R-11-	<input type="text" value=""/> -0	4.25 (108)	5.31 (135)	≈ 1.55 (2.30)	≈ 1.78 (2.65)
3838R-112-		<input type="text" value=""/> -0	4.41 (112)	5.51 (140)	≈ 1.55 (2.30)	–
3838R-12-	7838R-12-	<input type="text" value=""/> -0	4.92 (125)	5.98 (152)	≈ 1.61 (2.40)	≈ 1.89 (2.81)
3838R-137-		<input type="text" value=""/> -0	5.39 (137)	6.50 (165)	≈ 1.64 (2.44)	–
3838R-15-	7838R-15-	<input type="text" value=""/> -0	5.91 (150)	6.97 (177)	≈ 1.70 (2.53)	≈ 2.06 (3.07)
3838R-162-		<input type="text" value=""/> -0	6.38 (162)	7.48 (190)	≈ 1.71 (2.55)	–
3838R-17-	7838R-17-	<input type="text" value=""/> -0	6.61 (168)	7.68 (195)	≈ 1.76 (2.62)	≈ 2.18 (3.24)
3838R-18-		<input type="text" value=""/> -0	6.89 (175)	7.95 (202)	≈ 1.76 (2.62)	–
3838R-187-		<input type="text" value=""/> -0	7.36 (187)	8.46 (215)	≈ 1.81 (2.69)	–
3838R-20-	7838R-20-	<input type="text" value=""/> -0	7.87 (200)	8.94 (227)	≈ 1.86 (2.77)	≈ 2.37 (3.53)
3838R-212-		<input type="text" value=""/> -0	8.35 (212)	9.45 (240)	≈ 1.91 (2.84)	–
3838R-23-		<input type="text" value=""/> -0	8.86 (225)	9.92 (252)	≈ 1.96 (2.92)	–
3838R-237-		<input type="text" value=""/> -0	9.33 (237)	10.43 (265)	≈ 1.99 (2.96)	–
3838R-25-	7838R-25-	<input type="text" value=""/> -0	9.84 (250)	10.91 (277)	≈ 2.05 (3.05)	≈ 2.91 (4.33)
3838R-262-		<input type="text" value=""/> -0	10.31 (262)	11.42 (290)	≈ 2.06 (3.06)	–
3838R-28		<input type="text" value=""/> -0	10.83 (275)	11.89 (302)	≈ 2.13 (3.17)	–
3838R-29-		<input type="text" value=""/> -0	11.30 (287)	12.40 (315)	≈ 2.14 (3.19)	–
3838R-30-	7838R-30-	<input type="text" value=""/> -0	11.81 (300)	12.87 (327)	≈ 2.23 (3.32)	≈ 3.29 (4.89)
3838R-312-		<input type="text" value=""/> -0	12.28 (312)	13.39 (340)	≈ 2.24 (3.34)	–
3838R-325-		<input type="text" value=""/> -0	12.79 (325)	13.86 (352)	≈ 2.29 (3.41)	–
3838R-337-		<input type="text" value=""/> -0	13.27 (337)	14.37 (365)	≈ 2.33 (3.46)	–
3838R-350-		<input type="text" value=""/> -0	13.78 (350)	15.41 (377)	≈ 2.47 (3.68)	–
3838R-362-		<input type="text" value=""/> -0	14.25 (362)	15.36 (390)	≈ 2.51 (3.74)	–
3838R-375-		<input type="text" value=""/> -0	14.76 (375)	15.83 (402)	≈ 2.55 (3.79)	–
3838R-387-		<input type="text" value=""/> -0	15.24 (387)	16.34 (415)	≈ 2.59 (3.85)	–
3838R-400		<input type="text" value=""/> -0	15.75 (400)	16.81 (427)	≈ 2.62 (3.90)	–

Choose from the radii below for all of the above sizes

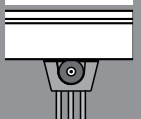
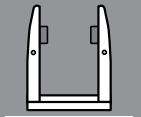
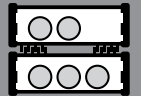
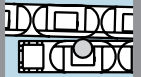
Radius (mm) Example: 3838R-30--0

	150**	170**	200	215	250	300	350
R	5.91 (150)	6.69 (170)	7.87 (200)	8.46 (215)	9.84 (250)	11.81 (300)	13.78 (350)
H: +10	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
D: +50	26.77 (680)	32.28 (820)	39.76 (1010)	40.55 (1030)	49.02 (1245)	64.17 (1630)	72.05 (1830)
K:	42.13 (107)	50.12 (1273)	60.67 (1541)	63.31 (1608)	73.86 (1876)	97.60 (2479)	108.15 (2747)

** This radius not available for E-Tubes

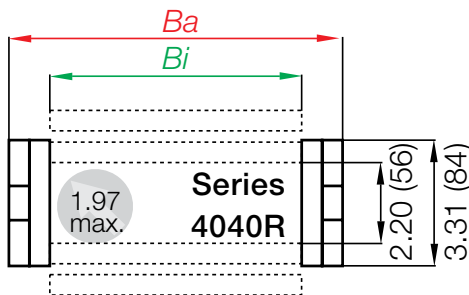
¹⁾ Removable lid only, no hinged option

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 4040R - crossbars every link, openable along both radii
Series 8840R - fully enclosed, hinged, snap-open removable lids

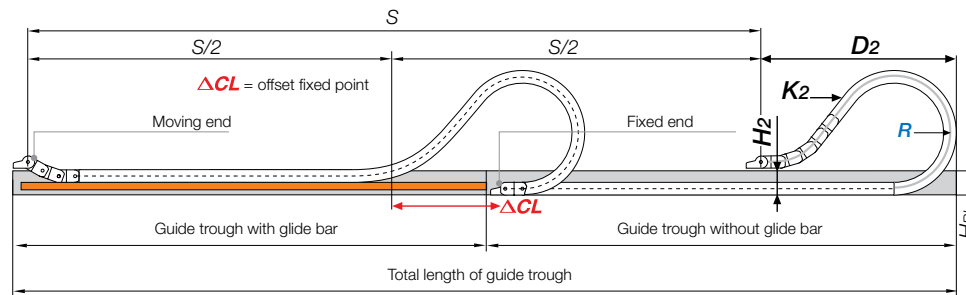


Sliding applications

Long travel lengths up to 1,641 ft. (500 m), Fill weights up to 8.74 lbs/ft (13 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



Legend

- S = Length of travel
- R = Bending radius
- H₂ = Trough inner height
- H₁ = *Mounting height
- D₂ = Overlength - long travels, gliding
- K₂ = *Add-on

R	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)
H ₂ +10	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D ₂ +50	48.43 (1230)	53.94 (1370)	62.99 (1600)	72.83 (1850)	81.50 (2070)
K ₂	71.65 (1820)	85.98 (2184)	100.31 (2548)	114.65 (2912)	128.98 (3276)
ΔCL	20.67 (525)	27.95 (710)	35.43 (900)	42.91 (1090)	50.20 (1275)

Pitch per link = 3.58" (91 mm)

Links per ft (m) = 3.35 (11)

For center mount applications:

Chain length = $\frac{S}{2} + K$

Available Accessories



Optimized, cable-friendly interior separation program



Pivoting KMA mounting bracket with all-sides attachment



Steel mounting brackets, pivoting, robust and electrically conductive



Extension links - for extremely wide e-chains® up to 9.84 ft. (3.0 m)



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 1,641 ft. (500 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

E4/4 rol e-chain® - Series 4040R/R8840R

Installation Dimensions



4040R
8840R

Supplement part number with required radius. Example: 4040R-30-300-0
Pitch: 3.58 in. (91mm) per link links/ft (m) = 3.35 (11)



Part Number			<i>Bi</i>	<i>Ba</i>	Weight	
Crossbars	Tube		in. (mm)	in. (mm)	4040R	8840R
Every Link	Version				lbs/ft (kg/m)	lbs/ft (kg/m)
4040R-05-		<input type="checkbox"/> -0	1.97 (50)	3.39 (86)	≈ 2.45 (3.65)	–
4040R-06-		<input type="checkbox"/> -0	2.56 (65)	3.98 (101)	≈ 2.47 (3.67)	–
4040R-07-	¹ 8840R-07-	<input type="checkbox"/> -0	2.95 (75)	4.37 (111)	≈ 2.54 (3.78)	≈ 2.85 (4.24)
4040R-08-		<input type="checkbox"/> -0	3.43 (87)	4.84 (123)	≈ 2.57 (3.83)	–
4040R-10-	8840R-10-	<input type="checkbox"/> -0	3.94 (100)	5.35 (136)	≈ 2.66 (3.96)	≈ 3.04 (4.52)
4040R-11-		<input type="checkbox"/> -0	4.41 (112)	5.87 (149)	≈ 2.75 (4.09)	–
4040R-12-	8840R-12-	<input type="checkbox"/> -0	4.92 (125)	6.34 (161)	≈ 2.80 (4.16)	≈ 3.28 (4.88)
4040R-13-		<input type="checkbox"/> -0	5.39 (137)	6.85 (174)	≈ 2.88 (4.29)	–
4040R-15-	8840R-15-	<input type="checkbox"/> -0	5.91 (150)	7.32 (186)	≈ 2.93 (4.36)	≈ 3.57 (5.31)
4040R-16-		<input type="checkbox"/> -0	6.38 (162)	7.83 (199)	≈ 3.00 (4.47)	–
4040R-17-	8840R-17	<input type="checkbox"/> -0	6.89 (175)	8.31 (211)	≈ 3.08 (4.58)	≈ 3.74 (5.56)
4040R-18-		<input type="checkbox"/> -0	7.36 (187)	8.81 (224)	≈ 3.15 (4.69)	–
4040R-20-	8840R-20-	<input type="checkbox"/> -0	7.87 (200)	9.29 (236)	≈ 3.17 (4.71)	≈ 3.96 (5.89)
4040R-21-		<input type="checkbox"/> -0	8.35 (212)	9.80 (249)	≈ 3.24 (4.82)	–
4040R-22-		<input type="checkbox"/> -0	8.86 (225)	10.28 (261)	≈ 3.28 (4.88)	–
4040R-23-		<input type="checkbox"/> -0	9.33 (237)	10.79 (274)	≈ 3.37 (5.02)	–
4040R-25-	8840R-25-	<input type="checkbox"/> -0	9.84 (250)	11.26 (286)	≈ 3.43 (5.10)	≈ 4.44 (6.61)
4040R-26-		<input type="checkbox"/> -0	10.31 (262)	11.77 (299)	≈ 3.49 (5.19)	–
4040R-27-	8840R-27	<input type="checkbox"/> -0	10.83 (275)	12.24 (311)	≈ 3.56 (5.30)	≈ 4.63 (6.89)
4040R-28-		<input type="checkbox"/> -0	11.30 (287)	12.76 (324)	≈ 3.58 (5.32)	–
4040R-30-	8840R-30-	<input type="checkbox"/> -0	11.81 (300)	13.23 (336)	≈ 3.72 (5.54)	≈ 4.89 (7.27)
4040R-31-		<input type="checkbox"/> -0	12.28 (312)	13.74 (349)	≈ 3.75 (5.58)	–
4040R-32-		<input type="checkbox"/> -0	12.79 (325)	14.21 (361)	≈ 3.78 (5.63)	–
4040R-33-		<input type="checkbox"/> -0	13.27 (337)	14.72 (374)	≈ 3.90 (5.81)	–
4040R-35-	8840R-35-	<input type="checkbox"/> -0	13.78 (350)	15.20 (386)	≈ 4.01 (5.96)	≈ 5.39 (8.02)
4040R-36-		<input type="checkbox"/> -0	14.25 (362)	15.71 (399)	≈ 4.01 (5.96)	–
4040R-37-		<input type="checkbox"/> -0	14.76 (375)	16.18 (411)	≈ 4.02 (5.98)	–
4040R-38-		<input type="checkbox"/> -0	15.24 (387)	16.69 (424)	≈ 4.08 (6.07)	–
4040R-40-	8840R-40-	<input type="checkbox"/> -0	15.75 (400)	17.17 (436)	≈ 4.21 (6.27)	≈ 6.04 (8.98)
4040R-41-		<input type="checkbox"/> -0	16.22 (412)	17.68 (449)	≈ 4.31 (6.42)	–
4040R-42-		<input type="checkbox"/> -0	16.73 (425)	18.15 (461)	≈ 4.42 (6.58)	–
4040R-43-		<input type="checkbox"/> -0	17.20 (437)	18.66 (474)	≈ 4.46 (6.64)	–
4040R-45-		<input type="checkbox"/> -0	17.72 (450)	19.13 (486)	≈ 4.51 (6.71)	–
4040R-46-	8840R-46-	<input type="checkbox"/> -0	18.19 (462)	19.65 (499)	≈ 4.52 (6.73)	≈ 6.34 (9.44)
4040R-47-		<input type="checkbox"/> -0	18.70 (475)	20.12 (511)	≈ 4.61 (6.86)	–
4040R-48-		<input type="checkbox"/> -0	19.17 (487)	20.63 (524)	≈ 4.63 (6.88)	–
4040R-50-		<input type="checkbox"/> -0	19.69 (500)	21.10 (536)	≈ 4.70 (7.00)	–
4040R-51-		<input type="checkbox"/> -0	20.16 (512)	21.61 (549)	≈ 4.72 (7.02)	–
4040R-52-		<input type="checkbox"/> -0	20.67 (525)	22.09 (561)	≈ 4.74 (7.06)	–
4040R-53-		<input type="checkbox"/> -0	21.14 (537)	22.60 (574)	≈ 4.85 (7.22)	–
4040R-55-		<input type="checkbox"/> -0	21.65 (550)	23.07 (586)	≈ 5.17 (7.70)	–
4040R-60-		<input type="checkbox"/> -0	23.62 (600)	25.04 (636)	≈ 5.31 (7.90)	–

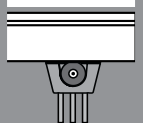
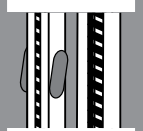
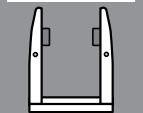
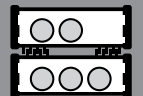
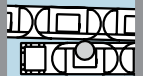
Choose from the radii below for all of the above sizes
Radius (mm) Example: 4040R-30-300-0

	200**	250**	300	350	400
R	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)
H: ⁺¹⁰	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D: ⁺⁵⁰	48.43 (1230)	53.94 (1370)	62.99 (1600)	72.83 (1850)	81.50 (2070)
K:	71.65 (1820)	85.98 (2184)	100.31 (2548)	114.65 (2912)	128.98 (3276)

** This radius not available for E-Tubes

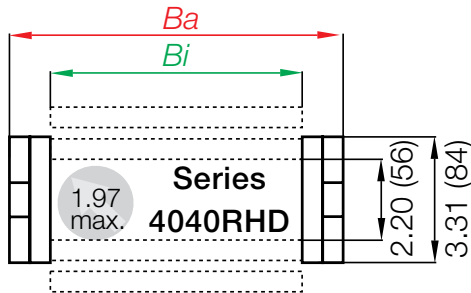
¹ Removable lid only, no hinged option

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



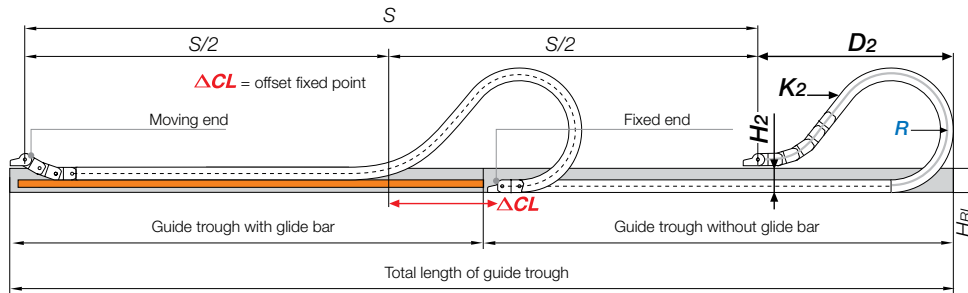


Series 4040RHD - crossbars every link, openable along both radii



Sliding applications

Long travel lengths up to 1,969 ft. (600 m), Fill weights up to 10.75 lbs/ft (16 kg/m)
In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.
NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



R	7.87 (200**)	9.84 (250**)	11.81 (300)	13.78 (350)	15.75 (400)
H _i +10	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D _i +50	45.08 (1145)	54.72 (1390)	63.78 (1620)	73.62 (1870)	82.48 (2095)
K _i	71.65 (1820)	85.98 (2184)	100.31 (2548)	114.65 (2912)	128.98 (3276)
ΔCL	20.67 (525)	27.95 (710)	35.43 (900)	42.91 (1090)	50.20 (1275)

Pitch per link: = 3.58" (91 mm)
Links per ft (m): = 3.35 (11)
For center mount applications:
Chain length = $\frac{S}{2} + K$

Legend

- S = Length of travel
- R = Bending radius
- H_i = Trough inner height
- D_i = *Mounting height
- D = Overlength - long travels, gliding
- K_i = *Add-on

Available Accessories



Optimized, cable-friendly interior separation program



Steel mounting brackets, pivoting, robust and electrically conductive



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 1,969 ft. (600 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

E4/4 rol e-chain® - Series 4040RHD

Installation Dimensions



4040RHD

Supplement part number with required radius. Example: 4040RHD-30--0
Pitch: 3.58 in. (91 mm) per link links/ft (m) = 3.35 (11)



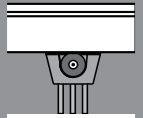
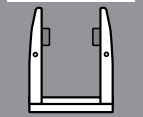
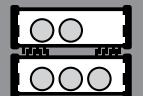
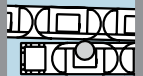
Part Number	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft (kg/m)
4040RHD-05- <input type="text" value="05"/> -0	1.97 (50)	4.09 (104)	≈ 3.38 (5.03)
4040RHD-06- <input type="text" value="06"/> -0	2.56 (65)	4.69 (119)	≈ 3.44 (5.12)
4040RHD-07- <input type="text" value="07"/> -0	2.95 (75)	5.08 (129)	≈ 3.49 (5.19)
4040RHD-08- <input type="text" value="08"/> -0	3.43 (87)	5.55 (141)	≈ 3.54 (5.27)
4040RHD-10- <input type="text" value="10"/> -0	3.94 (100)	6.06 (154)	≈ 3.60 (5.36)
4040RHD-11- <input type="text" value="11"/> -0	4.41 (112)	6.54 (166)	≈ 3.68 (5.48)
4040RHD-12- <input type="text" value="12"/> -0	4.92 (125)	7.05 (179)	≈ 3.74 (5.56)
4040RHD-13- <input type="text" value="13"/> -0	5.39 (137)	7.52 (191)	≈ 3.82 (5.69)
4040RHD-15- <input type="text" value="15"/> -0	5.91 (150)	8.03 (204)	≈ 3.85 (5.73)
4040RHD-16- <input type="text" value="16"/> -0	6.38 (162)	8.50 (216)	≈ 3.92 (5.84)
4040RHD-17- <input type="text" value="17"/> -0	6.89 (175)	9.02 (229)	≈ 4.01 (5.97)
4040RHD-18- <input type="text" value="18"/> -0	7.36 (187)	9.49 (241)	≈ 4.09 (6.09)
4040RHD-20- <input type="text" value="20"/> -0	7.87 (200)	10.00 (254)	≈ 4.13 (6.14)
4040RHD-21- <input type="text" value="21"/> -0	8.35 (212)	10.47 (266)	≈ 4.17 (6.21)
4040RHD-22- <input type="text" value="22"/> -0	8.86 (225)	10.98 (279)	≈ 4.22 (6.28)
4040RHD-23- <input type="text" value="23"/> -0	9.33 (237)	11.46 (291)	≈ 4.29 (6.39)
4040RHD-25- <input type="text" value="25"/> -0	9.84 (250)	11.97 (304)	≈ 4.37 (6.50)
4040RHD-26- <input type="text" value="26"/> -0	10.31 (262)	12.44 (316)	≈ 4.43 (6.59)
4040RHD-27- <input type="text" value="27"/> -0	10.83 (275)	12.95 (329)	≈ 4.50 (6.70)
4040RHD-28- <input type="text" value="28"/> -0	11.30 (287)	13.43 (341)	≈ 4.54 (6.75)
4040RHD-30- <input type="text" value="30"/> -0	11.81 (300)	13.94 (354)	≈ 4.64 (6.91)
4040RHD-31- <input type="text" value="31"/> -0	12.28 (312)	14.41 (366)	≈ 4.66 (6.94)
4040RHD-32- <input type="text" value="32"/> -0	12.79 (325)	14.92 (379)	≈ 4.74 (7.05)
4040RHD-33- <input type="text" value="33"/> -0	13.27 (337)	15.39 (391)	≈ 4.82 (7.17)
4040RHD-35- <input type="text" value="35"/> -0	13.78 (350)	15.91 (404)	≈ 4.95 (7.37)
4040RHD-36- <input type="text" value="36"/> -0	14.25 (362)	16.38 (416)	≈ 4.96 (7.38)
4040RHD-37- <input type="text" value="37"/> -0	14.76 (375)	16.89 (429)	≈ 4.96 (7.38)
4040RHD-38- <input type="text" value="38"/> -0	15.24 (387)	17.36 (441)	≈ 5.03 (7.49)
4040RHD-40- <input type="text" value="40"/> -0	15.75 (400)	17.87 (454)	≈ 5.21 (7.76)
4040RHD-41- <input type="text" value="41"/> -0	16.22 (412)	18.35 (466)	≈ 5.16 (7.68)
4040RHD-42- <input type="text" value="42"/> -0	16.73 (425)	18.86 (479)	≈ 5.36 (7.98)
4040RHD-43- <input type="text" value="43"/> -0	17.20 (437)	19.33 (491)	≈ 5.25 (7.82)
4040RHD-45- <input type="text" value="45"/> -0	17.72 (450)	19.84 (504)	≈ 5.48 (8.15)
4040RHD-46- <input type="text" value="46"/> -0	18.19 (462)	20.31 (516)	≈ 5.44 (8.10)
4040RHD-47- <input type="text" value="47"/> -0	18.70 (475)	20.83 (529)	≈ 5.47 (8.14)
4040RHD-48- <input type="text" value="48"/> -0	19.17 (487)	21.30 (541)	≈ 5.64 (8.39)
4040RHD-50- <input type="text" value="50"/> -0	19.69 (500)	21.81 (554)	≈ 5.70 (8.48)
4040RHD-51- <input type="text" value="51"/> -0	20.16 (512)	22.28 (566)	≈ 5.64 (8.40)
4040RHD-52- <input type="text" value="52"/> -0	20.67 (525)	22.80 (579)	≈ 5.76 (8.57)
4040RHD-53- <input type="text" value="53"/> -0	21.14 (537)	23.27 (591)	≈ 5.82 (8.66)
4040RHD-55- <input type="text" value="55"/> -0	21.65 (550)	23.78 (604)	≈ 6.10 (9.08)
4040RHD-60- <input type="text" value="60"/> -0	23.62 (600)	25.75 (654)	≈ 6.26 (9.31)

Choose from the radii below for all of the above sizes

Radius (mm) Example: 4040RHD-30--0

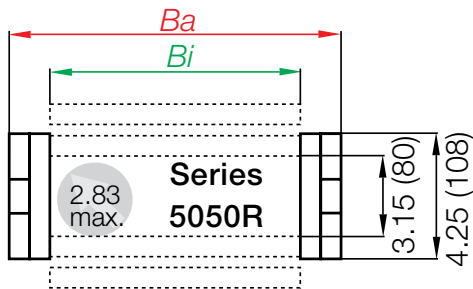
	200	250	300	350	400
R	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)
H:	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)	7.09 (180)
D:	45.08 (1145)	54.72 (1390)	63.78 (1620)	73.62 (1870)	82.48 (2095)
K:	71.65 (1820)	85.98 (2184)	100.31 (2548)	114.65 (2912)	128.98 (3276)

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 5050R - crossbars every link, openable along both radii
Series 9850R - fully enclosed, hinged, snap-open removable lids

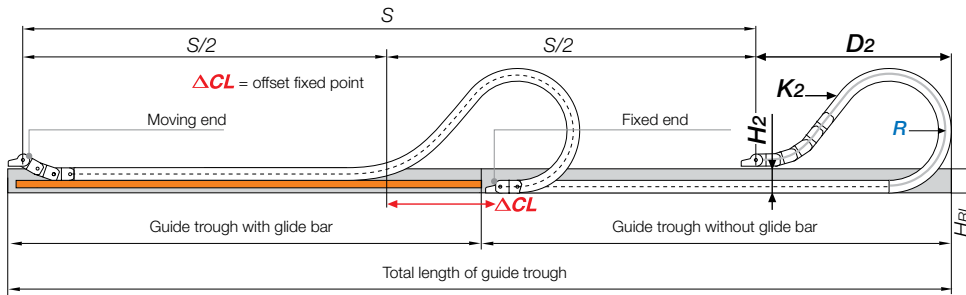


Sliding applications

Long travel lengths up to 1,969 ft. (600 m), Fill weights up to 16.80 lbs/ft (25 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



Legend

- S = Length of travel
- R = Bending radius
- H₂ = Trough inner height
- H = *Mounting height
- D = Overlength - long travels, gliding
- K = *Add-on

R	9.84 (250**)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H ₂ +10	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)
D ₂ +50	49.21 (1250)	61.02 (1550)	67.72 (1720)	78.35 (1990)	96.85 (2460)
K ₂	78.82 (2002)	96.73 (2457)	107.48 (2730)	125.39 (3185)	154.06 (3913)
ΔCL	23.62 (600)	31.50 (800)	38.19 (970)	45.67 (1160)	60.24 (1530)

Pitch per link = 3.58" (91 mm)
Links per ft (m) = 3.35 (11)
For center mount applications:
Chain length = $\frac{S}{2} + K$

Available Accessories



Optimized, cable-friendly interior separation program



Pivoting KMA mounting bracket with all-sides attachment



Steel mounting brackets, pivoting, robust and electrically conductive



Extension links - for extremely wide e-chains® up to 9.84 ft. (3.0 m)



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 1,969 ft. (600 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

E4/4 rol e-chain® - Series 5050R/9850R

Installation Dimensions



5050R
9850R

Supplement part number with required radius. Example: 5050R-30-300-0
Pitch: 3.58 in. (91mm) per link links/ft (m) = 3.35 (11)



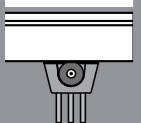
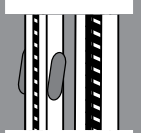
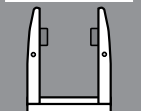
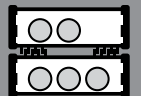
Part Number			Weight			
Crossbars Every Link	Tube Version		<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	5050R lbs/ft (kg/m)	9850R lbs/ft (kg/m)
5050R-05-		<input type="checkbox"/> -0	1.97 (50)	3.94 (100)	≈ 3.78 (5.62)	-
5050R-06-		<input type="checkbox"/> -0	2.56 (65)	4.53 (115)	≈ 3.82 (5.68)	-
5050R-07-	¹ 9850R-07-	<input type="checkbox"/> -0	2.95 (75)	4.92 (125)	≈ 3.83 (5.70)	≈ 4.19 (6.24)
5050R-08-		<input type="checkbox"/> -0	3.43 (87)	5.39 (137)	≈ 3.87 (5.76)	-
5050R-10-	9850R-10-	<input type="checkbox"/> -0	3.94 (100)	5.91 (150)	≈ 3.89 (5.79)	≈ 4.38 (6.52)
5050R-11-		<input type="checkbox"/> -0	4.41 (112)	6.42 (163)	≈ 3.93 (5.85)	-
5050R-12-	9850R-12-	<input type="checkbox"/> -0	4.92 (125)	6.89 (175)	≈ 3.96 (5.89)	≈ 4.63 (6.89)
5050R-13-		<input type="checkbox"/> -0	5.39 (137)	7.40 (188)	≈ 4.00 (5.95)	-
5050R-15-	9850R-15-	<input type="checkbox"/> -0	5.91 (150)	7.87 (200)	≈ 4.02 (5.98)	≈ 4.92 (7.32)
5050R-16-		<input type="checkbox"/> -0	6.38 (162)	8.39 (213)	≈ 4.06 (6.04)	-
5050R-17-	9850R-17	<input type="checkbox"/> -0	6.89 (175)	8.86 (225)	≈ 4.09 (6.09)	≈ 5.09 (7.58)
5050R-18-		<input type="checkbox"/> -0	7.36 (187)	9.37 (238)	≈ 4.13 (6.15)	-
5050R-20-	9850R-20-	<input type="checkbox"/> -0	7.87 (200)	9.84 (250)	≈ 4.14 (6.16)	≈ 5.30 (7.89)
5050R-21-		<input type="checkbox"/> -0	8.35 (212)	10.35 (263)	≈ 4.18 (6.22)	-
5050R-22-		<input type="checkbox"/> -0	8.86 (225)	10.83 (275)	≈ 4.20 (6.25)	-
5050R-23-		<input type="checkbox"/> -0	9.33 (237)	11.34 (288)	≈ 4.24 (6.31)	-
5050R-25-	9850R-25-	<input type="checkbox"/> -0	9.84 (250)	11.81 (300)	≈ 4.27 (6.36)	≈ 5.79 (8.61)
5050R-26-		<input type="checkbox"/> -0	10.31 (262)	12.32 (313)	≈ 4.30 (6.40)	-
5050R-27-	9850R-27	<input type="checkbox"/> -0	10.83 (275)	12.80 (325)	≈ 4.34 (6.46)	≈ 5.93 (8.82)
5050R-28-		<input type="checkbox"/> -0	11.30 (287)	13.31 (338)	≈ 4.35 (6.47)	-
5050R-30-	9850R-30-	<input type="checkbox"/> -0	11.81 (300)	13.78 (350)	≈ 4.42 (6.58)	≈ 6.23 (9.27)
5050R-31-		<input type="checkbox"/> -0	12.28 (312)	14.29 (363)	≈ 4.43 (6.60)	-
5050R-32-		<input type="checkbox"/> -0	12.79 (325)	14.76 (375)	≈ 4.45 (6.62)	-
5050R-33-		<input type="checkbox"/> -0	13.27 (337)	15.28 (388)	≈ 4.51 (6.71)	-
5050R-35-	9850R-35-	<input type="checkbox"/> -0	13.78 (350)	15.75 (400)	≈ 4.56 (6.79)	≈ 6.73 (10.02)
5050R-36-		<input type="checkbox"/> -0	14.25 (362)	16.26 (413)	≈ 4.57 (6.80)	-
5050R-37-		<input type="checkbox"/> -0	14.76 (375)	16.73 (425)	≈ 4.57 (6.80)	-
5050R-38-		<input type="checkbox"/> -0	15.24 (387)	17.24 (438)	≈ 4.60 (6.84)	-
5050R-40-	9850R-40-	<input type="checkbox"/> -0	15.75 (400)	17.72 (450)	≈ 4.66 (6.94)	≈ 7.38 (10.98)
5050R-41-		<input type="checkbox"/> -0	16.22 (412)	18.23 (463)	≈ 4.72 (7.02)	-
5050R-42-		<input type="checkbox"/> -0	16.73 (425)	18.70 (475)	≈ 4.77 (7.10)	-
5050R-43-		<input type="checkbox"/> -0	17.20 (437)	19.21 (488)	≈ 4.79 (7.13)	-
5050R-45-		<input type="checkbox"/> -0	17.72 (450)	19.69 (500)	≈ 4.81 (7.16)	-
5050R-46-	9850R-46-	<input type="checkbox"/> -0	18.19 (462)	20.20 (513)	≈ 4.82 (7.17)	≈ 7.69 (11.44)
5050R-47-		<input type="checkbox"/> -0	18.70 (475)	20.67 (525)	≈ 4.87 (7.24)	-
5050R-48-		<input type="checkbox"/> -0	19.17 (487)	21.99 (538)	≈ 4.88 (7.26)	-
5050R-50-		<input type="checkbox"/> -0	19.69 (500)	21.65 (550)	≈ 4.91 (7.30)	-
5050R-51-		<input type="checkbox"/> -0	20.16 (512)	22.16 (563)	≈ 4.92 (7.32)	-
5050R-52-		<input type="checkbox"/> -0	20.67 (525)	22.64 (575)	≈ 4.93 (7.34)	-
5050R-53-		<input type="checkbox"/> -0	21.14 (537)	23.15 (588)	≈ 4.98 (7.41)	-
5050R-55-		<input type="checkbox"/> -0	21.65 (550)	23.62 (600)	≈ 5.15 (7.66)	-
5050R-60-		<input type="checkbox"/> -0	23.62 (600)	25.59 (650)	≈ 5.21 (7.76)	-

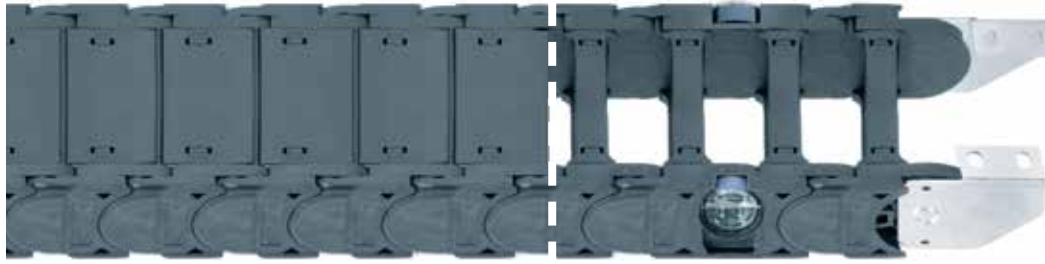
Choose from the radii below for all of the above sizes
Radius (mm) Example: 5050R-30-300-0

	250**	300	350	400	500
R	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H ⁺¹⁰	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)
D ⁺⁵⁰	49.21 (1250)	61.02 (1550)	67.72 (1720)	78.35 (1990)	96.85 (2460)
K	78.82 (2002)	96.73 (2457)	107.48 (2730)	125.39 (3185)	154.06 (3913)

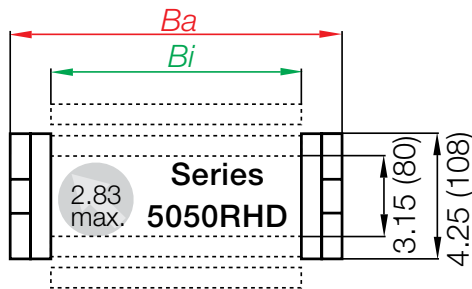
** This radius not available for E-Tubes
¹ Removable lid only, no hinged option

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 5050RHD - crossbars every link, openable along both radii

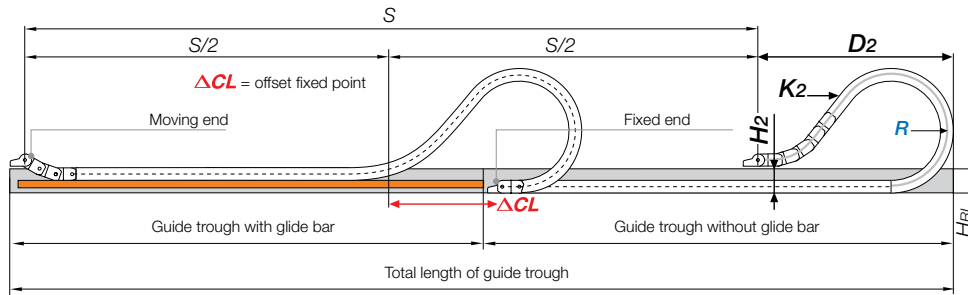


Sliding applications

Long travel lengths up to 2,625 ft. (800 m), Fill weights up to 20.16 lbs/ft (30 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers. Please contact igus® for assistance with your application.



Legend

- S = Length of travel
- R = Bending radius
- H₂ = Trough inner height
- H = *Mounting height
- D = Overlength - long travels, gliding
- K = *Add-on

R	9.84 (250**)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H ₂ +10	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)
D ₂ +50	50.39 (1280)	61.81 (1570)	68.90 (1750)	79.13 (2010)	97.64 (2480)
K ₂	78.82 (2002)	96.73 (2457)	107.48 (2730)	125.39 (3185)	154.06 (3913)
ΔCL	23.62 (600)	31.50 (800)	38.19 (970)	45.67 (1160)	60.24 (1530)

Pitch per link = 3.58" (91 mm)

Links per ft (m) = 3.35 (11)

For center mount applications:

Chain length = $\frac{S}{2} + K$

Available Accessories



Optimized, cable-friendly interior separation program



Steel mounting brackets, pivoting, robust and electrically conductive



Extension links - for extremely wide e-chains® up to 9.84 ft. (3.0 m)



Aluminum SuperTrough, Basic Version

Long travels	from 32.8 ft. (10 m) up to max. 2,625 ft. (800 m)
Speed max. rolling / acceleration max. rolling	max. 32.8 ft/s (10 m/s) / max. 164 ft/s² (50 m/s²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

E4/4 rol e-chain® - Series 5050RHD

Installation Dimensions



5050RHD

Supplement part number with required radius. Example: 5050RHD-30-300-0
 Pitch: 3.58 in. (91mm) per link links/ft (m) = 3.35 (11)

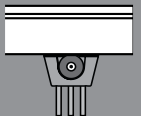
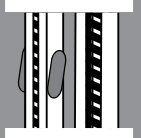
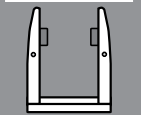
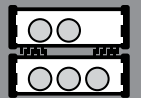
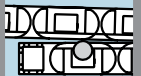
Part Number	<i>Bi</i>		<i>Ba</i>		Weight lbs/ft (kg/m)
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	
5050RHD-05- <input type="checkbox"/> -0	1.97 (50)	4.33 (110)	≈ 4.47 (6.65)		
5050RHD-06- <input type="checkbox"/> -0	2.56 (65)	4.92 (125)	≈ 4.53 (6.74)		
5050RHD-07- <input type="checkbox"/> -0	2.95 (75)	5.31 (135)	≈ 4.58 (6.81)		
5050RHD-08- <input type="checkbox"/> -0	3.43 (87)	5.79 (147)	≈ 4.63 (6.89)		
5050RHD-10- <input type="checkbox"/> -0	3.94 (100)	6.30 (160)	≈ 4.70 (6.99)		
5050RHD-11- <input type="checkbox"/> -0	4.41 (112)	6.77 (172)	≈ 4.77 (7.10)		
5050RHD-12- <input type="checkbox"/> -0	4.92 (125)	7.28 (185)	≈ 4.82 (7.18)		
5050RHD-13- <input type="checkbox"/> -0	5.39 (137)	7.76 (197)	≈ 4.92 (7.32)		
5050RHD-15- <input type="checkbox"/> -0	5.91 (150)	8.27 (210)	≈ 4.94 (7.35)		
5050RHD-16- <input type="checkbox"/> -0	6.38 (162)	8.74 (222)	≈ 5.02 (7.47)		
5050RHD-17- <input type="checkbox"/> -0	6.89 (175)	9.25 (235)	≈ 5.11 (7.60)		
5050RHD-18- <input type="checkbox"/> -0	7.36 (187)	9.72 (247)	≈ 5.18 (7.71)		
5050RHD-20- <input type="checkbox"/> -0	7.87 (200)	10.24 (260)	≈ 5.22 (7.77)		
5050RHD-21- <input type="checkbox"/> -0	8.35 (212)	10.71 (272)	≈ 5.27 (7.84)		
5050RHD-22- <input type="checkbox"/> -0	8.86 (225)	11.22 (285)	≈ 5.32 (7.91)		
5050RHD-23- <input type="checkbox"/> -0	9.33 (237)	11.69 (297)	≈ 5.39 (8.02)		
5050RHD-25- <input type="checkbox"/> -0	9.84 (250)	12.20 (310)	≈ 5.46 (8.13)		
5050RHD-26- <input type="checkbox"/> -0	10.31 (262)	12.68 (322)	≈ 5.52 (8.22)		
5050RHD-27- <input type="checkbox"/> -0	10.83 (275)	13.19 (335)	≈ 5.59 (8.32)		
5050RHD-28- <input type="checkbox"/> -0	11.30 (287)	13.66 (347)	≈ 5.63 (8.38)		
5050RHD-30- <input type="checkbox"/> -0	11.81 (300)	14.17 (360)	≈ 5.73 (8.53)		
5050RHD-31- <input type="checkbox"/> -0	12.28 (312)	14.65 (372)	≈ 5.76 (8.57)		
5050RHD-32- <input type="checkbox"/> -0	12.79 (325)	15.16 (385)	≈ 5.83 (8.67)		
5050RHD-33- <input type="checkbox"/> -0	13.27 (337)	15.63 (397)	≈ 5.91 (8.79)		
5050RHD-35- <input type="checkbox"/> -0	13.78 (350)	16.14 (410)	≈ 6.04 (8.99)		
5050RHD-36- <input type="checkbox"/> -0	14.25 (362)	16.61 (422)	≈ 5.98 (8.90)		
5050RHD-37- <input type="checkbox"/> -0	14.76 (375)	17.12 (435)	≈ 6.04 (9.00)		
5050RHD-38- <input type="checkbox"/> -0	15.24 (387)	17.60 (447)	≈ 6.12 (9.11)		
5050RHD-40- <input type="checkbox"/> -0	15.75 (400)	18.11 (460)	≈ 6.30 (9.38)		
5050RHD-41- <input type="checkbox"/> -0	16.22 (412)	18.58 (472)	≈ 6.26 (9.31)		
5050RHD-42- <input type="checkbox"/> -0	16.73 (425)	19.09 (485)	≈ 6.45 (9.60)		
5050RHD-43- <input type="checkbox"/> -0	17.20 (437)	19.57 (497)	≈ 6.34 (9.44)		
5050RHD-45- <input type="checkbox"/> -0	17.72 (450)	20.08 (510)	≈ 6.42 (9.55)		
5050RHD-46- <input type="checkbox"/> -0	18.19 (462)	20.55 (522)	≈ 6.53 (9.72)		
5050RHD-47- <input type="checkbox"/> -0	18.70 (475)	21.06 (535)	≈ 6.56 (9.76)		
5050RHD-48- <input type="checkbox"/> -0	19.17 (487)	21.54 (547)	≈ 6.73 (10.01)		
5050RHD-50- <input type="checkbox"/> -0	19.69 (500)	22.05 (560)	≈ 6.79 (10.11)		
5050RHD-51- <input type="checkbox"/> -0	20.16 (512)	22.52 (572)	≈ 6.73 (10.02)		
5050RHD-52- <input type="checkbox"/> -0	20.67 (525)	23.03 (585)	≈ 6.85 (10.19)		
5050RHD-53- <input type="checkbox"/> -0	21.14 (537)	23.50 (597)	≈ 6.91 (10.29)		
5050RHD-55- <input type="checkbox"/> -0	21.65 (550)	24.02 (610)	≈ 7.20 (10.71)		
5050RHD-60- <input type="checkbox"/> -0	23.62 (600)	25.98 (660)	≈ 7.35 (10.94)		

Choose from the radii below for all of the above sizes
Radius (mm) Example: 5050RHD-30-300-0

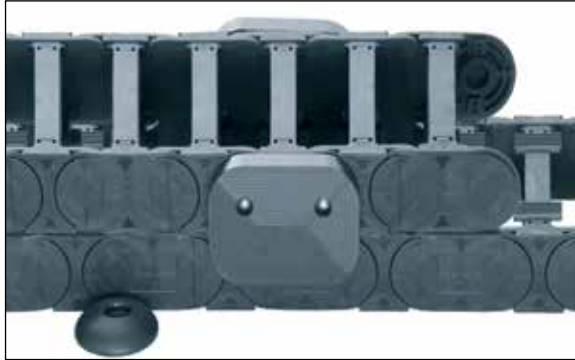
	250	300	350	400	500
R	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	19.69 (500)
H ⁺¹⁰	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)	9.53 (242)
D ⁺⁵⁰	49.21 (1250)	61.02 (1550)	67.72 (1720)	78.35 (1990)	96.85 (2460)
K	78.82 (2002)	96.73 (2457)	107.48 (2730)	125.39 (3185)	154.06 (3913)



PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains

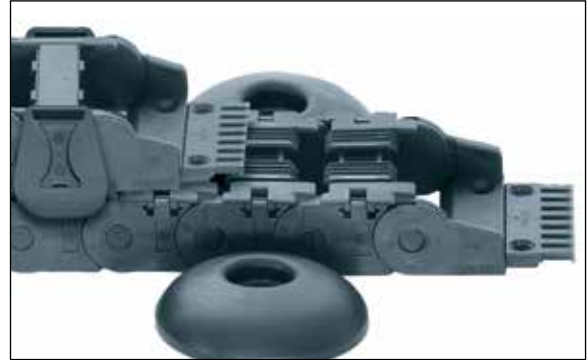


There are 4 options for the igus® autoglide system:



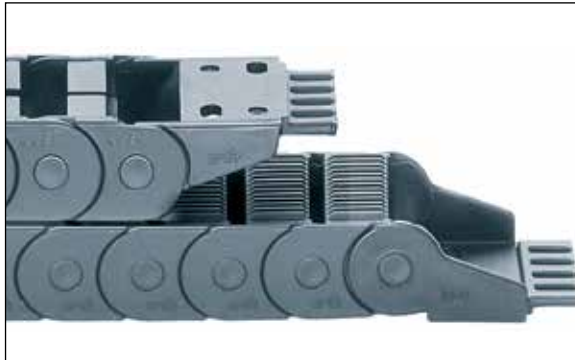
Version 01 - For igus® E4-1 e-chains®

Special crossbars in the inner radius of the e-chain® fitted with molded-on autoglide grooves



Version 02 - For igus® E2/000 e-chains®

Special crossbars with molded-on autoglide grooves. To be opened along the inner radius.



Version 03 - For igus® E-Z Chains

Combination of the easily fillable E-Z Chain and injection-molded autoglide grooves in the inner radius



Version 04 - For Series E2/000 e-chains®

Special plastic autoglide grooves side-mounted on the e-chain® hold the e-chain® "in the track"

Save on long travels, self-guiding e-chains® - autoglide

Long travels are always demanding for an e-chain system®. For much of the travel, the e-chain® must run on the lower run or on the glide bars. In addition the e-chain system® needs guides, in order to prevent a sideways movement. In most cases this is ensured through a guide trough. However, there are also applications where a guide trough is not desired for space reasons, whether this is due to optical considerations or spatial conditions. In order to cater for this possibility, igus® developed the autoglide system in 1995. autoglide is a self-aligning e-chain®, which can eliminate guide troughs for up to 262 ft. (80 m) travel.

- Travels up to 262 ft. (80 m) and travel speeds up to 8.20 ft/s (2.5 m/s)
- Cost-effective solution, guide troughs not required
- Very quick installation times for long travels
- Small installation width, quiet operation

Typical industries and applications

- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

Special solutions for long travel autoglide - Self-guiding e-chain systems®

Selection Table - Technical Data

Series	Inner height <i>hi</i> in. (mm)	Inner width <i>Bi</i> in. (mm)	Outer width <i>Ba</i> in. (mm)	Outer height <i>ha</i> in. (mm)	Bending radius <i>R</i> in. (mm)	Maximum Travel ft. (m)
--------	---------------------------------------	--------------------------------------	--------------------------------------	---------------------------------------	----------------------------------------	------------------------------



**Version 01 autoglide -
Self-guiding e-chains® for system E4-1**
Crossbars in the inner radius of the e-chain®
fitted with molded-on autoglide grooves

E4-32AG	1.26 (32)	4.41-10.31 (112-262)	5.35-11.26 (136-286)	2.13 (54)	3.94-11.81 (100-300)	196.9 (60)
E4-42AG	1.65 (42)	4.41-10.31 (112-262)	5.47-11.38 (139-289)	2.52 (64)	4.92-13.78 (125-350)	229.7 (70)
E4-56AG	2.20 (56)	5.91-9.84 (150-250)	7.24-11.18 (184-284)	3.31 (84)	5.91-19.69 (150-500)	262.5 (80)



**Version 02 autoglide -
Self-guiding e-chains® for system E2/000**
Crossbars in the inner radius of the e-chain®
fitted with molded-on autoglide grooves

2400AG	.98 (25)	2.24-3.03 (57-77)	2.87-3.66 (73-93)	1.38 (35)	2.95-9.84 (075-250)	131.2 (40)
2600AG	1.38 (35)	1.97-2.95 (50-75)	2.60-3.58 (66-91)	1.97 (50)	2.95-9.84 (075-250)	196.9 (60)
3400AG	1.77 (45)	2.95-3.94 (75-100)	3.74-4.72 (95-120)	2.52 (64)	3.94-11.81 (100-300)	229.7 (70)



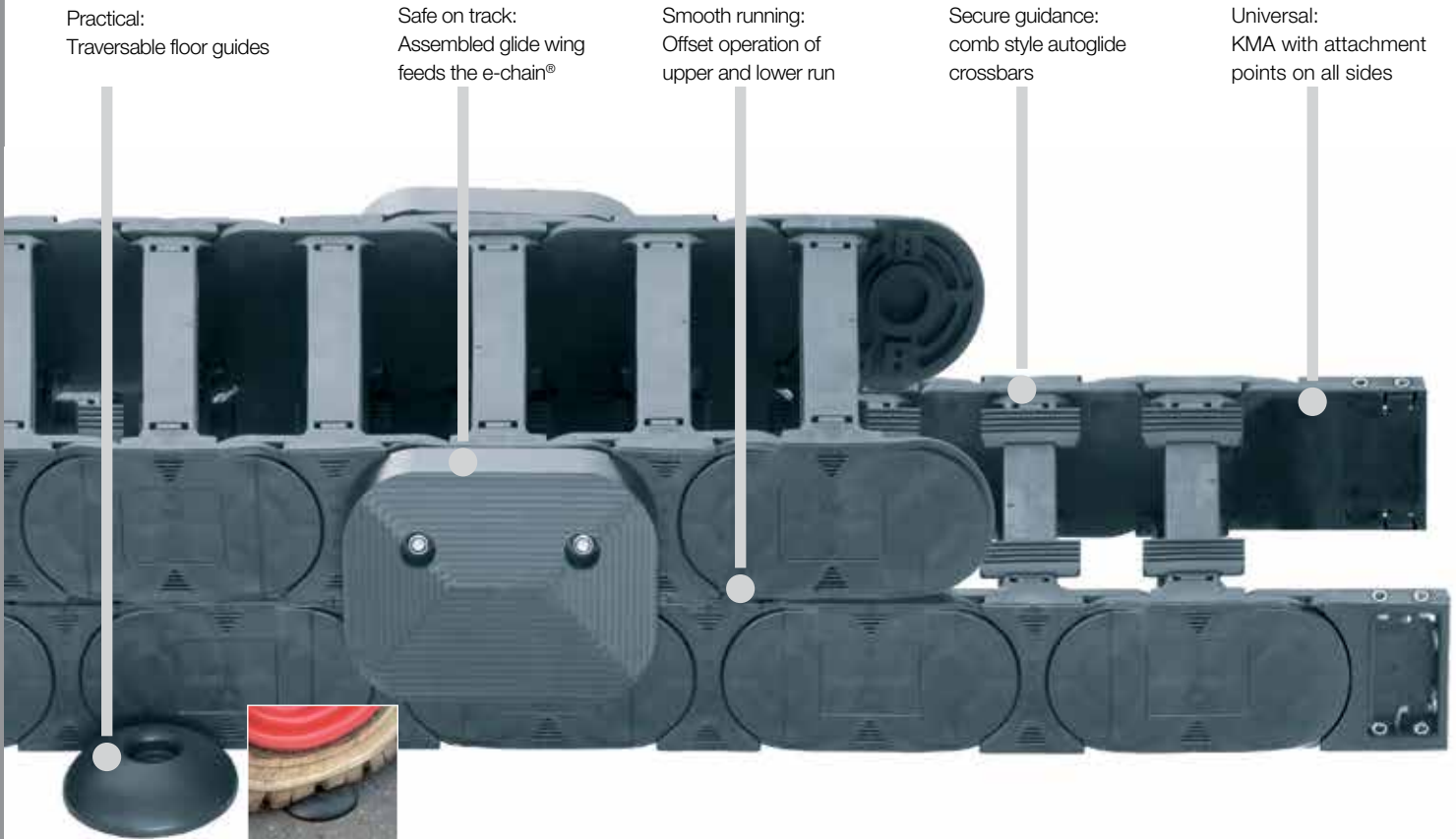
**Version 03 autoglide -
Easy filling - simply press cables in**
E-Z Chain Design in the outer radius, fitted with molded-on
autoglide grooves in the inner radius

EA16	1.26 (32)	1.89 (48)	2.36 (60)	1.54 (39)	2.56-3.94 (065-100)	65.6 (20)
EA25	.98 (25)	1.97 (50)	2.36 (60)	.99 (25.2)	2.95-3.94 (075-100)	65.6 (20)



**Version 04 autoglide -
Special glide elements provide a secure guidance**
on E2/000: e-chain®, half and full E-Tubes

2400/2500-AG	.98 (25)	2.24-4.92 (57-125)	2.87-5.55 (73-141)	1.38 (35)	2.17-9.84 (055-250)	65.6 (20)
2600/2700-AG	1.38 (35)	1.97-9.84 (50-250)	2.60-7.64 (66-194)	1.97(50)	2.95-9.84 (075-250)	98.4 (30)



Practical:
Traversable floor guides

Safe on track:
Assembled glide wing
feeds the e-chain®

Smooth running:
Offset operation of
upper and lower run

Secure guidance:
comb style autoglide
crossbars

Universal:
KMA with attachment
points on all sides

Self-guiding e-chains® for System E4-1 autoglide Version 01

For the larger e-chains® of the E4-1 system - crossbars in the inner radius of the e-chains® are provided with injection-molded glide shoes. **Glide wings and floor guides** - Simple guide elements for quick installation on the subsurface are available for the autoglide system version 01. The traversable eccentric floor guides are fastened every 6.56 ft.(2 m) on the subsurface. The glide wing fastened on the moving end feeds the e-chains® and holds this securely in the track. The autoglide crossbars safely guide the e-chains® and replace the guide trough.

- Save purchase and installation costs with this system
- Traversable over floor guide for travel distances over 32.8 ft.(10 m).

Note: Only two glide wings **AG-XXX-OF** are required for the safe feeding of the e-chains®. The mounting of the glide wing is done on the outer link of the upper run, which is laid down first on the lower run.

Typical industries and applications

- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

Special solutions for long travel autoglide - Self-guiding e-chain systems® Version 01 - Technical Data - Order Examples



autoglide with assembled glide wing. Module, containing 3 e-chain® links and 2 glide wings
Part No. E4-32-15-150-0-AG-OF-NC



autoglide self-guiding e-chains®
Part No. E4-32-15-150-0-AG-NC



Glide wing Part No. AG-280-OF and floor guide Part No. AG-380-BF as single parts



Part number structure E4-32-15-150-0-AG-OF-NC



Order example | Part number structure



Order example for complete e-chain® Series E4-32AG 49.2 ft. (15 m), color black, with mounting brackets and interior separation:

e-chain® 49.2 ft. (15 m)	Please indicate e-chain® length or number of links: 49.2 ft. (15 m) or 287 links	E4-32-15-150-0-AG-NC
e-chain® + glide wing	Module, containing 3 e-chain® links and 2 glide wings	E4-32-15-150-0-AG-OF-NC
+ Floor guides	8 pieces (2 pieces every 6.56 ft. (2 m) from the half of travel)	AG-380-BF

Order text: 49.2 ft. (15 m) E4-32-15-150-0-AG-NC + E4-32-15-150-0-AG-OF-NC + AG-380-BF + Mounting bracket + Interior separation (optional)

Note: We require one glide wing per e-chain® to the left and right at the position where the upper run first meets the lower run.

Long travels	from 32.8 ft. (10 m) up to max. 262 ft. (80 m)
Speed max. gliding / acceleration max. gliding	max. 8.20 ft/s (2.5 m/s) / max. 8.20 ft/s² (2.5 m/s²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1



Series E4-32AG - openable along both radii, crossbars every link - autoglide crossbars along the inner radius

Supplement part number with required radius. Example: E4-32-15-150-0-AG-NC
 Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.49 (18)

Part Number		<i>Bi</i>	<i>Ba</i>	Weight	Glide Wing	Floor Guide	
Crossbars		in. (mm)	in. (mm)	lbs/ft (kg/m)	Single part	Single part	
Every Link							
E4-32-112-	<input type="checkbox"/>	-0-AG-NC	4.41 (112)	5.35 (136)	≈ 1.42 (2.106)	AG-380-OF	AG-380-BF
E4-32-12-	<input type="checkbox"/>	-0-AG-NC	4.92 (125)	5.83 (148)	≈ 1.46 (2.176)	AG-380-OF	AG-380-BF
E4-32-15-	<input type="checkbox"/>	-0-AG-NC	5.91 (150)	6.81 (173)	≈ 1.57 (2.343)	AG-380-OF	AG-380-BF
E4-32-17-	<input type="checkbox"/>	-0-AG-NC	6.61 (168)	7.52 (191)	≈ 1.64 (2.444)	AG-380-OF	AG-380-BF
E4-32-20-	<input type="checkbox"/>	-0-AG-NC	7.87 (200)	8.78 (223)	≈ 1.79 (2.657)	AG-380-OF	AG-380-BF
E4-32-262-	<input type="checkbox"/>	-0-AG-NC	10.31 (262)	11.26 (286)	≈ 2.05 (3.050)	AG-380-OF	AG-380-BF

Choose from the radii below for all of the above sizes

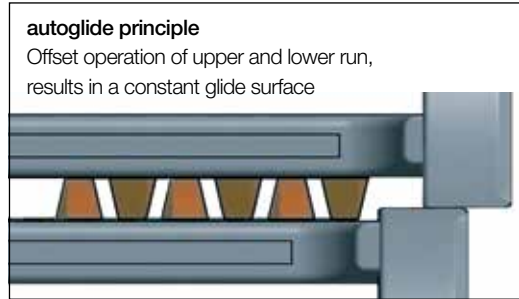
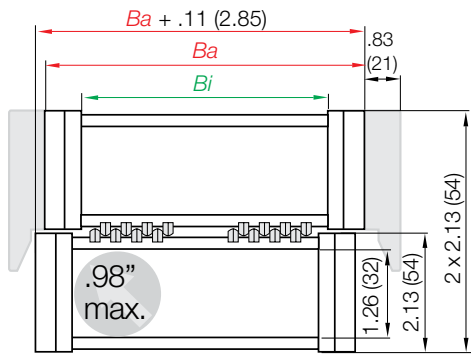
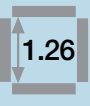
Radius (mm) Example: E4-32-15-150-0-AG-NC

	100	125	150	175	200	220	250	300
<i>R</i>	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
<i>H</i>	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
<i>D</i>	14.57 (370)	18.50 (470)	19.69 (500)	25.79 (655)	30.31 (770)	35.43 (900)	36.61 (930)	43.31 (1100)
<i>K</i>	33.07 (840)	40.71 (1064)	48.50 (1232)	61.73 (1568)	72.76 (1848)	81.57 (2072)	88.19 (2240)	105.83 (2688)

Special solutions for long travel autoglide - Version 01 - Self-guiding e-chain systems® E4-32AG - Installation Dimensions



autoglide



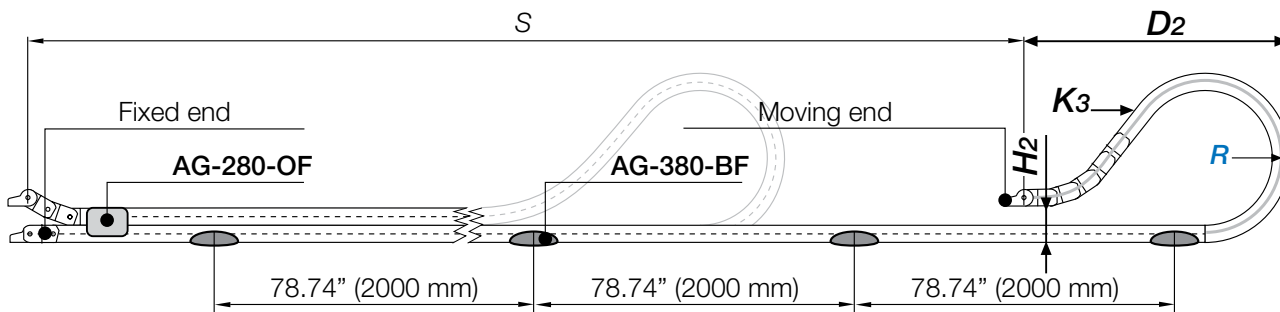
Gliding applications

Long travel lengths up to 197 ft. (60 m), Fill weights up to 3.36 to 4.70 lbs/ft (5.0 to 7.0 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact igus® for assistance with your application.



	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
R	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)	11.81 (300)
H_i	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D₂	14.57 (370)	18.50 (470)	19.69 (500)	25.79 (655)	30.31 (770)	35.43 (900)	36.61 (930)	43.31 (1100)
K₃	33.07 (840)	40.71 (1064)	48.50 (1232)	61.73 (1568)	72.76 (1848)	81.57 (2072)	88.19 (2240)	105.83 (2688)

Legend

- S = Length of travel
- R = Bending radius
- H_i = Trough inner height
- H = *Mounting height
- D₂ = Overlength - long travels, gliding

Pitch per link = 2.20" (56 mm)
Links per ft (m) = 5.49 (18)
For center mount applications:
Chain length = S + K₃

Available Accessories

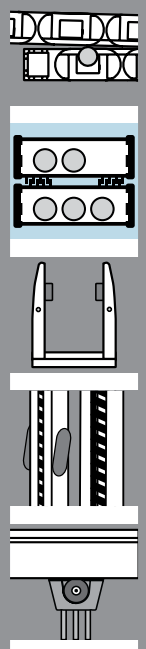


Optimized, cable-friendly interior separation program



Pivoting KMA mounting brackets with attachment points on all sides

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series E4-42AG - openable along both radii, crossbars every link - autoglide crossbars along the inner radius

Supplement part number with required radius. Example: E4-42-15-150-0-AG-NC
 Pitch: 2.64 in. (67 mm) per link links/ft (m) = 4.57 (15)

Part Number		<i>Bi</i>	<i>Ba</i>	Weight	Glide Wing	Floor Guide
Crossbars		in. (mm)	in. (mm)	lbs/ft (kg/m)	Single part	Single part
Every Link						
E4-42-112-	<input type="checkbox"/> -0-AG-NC	4.41 (112)	5.47 (139)	≈ 1.59 (2.372)	AG-380-OF	AG-380-BF
E4-42-12-	<input type="checkbox"/> -0-AG-NC	4.92 (125)	5.94 (151)	≈ 1.63 (2.430)	AG-380-OF	AG-380-BF
E4-42-15-	<input type="checkbox"/> -0-AG-NC	5.91 (150)	6.93 (176)	≈ 1.73 (2.569)	AG-380-OF	AG-380-BF
E4-42-17-	<input type="checkbox"/> -0-AG-NC	6.61 (168)	7.64 (194)	≈ 1.78 (2.654)	AG-380-OF	AG-380-BF
E4-42-20-	<input type="checkbox"/> -0-AG-NC	7.87 (200)	8.90 (226)	≈ 1.90 (2.831)	AG-380-OF	AG-380-BF
E4-42-262-	<input type="checkbox"/> -0-AG-NC	10.31 (262)	11.38 (289)	≈ 2.12 (3.159)	AG-380-OF	AG-380-BF

Choose from the radii below for all of the above sizes

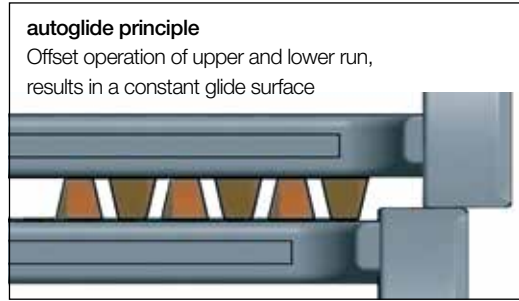
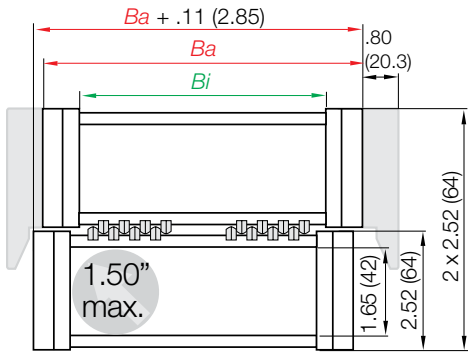
Radius (mm) Example: E4-42-15-150-0-AG-NC

	125	150	160	175	200	250	250	300
<i>R</i>	4.92 (125)	5.91 (150)	6.30 (160)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
<i>H</i>	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
<i>D</i>	18.70 (475)	22.44 (570)	24.53 (623)	26.38 (670)	30.71 (780)	40.55 (1030)	45.28 (1150)	59.06 (1500)
<i>K</i>	44.84 (1139)	52.76 (1340)	58.03 (1474)	63.31 (1608)	73.86 (1876)	94.96 (2412)	111.89 (2747)	139.80 (3551)

Special solutions for long travel
 autoglide - Version 01- Self-guiding e-chain systems®
 E4-42AG - Installation Dimensions



autoglide



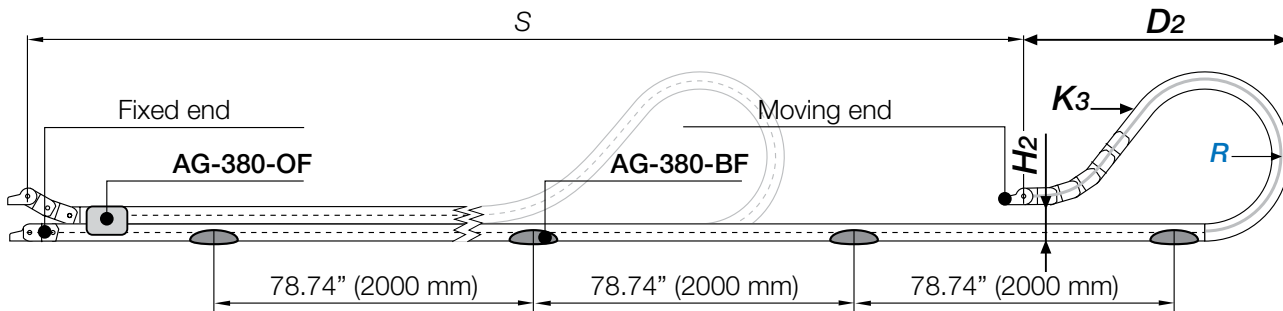
Gliding applications

Long travel lengths up to 230 ft. (70 m), Fill weights up to 2.69 to 6.45 lbs/ft (4.0 to 9.6 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact iglus® for assistance with your application.



R	4.92 (125)	5.91 (150)	6.30 (160)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)
H _i	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
D ₂	18.70 (475)	22.44 (570)	24.53 (623)	26.38 (670)	30.71 (780)	40.55 (1030)	45.28 (1150)	59.06 (1500)
K ₃	44.84 (1139)	52.76 (1340)	58.03 (1474)	63.31 (1608)	73.86 (1876)	94.96 (2412)	111.89 (2747)	139.80 (3551)

Legend

- S = Length of travel
- R = Bending radius
- H_i = Trough inner height
- H₂ = *Mounting height
- D₂ = Overlength - long travels, gliding

Pitch per link = 2.64" (67 mm)

Links per ft (m) = 4.57 (15)

For center mount applications:

Chain length = S + K₃

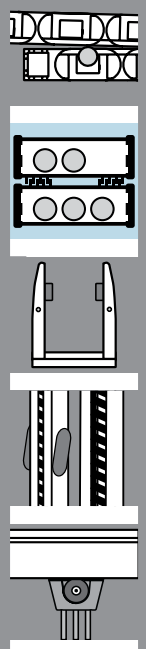
Available Accessories



Optimized, cable-friendly interior separation program



Pivoting KMA mounting brackets with attachment points on all sides



PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



Series E4-56AG - openable along both radii, crossbars every link - autoglide crossbars along the inner radius

Supplement part number with required radius. Example: E4-56-15--0-AG-NC
 Pitch: 3.58 in. (91 mm) per link links/ft (m) = 3.35 (11)

Part Number			Weight	Glide Wing	Floor Guide		
Crossbars		<i>Bi</i>	<i>Ba</i>	Single part	Single part		
Every Link		in. (mm)	in. (mm)				
E4-56-15-	<input type="text" value=""/>	-0-AG-NC	5.91 (150)	7.24 (184)	≈2.76 (4.109)	AG-400-OF	AG-400-BF
E4-56-21-	<input type="text" value=""/>	-0-AG-NC	8.35 (212)	9.72 (247)	≈3.07 (4.567)	AG-400-OF	AG-400-BF
E4-56-25-	<input type="text" value=""/>	-0-AG-NC	9.84 (250)	11.18 (284)	≈3.29 (4.896)	AG-400-OF	AG-400-BF

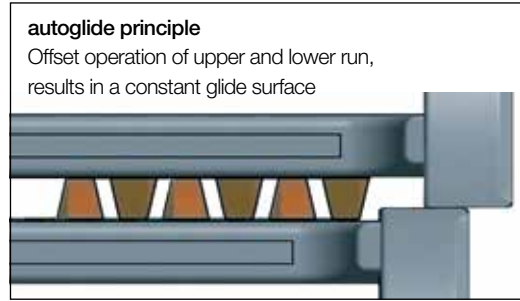
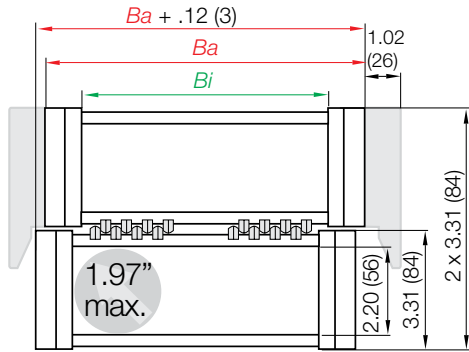
Choose from the radii below for all of the above sizes
 Radius (mm) Example: E4-56-15--0-AG-NC

	<input type="text" value="150"/>	<input type="text" value="175"/>	<input type="text" value="200"/>	<input type="text" value="240"/>	<input type="text" value="250"/>	<input type="text" value="300"/>	<input type="text" value="350"/>	<input type="text" value="400"/>	<input type="text" value="450"/>	<input type="text" value="500"/>
R	5.91 (150)	6.89 (175)	7.87 (200)	9.45 (240)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.72 (450)	19.69 (500)
H	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)
D	17.72 (450)	22.83 (580)	27.95 (710)	35.43 (900)	38.58 (980)	46.46 (1180)	56.69 (1440)	60.24 (1530)	66.93 (1700)	72.83 (1850)
K	42.99 (1092)	57.32 (1456)	68.07 (1729)	85.98 (2184)	93.15 (2366)	111.06 (2821)	128.98 (3276)	143.31 (3640)	161.22 (4095)	179.13 (4550)

Special solutions for long travel autoglide - Version 01 - Self-guiding e-chain systems® E4-56AG - Installation Dimensions



autoglide



Gliding applications

Long travel lengths up to 262 ft. (80 m), Fill weights up to 4.30 to 8.06 lbs/ft (6.4 to 12.0 kg/m)

In case of travels less than 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact igus® for assistance with your application.

Pitch per link: = 3.58" (91 mm)

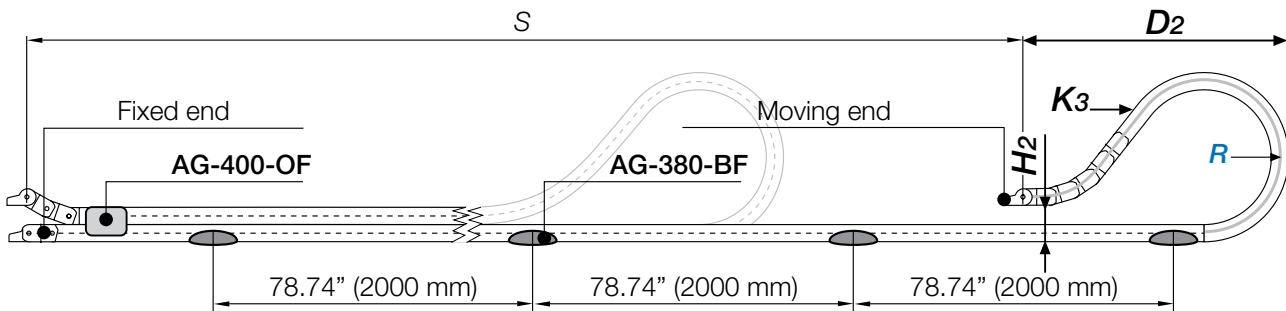
Links per ft (m): = 3.35 (11)

For center mount applications:

Chain length = $S + K_3$

Legend

- S = Length of travel
- R = Bending radius
- H_{in} = Trough inner height
- H_z = *Mounting height
- D = Overlength - long travels, gliding



R	5.91 (150)	6.89 (175)	7.87 (200)	9.45 (240)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.72 (450)	19.69 (500)
H_z	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)
D	17.72 (450)	22.83 (580)	27.95 (710)	35.43 (900)	38.58 (980)	46.46 (1180)	56.69 (1440)	60.24 (1530)	66.93 (1700)	72.83 (1850)
K₃	42.99 (1092)	57.32 (1456)	68.07 (1729)	85.98 (2184)	93.15 (2366)	111.06 (2821)	128.98 (3276)	143.31 (3640)	161.22 (4095)	179.13 (4550)

Available Accessories

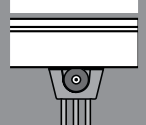
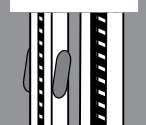
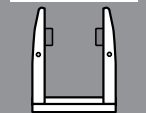
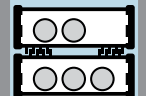
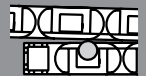


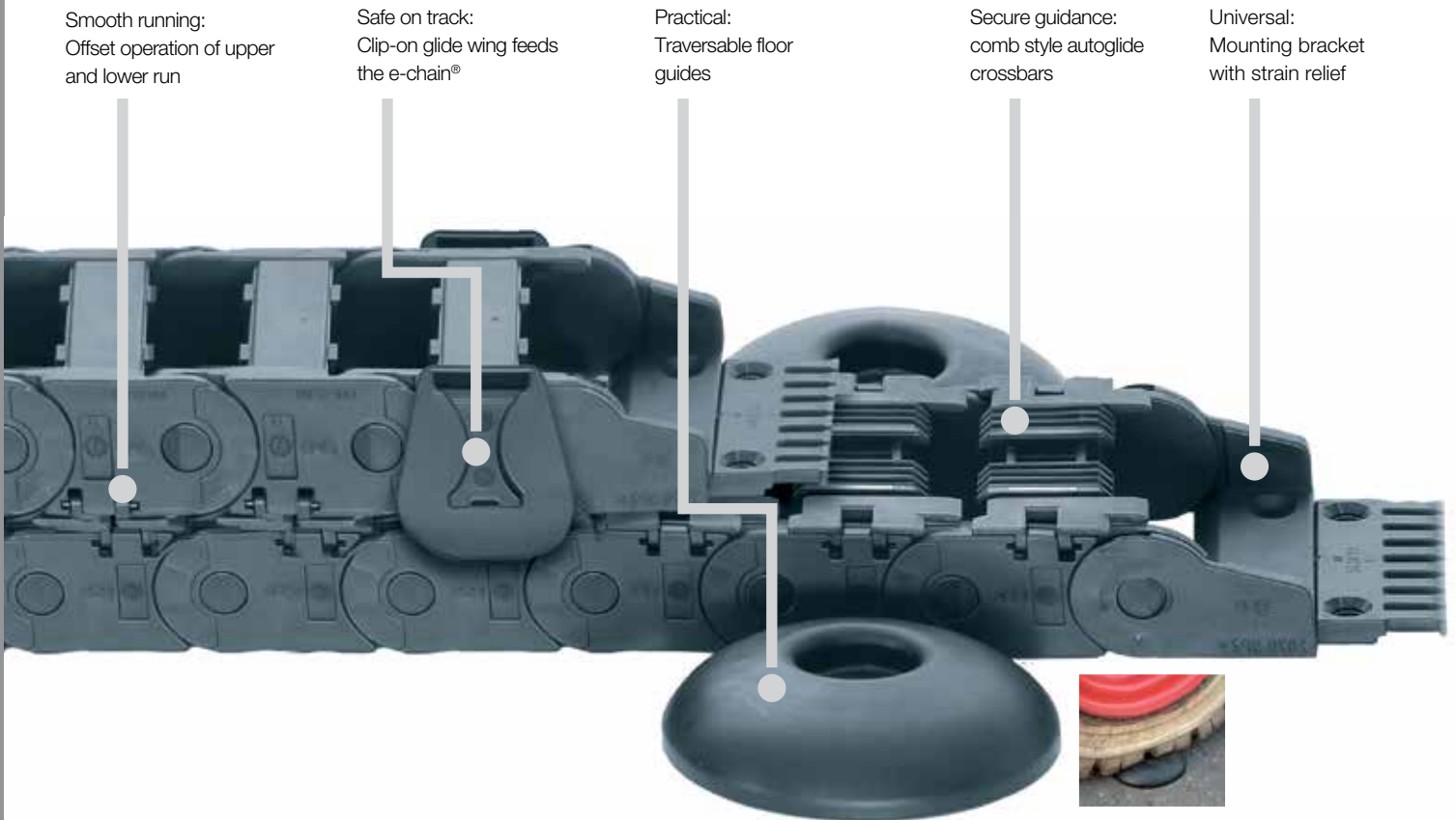
Optimized, cable-friendly interior separation program



Pivoting KMA mounting brackets with attachment points on all sides

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Self-guiding e-chains® for System E2/000 autoglide Version 02

Interfering guide troughs for long travels can be dispensed with when using the autoglide system. Self-guiding e-chains® glide safely on top of each other for up to 230 ft. (70 m). The system has now been extended to the igus® E2/000 and further improved. The autoglide crossbars ensure even longer life. A plug-in glide wing ensures safe e-chain® threading over the first few feet (meters) of travel. The traversable eccentric floor guides are fastened to the subsurface every 6.56 ft. (2 m).

- Travels up to 230 ft. (70 m) without guide trough at speeds up to 6.56 ft/s (2.0 m/s)
- Very compact, no interfering trough in the travel or work area
- Fast installation times for long travels
- Snap-open in the inner radius
- Also for "half tube" fully enclosed in the outer radius
- Clip-on glide wings, safe threading in of the e-chain®
- Drive-over floor guide

Typical industries and applications

- Greenhouses
- Storage and retrieval systems
- Conveyor systems
- Indoor cranes
- Handling
- And many other long travels

Special solutions for long travel autoglide - Version 02 - Self-guiding e-chain systems® Technical Data - Order Examples



Part number structure

2400-05AG-100-0



Order example | Part number structure



Order example for complete e-chain® Series E4-32AG 49.2 ft. (15 m), color black, with mounting brackets and interior separation:

e-chain® 49.2 ft. (15 m)	Please indicate e-chain® length or number of links: 49.2 ft. (15 m) or 347 links	2400-15AG-100-0
+ glide wing	2 glide wings are required per e-chain®	AG-2400-OF
+ Floor guides	8 pieces (2 pieces every 6.56 ft. (2 m) from the half of travel)	AG-380-BF

Order text: 49.2 ft. (15 m) 2400-05AG-100-0 + AG-2400-OF + AG-380-BF + Mounting bracket + Interior separation (optional)

Note: We require one glide wing per e-chain® to the left and right at the position where the upper run first meets the lower run.

Speed max. rolling	max. 6.56 ft/s (2 m/s)
Acceleration max. gliding	max. 3.28 ft/s ² (1 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1



Series 2400AG - snap-open along the inner radius - crossbars with molded-on autoglide grooves

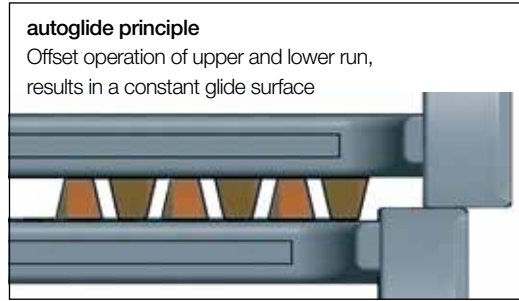
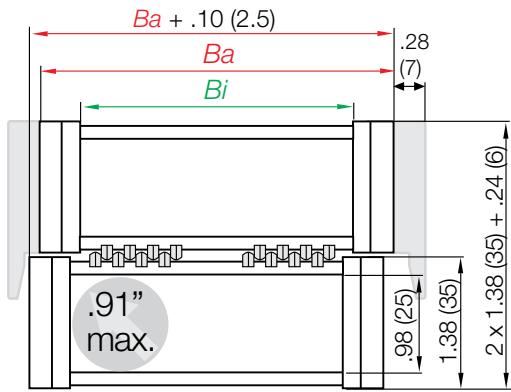
Supplement part number with required radius. Example: 2400-05AG--0
 Pitch: 1.814 in. (46 mm) per link links/ft (m) = 6.63 (22)

Part Number	<i>Bi</i>	<i>Ba</i>	Weight	Glide Wing Single part	Floor Guide Single part			
Crossbars	in. (mm)	in. (mm)	lbs/ft (kg/m)					
Every Link								
2400-05AG- <input type="text" value="150"/> -0	2.24 (57)	2.87 (73)	≈0.67 (1.00)	AG-2400-OF	AG-380-BF			
2400-07AG- <input type="text" value="150"/> -0	3.03 (77)	3.66 (93)	≈0.74 (1.10)	AG-2400-OF	AG-380-BF			
Choose from the radii below for all of the above sizes								
<i>Radius</i> (mm) Example: 2400-05AG- <input type="text" value="150"/> -0								
	<input type="text" value="075"/>	<input type="text" value="100"/>	<input type="text" value="125"/>	<input type="text" value="150"/>	<input type="text" value="175"/>	<input type="text" value="200"/>	<input type="text" value="225"/>	<input type="text" value="250"/>
<i>R</i>	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)
<i>H</i>	5.91 (150)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)
<i>D</i>	6.38 (162)	14.96 (380)	17.32 (440)	23.23 (590)	29.72 (755)	37.40 (950)	40.94 (1040)	44.49 (1130)
<i>K</i>	23.54 (598)	36.22 (920)	41.65 (1058)	56.14 (1426)	70.63 (1794)	86.93 (2208)	95.98 (2438)	105.04 (2668)

Special solutions for long travel autoglide - Version 02 - Self-guiding e-chain systems® 2400AG - Installation Dimensions



autoglide



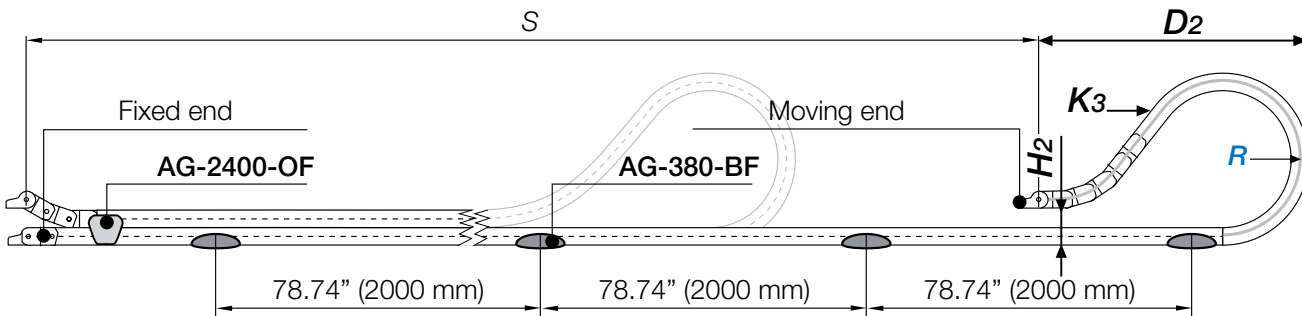
Gliding applications

Long travel lengths up to 131 ft. (40 m), Fill weights up to 1.34 lbs/ft (2.0 kg/m)

In case of travels between 13 ft. (4 m) and 32.8 ft. (10m) we recommend an self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact igus® for assistance with your application.



R	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.66 (220)	9.84 (250)
H _i	5.91 (150)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)
D ₂	6.38 (162)	14.96 (380)	17.32 (440)	23.23 (590)	29.72 (755)	37.40 (950)	40.94 (1040)	44.49 (1130)
K ₃	23.54 (598)	36.22 (920)	41.65 (1058)	56.14 (1426)	70.63 (1794)	86.93 (2208)	95.98 (2438)	105.04 (2668)

Legend

- S = Length of travel
- R = Bending radius
- H_i = Trough inner height
- H₂ = *Mounting height
- D₂ = Overlength - long travels, gliding

Pitch per link = 1.81" (46 mm)

Links per ft (m) = 6.63 (22)

For center mount applications:

Chain length = S + K₃

Available Accessories



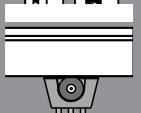
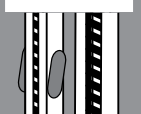
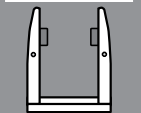
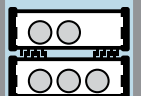
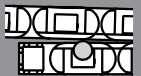
Optimized, cable-friendly interior separation program



Pivoting mounting brackets for gliding applications



Pivoting KMA mounting brackets with attachment points on all sides





Series 2600AG - snap-open along the inner radius - crossbars with molded-on autoglide grooves

Supplement part number with required radius. Example: 2600-05AG--0

Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.45 (18)

Part Number		Weight	Glide Wing	Floor Guide	
Crossbars	<i>Bi</i>	<i>Ba</i>	Single part	Single part	
Every Link	in. (mm)	in. (mm)			
2600-05AG- <input type="text" value="150"/> -0	1.97 (50)	2.60 (66)	≈ 0.85 (1.27)	AG-2600-OF	AG-380-BF
2600-07AG- <input type="text" value="150"/> -0	2.95 (75)	3.58 (91)	≈ 0.94 (1.40)	AG-2600-OF	AG-380-BF

Choose from the radii below for all of the above sizes

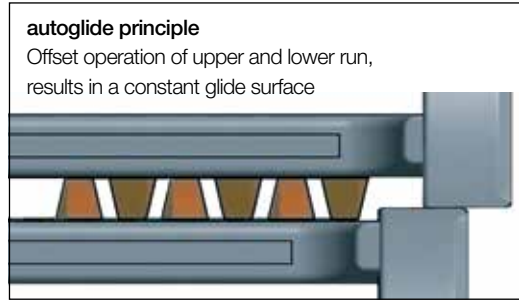
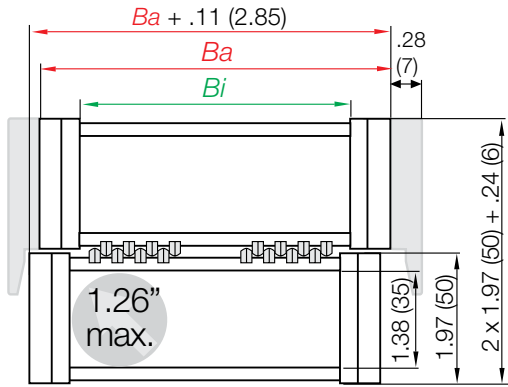
Radius (mm) Example: 2600-05AG--0

	075	100	125	150	175	200	250
R	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
H	5.91 (150)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D	5.91 (150)	13.78 (350)	18.70 (475)	19.69 (500)	25.79 (655)	30.31 (770)	37.40 (950)
K	24.25 (616)	33.07 (840)	44.09 (1120)	48.50 (1232)	61.73 (1568)	72.76 (1848)	90.39 (2296)

Special solutions for long travel autoglide - Version 02 - Self-guiding e-chain systems® 2600AG - Installation Dimensions



autoglide



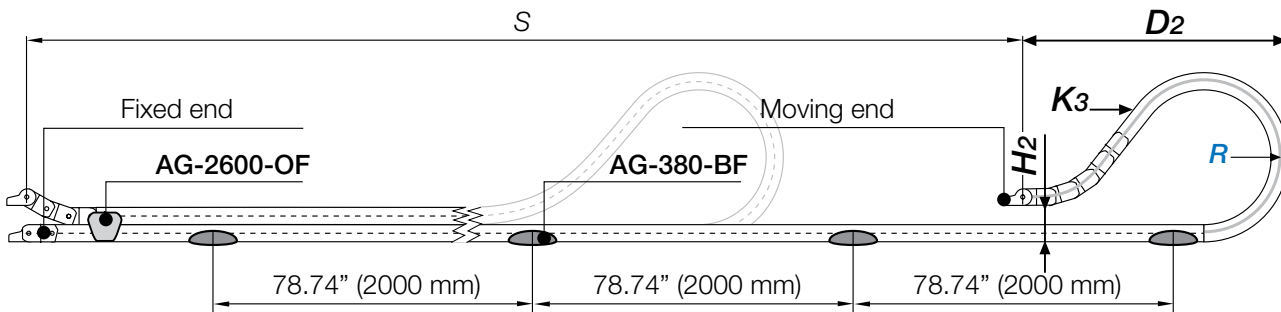
Gliding applications

Long travel lengths up to 197 ft. (60 m), Fill weights up to 1.68 lbs/ft (2.5 kg/m)

In case of travels between 16.4 ft. (5 m) and 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact igus® for assistance with your application.



	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
R	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
H	5.91 (150)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D	5.91 (150)	13.78 (350)	18.70 (475)	19.69 (500)	25.79 (655)	30.31 (770)	37.40 (950)
K	24.25 (616)	33.07 (840)	44.09 (1120)	48.50 (1232)	61.73 (1568)	72.76 (1848)	90.39 (2296)

Legend

- S = Length of travel
- R = Bending radius
- H_{in} = Trough inner height
- H_o = Mounting height
- D_o = Overlength - long travels, gliding

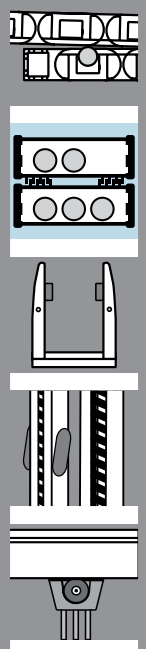
Pitch per link: = 2.20" (56 mm)

Links per ft (m): = 5.49 (18)

For center mount applications:

Chain length = S + K₃

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Available Accessories



Optimized, cable-friendly interior separation program

Pivoting mounting brackets for gliding applications

Pivoting KMA mounting brackets with attachment points on all sides



Series 3400AG - snap-open along the inner radius - crossbars with molded-on autoglide grooves

Supplement part number with required radius. Example: 3400-100AG--0

Pitch: 2.64 in. (67 mm) per link links/ft (m) = 4.55 (15)

Part Number	<i>Bi</i>	<i>Ba</i>	Weight	Glide Wing Single part	Floor Guide Single part
Crossbars	in. (mm)	in. (mm)	lbs/ft (kg/m)		
Every Link					
3400-05AG- <input type="text" value=""/> -0	2.95 (75)	3.74 (95)	≈1.27 (1.89)	AG-3400-OF	AG-380-BF
3400-07AG- <input type="text" value=""/> -0	3.94 (100)	4.72 (120)	≈1.37 (2.04)	AG-3400-OF	AG-380-BF

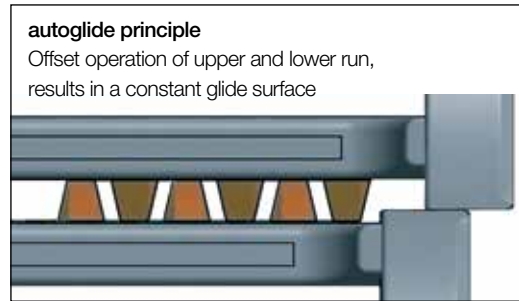
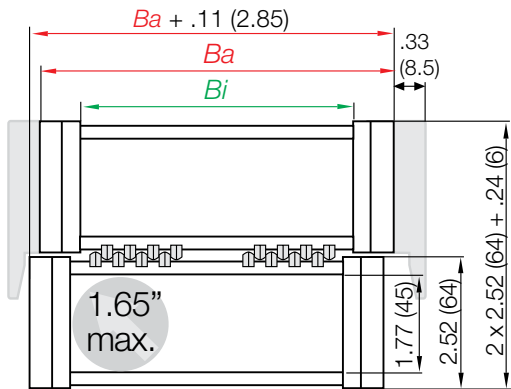
Choose from the radii below for all of the above sizes
 Radius (mm) Example: 3400-05AG--0

	100	125	150	200	250	300
<i>R</i>	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)
<i>H</i>	7.87 (200)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
<i>D</i>	9.17 (233)	18.70 (475)	22.44 (570)	30.71 (780)	39.76 (1010)	45.28 (1150)
<i>K</i>	34.29 (871)	44.84 (1139)	55.39 (1407)	73.86 (1876)	94.96 (2412)	108.15 (2747)

Special solutions for long travel autoglide - Version 02 - Self-guiding e-chain systems® 3400AG - Installation Dimensions



autoglide



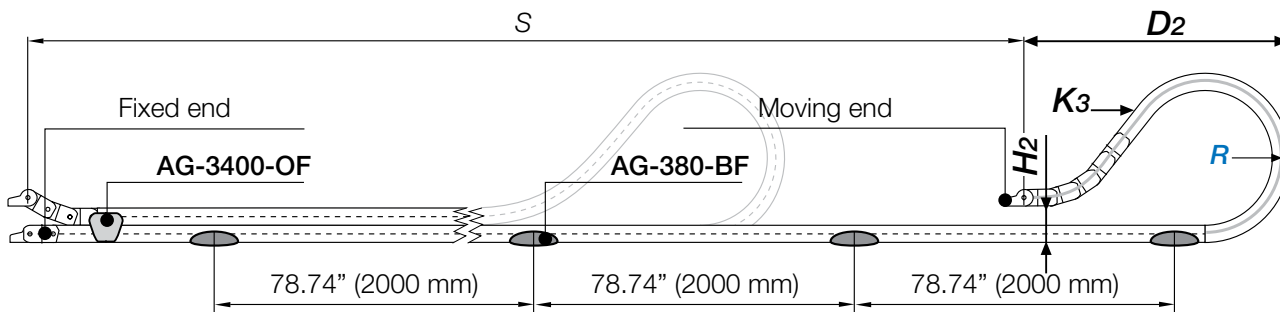
Gliding applications

Long travel lengths up to 230 ft. (70 m), Fill weights up to 3.36 to 5.38 lbs/ft (5.0 to 8.0 kg/m)

In case of travels between 19.7 ft. (6 m) and 32.8 ft. (10m) we recommend a self-supporting e-chain®.

NOTE: Systems of this type should be designed by our system design engineers.

Please contact igus® for assistance with your application.



	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)
R	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)	9.84 (250)	11.81 (300)
H _i	7.87 (200)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)	7.32 (186)
D ₂	9.17 (233)	18.70 (475)	22.44 (570)	30.71 (780)	39.76 (1010)	45.28 (1150)
K ₃	34.29 (871)	44.84 (1139)	55.39 (1407)	73.86 (1876)	94.96 (2412)	108.15 (2747)

Legend

- S = Length of travel
- R = Bending radius
- H_i = Trough inner height
- H₂ = Mounting height
- D₂ = Overlength - long travels, gliding

Pitch per link = 2.64" (67 mm)
Links per ft (m) = 4.55 (15)
For center mount applications:
Chain length = S + K₃

Available Accessories



Optimized, cable-friendly interior separation program

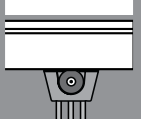
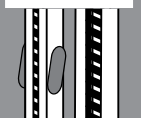
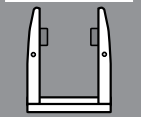
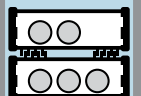
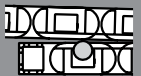


Pivoting mounting brackets for gliding applications



Pivoting KMA mounting brackets with attachment points on all sides

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



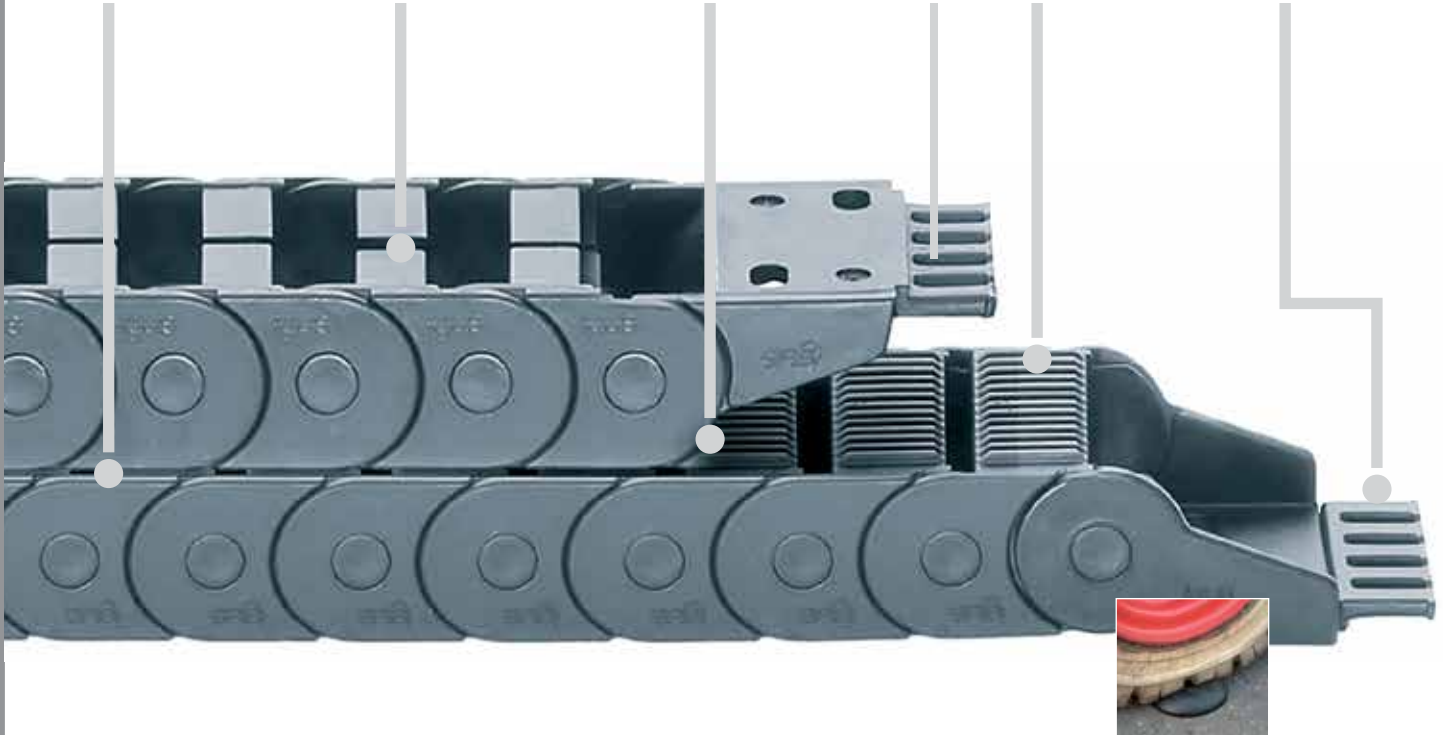
Smooth running:
Offset operation of upper
and lower run

Fast assembly:
"easy" design - simply
press cables in

Cost-effective:
Low price due to the
one-piece design

Secure guidance:
comb style
AUTOGLIDE crossbars

Universal:
Mounting bracket
with strain relief



E-Z Chain along the outer radius, injection molded autoglide crossbars along the inner radius - Version 03

Version 03 is the quickly filled and cost-effective E-Z-Chain® with injection-molded autoglide crossbars in the inner radius. The crossbars are molded directly on the e-chain® link and are available in two sizes. The reduced installation time is one of the main features of the e-chains®. The elastic and rugged material igumid NB offers yet more reasons for application: Optimum elasticity, UL94-V2 classification and excellent suitability for cleanrooms. Their one-piece design makes E-Z Chain® attractive especially with regard to price.

- Doubly cost-effective. Elimination of guide troughs and economical, one-piece e-chain®
- Very quick assembly time - "easy"-design even on long travels
- "Easy"-design: Easy to fill - cables and hoses can be inserted without opening
- Single part design
- Small installation width, quiet operation
- UL94-V2 classifications

Typical industries and applications

- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications

Special solutions for long travel autoglide - Version 03 - Self-guiding e-chain systems® Technical Data - Order Examples



Part number structure

EA25-050-100-0-



Simply push in the cables in the e-chain with your thumb - and it's ready!
To remove simply pull out the cables from the e-chain®

Speed max. rolling	max. 3.28 ft/s (1 m/s)
Acceleration max. gliding	max. 3.28 ft/s ² (1 m/s ²)
Material - permitted temperature	igumid NB / -40°F (-40°C) up to +176°F (+80° C)
Flammability Class, igumid NB	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1

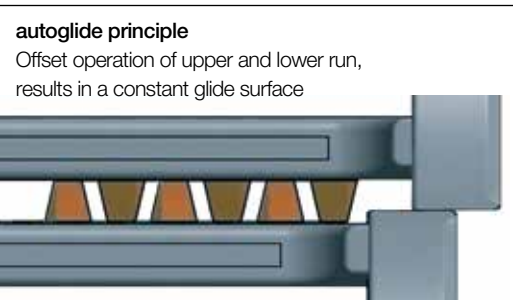
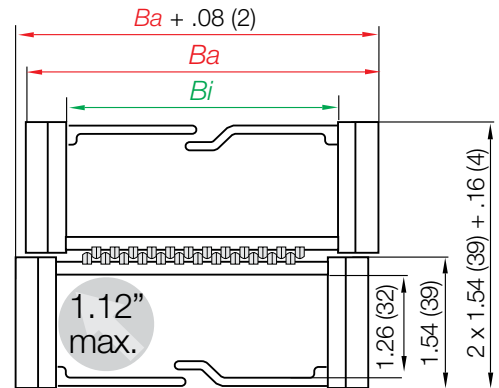


Series EA16 - Simply press cables in (outer radius) - autoglide crossbars (inner radius)

Supplement part number with required radius. Example: EA16-4-065-0
 Pitch: 1.20 in. (30.5 mm) per link links/ft (m) = 10.06 (33)

Part Number		<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)
EA16-4-	<input type="text" value="065"/>	1.89 (48)	2.36 (60)
Choose from the radii below for the above size			
	<i>Radius</i> (mm)	Example: EA16-4- 065 -0	

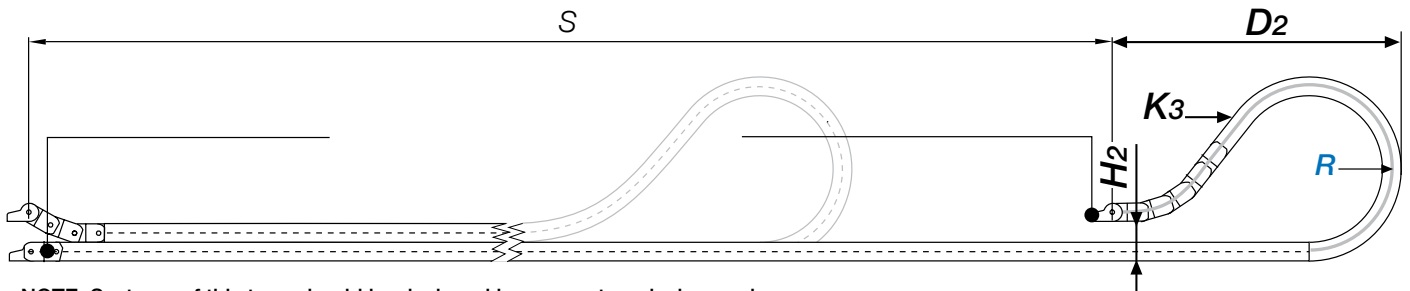
	065	075	100
<i>R</i>	2.56 (065)	1.89 (075)	3.94 (100)
<i>H</i>	3.94 (100)	3.94 (100)	3.94 (100)
<i>D</i>	12.80 (325)	13.98 (355)	22.44 (570)
<i>K</i>	27.64 (702)	30.04 (763)	49.25 (1251)



Pitch = 1.20 (30.5 mm)
 Links per ft (m) = 10.06 (33)
 Chain length = S + *K*₃

Gliding applications

Long travel lengths up to 65.6 ft. (20 m), Fill weights up to 0.27 lbs/ft (0.4 kg/m)



NOTE: Systems of this type should be designed by our system design engineers.
 Please contact igus® for assistance with your application.

<i>R</i>	2.56 (065)	1.89 (075)	3.94 (100)
<i>H</i>	3.94 (100)	3.94 (100)	3.94 (100)
<i>D</i>	12.80 (325)	13.98 (355)	22.44 (570)
<i>K</i>	27.64 (702)	30.04 (763)	49.25 (1251)

Special solutions for long travel autoglide - Version 03 - Self-guiding e-chain systems® EA25



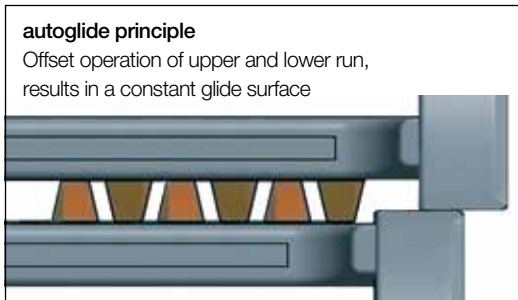
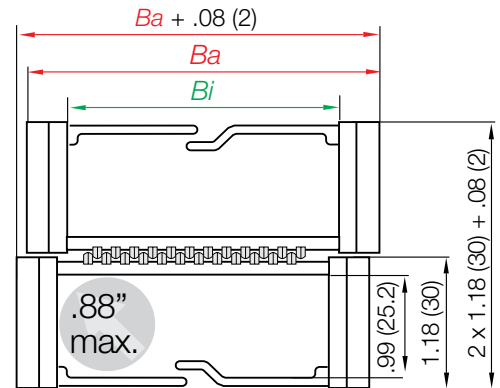
autoglide



Series EA25 - Simply press cables in (outer radius) - autoglide crossbars (inner radius)

Supplement part number with required radius. Example: EA25-050-100-0
Pitch: .98 in. (25 mm) per link links/ft (m) = 12.24 (40)

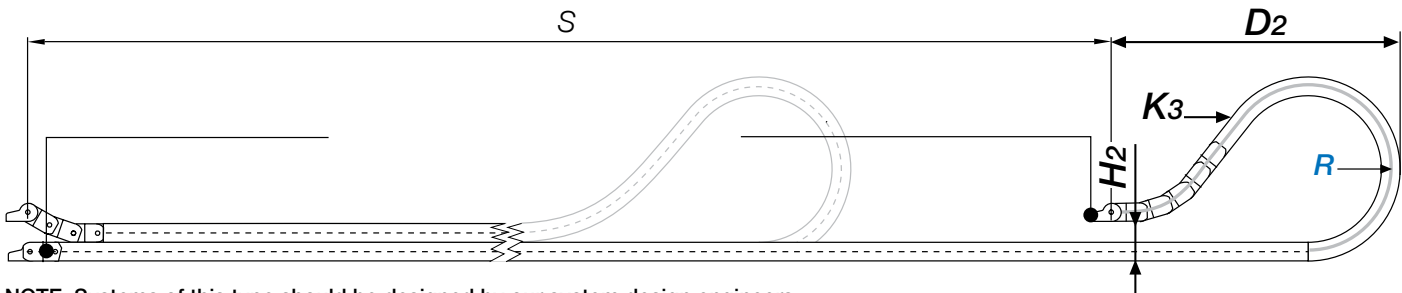
Part Number	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)
EA25-050- -0	1.97 (50)	2.36 (60)
Choose from the radii below for the above size		
	<i>Radius</i> (mm) Example: EA25-050- 100 -0	
	075	100
<i>R</i>	1.89 (075)	3.94 (100)
<i>H</i>	3.94 (100)	3.94 (100)
<i>D</i>	13.00 (330)	13.00 (330)
<i>K</i>	29.53 (750)	44.29 (1125)



Pitch = .98 (25 mm)
Links per ft (m) = 12.24 (40)
Chain length = S + K_s

Gliding applications

Long travel lengths up to 65.6 ft. (20 m), Fill weights up to 0.27 lbs/ft (0.4 kg/m)



NOTE: Systems of this type should be designed by our system design engineers.
Please contact igus® for assistance with your application.

<i>R</i>	1.89 (075)	3.94 (100)
<i>H</i>	3.94 (100)	3.94 (100)
<i>D</i>	13.00 (330)	13.00 (330)
<i>K</i>	29.53 (750)	44.29 (1125)

Easy to install:
snap-open along the outer
radius

Practical:
traversable floor
guides

Safe on track:
assembled glide wing
feeds the e-chain®

Universal:
Mounting bracket
with strain relief



Special glide shoes provide safe guiding of the E2/000 - autoglide - Version 04

In this version, special plastic glide shoes are side-mounted on the e-chain® link every 39.4 to 78.7 inches (1,000 to 2,000 mm). The function of these gliding shoes resembles the leeboard used on sailboats. Some of these glide shoes are conceived in such a way that in contact they pivot upwards and enable the continuation of the travel. Similarly the glide shoes in autoglide go up and down, each according to its position as lower run or upper run of the e-chain®. They provide the precise lateral guidance and a smooth glide of the e-chain®. The glide shoes are assembled every 24th e-chain® link from the moving end. Up to 32.8 ft. (10 m) length without floor guides possible in the series 2400/2450/2480/2500.

Typical industries and applications

- Industrial vehicles
- Long travels with easier filling
- Simple outdoor applications



Part number structure
2500-05-150-0-AG



Order example | Part number structure



Order example for complete e-chain® Series 2500, color black, with mounting brackets and interior separation:

e-chain® 32.8 ft. (10 m)	Please indicate e-chain® length or number of links: 32.8 ft. (10 m) or 249 links (Number of links in the assembly must be deducted)	2500-05-150-0
e-chain® + glide wing	Assembly consists of 4 e-chain® links and 2 glide wings	2500-05-1500-AG
+ Floor guides	8 pieces (2 pieces every 6.56 ft. (2 m) from the half of travel)	AG-380-BF

Order text: 249 links 2500-05-150-0 + 10 units 2500-05-150-AG + Mounting bracket + Interior separation (optional)

Note: Lateral glide wings are assembled on every 24th e-chain® link.

Speed max. rolling	max. 1.64 ft/s (0.5 m/s)
Acceleration max. gliding	max. 3.28 ft/s ² (1 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► Chapter 1



Series 2400 shown

- Series 2400 - snap-open along the inner radius
- Series 2450 - snap-open along the outer radius - standard
- Series 2480 - snap-open along the inner radius, enclosed along the outer radius
- Series 2500 - snap-open along the inner radius, fully enclosed

Supplement part number with required radius. Example: 2500-05-150-0-AG
 Pitch: 1.81 in. (46 mm) per link links/ft (m) = 6.63 (22)

Part Number e-chain® / E-Tube	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Floor Guide Single part
2400/2450/2480/2500-05- <input type="checkbox"/> -0-AG	2.24 (57)	2.87 (73)	AG-380-BF
2400/2450/2480/2500-07- <input type="checkbox"/> -0-AG	3.03 (77)	3.66 (93)	AG-380-BF
2400/2450/2480/2500-09- <input type="checkbox"/> -0-AG	3.50 (89)	4.13 (105)	AG-380-BF
2400/2450/2480/2500-10- <input type="checkbox"/> -0-AG	4.06 (103)	4.69 (119)	AG-380-BF
2400/2450/2480/2500-12- <input type="checkbox"/> -0-AG	4.92 (125)	5.55 (141)	AG-380-BF

Choose from the radii below for all of the above sizes
Radius (mm) Example: 2500-05-150-0-AG

	055*	075	100	125	150	175	200	225	250
<i>R</i>	2.17 (55)	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.86 (225)	9.84 (250)
<i>H</i>	4.33 (110)	5.91 (150)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)
<i>D⁺²⁵</i>	5.59 (142)	6.38 (162)	14.96 (380)	17.32 (440)	23.23 (590)	29.72 (755)	37.40 (950)	40.94 (1040)	44.49 (1130)
<i>K</i>	19.92 (506)	23.54 (598)	36.22 (920)	41.65 (1058)	56.14 (1426)	70.63 (1794)	86.93 (2208)	95.98 (2438)	105.04 (2668)

*This radius for Series 2450/2480 available upon request. Please consult igus® for delivery times.

Special solutions for long travel autoglide - Version 04 - Self-guiding e-chain systems® 2400/2450/2480/2500 - Installation Dimensions

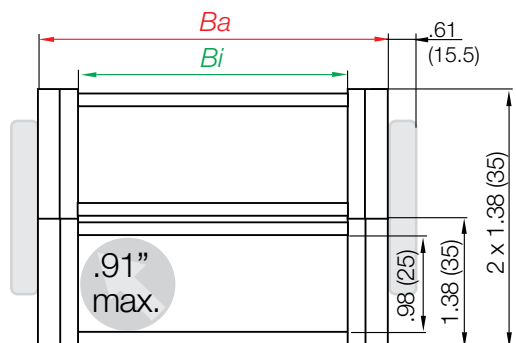


autoglide



Legend

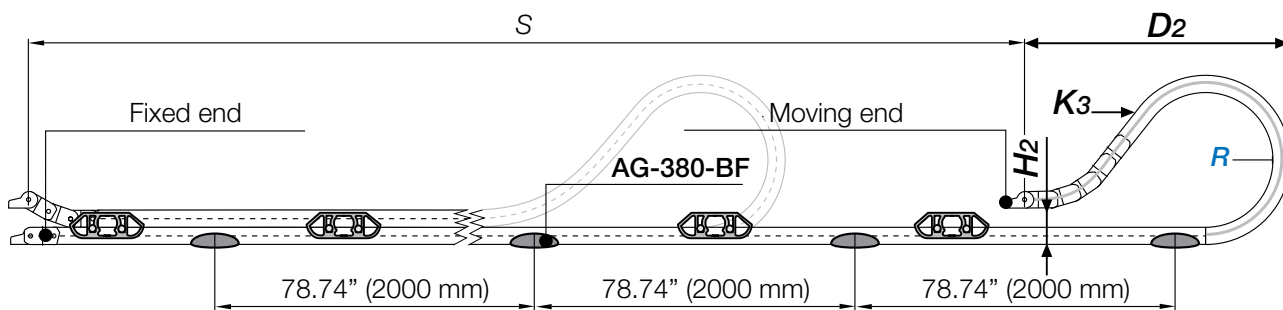
- S = Length of travel
- R = Bending radius
- H_{in} = Trough inner height
- H₁ = *Mounting height
- D₁ = Overlength - long travels, gliding



Gliding applications

Long travel lengths up to 65.6 ft. (20 m), Fill weights up to 1.08 lbs/ft (1.6 kg/m)
In case of travels less than 9.84 ft. (3 m) we recommend a self-supporting e-chain®.
Note: Lateral glide wings are assembled on every 24th e-chain® link.

Pitch per link = 1.81" (46 mm)
Links per ft (m) = 6.63 (22)
For center mount applications:
Chain length = $S + K_3$



R	2.17 (55)	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	8.86 (225)	9.84 (250)
H ₁	4.33 (110)	5.91 (150)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)	3.94 (100)
D ₁ ²⁵	5.59 (142)	6.38 (162)	14.96 (380)	17.32 (440)	23.23 (590)	29.72 (755)	37.40 (950)	40.94 (1040)	44.49 (1130)
K ₃	19.92 (506)	23.54 (598)	36.22 (920)	41.65 (1058)	56.14 (1426)	70.63 (1794)	86.93 (2208)	95.98 (2438)	105.04 (2668)

*This radius for Series 2450/2480 available upon request. Please consult igus® for delivery times.

Available Accessories



Optimized, cable-friendly interior separation program

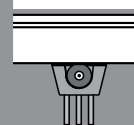
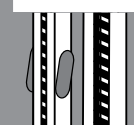
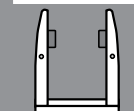
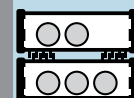


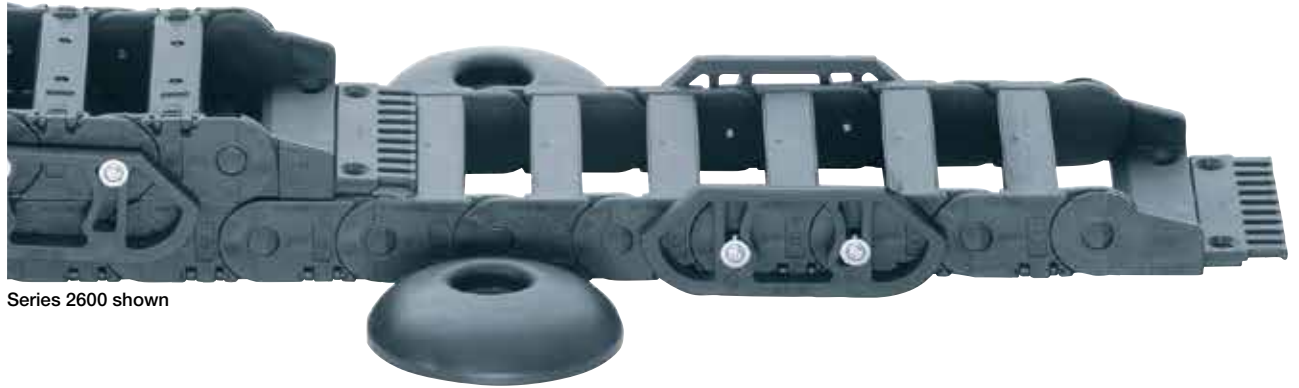
Pivoting mounting brackets for gliding applications



Pivoting KMA mounting brackets with attachment points on all sides

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Series 2600 shown

- Series 2600 - snap-open along the inner radius
- Series 2650 - snap-open along the outer radius - standard
- Series 2680 - snap-open along the inner radius, enclosed along the outer radius
- Series 2700 - snap-open along the inner radius, fully enclosed

Supplement part number with required radius. Example: 2600-05-150-0-AG
 Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.45 (18)

Part Number e-chain® / E-Tube	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Floor Guide Single part
2600/2650/2680/2700-05- <input type="checkbox"/> -0-AG	1.97 (50)	2.60 (66)	AG-380-BF
2600/2650/2680/2700-06- <input type="checkbox"/> -0-AG	2.56 (65)	3.19 (81)	AG-380-BF
2600/2650/2680/2700-07- <input type="checkbox"/> -0-AG	2.95 (75)	3.58 (91)	AG-380-BF
2600/2650/2680/2700-09- <input type="checkbox"/> -0-AG	3.54 (90)	4.17 (106)	AG-380-BF
2600/2650/2680/2700-10- <input type="checkbox"/> -0-AG	3.94 (100)	4.57 (116)	AG-380-BF
2600/2650/2680/2700-12- <input type="checkbox"/> -0-AG	4.92 (125)	5.55 (141)	AG-380-BF
2600/2650/2680/2700-15- <input type="checkbox"/> -0-AG	5.91 (150)	6.54 (166)	AG-380-BF
2600/2650/2680/2700-17- <input type="checkbox"/> -0-AG	6.89 (175)	7.64 (194)	AG-380-BF

Choose from the radii below for all of the above sizes
Radius (mm) Example: 2600-05-150-0-AG

	075*	100	125	150	175	200	250		
R	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)		
H	5.91 (150)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)		
D²⁵	5.91 (150)	13.78 (350)	18.70 (475)	19.69 (500)	25.79 (655)	30.31 (770)	37.40 (950)		
K	24.33 (616)	33.07 (840)	44.09 (1120)	48.50 (1232)	61.73 (1568)	72.76 (1848)	90.39 (2296)		

*This radius for Series 2650/2680 available upon request. Please consult igus® for delivery times.

Special solutions for long travel autoglide - Version 04 - Self-guiding e-chain systems® 2600/2650/2680/2700 - Installation Dimensions

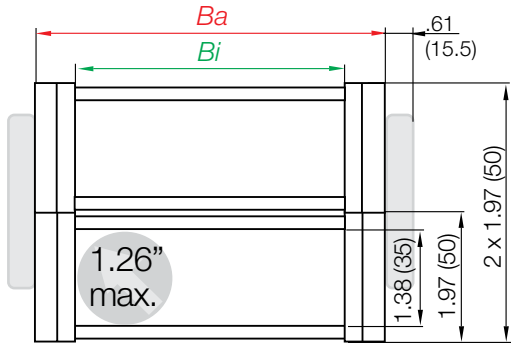


autoglide



Legend

- S = Length of travel
- R = Bending radius
- H_{in} = Trough inner height
- H = *Mounting height
- D = Overlength - long travels, gliding



Gliding applications

Long travel lengths up to 98.4 ft. (30 m), Fill weights up to 1.34 lbs/ft (2.0 kg/m)
In case of travels less than 9.84 ft. (3 m) we recommend a self-supporting e-chain®.

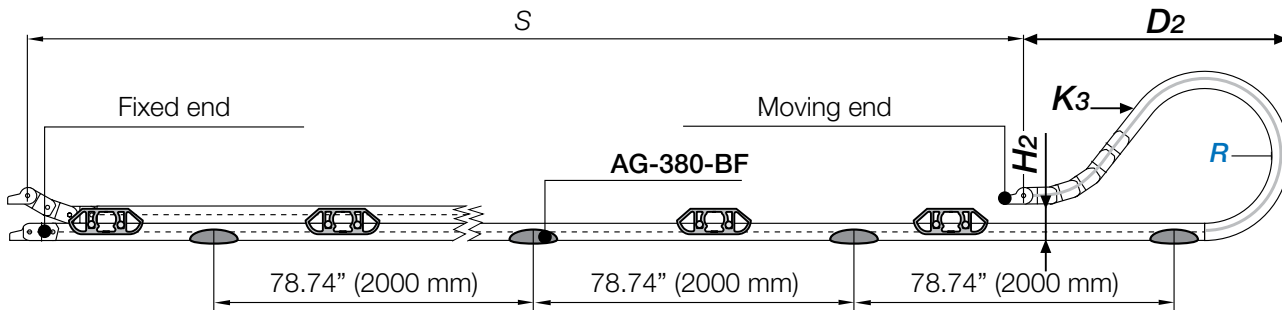
Note: Lateral glide wings are assembled on every 24th e-chain® link.

Pitch per link = 2.20" (56 mm)

Links per ft (m) = 5.45 (18)

For center mount applications:

Chain length = $S + K_3$



R	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
H	5.91 (150)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)	6.54 (166)
D ^{*25}	5.91 (150)	13.78 (350)	18.70 (475)	19.69 (500)	25.79 (655)	30.31 (770)	37.40 (950)
K	24.33 (616)	33.07 (840)	44.09 (1120)	48.50 (1232)	61.73 (1568)	72.76 (1848)	90.39 (2296)

*This radius for Series 2650/2680 available upon request. Please consult igus® for delivery times.

Available Accessories



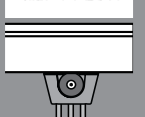
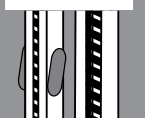
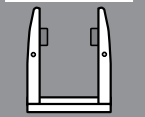
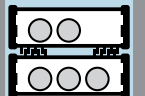
Optimized, cable-friendly interior separation program

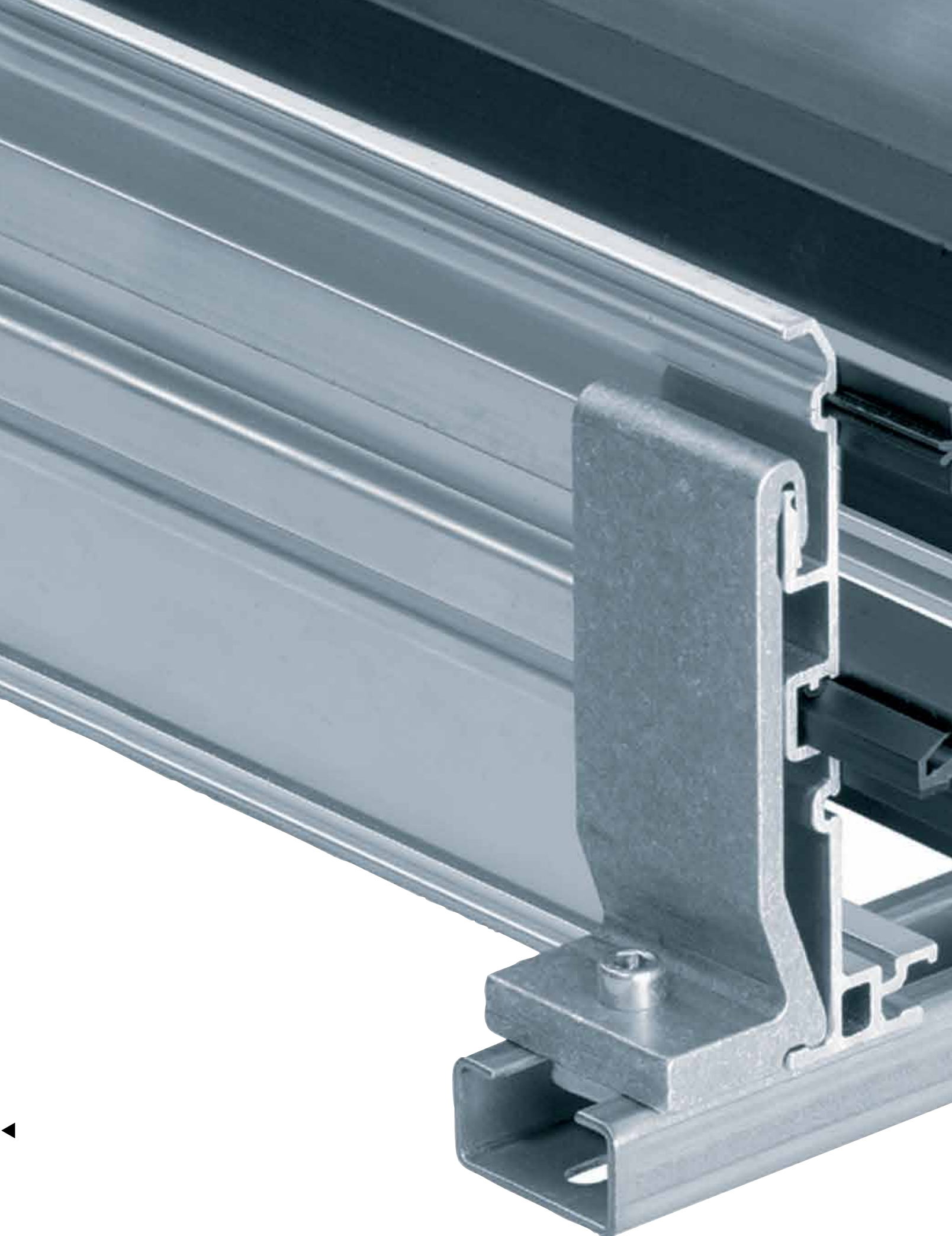


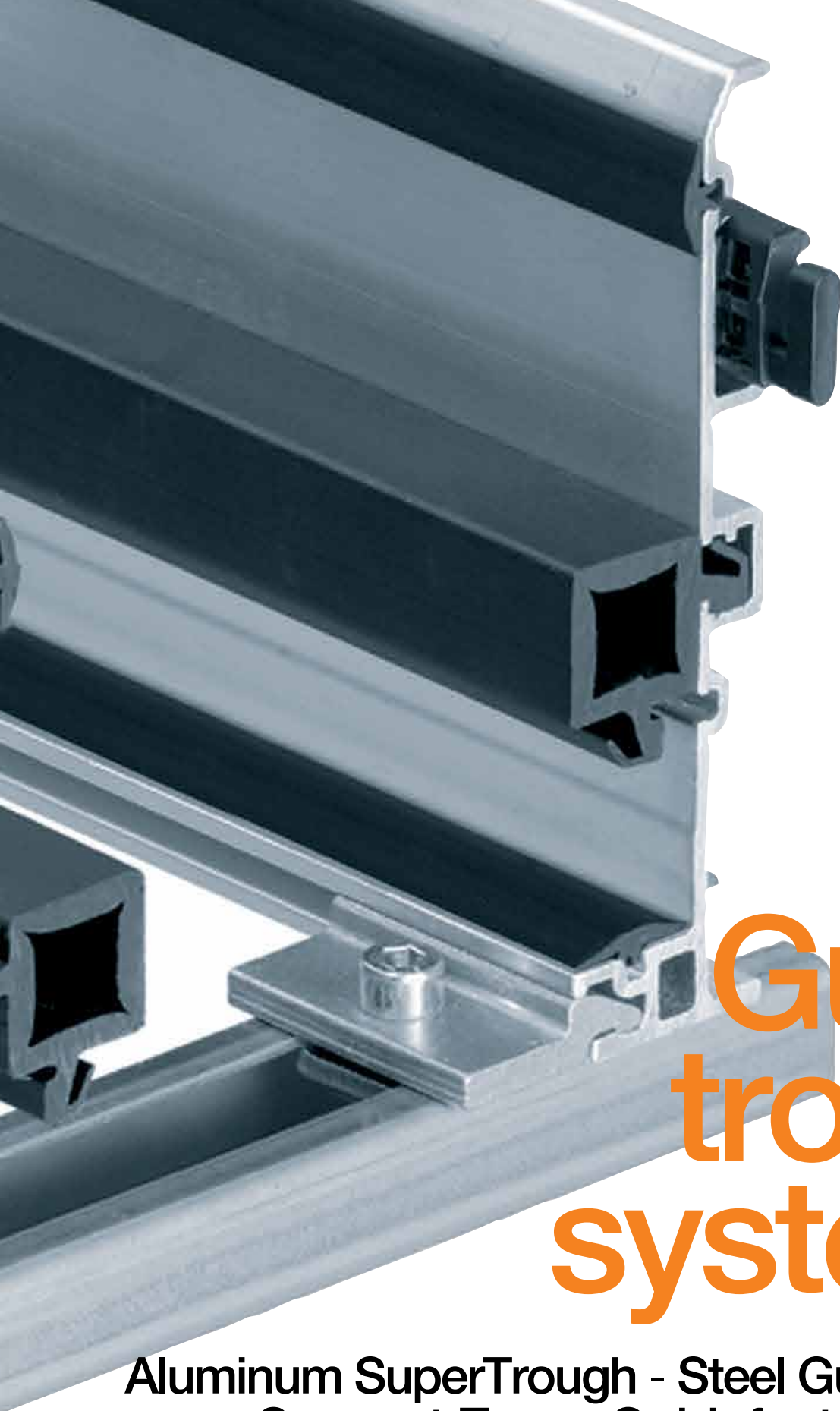
Pivoting mounting brackets for gliding applications



Pivoting KMA mounting brackets with attachment points on all sides



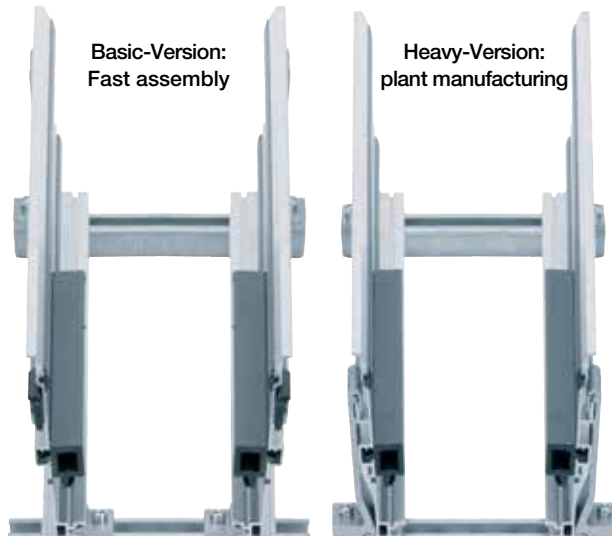




Guide trough systems

Aluminum SuperTrough - Steel Guide Trough |
Support Tray - Guidefast - Guidelite |

Guide Troughs - Aluminum and Steel



Aluminum SuperTrough - The igus® standard guide trough

- Huge program available for almost all igus®
- Very simple, modular assembly
- Side-mounted glide strips for wear protection in high-speed
- Corrosion resistant, seawater resistant aluminum profile
- Flexible assembly - Fastening on substructure independent of profile lengths and butt joints
- Plastic glide bar made of PE
- Bottom clamp can be mounted -inside or outside- directly on the bottom or on the profile rail
- Heavy duty brackets for high load applications (add on item)



Steel guide trough - stable and rugged for heavy duty applications

- Very stable and robust guide trough made of steel for high load applications
- Easy assembly due to installation set for joint and attachment surface connection
- Simple fastening directly on the ground or with profile rails
- Big range, two piece design, adjustable to e-chain® width
- Available in galvanized steel and stainless steel
- Low friction: glide bar made of PE
- Fixed end module, for fast and easy mounting - without drilling (add-on item)

Other Trough Options



For support of the lower run - Support tray tool kit

- Simple one-piece support trays
- Complete system, ready to install
- No more costly self-made designs
- Easy installation onto your machine, on profiles or wall-mount brackets



For crane girders and indoor cranes - Guidefast guide trough

- Save up to 80% installation time
- Fits virtually any standard crane girder
- Simplified installation, permanently installed cable can be fixed at the trough brackets
- With plastic glide bars for center fed applications



Realize long travels up to 492 ft - Guidelite - quick and cost-effective

- Simple one-piece support trays
- Complete system, ready to install
- No more costly self-made designs
- Easy installation onto your machine, on profiles or wall-mount brackets



Various guide trough systems are available



Hundreds of igus® Guide Trough in stock

We are always happy to advise you by telephone or on site. Special solutions provided by igus® often result in significant assembly cost savings.



Trough without glide bars:
e-chain® glides on top of itself



Trough with glide bars:
e-chain® glides on glide bars



Center mounted:
1/2 travel with glide bars
1/2 travel without glide bars

igus® guide troughs

Guide troughs are used for long travels. They allow for smooth low-friction operation in long travel applications. If the fixed end is installed in the center of the travel (center mounted), the e-chain® glides on itself for half the travel. For the other half we recommend glide bars, which are assembled in the trough and on which the e-chains® glide. igus® guide troughs are available from stock with these highly abrasion resistant polymer glide bars, which perform well with igus® e-chains® regarding noise, abrasion and friction.

Trough type

igus® offers guide troughs made of corrosion-resistant aluminum or steel. The trough type to be used depends on the application conditions and the requirements of the customer.

Glide bars

Glide bars made of igulen are optimally matched to the e-chain® material and achieve the lowest values of friction, noise and wear. Glide bars must be used if the fixed point is in the center of the travel. Refer to pictures below.

Delivery condition

The troughs are supplied in 6.56 ft (2 m) sections. The side parts (left and right) are installed on site at the required distance apart, depending on the width of the chain. The necessary width is shown in the table on the guide trough page of the respective chain chapter. The side parts of the trough can be bolted or welded directly to the attachment surface or connected to the base by means of screwing or welding or by using a special igus® installation set.

Guide trough systems can be ordered various ways: all the individual parts as separate components or completely assembled.

Customer-Supplied Guide Troughs

The dimensional data in this chapter consists of auxiliary dimensions for design and assembly. They apply exclusively to igus guide trough systems.

If the igus® e-chain® customer supplies the trough, all dimensions (including installation dimensions) must be obtained from igus. This is particularly important for one-piece guide troughs. The clearance between the guide trough and e-chain® is crucial and depends on the chain type, length and size, as well as the bending radius and the tolerance of the carrier and the attachment surface.

Since such guide troughs cannot be adjusted according to the application during the assembly process and cannot be readjusted in operation, careful calculation is required throughout this process.

For long travels, the upper run of the igus® e-chain® rests on the lower run. The upper run glides partially on the lower run and partially at the same height on the glide bar. The diagram below shows this. For lateral guidance, a guide trough is necessary. If the stationary mounting bracket and the fixed end of the cables and hoses can be placed in the center, the e-chain® length is calculated as follows: $L_k = S/2 + K_2$

The shortest e-chain® length is attained by the axial feeder module. The length of the e-chain® then corresponds to about half the travel distance. Depending on the technical data and the selected e-chain® the mounting point of the moving end of the e-chain® must be lowered on some units. In our system analysis for long travels we give exact details for your specific application.

Selection criteria

The following parameters are required for the design of a trough system:
Following parameters are required for the design of a trough system:

- e-chain® type (Series, width B_i , radius R)
- Travel and travel speed
- Fill weight
- Acceleration and/or lagging
- Lateral accelerations
- Environmental conditions

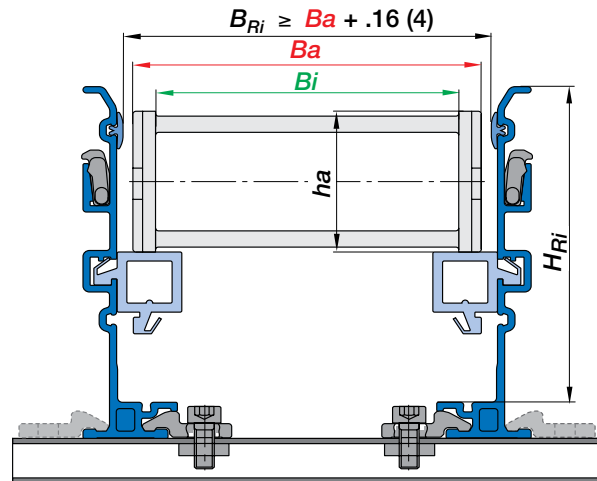
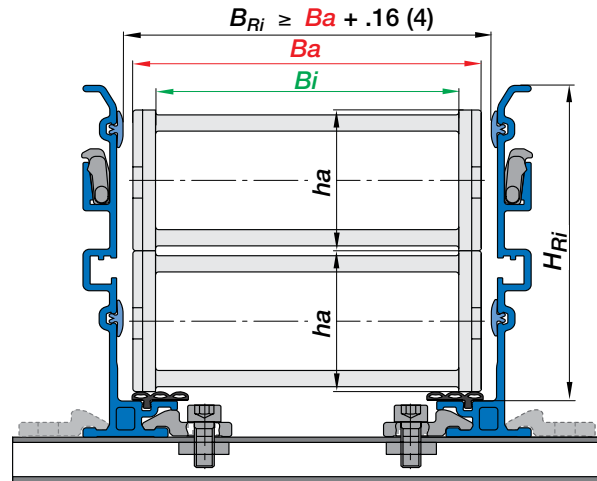
Design and installation of the guide trough

The guide trough is an important element in long travel applications. Usually, the height of the trough must be at least twice that of the e-chain® link height: $H_{ri} \geq 2 \times ha$. The sides must provide a chamfered opening. The trough inner width is the same as the e-chain® outer width, plus .16" (4 mm) $B_{ri} = Ba + .16 (4)$. Along the side of the trough, where the upper run cannot glide on the lower run, glide bars must be installed. We recommend the use of polymer glide bars from igus®. They are optimally matched to the e-chain® material and achieve the lowest values for friction, noise and wear. Guide troughs with and without glide bars can be obtained for almost all igus® e-chains®. **Important:**

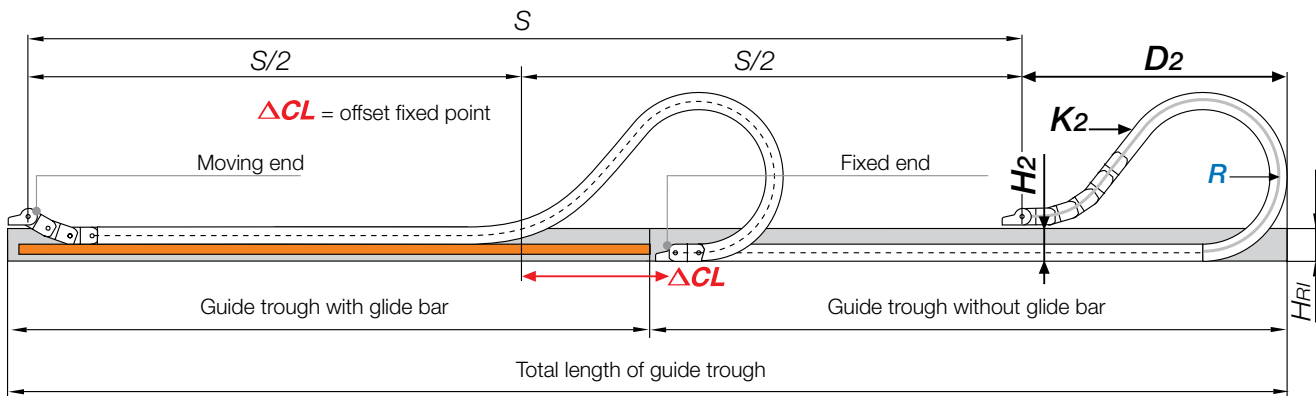
When assembling the trough parts, the following points must be given particular attention:

- Properly align all trough parts upon installation
- All screw heads should be flush with the trough
- Smooth leveled transition between the end of the e-chain® and the glide bars
- Solid connection with the glide surface.

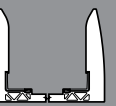
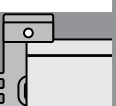
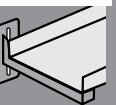
These points must be observed when using assembly-friendly igus® guide troughs.



e-chain® length $L_k = S/2 + K_2$
 Inner trough height $H_{ri} \geq 2 \times ha$
 Inner width, Aluminum SuperTrough $B_{ri} = Ba + .16 (4)$
(Ba + 5 Steel guide trough)



- | | | | | |
|--|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> ● Trough set ● Installation set ● Glide bar ● Profile rail | <ul style="list-style-type: none"> Ba = Outer width e-chains® Bi = Inner width e-chains® R = Bending radius ΔCL = Offset fixed point S = Length of travel $S/2$ = Half length of travel | <ul style="list-style-type: none"> B_{ri} = Inner trough width B_{ra} = Outer trough width H_{ri} = Inner trough height H_{ra} = Outer trough height ha = Outer e-chain® height L_k = e-chain® length | <ul style="list-style-type: none"> H_2 = Mounting height (if the moving end is set lower) D_2 = Over length - long travels, gliding K_2 = Further add-on (if the moving end is set lower) H_f = Required clearance height |
|--|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Profile rail Part No. 92-52-XX

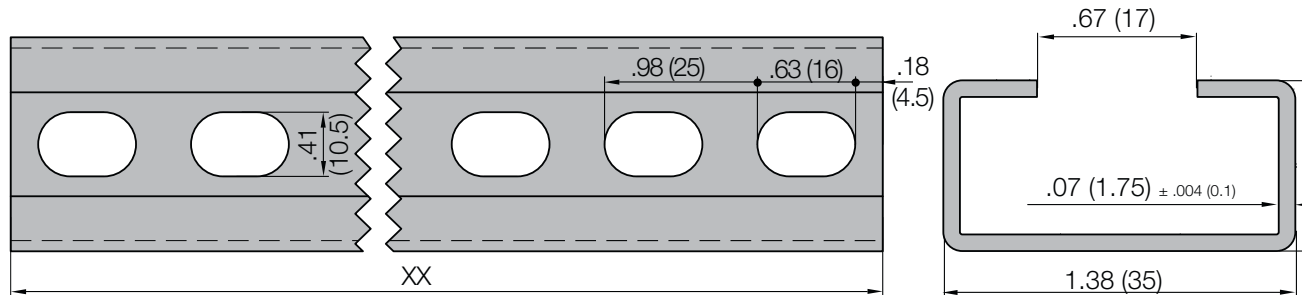
- For all igus® Aluminum SuperTrough and Steel guide troughs
- With increased holding power - even for harsh applications
- Standard material: galvanized steel
Part No. CF-92-52G-XX (XX - length in mm)
- Profile rail available in galvanized steel. Optional:
Stainless steel material V2A, material 1.4301 (AISI 304).
For AISI 304 please add index "SS" to the Part No. CF-92-52GSS
- Length tolerances of ±5 mm possible!



Profile rail Part No. CF-92-52G -

With increased holding power also for harsh conditions

Assembly in front of the e-chain® - **CANNOT** be integrated into KMA mounting bracket

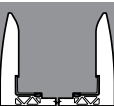
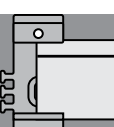
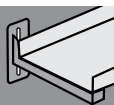


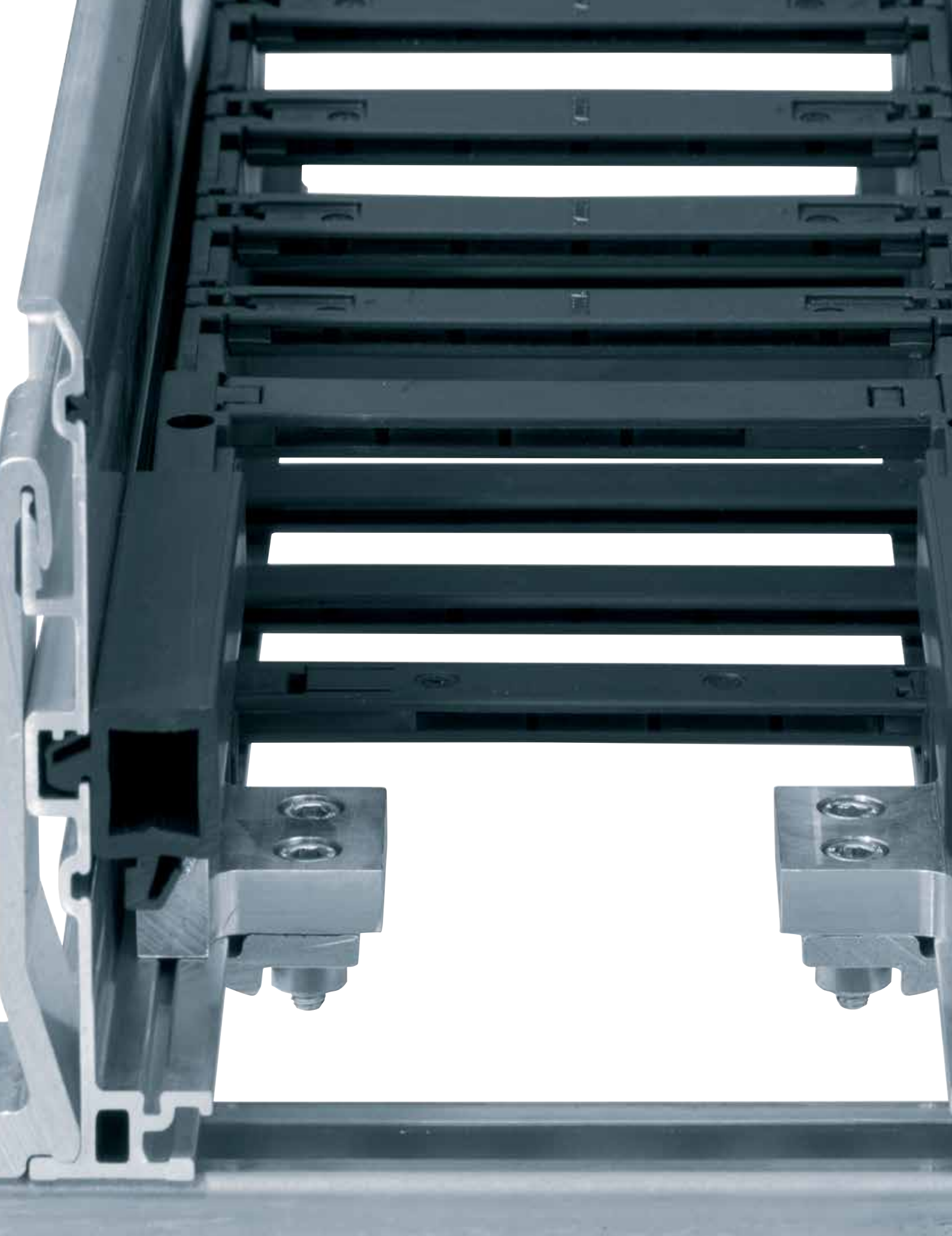
Profile rail Part No. CF-92-52G.XX - For all igus® Aluminum SuperTrough and Steel guide troughs



All types of installations are possible. Very long, "green systems" up to 2,018 ft. (615 m) help to reduce energy costs, and are comprised of igus® e-chains®, chainflex® cables and corresponding guide troughs. Mix-and-match components allow for maximum design flexibility, and all igus® e-chains® and chainflex® cables offer extended service lives, even in harsh weather, polluted environments, and dirty, dusty applications

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains







Aluminum SuperTrough

For general use



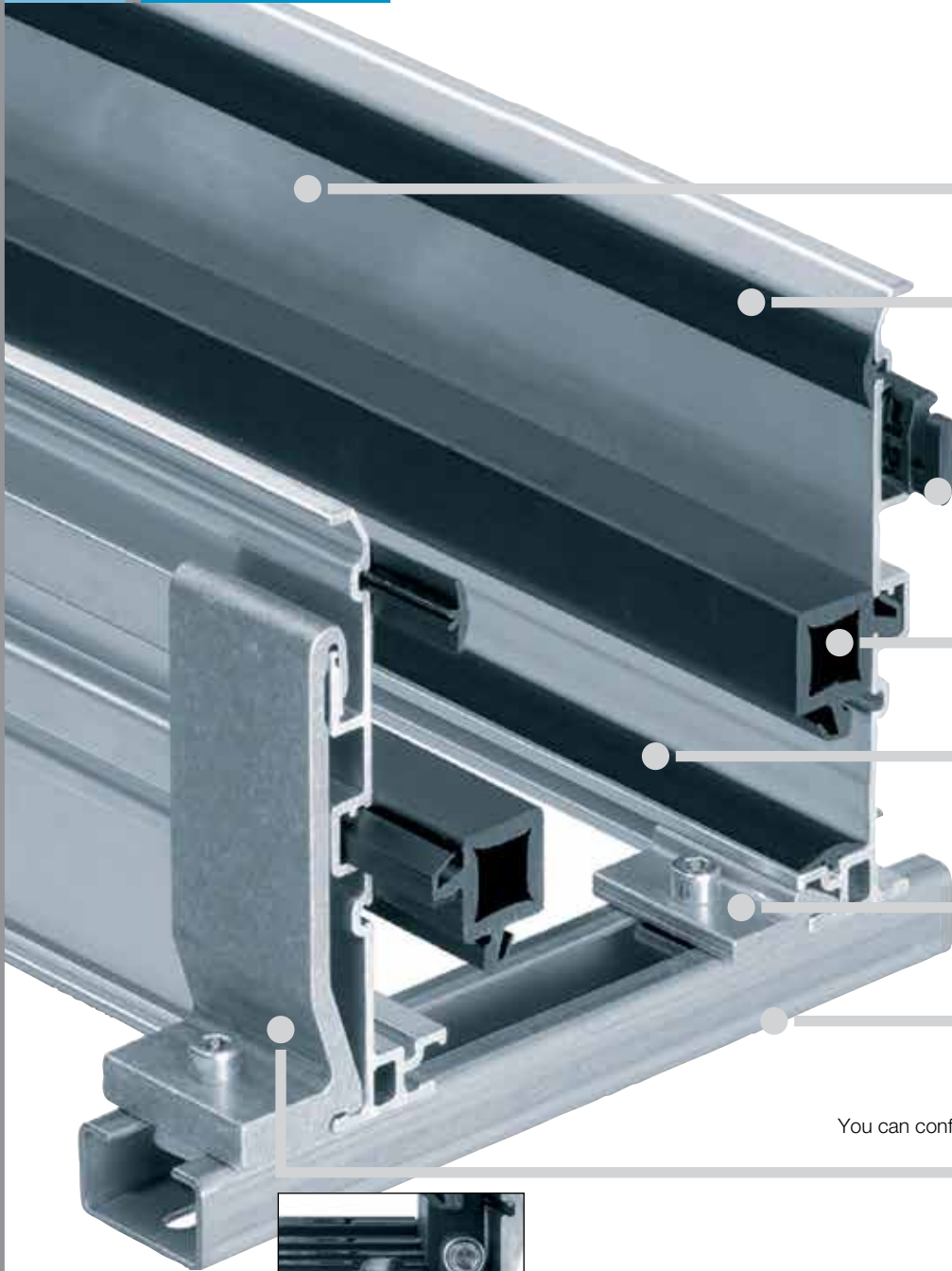
Advantages aluminium SuperTrough

- Huge range available for almost all igus® e-chains®
- Very simple, modular assembly
- Corrosion-resistant, seawater-resistant aluminium profile
- Flexible assembly
- Heavy-duty bracket option for high load applications:
you can configure the heavy-duty version online
 - ▶ www.igus.com/alu-guide
- Conductivity according to DIN EN 61537 - as standard
- Glide strips for wear protection at high-speed



When to use another guide trough:

- When a very tough guide trough made from steel is required for heavy-duty applications
 - ▶ **Steel guide troughs**



Huge program:
Aluminum profile (Standard: 6.56 ft. (2 m) section)
available for almost all igus® e-chains®
Seawater resistant and corrosion resistant

Wear-reducing: Glide strip
Protect from wear on the sides

Fast connection:
Interface connector Basic, plastic, easy
assembly, no tools needed

Wear-reducing
Plastic glide bar
Easy click-on assembly

Noise-reducing:
Silencer profile, rubber (add-on item)

Simple fastening: Bottom clamp Basic,
attached inwards or outwards, fast and easy

Simple fastening:
Profile rail, for bottom clamps

high load: Heavy-Duty bracket (add-on item)
You can configure the Heavy-Duty version at our online-catalog
► www.igus.com

Simple connection:
Fixed end module (add-on item),
for fast and easy mounting - without any drilling

Aluminum SuperTrough

The Aluminum SuperTrough is a modular guide trough system for long travels (gliding application). Aluminum SuperTrough is available in low cost basic versions and can be upgraded for Heavy-Duty applications. This modular usage makes it the igus® recommended standard trough system.

- Very simple, modular assembly
- Corrosion resistant, seawater resistant aluminum profile
- Flexible assembly - Fastening on substructure independent of profile lengths and butt joints
- Misalignment-free installation - No screwing or welding of the profiles required

Installation Guide PDF with detailed assembly information ► www.igus.com/installation-guide-pdf

Series Part No.	Outer trough height H_{Ra} (mm)	Installation set* Part No.	side part material
--------------------	--------------------------------------	-------------------------------	-----------------------



Basic version, Standard -
for general use

970-30-SL / 970-31-SL	3.03 (77)	960-30	aluminum
970-30-SL / 970-32-SL	3.03 (77)	960-30	aluminum
971-30-SL / 971-31-SL	3.43 (87)	960-30	aluminum
972-02-30-SL / 972-02-31-SL	4.61 (117)	960-30	aluminum
972-30-SL / 972-31-SL	4.61 (117)	960-30	aluminum
972-30-SL / 972-32-SL	4.61 (117)	960-30	aluminum
973-30-SL / 973-31-SL	5.67 (144)	960-50	aluminum
974-30-SL / 974-31-SL	7.24 (184)	960-50	aluminum
975-30-SL / 975-31-SL	9.29 (236)	960-50	aluminum



Heavy Duty version -

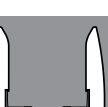
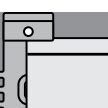
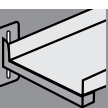
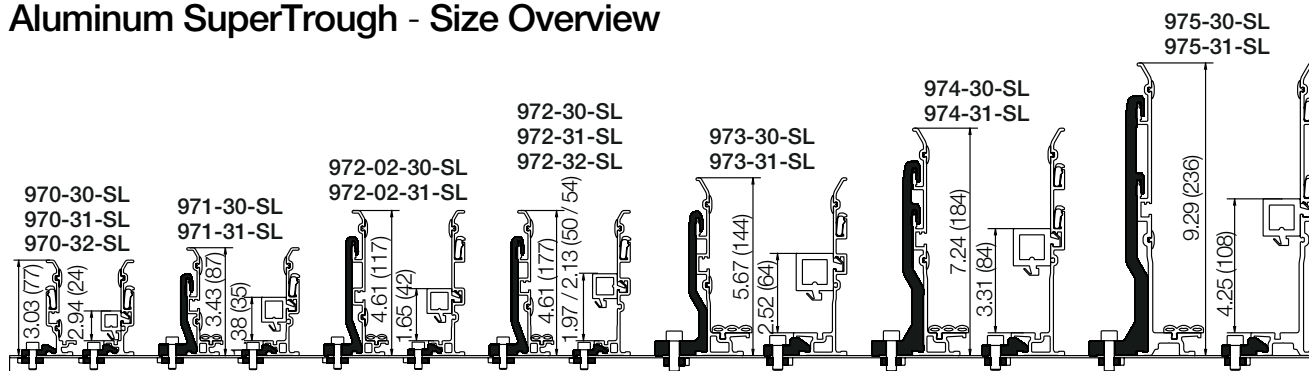
for rugged plant construction

You can configure the Heavy Duty version online with the respective e-chain® you've chosen

971-30-SL / 971-31-SL	3.43 (87)	971-50	aluminum
972-02-30-SL / 972-02-31-SL	4.61 (117)	972-50	aluminum
972-30-SL / 972-31-SL	4.61 (117)	972-50	aluminum
972-30-SL / 972-32-SL	4.61 (117)	972-50	aluminum
973-30-SL / 973-31-SL	5.67 (144)	973-50	aluminum
974-30-SL / 974-31-SL	7.24 (184)	974-50	aluminum
975-30-SL / 975-31-SL	9.29 (236)	975-50	aluminum

*The basic Installation sets are the standard for the Aluminum SuperTroughs. They can be fastened inside or outside and are recommended for most application areas. The basic clamping shoes are made of aluminum. The Heavy-Duty version is differentiated only by the type of the installation set. The part numbers of the channel side plates, slide bars, etc., are the same as the basic model. The Heavy-Duty installation set consists of a rugged aluminum bracket, fastened outside on the guide trough.

Aluminum SuperTrough - Size Overview



Components, trough

- 1 Trough side parts, aluminum, 2 m
- 2 Glide bar, plastic, 2 m
- 3 Glide strips, plastic, 2 m
(without glide strips on request)
- 4 Optional: Silencer profile, rubber

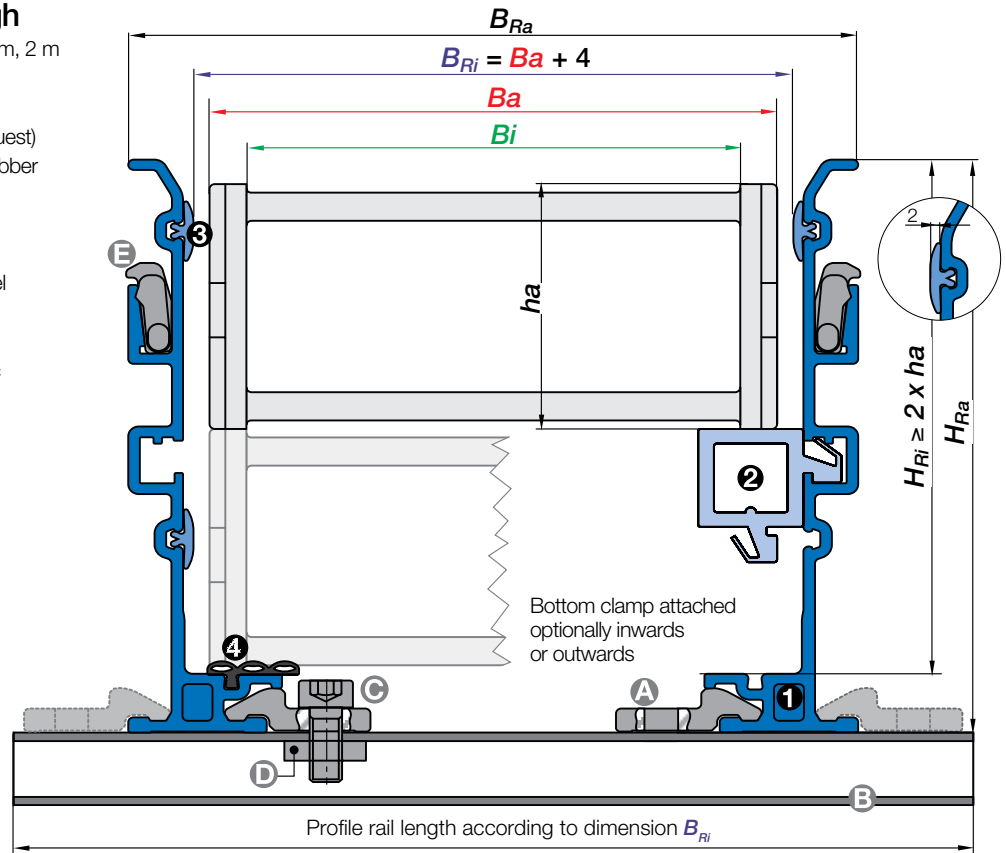
Components, installation set

- A Bottom clamp, aluminum
- B Profile rail¹⁾, galvanized steel
- C Screw
- D Sliding nut
- E Interface connector, plastic

- Ba = Outer e-chain® width
- Bi = Inner e-chain® width
- ha = e-chain® outer height
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width
- B_{Ra} = Outer trough width

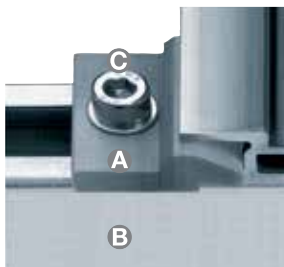
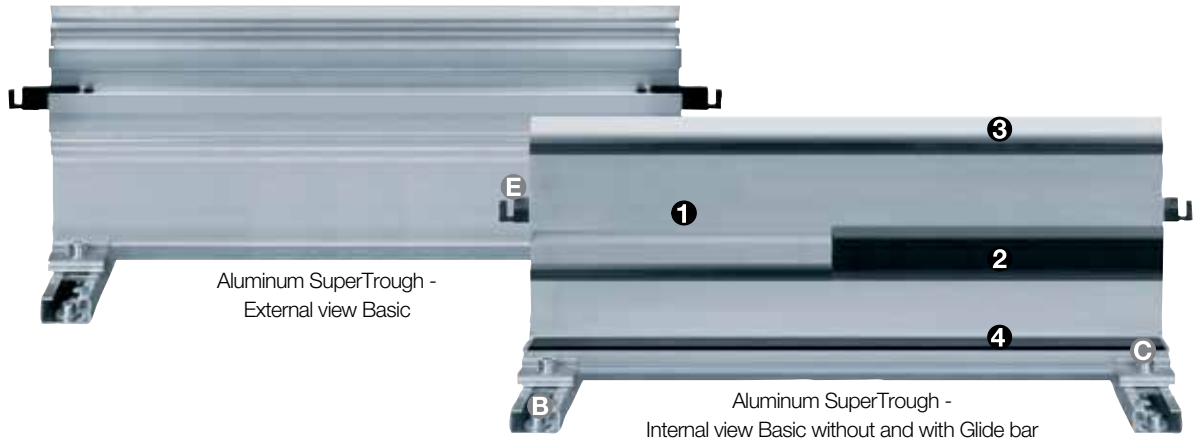
$$H_{Ri} \geq 2 \times ha$$

$$B_{Ri} = Ba + 4$$

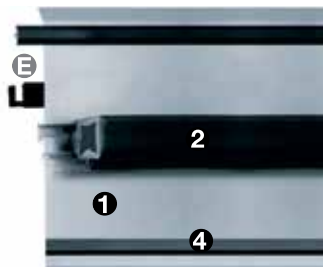


1) Profile rail also available in stainless steel V2A, material 1.4301 (AISI 304)

Aluminum SuperTrough | Features



Simple fastening with Basic bottom clamp and profile rail



Wear-reducing with polymer glide bar and glide strip



Noise-reducing with silencer profile (add-on item)



Simple connection to the e-chain® with the fixed end module

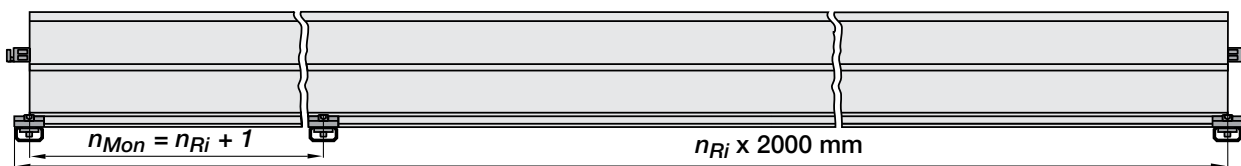
Aluminum SuperTrough - Configured according to your requirements

Quick and easy assemble the right trough for your application

- Selection of the suitable guide trough according to the e-chain® Series and e-chain® width *Bi*
- Determine the feeding point of the cables
- Determine travel distance and thus the length of the required guide trough and the number of trough pieces. Standard length of a trough side plate: 78.7" (2000 mm). The length of the guide trough - for axial feeding - is calculated from half the travel length with and half the travel length without the glide bar
- Option: "Sound dampening" with silencer profile
- Number and selection of the assembly kit

There are two assembly kit options: Basic (standard), Heavy-Duty (for plant construction)

The quantity of the assembly kit is calculated from the number of the trough pieces + 1 kit:



- The assembly kit matches the igus® profile rail option
- If you have opted for an e-chain® with KMA mounting brackets, we offer you a fixed-end module for the quick and simple fastening of the e-chain® in the trough without holes

Installation Guide-PDF with detailed assembly information

➤ www.igus.com/installation-guide-pdf

Order example Based on Part No. 973-30-SL / 973-31-SL



Order example: Length of travel 98.4 ft. (30 m) -

Center mounted for Series 3500-100-200-0 with $B_{Ri} = 124$

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

Order text: 52.5 ft. (16 m) guide trough without glide bar (8 x 6.56 ft. (2 m) sections)

Part No. 973-30-SL

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

Order text: 52.5 ft. (16 m) guide trough with glide bar (8 x 6.56 ft. (2 m) sections)

Part No. 973-31-SL

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

Order text: 17 installation sets "Basic"

Part No. 960-40-175

Module for the fixed end

Order text: 1 set

Part No. 973-80-5

Option: For an additional noise dampening with

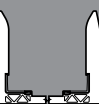
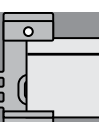
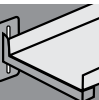
silencer profile, please add Index A Example:

Part No. 973-30-SLA

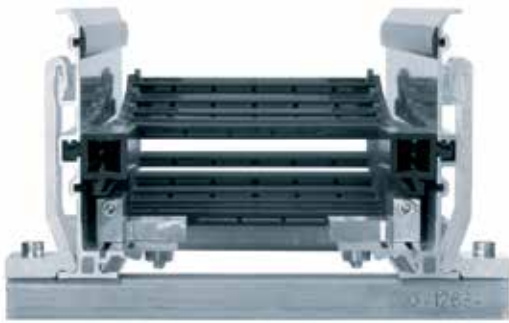


Calculation - travel center mounted: Half travel length, rounded down to full 2 m sections = X m guide trough length without glide bars + X m guide trough length with glide bars + installation sets Basic (number of trough pieces + 1)

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

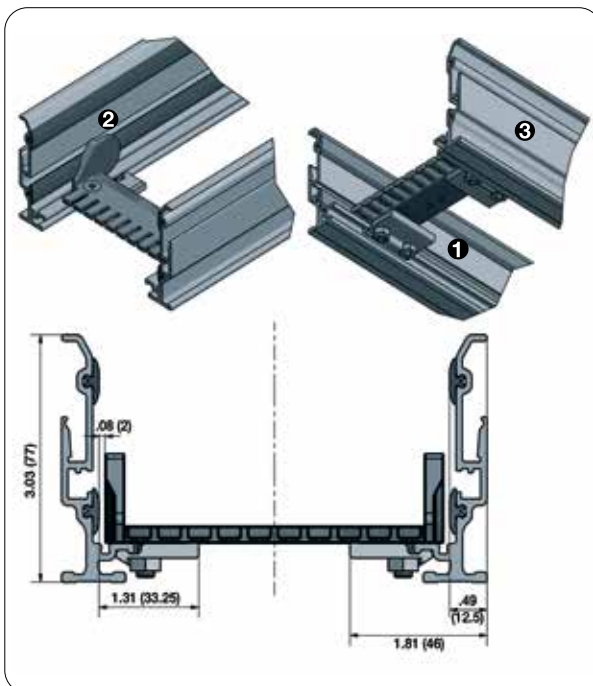
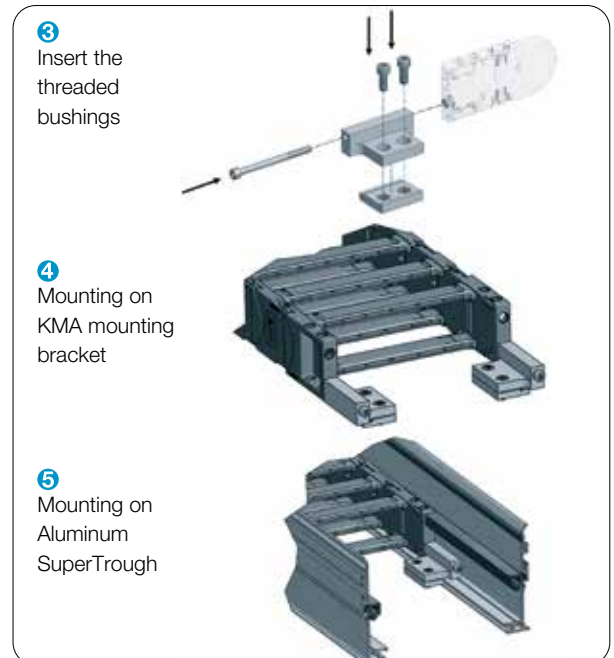
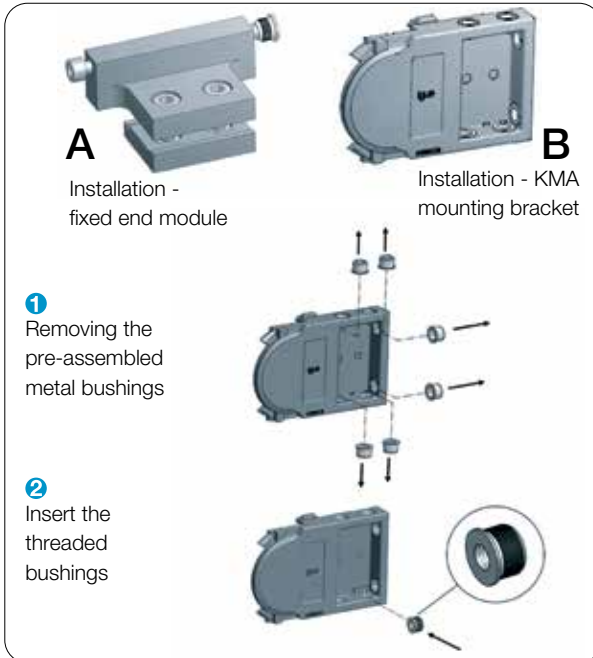


A quick fix for mounting the stationary end of an e-chain®



Optimized fixed end module

- Lighter more cost-effective than previous metal solutions
- Mounting bracket attachment on the Aluminum SuperTrough without drilling
- Fixed end module is clamped to the trough
- Save installation time
- Minimize errors from drilling your own holes
- Available for many E2, E4 and E6 Series e-chains®
- Stainless and cost-effective



Fixed end clamp to attach the e-chain® into the smallest SuperTrough 970-30-SL

For mounting brackets from Series: 10, 15/R15, B15, 1500. The fixed end clamp enables quick and simple attachment by clamping onto the Aluminum SuperTrough without drilling

- Quick attachment of the e-chain® to the Aluminum SuperTrough
- The mounting point of the e-chain® can be changed quickly
- Minimize errors from drilling your own holes
- Available for many E2, E4 and E6 Series e-chains®
- Stainless and cost-effective

Fixed end clamp design:

- 1 Fixed end clamp 970-80
- 2 Mounting bracket
- 3 Aluminum SuperTrough 970-30-SL

Guide Trough Systems Aluminum SuperTrough Fixed End Module

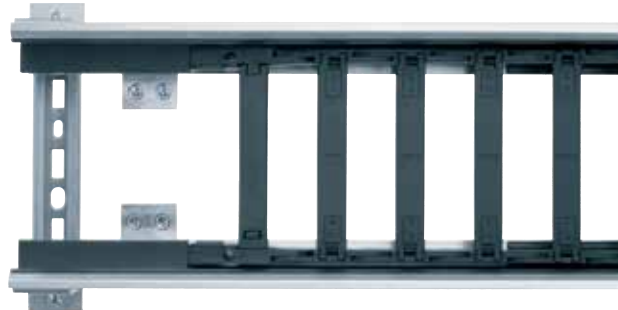


Part No.	For Aluminum SuperTrough	For e-chain® Series	Application including inner width (B _i)	Mounting Bracket
970-80 ¹⁾	970-30-SL 970-31-SL	10, B15, 15/R15	.050	one-piece
970-80 ¹⁾	970-30-SL 970-32-SL	1500	.050	one-piece
971-80-4 ¹⁾	971-30-SL 971-31-SL	2500, 255	.07	KMA
972-80-4 ¹⁾	972-02-30-SL 972-02-31-SL	E4-28/R4-28, E4-31L/R4-31L	.06	KMA
972-80-4 ¹⁾	972-30-SL 972-31-SL	E4-32/H4-32/R4-32, E4-38L/R4-38L	.06	KMA
972-80-4 ¹⁾	972-30-SL 972-32-SL	2700, R58	.06	KMA
973-81-5 ¹⁾	973-30-SL 973-31-SL	E4-42/H4-42/R4-42, E4-48L/R4-48L	.10	KMA
973-80-5 ¹⁾	973-30-SL 973-31-SL	3500, R68	.100	KMA
974-81-5 ¹⁾	974-30-SL 974-31-SL	14040/14140/R18840, 14240/14340, E4-64L/R4-64L	.10	KMA
974-80-5 ¹⁾	974-30-SL 974-31-SL	E4-56/H4-56/R4-56	.10	KMA
975-80 ²⁾	975-30-SL 975-31-SL	E4-80/H4-80/R4-80	.10	KMA
975-81 ²⁾	975-30-SL 975-31-SL	15050/15150/R19850, 15250/15350	.10	KMA

1) Material: plastic 2) Material: Aluminum AlMg3, seawater resistant
Material screw kits: Standard steel, galvanized. Optional stainless steel: V4A, material 1.4571 (AISI 316Ti)

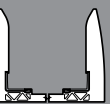
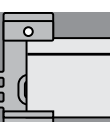
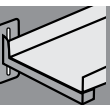


Fixed-end module - Simple fastening of the e-chain® without drilling

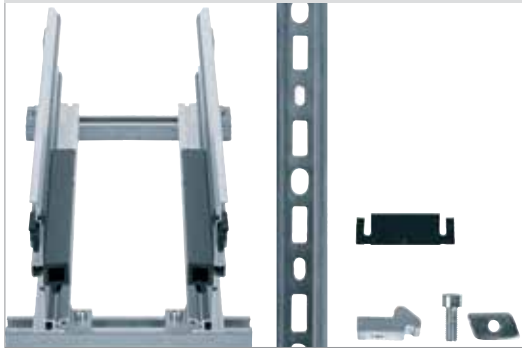


The igus® aluminum SuperTrough has been tested since 2005.
Test "Axis 1": Speed 4.92 ft/s (1.5 m/s), Travel: 59 ft (18m), Mileage to date: approximately 31,069 miles (50,000 km)

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Installation Sets | Basic and Heavy Duty



Installation Set Basic



Installation Set Heavy Duty

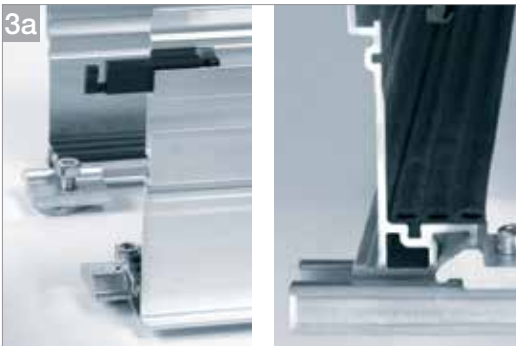
Installation Set | Basic (Standard)



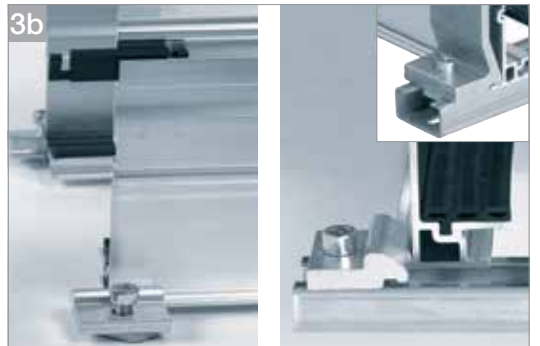
1 Pre-assemble clamp and screw



2 Clip in polymer connector on both sides of the designated support



Fasten Basic assembly set inside 3a or outside 3b (Please check if the stability of the attachment is adequate). Please note: half the length of the assembly set and connector must protrude out of the trough. The glide nut should be well fastened in the profile rail



Installation Set | Heavy Duty (Alternative)



1 Pre-assemble heavy duty bracket and screw set 2 Fasten Heavy Duty assembly set outside. Please note: half the length of the assembly set and connector must protrude out of the trough.



Installing the silencer profile (optional)



Cut the rubber profile in accordance to the length of the trough, standard 6.56 ft. (2 m), and press it into the designated groove. (Pictured: although this shows the left hand side, the instructions are the same for the right hand side. To be repeated for each trough section.)

Connecting the trough sections



- ❶ Join the sides of the trough side parts by pushing them together (min. +.08 (2mm) gap!)
- ❷ + ❸ The pre-assembled parts join each trough section

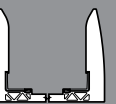
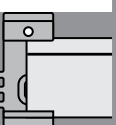
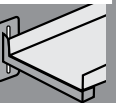
Adjusting the tolerance and aligning trough sections



- ❶ Adjust the necessary minimum "chain/trough" tolerance of .08" (2mm) on both sides. Please note: the inner width B_2 of the trough decreases .08" (2mm) per side with the assembled glide strip (pictured)
- ❷ Test to ensure the e-chain[®] runs problem free and with low friction in the channel
- ❸ After adjusting the minimum tolerance and alignment of all trough sections, please tighten all trough connections. Pay attention to the correct installation direction of the sliding nut (see detail)
Starting torque of the assembly set's fixing bolts: M6: 10 Nm / M8: 23 Nm.

- ⚠ Please consider health & safety regulations while handling sheet metals.
- We recommend using protective Category II gloves to protect against cuts when handling the aluminum profiles.

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. 970-30-SL and 970-31-SL - Trough Height: 3.03 in. (77 mm) Aluminum SuperTrough — Basic Version

For the following e-chains®/
E-Tubes

System E2 Series

- 10
- B15

Zipper Series

- 15/R15

B_a = Outer e-chain® width

B_i = Inner e-chain® width

h_a = e-chain® outer height

H_{Ri} = Inner trough height

H_{Ra} = Outer trough height

B_{Ri} = Inner trough width \blacktriangleright
depends on dim. B_a

B_{Ra} = Outer trough width

n_{Mon} = # of installation sets
(left/right)

n_{Ri} = # of trough set
(left/right)

$H_{Ri} \geq 2 \cdot h_a$

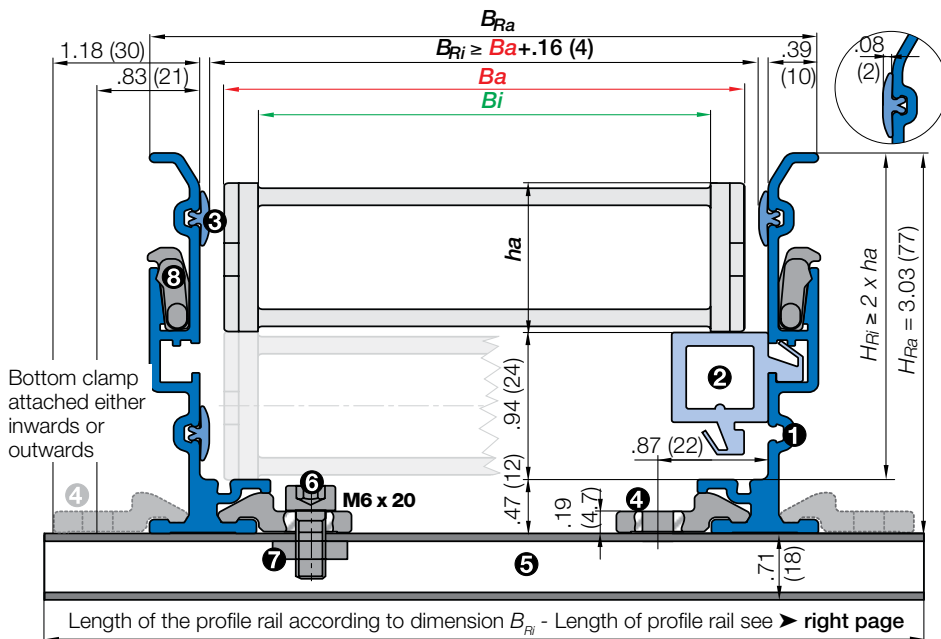
$B_{Ri} \geq B_a + 4$

● = Guide trough

● = Glide bar

● = Installation set "Basic"

● = profile rail



● **Components, trough "Basic":**

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)

- ❹ Bottom clamp, aluminum
- ❺ profile rail, steel galvanized
- ❻ Screw M6 x20
- ❼ Sliding nut M6
- ❽ Interface connector, plastic

● **Components, installation set "Basic":**

Basic Version: Components

Complete guide trough sets - description

Complete guide trough sets - description	Part No. (lbs)	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft (2 m) sections	970-30-SL	9.26 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) sections	970-31-SL	10.8 lbs
1 Installation set "Basic" without profile rail	960-30	.13 lbs
1 Installation set "Basic" with profile rail	960-30-_____	

Single parts - description

1 Glide strip, individual, 6.56 ft. (2m) section	75-01	.13 lbs
1 Bottom clamp, individual	75-40	0.07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	81-79	
1 profile rail, individual	92-52G_____	.60 lbs/ft

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-125 profile rail-length-index for your chosen trough inner width B_{Ri}

\blacktriangleright See table on the right or the respective page for chosen series

Lengths of profile rail - Basic Version - Bottom Clamp attached either **inwards** or **outwards**

10			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-015	1.18 (30)	*	960-30-125
-025	1.57 (40)	*	960-30-150
-038	2.09 (53)	*	960-30-150
-050	2.56 (65)	960-30-125	960-30-175
-5	3.15 (80)	960-30-125	960-30-175
-6	3.86 (98)	960-30-150	960-30-200
-7	4.61 (117)	960-30-175	960-30-225

* upon request

B15			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-015	1.18 (30)	*	960-30-125
-025	1.57 (40)	*	960-30-150
-038	2.09 (53)	*	960-30-150
-050	2.56 (65)	960-30-125	960-30-175
-5	3.15 (80)	960-30-125	960-30-175
-6	3.86 (98)	960-30-150	960-30-200
-7	4.61 (117)	960-30-175	960-30-225

* upon request

15			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-015	1.18 (30)	*	960-30-125
-025	1.57 (40)	*	960-30-150
-038	2.09 (53)	*	960-30-150
-050	2.56 (65)	960-30-125	960-30-175
-5	3.15 (80)	960-30-125	960-30-175
-6	3.86 (98)	960-30-150	960-30-200
-7	4.61 (117)	960-30-175	960-30-225

* upon request

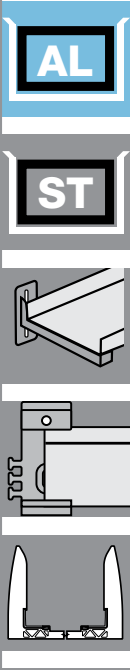
R15			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-025	1.57 (40)	*	960-30-150
-038	2.09 (53)	*	960-30-150
-063	3.15 (80)	*	960-30-175
-080	3.86 (98)	960-30-150	960-30-200

* upon request



e-chain® on the tower of the storage and retrieval unit for high-bay warehouses rolls off from one aluminum guide trough to the opposite one

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. 970-30-SL and 970-32-SL - Trough Height: 3.03 in. (77 mm) Aluminum SuperTrough — Basic Version

For the following e-chains®/
E-Tubes

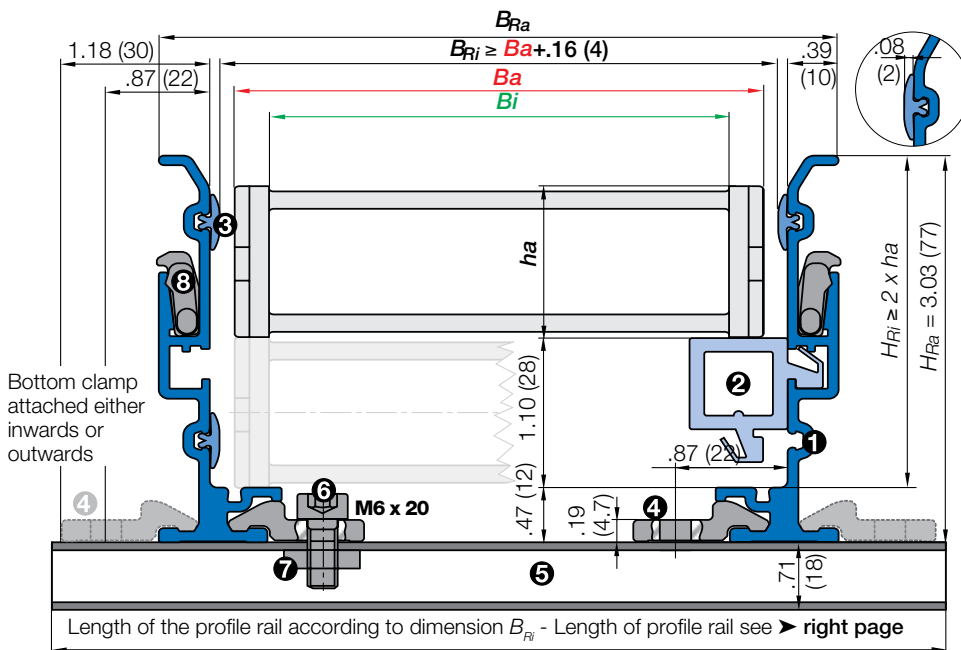
System E2 Series

- 1400/1450/1480/1500

System E4-1 Series

- E4-21

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- ! $B_{Ri} \geq B_a + 4$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



● **Components, trough "Basic":**

- 1 Trough side parts, aluminum, 6.56 ft. (2m)
- 2 Glide bar, plastic, 6.56 ft. (2m)
- 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)

● **Components, installation set:**

- 4 Bottom clamp, aluminum
- 5 profile rail, steel galvanized
- 6 Screw M6 x 20
- 7 Sliding nut M6
- 8 Interface connector, plastic



Basic Version: Components

Complete guide trough sets - description

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft (2 m) section	970-30-SL	9.26 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	970-32-SL	11.02 lbs
1 Installation set "Basic" without profile rail	960-30	.13 lbs
1 Installation set "Basic" with profile rail	960-30-___	

Single parts - description

1 Glide strip, individual, 6.56 ft. (2m) section	75-01	.13 lbs
1 Bottom clamp, individual	75-40	0.07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	81-79	
1 profile rail, individual	92-52G___	.60 lbs/ft

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-125 profile rail-length-index for your chosen trough inner width B_{Ri}

▶ See table on the right or the respective page for chosen series

igus®
e-chain system®

Telephone 1-800-521-2747

Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

Lengths of profile rail - Basic Version - Bottom Clamp attached either **inwards** or **outwards**

1400/1500			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-015	1.30 (33)	*	960-30-125
-020	1.50 (38)	*	960-30-125
-025	1.69 (43)	*	960-30-150
-038	2.20 (56)	*	960-30-150
-050	2.68 (68)	960-30-125	960-30-175
-068	3.39 (86)	960-30-150	960-30-175
-080	3.86 (98)	960-30-150	960-30-200
-100	4.65 (118)	960-30-175	960-30-225
-125	5.63 (143)	960-30-200	960-30-250

E4-21			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-030	1.89 (48)	*	960-30-150
-040	2.28 (58)	960-30-125	960-30-150
-050	2.68 (68)	960-30-125	960-30-175
-060	3.07 (78)	960-30-125	960-30-175
-070	3.46 (88)	960-30-150	960-30-175
-080	3.86 (98)	960-30-150	960-30-200
-100	4.65 (118)	960-30-175	960-30-225
-120	5.43 (138)	960-30-200	960-30-225

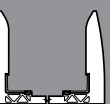
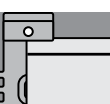
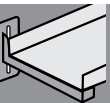
* upon request

* upon request



Seawater resistant aluminum
SuperTrough in a RTG-crane. Long
travel with the E4/4 e-chain system®.

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. 971-30-SL and 971-31-SL - Trough Height: 3.42 in. (87 mm) Aluminum SuperTrough — Basic Version

For the following Series

System E2 Series:

- 2480

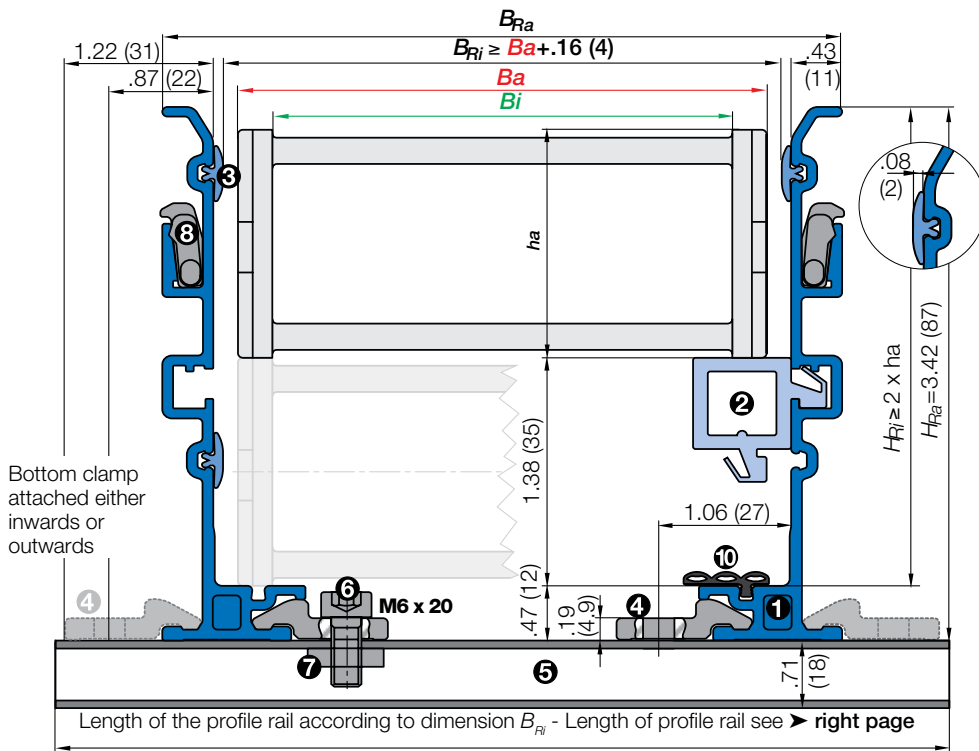
System E2 Tube Series:

- R48

igus®
e-chain system®

Telephone 1-800-521-2747

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- ! $B_{Ri} \geq B_a + 4$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



- **Components, trough:**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw M6 x 20
 - 7 Sliding nut M6
 - 8 Interface connector, plastic



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description

Description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	971-30-SL	≈ 11.02 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	971-31-SL	≈ 14.11 lbs
1 Installation set "Basic" without profile rail	960-30	≈ .13 lbs
1 Installation set "Basic" with profile rail	960-30-___	

Single parts - description

1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75-40	≈ .07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bar, 6.56 ft. (2m) sections	82-79	≈
1 profile rail, individual	92-52G ___	≈ .60 lbs/ft
Silencer profile	75-76-H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

➤ See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

2400/2500				255				R48			
e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards	e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards	e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-02	1.77 (45)	*	960-30-150	-03	2.28 (58)	*	960-30-150	-025	1.57 (40)	*	960-30-150
-03	2.28 (58)	*	960-30-150	-05	3.03 (77)	960-30-125	960-30-175	-050	2.56 (65)	*	960-30-175
-05	3.03 (77)	960-30-125	960-30-175	-07	3.82 (97)	960-30-150	960-30-200	-075	3.54 (90)	960-30-150	960-30-200
-07	3.82 (97)	960-30-150	960-30-200	-10	4.84 (123)	960-30-175	960-30-225	-100	4.53 (115)	960-30-175	960-30-225
-09	4.29 (109)	960-30-175	960-30-225	* upon request				-130	5.71 (145)	960-30-200	960-30-250
-10	4.84 (123)	960-30-175	960-30-225					* upon request			
-12	5.71 (145)	960-30-200	960-30-250								

* upon request

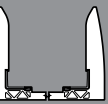
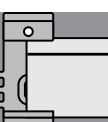
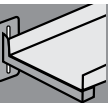
For the "Heavy Duty" installation set:

Insert Part No. **971-50-____**

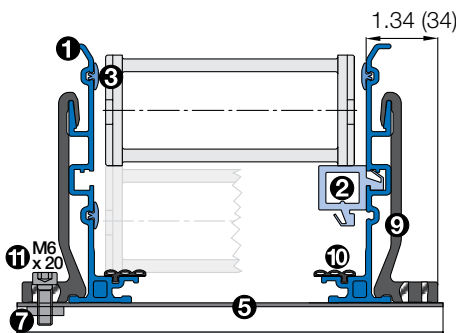
instead of **960-30-____**

on the right column "attached outwards"

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Heavy Duty Version - Installation Set Part No. 971-50



● Components, trough "Heavy Duty":

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
- ❿ Optional: Silencer profile, rubber

● Components, installation set "Heavy Duty":

- ❺ profile rail, steel galvanized
- ❽ Sliding nut M6
- ❾ Heavy duty bracket, aluminum
- ❾ Screw M6 x 20



- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing

Part No. 972-02-30-SL and 972-02-31-SL
Trough Height: 4.61 in. (117 mm)
Aluminum SuperTrough — Basic Version

For the following Series

System E4-1 Series

- E4-28/R4-28

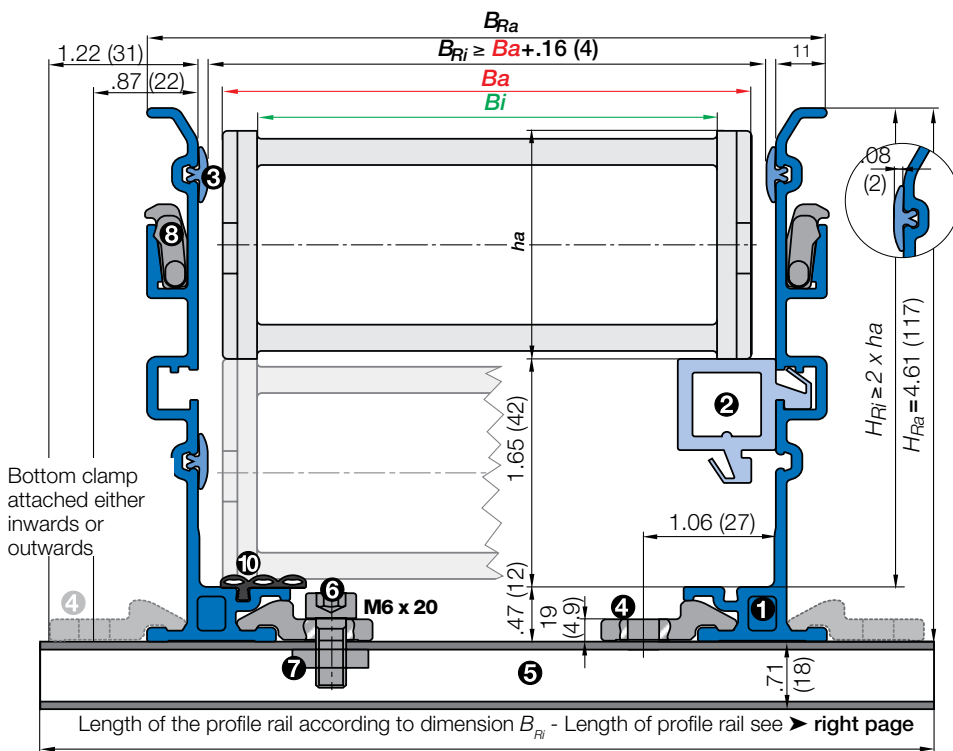
System E4-1 Light Series

- E4-31L

igus®
e-chain system®

Telephone 1-800-521-2747

- B_a = Outer e-chain® width
 - B_i = Inner e-chain® width
 - h_a = e-chain® outer height
 - 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} = # of installation sets (left/right)
 - n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
 $B_{Ri} \geq B_a + 4$
- = Guide trough
 - = Glide bar
 - = Installation set "Basic"
 - = profile rail



● **Components, trough:**

- 1 Trough side parts, aluminum, 6.56 ft. (2m)
- 2 Glide bar, plastic, 6.56 ft. (2m)
- 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
- 10 Optional: Silencer profile, rubber

● **Components, installation set:**

- 4 Bottom clamp, aluminum
- 5 profile rail, steel galvanized
- 6 Screw M6 x 20
- 7 Sliding nut M6
- 8 Interface connector, plastic



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	972-02-30-SL	≈ 13.23 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	972-02-31-SL	≈ 16.31 lbs
1 Installation set "Basic" without profile rail	960-30	≈ .13 lbs
1 Installation set "Basic" with profile rail	960-30-__	

Single parts - description

1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75.40	≈ .07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	82-79	≈
1 profile rail, individual	92-52G__	≈ .60 lbs/ft.
Silencer profile	75-67H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-175 profile rail-length-index for your chosen trough inner width B_{Ri}

▶ See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

Guide Trough Systems Aluminum SuperTrough

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**



E4-28/R4-28

e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-040	2.52 (64)	*	960-30-175
-050	2.91 (74)	960-30-125	960-30-175
-062	3.39 (86)	960-30-150	960-30-200
-070	3.31 (94)	960-30-150	960-30-200
-075	3.90 (99)	960-30-175	960-30-225
-087	4.37 (111)	960-30-175	960-30-225
-100	4.88 (124)	960-30-200	960-30-250
-125	5.87 (149)	960-30-200	960-30-250
-150	6.85 (174)	960-30-200	960-30-250
-175	7.83 (199)	960-30-225	960-30-275
-200	8.82 (224)	960-30-225	960-30-275
-225	9.80 (249)	960-30-250	960-30-300
-250	10.78 (274)	960-30-250	960-30-300
-275	11.77 (299)	960-30-250	960-30-300
-300	12.76 (324)	960-30-275	960-30-325

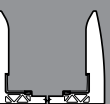
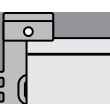
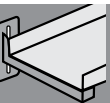
* upon request

E4-31L

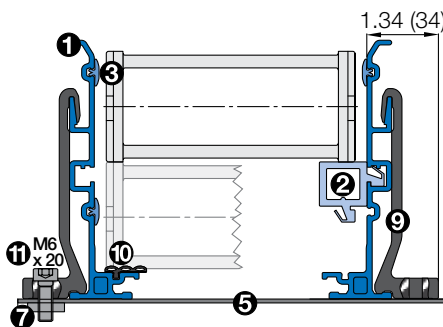
e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-040	2.28 (58)	*	960-30-150
-050	2.68 (68)	*	960-30-175
-062	3.15 (80)	960-30-150	960-30-175
-075	3.66 (93)	960-30-150	960-30-200
-087	4.13 (105)	960-30-175	960-30-200
-100	4.65 (118)	960-30-175	960-30-225
-112	5.12 (130)	960-30-200	960-30-225
-125	5.63 (143)	960-30-200	960-30-250
-150	6.61 (168)	960-30-225	960-30-275
-162	7.09 (180)	960-30-250	960-30-275
-175	7.60 (193)	960-30-250	960-30-300

* upon request

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Heavy Duty Version - Installation Set Part No. 972-50



● Components, trough "Heavy Duty":

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
- ❿ Optional: Silencer profile, rubber

● Components, installation set "Heavy Duty":

- ❺ profile rail, steel galvanized
- ❽ Sliding nut M6
- ❾ Heavy duty bracket, aluminum
- ❾ Screw M6 x 20



- = Guide trough
- = Glide bar
- = Installation set
"Heavy duty"
- = profile rail

• For the "Heavy Duty" installation set:
Insert Part No. **972-50-**_____ instead of **960-30-**_____ on the right column "attached outwards"

Part No. 972-30-SL and 972-31-SL Trough Height: 4.61 in. (117 mm) Aluminum SuperTrough — Basic Version

For the following Series

System E4-1 Series

- E4-32/H4-32/R4-32

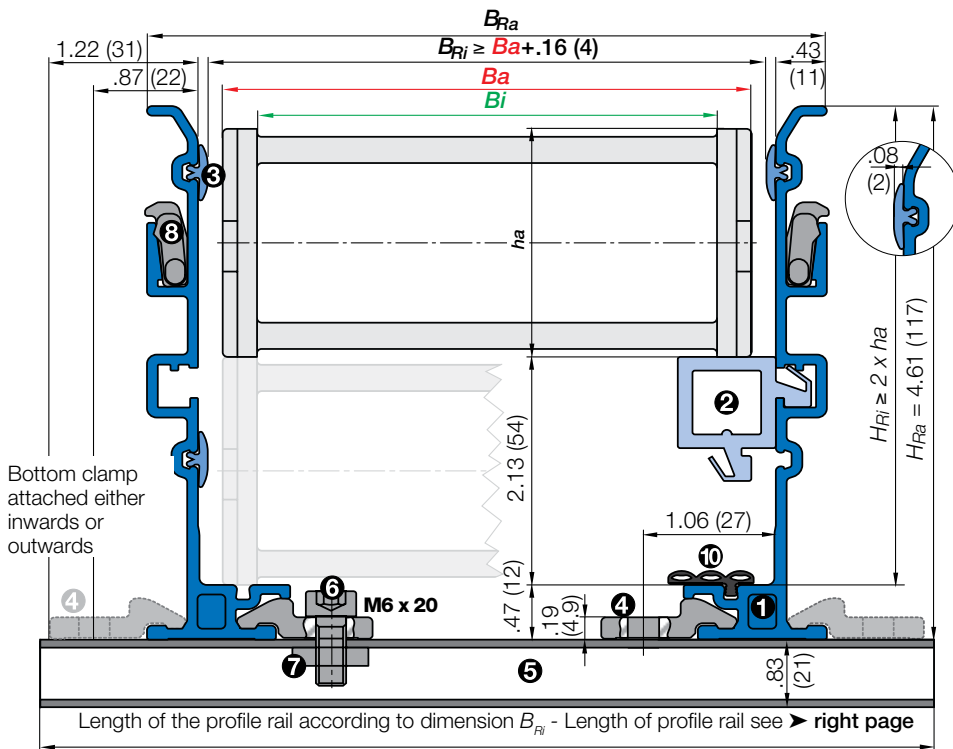
System E4-1L Series:

- E4-38L/R4-38L

igus®
e-chain system®

Telephone 1-800-521-2747

- B_a = Outer e-chain® width
 - B_i = Inner e-chain® width
 - h_a = e-chain® outer height
 - 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} = # of installation sets (left/right)
 - n_{Ri} = # of trough set (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
 $B_{Ri} \geq B_a + 4$
- = Guide trough
 - = Glide bar
 - = Installation set "Basic"
 - = profile rail



● **Components, trough:**

- ① Trough side parts, aluminum, 6.56 ft. (2m)
- ② Glide bar, plastic, 6.56 ft. (2m)
- ③ Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
- ⑩ Optional: Silencer profile, rubber

● **Components, installation set:**

- ④ Bottom clamp, aluminum
- ⑤ profile rail, steel galvanized
- ⑥ Screw M6 x20
- ⑦ Sliding nut M6



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	972-30-SL	≈ 13.23 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	972-31-SL	≈ 16.31 lbs
1 Installation set "Basic" without profile rail	960-30	≈ .13 lbs
1 Installation set "Basic" with profile rail	960-30-__	

Single parts - description

1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75.40	≈ .07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	82-79	≈
1 profile rail, individual	92-52__	≈ .60 lbs/ft.
Silencer profile	75-67H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

▶ See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



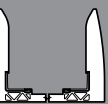
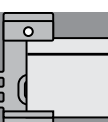
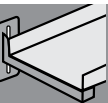
Internet: igus.com
 email: sales@igus.com
 QuickSpec: igus.com/quickspec

Guide Trough Systems Aluminum SuperTrough

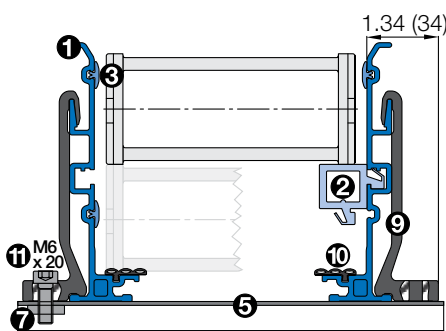
Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

E4-32/H4-32/R4-32				E4-38L/R4-38L			
e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards	e-chain® Width Index	B _{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	3.03 (77)	960-30-125	960-30-175	-050	2.76 (70)	*	960-30-200
-06	3.74 (95)	960-30-150	960-30-200	-062	3.23 (82)	*	960-30-200
-07	4.02 (102)	960-30-150	960-30-200	-075	3.74 (95)	*	960-30-225
-087	4.49 (114)	960-30-175	960-30-225	-087	4.21 (107)	*	960-30-225
-10	5.00 (127)	960-30-175	960-30-225	-100	4.72 (120)	960-30-175	960-30-250
-11	5.31 (135)	960-30-200	960-30-250	-105	4.92 (125)	960-30-175	960-30-250
-112	5.51 (140)	960-30-200	960-30-250	-112	5.20 (132)	960-30-200	960-30-250
-12	5.98 (152)	960-30-200	960-30-250	-125	5.71 (145)	960-30-200	960-30-275
-137	6.50 (165)	960-30-225	960-30-275	-137	6.18 (157)	960-30-225	960-30-275
-15	6.97 (177)	960-30-225	960-30-275	-150	6.69 (170)	960-30-225	960-30-300
-162	7.48 (190)	960-30-250	960-30-300	-162	7.17 (182)	960-30-250	960-30-300
-17	7.68 (195)	960-30-250	960-30-300	-175	7.68 (195)	960-30-250	960-30-325
-18	7.95 (202)	960-30-250	960-30-300	-187	8.15 (207)	960-30-275	960-30-325
-187	8.46 (215)	960-30-275	960-30-325	-200	8.66 (220)	960-30-275	960-30-350
-20	8.94 (227)	960-30-275	960-30-325	-212	9.13 (232)	960-30-300	960-30-350
-212	9.45 (240)	960-30-300	960-30-350	-225	9.65 (245)	960-30-300	960-30-375
-23	9.92 (252)	960-30-300	960-30-350	-237	10.12 (257)	960-30-325	960-30-375
-237	10.43 (265)	960-30-325	960-30-375	-250	10.63 (270)	960-30-325	960-30-375
-25	10.91 (277)	960-30-325	960-30-375	-262	11.10 (282)	960-30-325	960-30-375
-262	11.42 (290)	960-30-350	960-30-400	-300	12.60 (320)	960-30-375	960-30-425
-28	11.89 (302)	960-30-350	960-30-400	*upon request			
-29	12.40 (315)	960-30-375	960-30-425				
-30	12.87 (327)	960-30-375	960-30-425				
-312	13.39 (340)	960-30-400	960-30-450				
-325	13.86 (352)	960-30-400	960-30-450				
-337	14.37 (365)	960-30-425	960-30-475				
-350	14.84 (377)	960-30-425	960-30-475				
-362	15.35 (390)	960-30-450	960-30-500				
-375	15.83 (402)	960-30-450	960-30-500				
-387	16.34 (415)	960-30-475	960-30-525				
-400	16.81 (427)	960-30-475	960-30-525				



Heavy Duty Version - Installation Set Part No. 972-50



● Components, trough "Heavy Duty":

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)

- ❷ Optional: Silencer profile, rubber

● Components, installation set "Heavy Duty":

- ❺ profile rail, steel galvanized
- ❽ Sliding nut M6
- ❾ Heavy duty bracket, aluminum
- ❾ Screw M6 x 20



- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

- For the "Heavy Duty" installation set:
Insert Part No. **972-50-___** instead of **960-30-___**
on the right column "attached outwards"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing

Part No. 972-30-SL and 972-32-SL Trough Height: 4.61 in. (117 mm) Aluminum SuperTrough — Basic Version

For the following Series

System E2 Series:

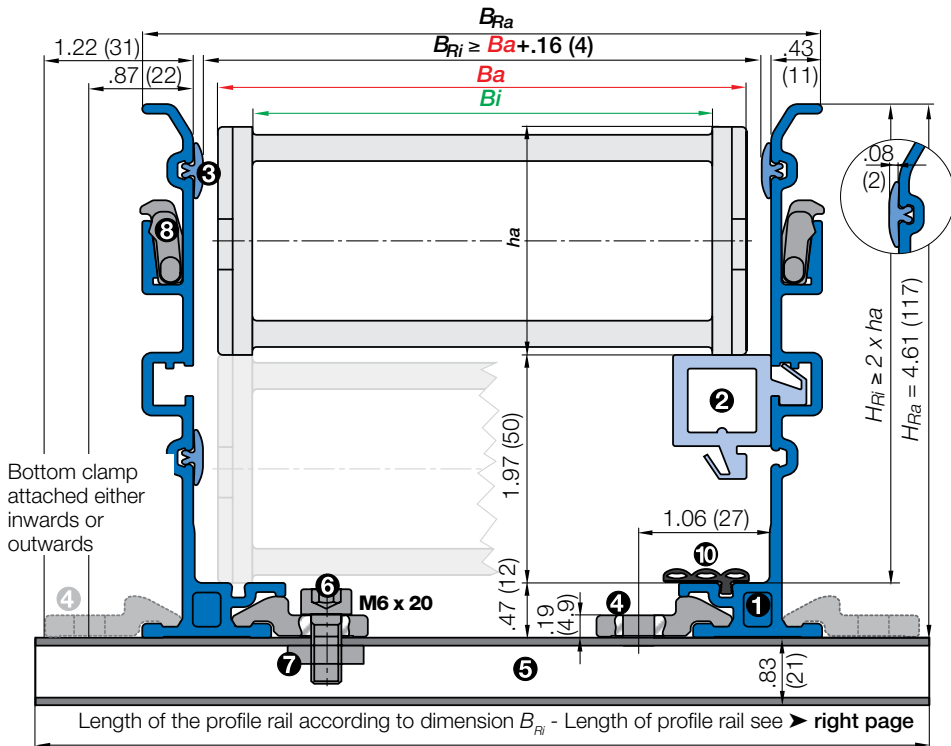
- 2700

System E2 Tube Series:

- R58

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width \blacktriangleright depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- !** $H_{Ri} \geq 2 \cdot h_a$
- !** $B_{Ri} \geq B_a + 4$

- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



- **Components, trough:**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw M6 x20
 - 7 Sliding nut M6



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	972-30-SL	≈ 13.23 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	972-32-SL	≈ 16.31 lbs
1 Installation set "Basic" without profile rail	960-30	≈ .13 lbs
1 Installation set "Basic" with profile rail	960-30-___	

Single parts - description

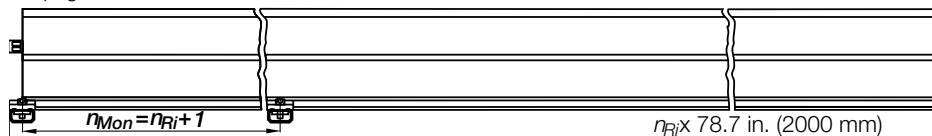
1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75-40	≈ .07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	82-79	≈
1 profile rail, individual	92-52 ___	≈ .60 lbs/ft.
Silencer profile	75-67H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

\blacktriangleright See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

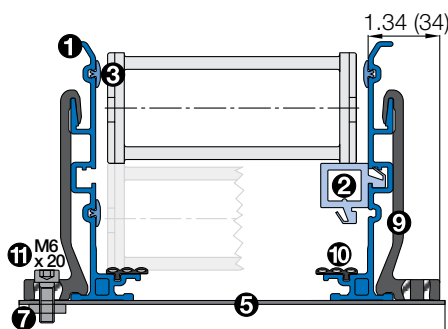
2700				R58			
e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards	e-chain® Width Index	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	2.76 (70)	*	960-30-175	-050	2.76 (70)	*	960-30-175
-06	3.35 (85)	960-30-150	960-30-200	-075	3.74 (95)	960-30-150	960-30-200
-07	3.74 (95)	960-30-150	960-30-200	-100	4.72 (120)	960-30-175	960-30-225
-09	4.33 (110)	960-30-175	960-30-225	-125	5.71 (145)	960-30-200	960-30-250
-10	4.72 (120)	960-30-175	960-30-225	-150	6.69 (170)	960-30-225	960-30-275
-12	5.71 (145)	960-30-200	960-30-250	-175	7.58 (195)	960-30-250	960-30-300
-15	6.69 (170)	960-30-225	960-30-275	-200	8.66 (220)	960-30-275	960-30-325
-17	7.79 (198)	960-30-250	960-30-300				



Stable guidance without oscillation. Because of the compact design of the aluminum SuperTrough the need for space along the travel path is small.

Travel 105 ft. (32 m) Crane operating speed 262 ft./min. (80 m/min).

Heavy Duty Version - Installation Set Part No. 972-50



● Components, trough "Heavy Duty":

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)

❷ Optional: Silencer profile, rubber

● Components, installation set "Heavy Duty":

- ❺ profile rail, steel galvanized
- ❽ Sliding nut M6
- ❾ Heavy duty bracket, aluminum
- ❿ Screw M6 x 20



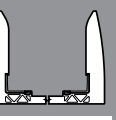
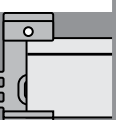
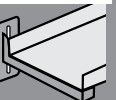
- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

For the "Heavy Duty" installation set:

Insert Part No. **972-50-___** instead of **960-30-___** on the right column "attached outwards"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. 973-30-SL and 973-31-SL Trough Height: 5.67 in. (144 mm)
Aluminum SuperTrough — Basic Version

For the following Series

System E2 Series:

- 3480

System E2 Tube Series:

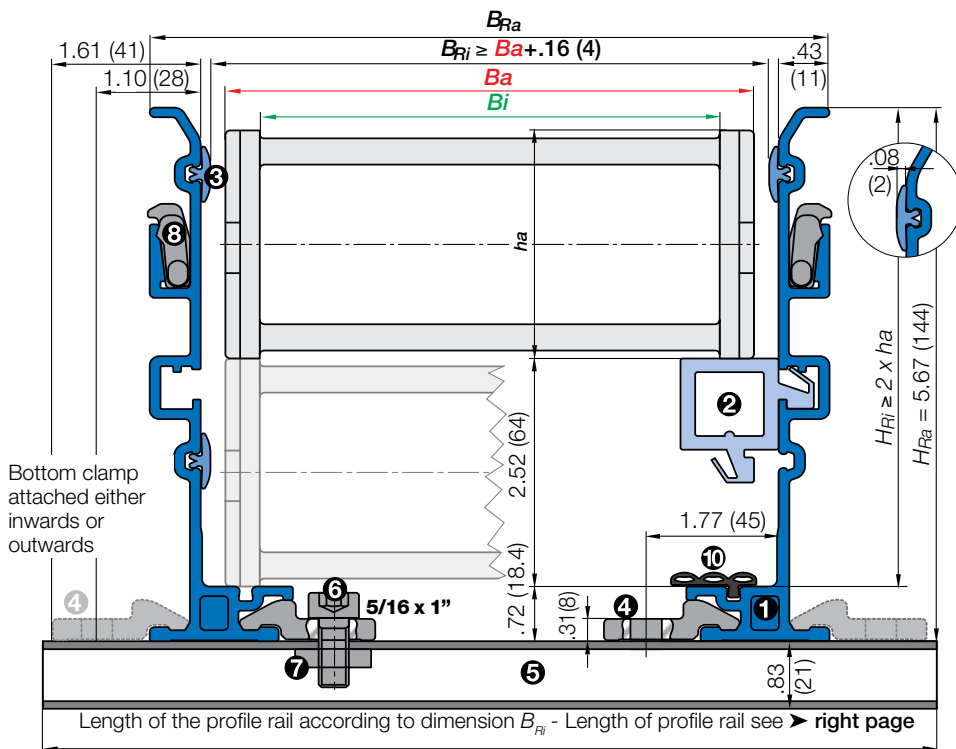
- R68

System E4-1 Series

- E4-42/H4-42/R4-42

System E4-1L Series:

- E4-48L/R4-48L



- B_a = Outer e-chain® width
 - B_i = Inner e-chain® width
 - h_a = e-chain® outer height
 - H_{Ri} = Inner trough height
 - H_{Ra} = Outer trough height
 - B_{Ri} = Inner trough width \blacktriangleright depends on dim. B_a
 - B_{Ra} = Outer trough width
 - n_{Mon} = # of installation sets (left/right)
 - n_{Ri} = # of trough set (left/right)
- !** $H_{Ri} \geq 2 \cdot h_a$
- !** $B_{Ri} \geq B_a + 4$
- = Guide trough
 - = Glide bar
 - = Installation set "Basic"
 - = profile rail

- **Components, trough:**
- 1** Trough side parts, aluminum, 6.56 ft. (2m)
- 2** Glide bar, plastic, 6.56 ft. (2m)
- 3** Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
- 10** Optional: Silencer profile, rubber
- **Components, installation set:**
- 4** Bottom clamp, aluminum
- 5** profile rail, steel galvanized
- 6** Screw 5/16 x 1"
- 7** Sliding nut 5/16
- 8** Interface connector, plastic



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	973-30-SL	≈ 17.64 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	973-31-SL	≈ 23.81 lbs
1 Installation set "Basic" without profile rail	960-40	≈ .18 lbs
1 Installation set "Basic" with profile rail	960-40-___	
Single parts - description		
1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75.50	≈ .09 lbs
1 Interface connector, individual	75-60	
1 Screw 5/16 x 1", individual	82-55	
1 Sliding nut 5/16, individual	82-56	
2 Glide bars, 6.56 ft. (2m) sections	83-79	≈
1 profile rail, individual	92-52___	≈ .60 lbs/ft.
Silencer profile	75-68H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

\blacktriangleright See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



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QuickSpec: igus.com/quickspec

Guide Trough Systems Aluminum SuperTrough

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

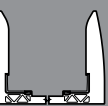
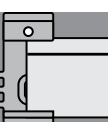
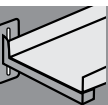


Guide
Trough

3400/3500				E4-42/H4-42/R4-42				E4-48L/R4-48L			
e-chain® Width Index	Part No. B _{ri} in. (mm)	Part No. attached inwards	attached outwards	e-chain® Width Index	Part No. B _{ri} in. (mm)	Part No. attached inwards	attached outwards	e-chain® Width Index	Part No. B _{ri} in. (mm)	Part No. attached inwards	attached outwards
-050	2.91 (74)	*	960-40-200	-05	3.15 (80)	*	960-40-200	-050	2.91 (74)	*	960-30-200
-075	3.90 (99)	*	960-40-225	-06	3.86 (98)	*	960-40-225	-062	3.39 (86)	*	960-30-200
-100	4.88 (124)	960-40-175	960-40-250	-07	4.13 (105)	*	960-40-225	-075	3.90 (99)	*	960-30-225
-115	5.47 (139)	960-40-200	960-40-275	-087	4.65 (118)	960-40-175	960-40-250	-087	4.37 (111)	960-30-175	960-30-225
-125	5.87 (149)	960-40-200	960-40-275	-10	5.12 (130)	960-40-200	960-40-250	-100	4.88 (124)	960-30-175	960-30-250
-150	6.85 (174)	960-40-225	960-40-300	-11	5.43 (138)	960-40-200	960-40-275	-105	4.92 (125)	960-30-200	960-30-250
-175	7.83 (199)	960-40-250	960-40-325	-112	5.63 (143)	960-40-200	960-40-275	-112	5.35 (136)	960-30-200	960-30-250
-200	8.82 (224)	960-40-275	960-40-350	-12	6.10 (155)	960-40-225	960-40-275	-125	5.87 (149)	960-30-225	960-30-275
-225	9.80 (249)	960-40-300	960-40-375	-137	6.61 (168)	960-40-225	960-40-300	-137	6.34 (161)	960-30-225	960-30-275
-250	10.79 (274)	960-40-325	960-40-400	-15	7.09 (180)	960-40-250	960-40-300	-150	6.85 (174)	960-30-250	960-30-300
				-162	7.60 (193)	960-40-250	960-40-325	-162	7.32 (186)	960-30-250	960-30-300
				-17	7.80 (198)	960-40-250	960-40-325	-175	7.83 (199)	960-30-275	960-30-325
				-18	8.07 (205)	960-40-275	960-40-325	-200	8.82 (224)	960-30-300	960-30-350
				-187	8.58 (218)	960-40-275	960-40-350	-225	9.80 (249)	960-30-325	960-30-375
				-20	9.06 (230)	960-40-300	960-40-350	-237	10.28 (261)	960-30-325	960-30-375
				-212	9.57 (243)	960-40-300	960-40-375	-250	10.79 (274)	960-30-325	960-30-375
				-23	10.04 (255)	960-40-325	960-40-375	-262	11.10 (282)	960-30-325	960-30-375
				-237	10.55 (268)	960-40-325	960-40-400	-275	11.61 (295)	960-30-350	960-30-400
				-25	11.02 (280)	960-40-350	960-40-400	-287	12.09 (307)	960-30-350	960-30-400
				-262	11.54 (293)	960-40-350	960-40-425	-300	12.60 (320)	960-30-375	960-30-425
				-28	12.01 (305)	960-40-375	960-40-425	-312	13.07 (332)	960-30-375	960-30-425
				-29	12.52 (318)	960-40-375	960-40-450	-325	13.58 (345)	960-30-400	960-30-450
				-30	12.99 (330)	960-40-400	960-40-450	-337	14.06 (357)	960-30-400	960-30-450
				-312	13.50 (343)	960-40-400	960-40-475	-350	14.57 (370)	960-30-425	960-30-475
				-325	13.98 (355)	960-40-425	960-40-475	-362	15.04 (382)	960-30-450	960-30-475
				-337	14.49 (368)	960-40-425	960-40-500	-375	15.55 (395)	960-30-450	960-30-500
				-350	14.96 (380)	960-40-450	960-40-500	-387	16.02 (407)	960-30-450	960-30-500
				-362	15.47 (393)	960-40-450	960-40-525	-400	16.54 (420)	960-30-475	960-30-500
				-375	15.98 (406)	960-40-475	960-40-525				
				-387	16.46 (418)	960-40-475	960-40-550				
				-400	16.93 (430)	960-40-500	960-40-550				

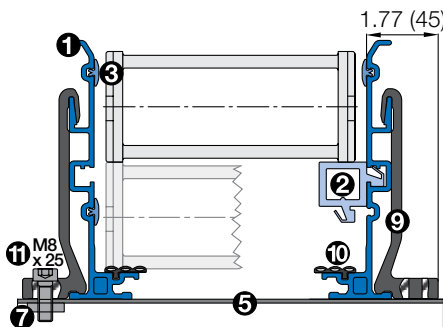
R68			
e-chain® Width Index	Part No. B _{ri} in. (mm)	Part No. attached inwards	attached outwards
-050	2.83 (72)	*	960-40-200
-075	3.82 (97)	*	960-40-225
-100	4.80 (122)	960-40-175	960-40-250
-115	5.39 (137)	960-40-200	960-40-275
-125	5.79 (147)	960-40-200	960-40-275
-150	6.77 (172)	960-40-225	960-40-300
-175	7.76 (197)	960-40-250	960-40-325
-200	8.74 (222)	960-40-275	960-40-350
-225	9.72 (247)	960-40-300	960-40-375
-250	10.71 (272)	960-40-325	960-40-400

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

Heavy Duty Version - Installation Set Part No. 973-50



- **Components, trough "Heavy Duty":**
- ① Trough side parts, aluminum, 6.56 ft. (2m)
- ② Glide bar, plastic, 6.56 ft. (2m)
- ③ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
- ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Heavy Duty":**
- ⑤ profile rail, steel galvanized
- ⑦ Sliding nut 5/16
- ⑨ Heavy duty bracket, aluminum
- ⑪ Screw 5/16 x 1"

For the "Heavy Duty" installation set:
Insert Part No. **973-50-_____** instead of **960-40-_____**
on the right column "attached outwards"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing

Part No. 974-30-SL and 974-31-SL Trough Height: 7.24 in. (184 mm)
Aluminum SuperTrough — Basic Version

For the following Series

System E4-1 Series

- E4-56/H4-56/R4-56

System E4-1 Light Series

- E4-64L

System E4 Light Series:

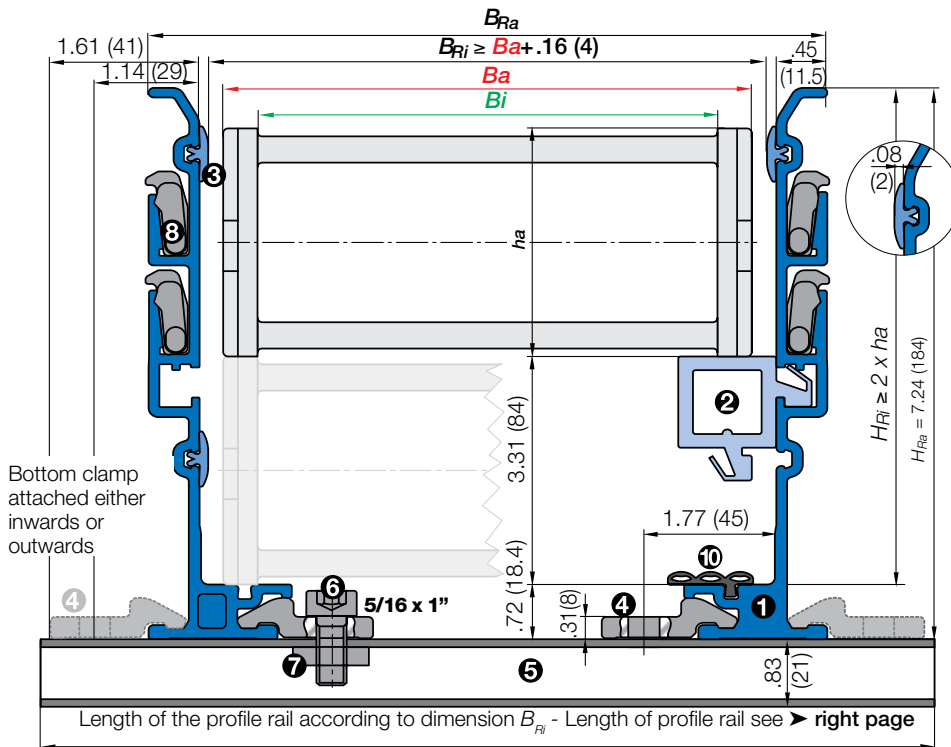
- 14040/14140/R18840

- 14240/14340

igus®
e-chain system®

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- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width \blacktriangleright depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 4$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



- **Components, trough:**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw 5/16 x 1"
 - 7 Sliding nut 5/16



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	974-30-SL	≈ 22.05 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	974-31-SL	≈ 28.22 lbs
1 Installation set "Basic" without profile rail	960-50	≈ .18 lbs
1 Installation set "Basic" with profile rail	960-50-_____	
Single parts - description		
1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75.50	≈ .09 lbs
1 Interface connector, individual	75-60	
1 Screw 5/16 x 1", individual	82-55	
1 Sliding nut 5/16, individual	82-56	
2 Glide bars, 6.56 ft. (2m) section	83-79	≈
1 profile rail, individual	92-52_____	≈ .60 lbs/ft.
Silencer profile	75-68H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

▶ See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



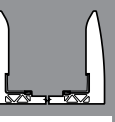
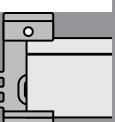
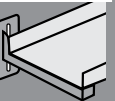
Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

E4-56/H4-56/R4-56			14240/14340			14040/14140/R18840			E4-64L						
E-Chain® Width Index	B_{R1} in. (mm)	Part No. attached inwards	Part No. attached outwards	E-Chain® Width Index	B_{R1} in. (mm)	Part No. attached inwards	Part No. attached outwards	E-Chain® Width Index	B_{R1} in. (mm)	Part No. attached inwards	Part No. attached outwards				
-05	3.46 (88)	*	960-50-225	-05	3.15 (80)	*	960-50-200	-05	3.15 (80)	*	960-50-200	-087	4.61 (117)	960-50-175	960-50-225
-06	4.06 (103)	*	960-50-225	-06	3.86 (98)	*	960-50-225	-06	3.74 (95)	*	960-50-225	-100	5.12 (130)	960-50-225	960-50-275
-07	4.45 (113)	*	960-50-250	-07	4.13 (105)	*	960-50-225	-07	4.13 (105)	*	960-50-225	-150	7.09 (180)	960-50-275	960-50-325
-10	5.43 (138)	960-50-200	960-50-275	-087	4.65 (118)	960-50-175	960-50-250	-10	5.12 (130)	960-50-200	960-50-250	-200	9.05 (230)	960-50-250	960-50-300
-11	5.94 (151)	960-50-200	960-50-275	-10	5.12 (130)	960-50-200	960-50-250	-11	5.63 (143)	960-50-200	960-50-275				
-12	6.42 (163)	960-50-225	960-50-300	-11	5.43 (138)	960-50-200	960-50-275	-12	6.10 (155)	960-50-225	960-50-275				
-13	6.93 (176)	960-50-225	960-50-300	-112	5.63 (143)	960-50-200	960-50-275	-13	6.61 (168)	960-50-225	960-50-300				
-15	7.40 (188)	960-50-250	960-50-325	-12	6.10 (155)	960-50-225	960-50-275	-15	7.09 (180)	960-50-250	960-50-300				
-16	7.91 (201)	960-50-250	960-50-325	-137	6.61 (168)	960-50-225	960-50-300	-16	7.60 (193)	960-50-250	960-50-325				
-17	8.39 (213)	960-50-275	960-50-350	-15	7.08 (180)	960-50-250	960-50-300	-17	8.07 (205)	960-50-275	960-50-325				
-18	8.90 (226)	960-50-275	960-50-350	-162	7.60 (193)	960-50-250	960-50-325	-18	8.58 (218)	960-50-275	960-50-350				
-20	9.37 (238)	960-50-300	960-50-375	-17	7.79 (198)	960-50-250	960-50-325	-20	9.39 (230)	960-50-300	960-50-350				
-21	9.88 (251)	960-50-300	960-50-375	-18	8.07 (205)	960-50-275	960-50-325	-21	9.57 (243)	960-50-300	960-50-375				
-22	10.35 (263)	960-50-325	960-50-400	-187	8.58 (218)	960-50-275	960-50-350	-22	10.04 (255)	960-50-325	960-50-375				
-23	10.87 (276)	960-50-325	960-50-400	-20	9.05 (230)	960-50-300	960-50-350	-23	10.55 (268)	960-50-325	960-50-400				
-25	11.34 (288)	960-50-350	960-50-425	-212	9.57 (243)	960-50-300	960-50-375	-25	11.02 (280)	960-50-350	960-50-400				
-26	11.85 (301)	960-50-350	960-50-425	-23	10.04 (255)	960-50-325	960-50-375	-26	11.53 (293)	960-50-350	960-50-425				
-27	12.32 (313)	960-50-375	960-50-450	-237	10.55 (268)	960-50-325	960-50-400	-27	12.01 (305)	960-50-375	960-50-425				
-28	12.83 (326)	960-50-375	960-50-450	-25	11.02 (280)	960-50-350	960-50-400	-28	12.52 (318)	960-50-375	960-50-450				
-30	13.31 (338)	960-50-400	960-50-475	-262	11.54 (293)	960-50-350	960-50-425	-30	12.99 (330)	960-50-400	960-50-450				
-31	13.82 (351)	960-50-400	960-50-475	-28	12.01 (305)	960-50-375	960-50-425	-31	13.50 (343)	960-50-400	960-50-475				
-32	14.29 (363)	960-50-425	960-50-500	-29	12.52 (318)	960-50-375	960-50-450	-32	13.98 (355)	960-50-425	960-50-475				
-33	14.80 (376)	960-50-425	960-50-500	-30	12.99 (330)	960-50-400	960-50-450	-33	14.49 (368)	960-50-425	960-50-500				
-35	15.28 (388)	960-50-450	960-50-525	-312	13.50 (343)	960-50-400	960-50-475	-35	14.96 (380)	960-50-450	960-50-500				
-36	15.79 (401)	960-50-450	960-50-525	-325	13.98 (355)	960-50-425	960-50-475	-36	15.47 (393)	960-50-450	960-50-525				
-37	16.26 (413)	960-50-475	960-50-550	-337	14.49 (368)	960-50-425	960-50-500	-37	15.94 (405)	960-50-475	960-50-525				
-38	16.77 (426)	960-50-475	960-50-550	-350	14.96 (380)	960-50-450	960-50-500	-38	16.46 (418)	960-50-475	960-50-550				
-40	17.24 (438)	960-50-500	960-50-575	-362	15.47 (393)	960-50-450	960-50-525	-40	16.93 (430)	960-50-500	960-50-550				
-41	17.76 (451)	960-50-500	960-50-575	-375	15.94 (405)	960-50-475	960-50-525	-41	17.44 (443)	960-50-500	960-50-575				
-42	18.23 (463)	960-50-525	960-50-600	-387	16.46 (418)	960-50-475	960-50-550	-42	17.91 (455)	960-50-525	960-50-575				
-43	18.74 (476)	960-50-525	960-50-600	-400	16.93 (430)	960-50-500	960-50-550	-43	18.43 (468)	960-50-525	960-50-600				
-45	19.21 (488)	960-50-550	960-50-625					-45	18.90 (480)	960-50-550	960-50-600				
-46	19.72 (501)	960-50-550	960-50-625					-46	19.41 (493)	960-50-550	960-50-625				
-47	20.20 (513)	960-50-575	960-50-650					-47	19.88 (505)	960-50-575	960-50-625				
-48	20.71 (526)	960-50-575	960-50-650					-48	20.39 (518)	960-50-575	960-50-650				
-50	21.18 (538)	960-50-600	960-50-675					-50	20.87 (530)	960-50-600	960-50-650				
-51	21.69 (551)	960-50-600	960-50-675					-51	21.38 (543)	960-50-600	960-50-675				
-52	22.17 (563)	960-50-625	960-50-700					-52	21.85 (555)	960-50-625	960-50-675				
-53	22.68 (576)	960-50-625	960-50-700					-53	22.36 (568)	960-50-625	960-50-700				
-55	23.15 (588)	960-50-650	960-50-725					-55	22.83 (580)	960-50-650	960-50-700				
-60	25.12 (638)	960-50-700	960-50-775					-60	24.80 (630)	960-50-700	960-50-750				

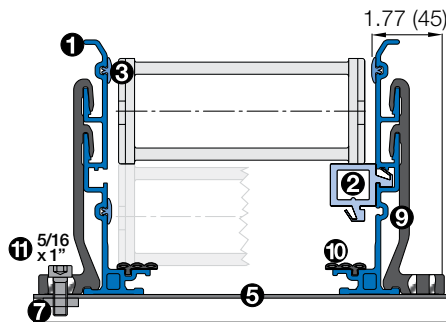
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

AL

ST



Heavy Duty Version - Installation Set Part No. 974-50



- Components, trough "Heavy Duty":
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- Components, installation set "Heavy Duty":
 - 5 profile rail, steel galvanized
 - 7 Sliding nut 5/16
 - 9 Heavy duty bracket, aluminum
 - 11 Screw 5/16 x 1"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing



- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

For the "Heavy Duty" installation set:
Insert Part No. 974-50-____ instead of 960-50-____
on the right column "attached outwards"

Part No. 975-30-SL and 975-31-SL Trough Height: 9.29 in. (236 mm)
Aluminum SuperTrough — Basic Version

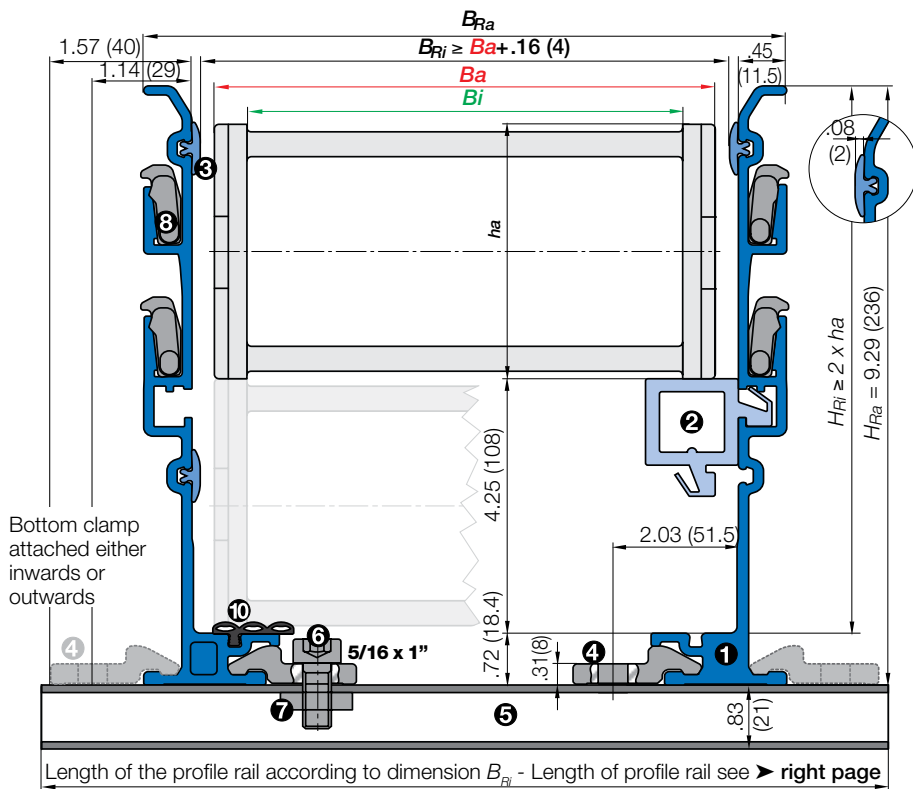
For the following Series

System E4-1 Series

- E4-80/H4-80/R4-80

System E4 Light Series:

- 15050/15150/R19850



- B_a = Outer e-chain® width
 - B_i = Inner e-chain® width
 - h_a = e-chain® outer height
 - 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} = # of installation sets (left/right)
 - n_{Ri} = # of trough set (left/right)
- !** $H_{Ri} \geq 2 \cdot h_a$
 $B_{Ri} \geq B_a + 4$
- = Guide trough
 - = Glide bar
 - = Installation set "Basic"
 - = profile rail

- **Components, trough:**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw 5/16 x 1"
 - 7 Sliding nut 5/16
 - 8 Interface connector, plastic



Basic version: Aluminum SuperTrough components

Complete guide trough sets - description

Complete guide trough sets - description	Part No.	Weight
Set of 2 trough side parts, incl. glide strips, without glide bars, 6.56 ft. (2m) section	975-30-SL	≈ 30.87 lbs
Set of 2 trough side parts, incl. glide strips, with glide bars, 6.56 ft. (2m) section	975-31-SL	≈ 36.60 lbs
1 Installation set "Basic" without profile rail	960-50	≈ .18 lbs
1 Installation set "Basic" with profile rail	960-50-___	

Single parts - description

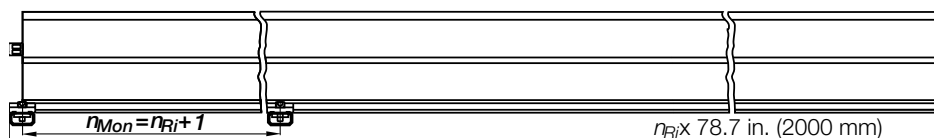
1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75.50	≈ .09 lbs
1 Interface connector, individual	75-60	
1 Screw 5/16 x 1" individual	82-55	
1 Sliding nut 5/16, individual	82-56	
2 Glide bars, 6.56 ft. (2m) section	83-79	≈
1 profile rail, individual	92-52-___	≈ .60 lbs/ft.
Silencer profile	75-68H	

Supplement Part No. with the indicated profile rail-length-index.

Example: 960-30-150 profile rail-length-index for your chosen trough inner width B_{Ri}

▶ See table on the right or the respective page for chosen series

Number of installation sets which have to be installed



igus®
e-chain system®

Telephone 1-800-521-2747

Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

E4-80/H4-80/R4-80

e-chain® Width Index	Part No. B_{Ri} in. (mm)	Part No. attached inwards	attached outwards
-05	4.09 (104)	*	960-50-225
-06	4.68 (119)	*	960-50-250
-07	5.08 (129)	*	960-50-250
-10	6.06 (154)	960-50-225	960-50-275
-11	6.57 (167)	960-50-225	960-50-300
-12	7.05 (179)	960-50-250	960-50-300
-13	7.56 (192)	960-50-250	960-50-325
-15	8.03 (204)	960-50-275	960-50-325
-16	8.54 (217)	960-50-275	960-50-350
-17	9.02 (229)	960-50-300	960-50-350
-18	9.53 (242)	960-50-300	960-50-375
-20	10.00 (254)	960-50-325	960-50-375
-21	10.51 (267)	960-50-325	960-50-400
-22	10.98 (279)	960-50-350	960-50-400
-23	11.50 (292)	960-50-350	960-50-425
-25	11.97 (304)	960-50-375	960-50-425
-26	12.48 (317)	960-50-375	960-50-450
-27	12.95 (329)	960-50-400	960-50-450
-28	13.46 (342)	960-50-400	960-50-475
-30	13.94 (354)	960-50-425	960-50-475
-31	14.45 (367)	960-50-425	960-50-500
-32	14.92 (379)	960-50-450	960-50-500
-33	15.43 (392)	960-50-450	960-50-525
-35	15.91 (404)	960-50-475	960-50-525
-36	16.42 (417)	960-50-475	960-50-550
-37	16.89 (429)	960-50-500	960-50-550
-38	17.40 (442)	960-50-500	960-50-575
-40	17.87 (454)	960-50-525	960-50-575
-41	18.39 (467)	960-50-525	960-50-600
-42	18.86 (479)	960-50-550	960-50-600
-43	19.37 (492)	960-50-550	960-50-625
-45	19.84 (504)	960-50-575	960-50-625
-46	20.35 (517)	960-50-575	960-50-650
-47	20.83 (529)	960-50-600	960-50-650
-48	21.34 (542)	960-50-600	960-50-675
-50	21.81 (554)	960-50-625	960-50-675
-51	22.32 (567)	960-50-625	960-50-700
-52	22.80 (579)	960-50-650	960-50-700
-53	23.31 (592)	960-50-650	960-50-725
-55	24.17 (604)	960-50-675	960-50-725
-60	25.75 (654)	960-50-725	960-50-775

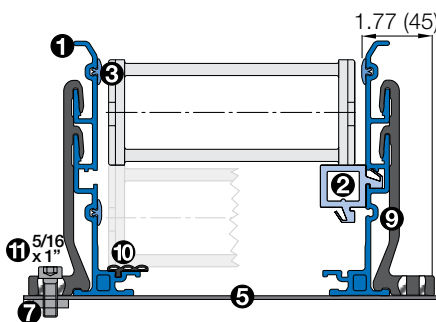
15050/15150/R19850

e-chain® Width Index	Part No. B_{Ri} in. (mm)	Part No. attached inwards	attached outwards
-05	3.31 (84)	*	960-50-200
-07	4.29 (109)	*	960-50-225
-10	5.28 (134)	*	960-50-250
-11	5.75 (146)	960-50-200	960-50-275
-12	6.26 (159)	960-50-225	960-50-275
-13	6.73 (171)	960-50-225	960-50-300
-15	7.24 (184)	960-50-250	960-50-300
-16	7.72 (196)	960-50-250	960-50-325
-17	8.23 (209)	960-50-275	960-50-325
-18	8.70 (221)	960-50-275	960-50-350
-20	9.21 (234)	960-50-300	960-50-350
-21	9.69 (246)	960-50-300	960-50-375
-22	10.20 (259)	960-50-325	960-50-375
-23	10.67 (271)	960-50-325	960-50-400
-25	11.18 (284)	960-50-350	960-50-400
-26	11.65 (296)	960-50-350	960-50-425
-27	12.16 (309)	960-50-375	960-50-425
-28	12.64 (321)	960-50-375	960-50-450
-30	13.15 (334)	960-50-400	960-50-450
-31	13.62 (346)	960-50-400	960-50-475
-32	14.13 (359)	960-50-425	960-50-475
-33	14.61 (371)	960-50-425	960-50-500
-35	15.12 (384)	960-50-450	960-50-500
-36	15.59 (396)	960-50-450	960-50-525
-37	16.10 (409)	960-50-475	960-50-525
-38	16.57 (421)	960-50-475	960-50-550
-40	17.07 (434)	960-50-500	960-50-550
-41	17.56 (446)	960-50-500	960-50-575
-42	18.07 (459)	960-50-525	960-50-575
-43	18.54 (471)	960-50-525	960-50-600
-45	19.06 (484)	960-50-550	960-50-600
-46	19.53 (496)	960-50-550	960-50-625
-47	20.04 (509)	960-50-575	960-50-625
-48	20.51 (521)	960-50-575	960-50-650
-50	21.02 (534)	960-50-600	960-50-650
-51	21.50 (546)	960-50-600	960-50-675
-52	22.01 (559)	960-50-625	960-50-675
-53	22.48 (571)	960-50-625	960-50-700
-55	22.99 (584)	960-50-650	960-50-700
-60	24.96 (634)	960-50-700	960-50-750

15250/15350

e-chain® Width Index	Part No. B_{Ri} in. (mm)	Part No. attached inwards	attached outwards
-05	3.31 (84)	*	960-50-200
-06	4.02 (102)	*	960-50-225
-07	4.29 (109)	*	960-50-225
-087	4.76 (121)	*	960-50-250
-09	5.16 (131)	*	960-50-250
-10	5.28 (134)	*	960-50-250
-11	5.59 (142)	960-50-200	960-50-250
-112	5.79 (147)	960-50-200	960-50-275
-12	6.26 (159)	960-50-225	960-50-275
-137	6.73 (171)	960-50-225	960-50-300
-15	7.24 (184)	960-50-250	960-50-300
-162	7.76 (197)	960-50-250	960-50-325
-17	7.95 (202)	960-50-250	960-50-325
-18	8.23 (209)	960-50-275	960-50-325
-187	8.74 (222)	960-50-275	960-50-350
-20	9.21 (234)	960-50-300	960-50-350
-212	9.72 (247)	960-50-300	960-50-375
-23	10.20 (259)	960-50-325	960-50-375
-237	10.71 (272)	960-50-325	960-50-400
-25	11.18 (284)	960-50-350	960-50-400
-262	11.69 (297)	960-50-350	960-50-425
-28	12.16 (309)	960-50-375	960-50-425
-29	12.68 (322)	960-50-375	960-50-450
-30	13.15 (334)	960-50-400	960-50-450
-312	13.66 (347)	960-50-400	960-50-475
-325	14.13 (359)	960-50-425	960-50-475
-337	14.65 (372)	960-50-425	960-50-500
-350	15.12 (384)	960-50-450	960-50-500
-362	15.63 (397)	960-50-450	960-50-525
-375	16.10 (409)	960-50-475	960-50-525
-387	16.61 (422)	960-50-475	960-50-550
-400	17.09 (434)	960-50-500	960-50-550

Heavy Duty Version - Installation Set Part No. 975-50



For the "Heavy Duty" installation set:
Insert Part No. **975-50-___** instead of **960-50-___**
on the right column "attached outwards"

● Components, trough "Heavy Duty":

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide bar, plastic, 6.56 ft. (2m)
- ❸ Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
- ❿ Optional: Silencer profile, rubber

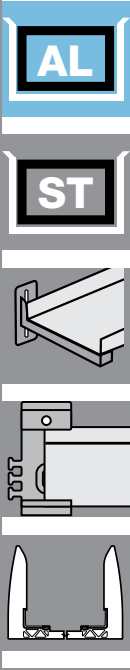
● Components, installation set "Heavy Duty":

- ❺ profile rail, steel galvanized
- ❽ Sliding nut 5/16
- ❾ Heavy duty bracket, aluminum
- ❫ Screw 5/16 x 1"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing



- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail







Steel guide trough

Very tough for
heavy-duty applications



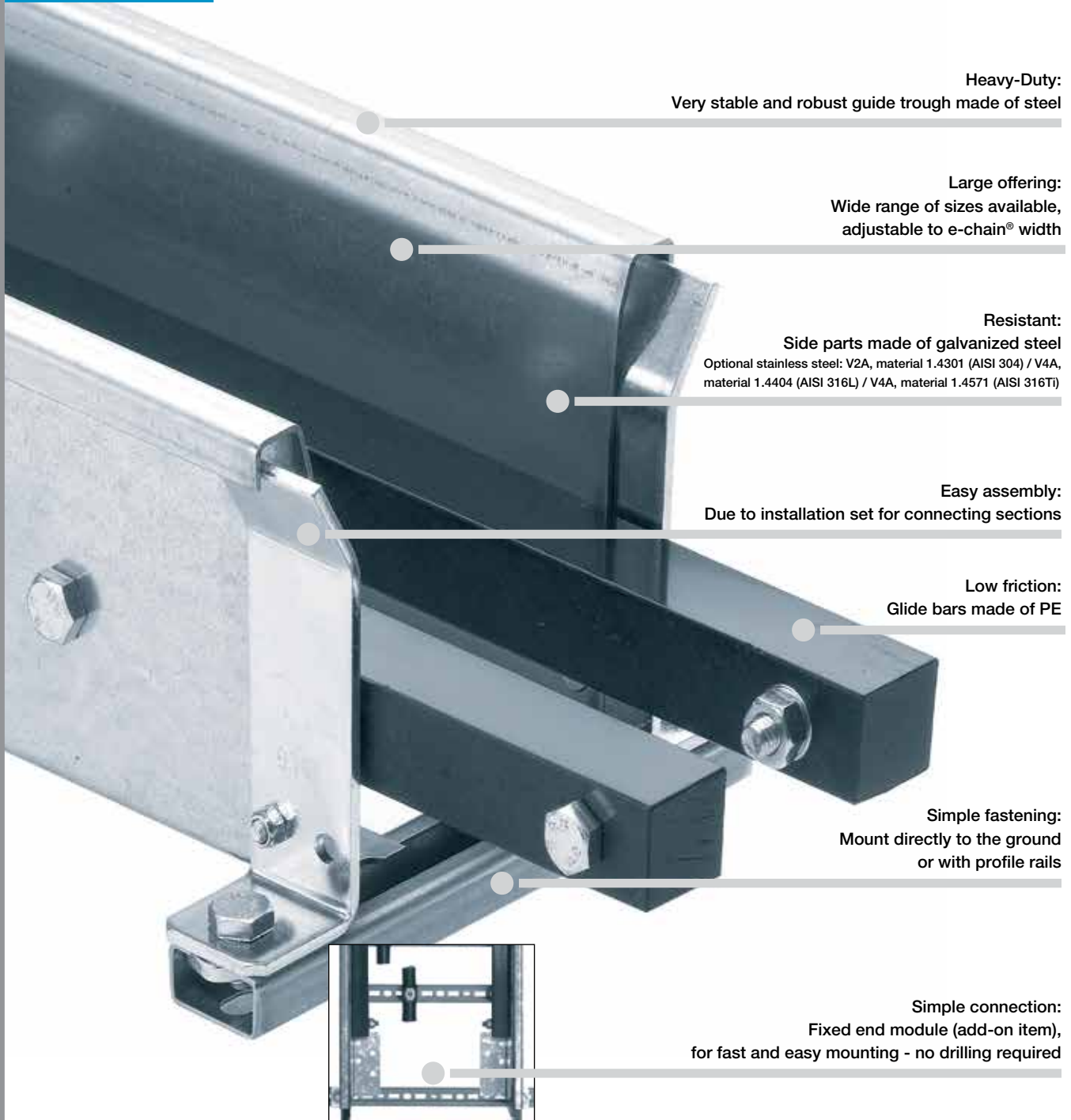
Advantages of the steel guide trough

- Very tough guide trough for applications in tough environments
- Easy assembly due to installation set design
- Easy mounting directly to the profile rail
- Large range, 2-piece design, adjustable to e-chain® width
- Available in galvanised steel and stainless steel
- Low friction: Glide bar made of PE
- Fixed end module option, for fast and easy fitting without any drilling
- Conductivity according to DIN EN 61537 - as standard



When to use another guide trough:

- When a corrosion-resistant, seawater-resistant aluminium trough is required,
▶ **Aluminium SuperTroughs**



Heavy-Duty:
Very stable and robust guide trough made of steel

Large offering:
Wide range of sizes available,
adjustable to e-chain® width

Resistant:
Side parts made of galvanized steel
Optional stainless steel: V2A, material 1.4301 (AISI 304) / V4A,
material 1.4404 (AISI 316L) / V4A, material 1.4571 (AISI 316Ti)

Easy assembly:
Due to installation set for connecting sections

Low friction:
Glide bars made of PE

Simple fastening:
Mount directly to the ground
or with profile rails

Simple connection:
Fixed end module (add-on item),
for fast and easy mounting - no drilling required

Very stable and rugged for Heavy-Duty applications - Steel guide trough

If the igus® installation sets are used, the guide troughs are particularly easy to assemble. All steel guide troughs are constructed according to the same basic principle. On the following pages, you will find information about dimensions, weights and accessories according to the trough size. All sizes use a common profile rail on which the guide parts are assembled. The assembly brackets used vary in height only.

Installation Guide-PDF with detailed assembly information ► www.igus.com/installation-guide-pdf

Guide Trough Systems

Steel Guide Trough

Overview - Sizes



Steel guide troughs

Very stable and rugged for Heavy-Duty applications

Standard in Galvanized Steel

Optional in stainless steel:

V2A, material 1.4301 (AISI 304)

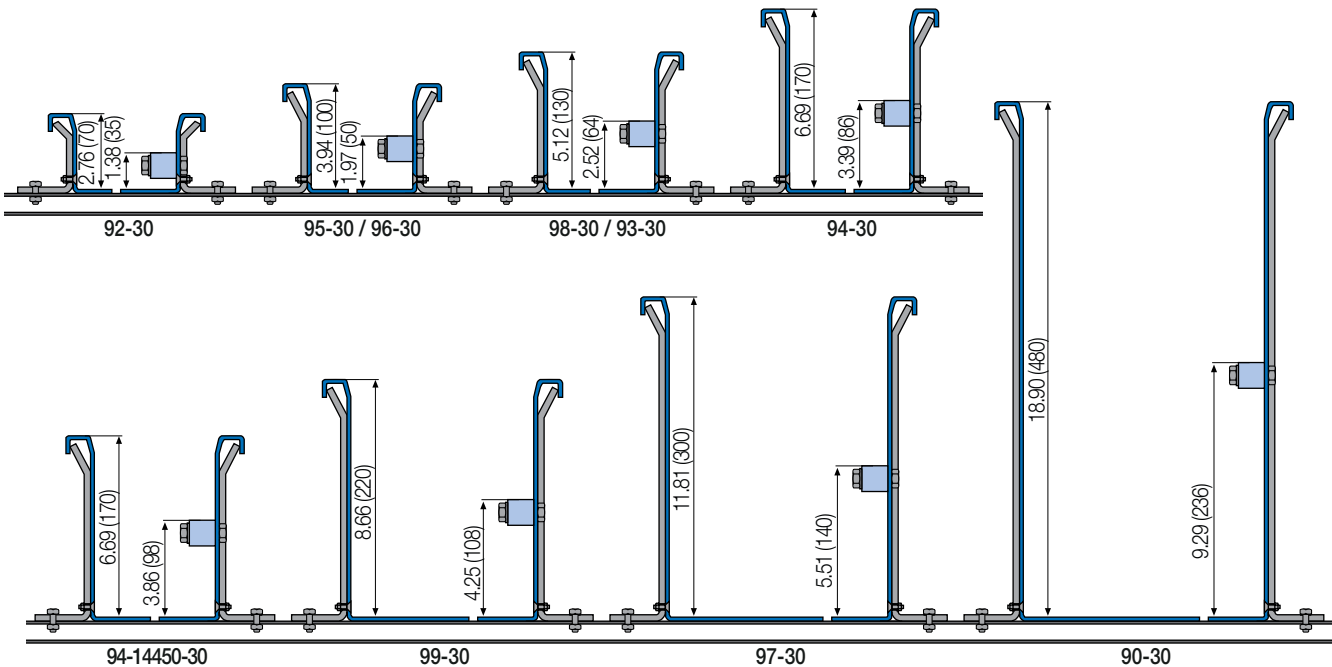
V4A, material 1.4404 (AISI 316L)

V4A, material 1.4571 (AISI 316Ti)

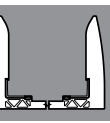
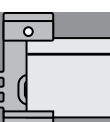
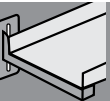
Trough Part No.	For e-chain® Series		Outer trough height H_{Ra} in. (mm)	Installation set* Part No.
	E2 Series	E4 Series		
92-30	2400/2500		2.76 (70)	92.50
	255			
95-30	2600/2700		3.94 (100)	95.50
	R58			
96-30		E4-28/R4-28	3.94 (100)	95.50
98-30		E4-32/H4-32/R4-32	5.12 (130)	93.50
93-30	3400/3500	E4-42/H4-42/R4-42	5.12 (130)	93.50
94-30		E4-56/H4-56/R4-56	6.69 (170)	94-50
		14040/14140/R18840		
		14240/14340		
94-14550-30		14550/14650/R19050	6.69 (170)	94-50
99-30		15050/15150/R19850	8.66 (220)	96-50
		15250/15350		
97-30		E4-112/H4-112/R4-112	11.81 (300)	98.50
		600/601/R608		
		1640/R1608		
90-30		800, 840	18.90 (480)	90.50

One-Piece Steel Trough - Only for series 10, 15 and B15 - Galvanized Steel only

91-10 - 91-71 ²⁾	1.89 (48)	-
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PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



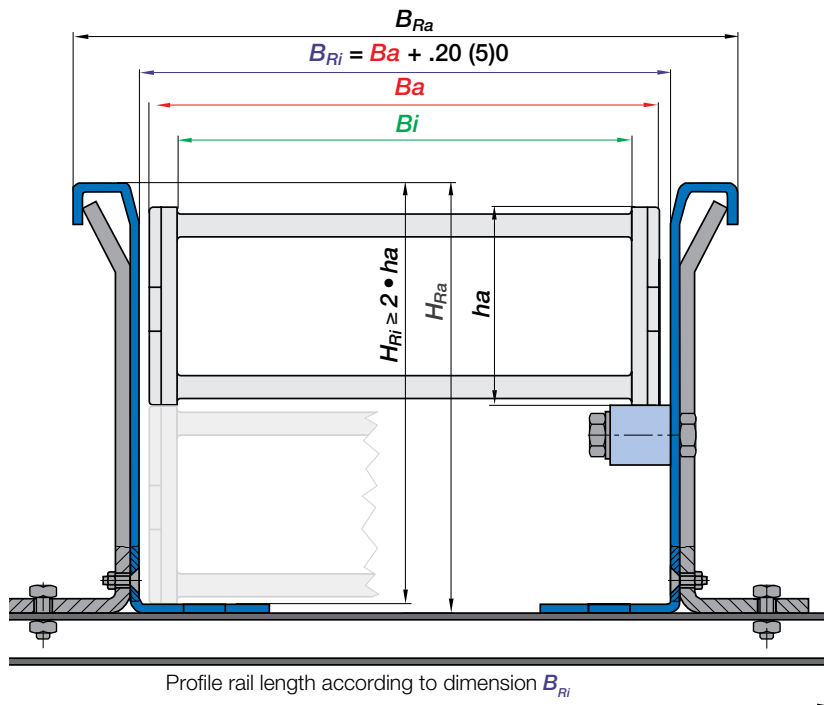
Components

- = Guide trough¹⁾
- = Glide bar
- = Installation set
- = Profile rail²⁾

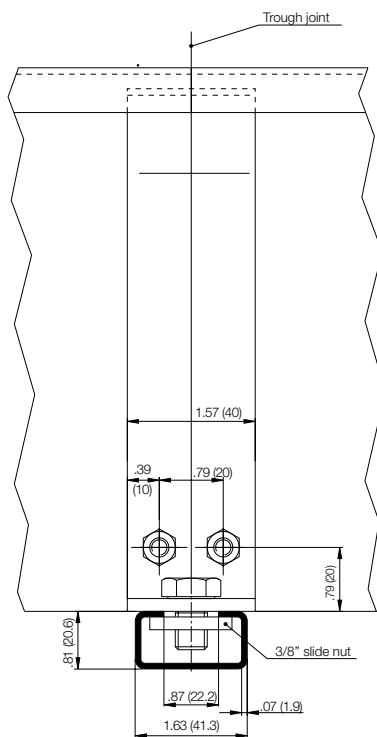
- Ba** = Outer e-chain® width
- Bi** = Inner e-chain® width
- ha** = e-chain® outer height
- H_{Ri}** = Inner trough height
- H_{Ra}** = Outer trough height
- B_{Ri}** = Inner trough width
- B_{Ra}** = Outer trough width
- n_{Mon}** = Number of installation sets (left/right)
- n_{Ri}** = Number of trough sets (left/right)

H_{Ri} ≥ 2 x ha

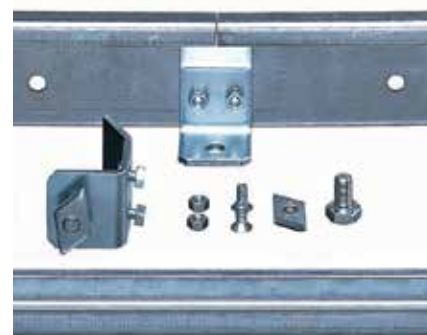
B_{Ri} = Ba + 5



1) Guide trough side parts, galvanized steel. Optional stainless steel: V2A, material 1.4301 (AISI 304) / V4A, material 1.4404 (AISI 316L) / V4A, material 1.4571 (AISI 316Ti)
2) Profile rail also available in stainless steel V2A, material 1.4301 (AISI 304)



Side view of trough joint. All the dimensions, apart from the height, apply to all sizes.



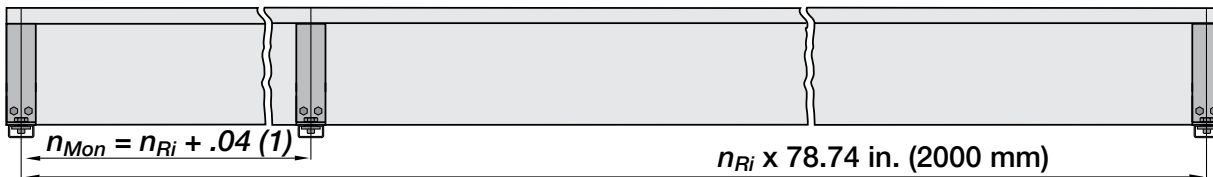
Installation set for joint and attachment surface connections, secure connection without misalignment and without welding.

Steel Guide Trough - Configured according to your requirements

Quick and easy assemble the right trough for your application

- Selection of the suitable guide trough according to the e-chain® Series and e-chain® width *Bi*
- Determine the feeding point of the cables
- Determine travel distance and thus the length of the required guide trough and the number of trough pieces. Standard length of a trough side plate: 78.7" (2000 mm). The length of the guide trough - for axial feeding - is calculated from half the travel length with and half the travel length without the glide bar
- Number and selection of the assembly kit

The quantity of the assembly kit is calculated from the number of the trough pieces + 1 kit:



- The assembly kit matches the igus® profile rail option
- If you have opted for an e-chain® with KMA mounting brackets, we offer you a fixed-end module for the quick and simple fastening of the e-chain® in the trough without holes

Installation Guide-PDF with detailed assembly information
 ► www.igus.com/installation-guide-pdf

Order example Based on Part No. 94-30



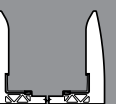
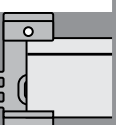
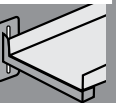
Order example: Length of travel 98.4 ft. (30 m) -
 Center mounted for Series E4-56-20-300-0 with $B_{Ri} = 239$

Guide trough set (set of 2 trough side parts, incl. glide strips) without glide bar	Part No. 94-30
Order text: 52.5 ft. (16 m) guide trough without glide bar (8 x 6.56 ft. (2 m) sections)	
Guide trough set (set of 2 trough side parts, incl. glide strips) with glide bar	Part No. 94-31
Order text: 52.5 ft. (16 m) guide trough with glide bar (8 x 6.56 ft. (2 m) sections)	
Installation set "Basic" complete (guide trough-sets + 1)	Part No. 94-50-350
Order text: 17 installation sets "Basic"	
Module for the fixed end	Part No. 94-80-01
Order text: 1 set	

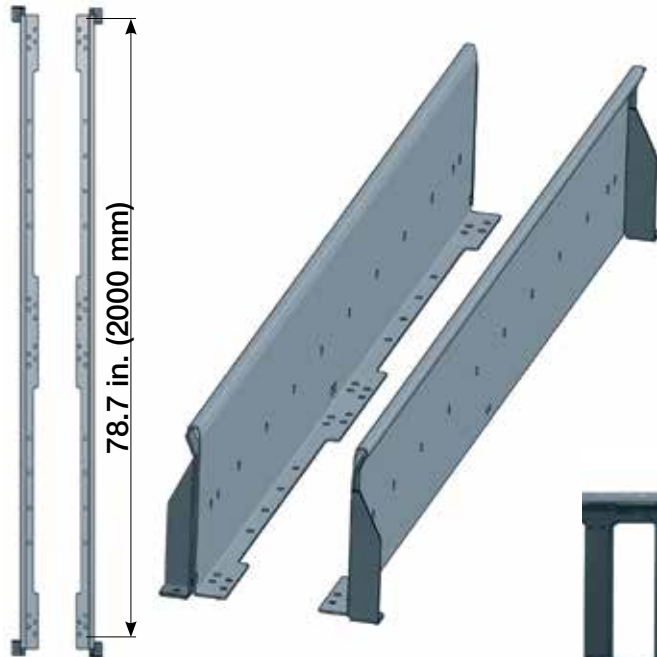


Calculation - travel center mounted: Half travel length, rounded down to full 2 m sections = X m guide trough length without glide bars + X m guide trough length with glide bars + installation sets Basic (number of trough pieces + 1)

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



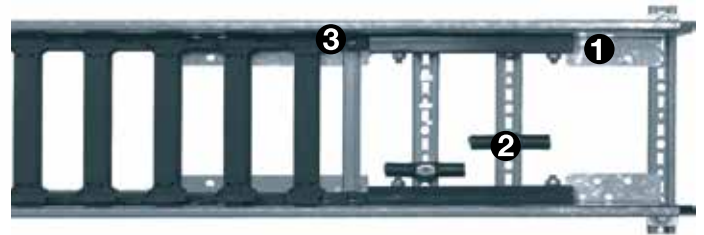
Fixed end module - Quick and simple fastening onto the steel guide trough



Until now, the steel trough had to be modified on site to fit the mounting brackets at the stationary end of the e-chain®. That is now history. With its prefabricated boreholes, the 78.7" (2,000 mm) long kit can be used for middle-feed, end-feed and opposed installation.

- ❶ Fast fixation of mounting brackets thanks to prefabricated boreholes
- ❷ Fast installation of profile rail for strain relief
- ❸ Fast bolting of glide bars

Industries: Power plants, coal conveyors, mining, composting plants, raw material storage, gypsum plants, etc.



Part No.	For Steel Guide Troughs	For e-chain® Series
90-80-01*	90-30 90-31	800, 840
92-80-01*	92-30 92-31	2500, 255
93-80-01	93-30 93-31	3500, R68, E4-42/H4-42/R4-42, E4-48L/R4-48L
94-80-01	94-30 94-31	E4-56/H4-56/R4-56, 14040/14140 /R18840, 14240/14340
95-80-01*	95-30 95-31	2700
96-80-01	96-30 96-31	E4-80/H4-80/R4-80, 15050/5150/R19850
97-80-01	97-30 97-31	E4-32/H4-32/R4-32, E4-38L/R4-38L
98-80-01	98-30 98-31	E4-112/H4-112/R4-112, 1640/R1608
99-80-01	99-30 99-31	E4-28/R4-28
94-14550-80-01*	94-14550-30 94-14550-31	14550/14650/R19050

*Available upon request, please consult igus® for delivery time!



Fixed end module - length 78.7 in. (2000 mm)

Guide Trough Systems

Steel Guide Troughs - One-Piece - U-Shaped

Special solutions for Series 10, 15 and B15



One-piece guide troughs made of steel are available for the following Energy Chains®: Series 10, 15 and B15. These guide troughs are available from stock for outer chain widths up to 2.36 in. (60 mm). For wider e-chains® and Tubes, special solutions are possible with short lead times.

No installation sets are required for these trough sizes since the guide troughs consist of a one-piece U-profile. The joint connection with this type of guide trough is specified individually for every application.

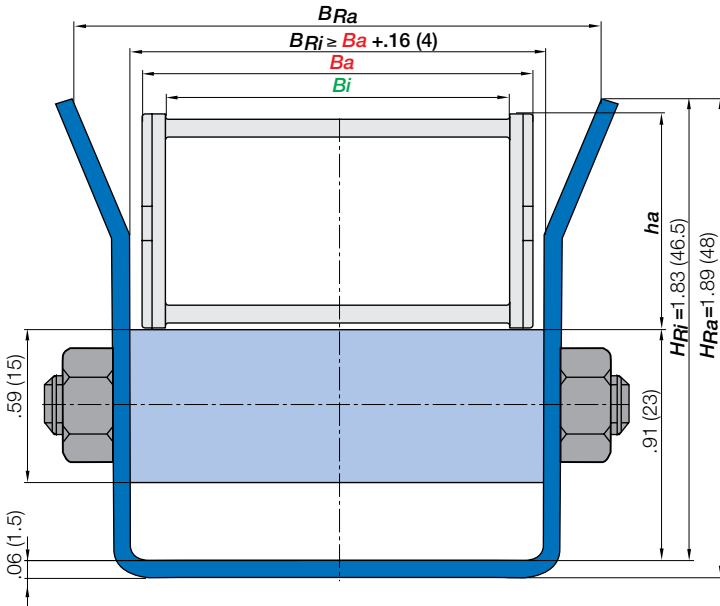
For the following Series

System E2 Series:

- 10
- B15

System Zipper Series:

- 15



- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- H_{ri} = Inner trough height
- H_{ra} = Outer trough height
- B_{ri} = Inner trough width
- B_{ra} = Outer trough width

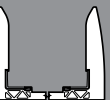
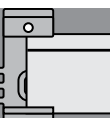
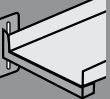


Dimensions Guide troughs 91-10 – 91-71

For Series	Part No.	B_{ra} in. (mm)	B_{ri} in. (mm)	Weight lbs/ft (kg/m)
10-015/15-015/B15-015				
Trough without glide bar 6.56 ft. (2m section)	91-10	1.59 (40.5)	1.18 (30)	1.01 (1.50)
Glide bar 6.56 ft. (2m section)	91-11	1.59 (40.5)	1.18 (30)	.30 (.45)
10-025/15-025/B15-025				
Trough without glide bar 6.56 ft. (2m section)	91-20	1.99 (50.5)	1.57 (40)	1.11 (1.65)
Glide bar 6.56 ft. (2m section)	91-21	1.99 (50.5)	1.57 (40)	.38 (.57)
10-038/15-038/B15-038				
Trough without glide bar 6.56 ft. (2m section)	91-30	2.46 (62.5)	2.05 (52)	1.21 (1.80)
Glide bar 6.56 ft. (2m section)	91-31	2.46 (62.5)	2.05 (52)	.46 (.68)
10-050/15-050/B15-050				
Trough without glide bar 6.56 ft. (2m section)	91-40	2.85 (72.5)	2.44 (62)	1.28 (1.90)
Glide bar 6.56 ft. (2m section)	91-41	2.85 (72.5)	2.44 (62)	.61 (.91)
10-5/15-5/B15-5				
Trough without glide bar 6.56 ft. (2m section)	91-50	3.60 (91.5)	3.19 (81)	1.52 (2.26)
Glide bar 6.56 ft. (2m section)	91-51	3.60 (91.5)	3.19 (81)	.84 (1.25)
10-6/15-6/B15-6				
Trough without glide bar 6.56 ft. (2m section)	91-60	4.27 (108.5)	3.86 (98)	1.83 (2.72)
Glide bar 6.56 ft. (2m section)	91-61	4.27 (108.5)	3.86 (98)	.91 (1.35)
10-7/15-7/B15-7				
Trough without glide bar 6.56 ft. (2m section)	91-70	5.06 (128.5)	4.65 (118)	2.13 (3.17)
Glide bar 6.56 ft. (2m section)	91-71	5.06 (128.5)	4.65 (118)	1.14 (1.70)

Trough material in general: St 1203 galvanized

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. 92-30 - Trough Height: 2.76 in. (70 mm)

For the following Series

System E2/000 Series:

● 2400/2500

● 255

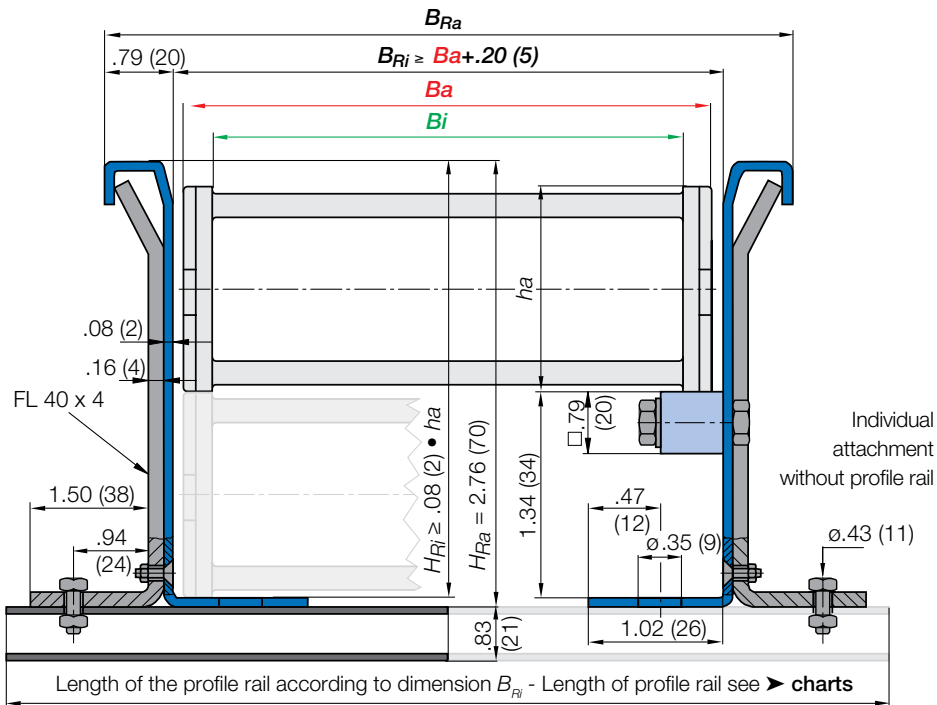
System E2 Tube Series:

● R48

igus®
e-chain system®

Telephone 1-800-521-2747

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



Steel Guide Trough components - Sets and single parts

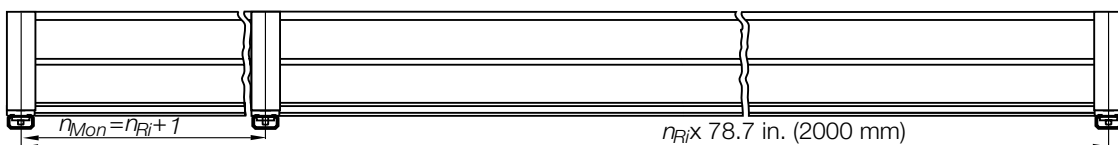
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	92-30	19.85
1 Installation set "Basic" with profile rail	92-50-____	
1 Installation set "Basic" without profile rail	92-50	.84
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	92-01	4.52

Single parts - description

1 profile rail, individual	92-52-____	.60 lbs/ft.
1 Clamping brackets, 2 pcs	92-51	.31
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs.	92-21	1.21

Supplement Part No. with the indicated profile rail-length-index. **Example: 92-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

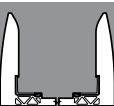
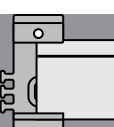
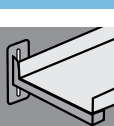
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

2400/2500			255		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-02	1.81 (46)	*	-03	2.32 (59)	92-50-175
-03	2.32 (59)	92-50-175	-05	3.07 (78)	92-50-200
-05	3.07 (78)	92-50-200	-07	3.86 (98)	92-50-225
-07	3.86 (98)	92-50-225	-10	4.88 (124)	92-50-250
-09	4.33 (110)	92-50-225			
-10	4.88 (124)	92-50-250			
-12	5.75 (146)	92-50-275			



igus® steel guide trough used in a robotics application

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



For the following Series

System E2/000 Series:

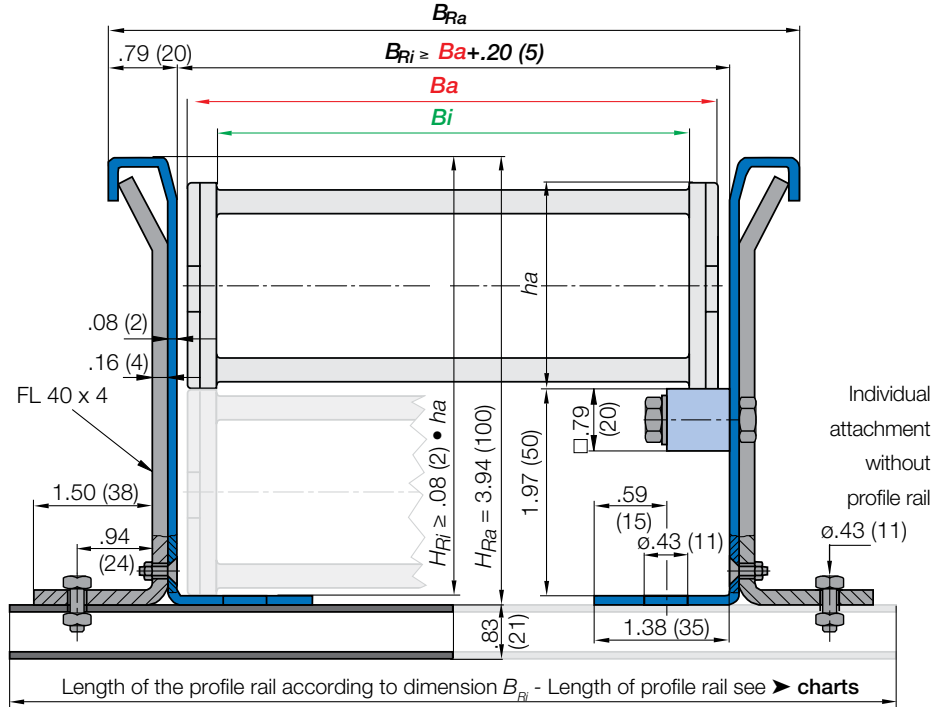
- 2600/2700

System E2 Tube Series:

- R58

Part No. **95-30** - Trough Height: 3.94 in. (100 mm)

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



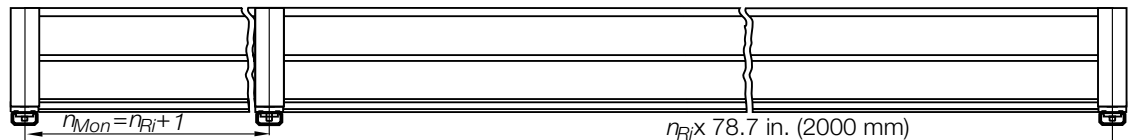
Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	95-30	23.81
1 Installation set "Basic" with profile rail	95-50-___	
1 Installation set "Basic" without profile rail	95-50	1.01
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	92-01	4.52

Single parts - description	Part No.	Weight lbs
1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	95-51	.40
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	92-21	1.21

Supplement Part No. with the indicated profile rail-length-index. **Example: 95-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



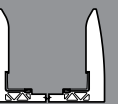
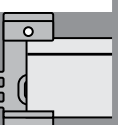
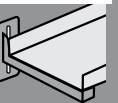
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

2600/2700			R58		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-05	2.80 (71)	95-50-200	-050	2.80 (71)	95-50-200
-06	3.39 (86)	95-50-200	-075	3.78 (96)	95-50-225
-07	3.78 (96)	95-50-225	-100	4.76 (121)	95-50-250
-09	4.37 (111)	95-50-225	-125	5.75 (146)	95-50-275
-10	4.76 (121)	95-50-250	-150	6.73 (171)	95-50-300
-12	5.75 (146)	95-50-275	-175	7.72 (196)	95-50-325
-15	6.73 (171)	95-50-300	-200	8.70 (221)	95-50-350
-17	7.83 (199)	95-50-300			



igus® steel guide trough used in a shelf conveyor application, Series E2/000 and chainflex® cables

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains

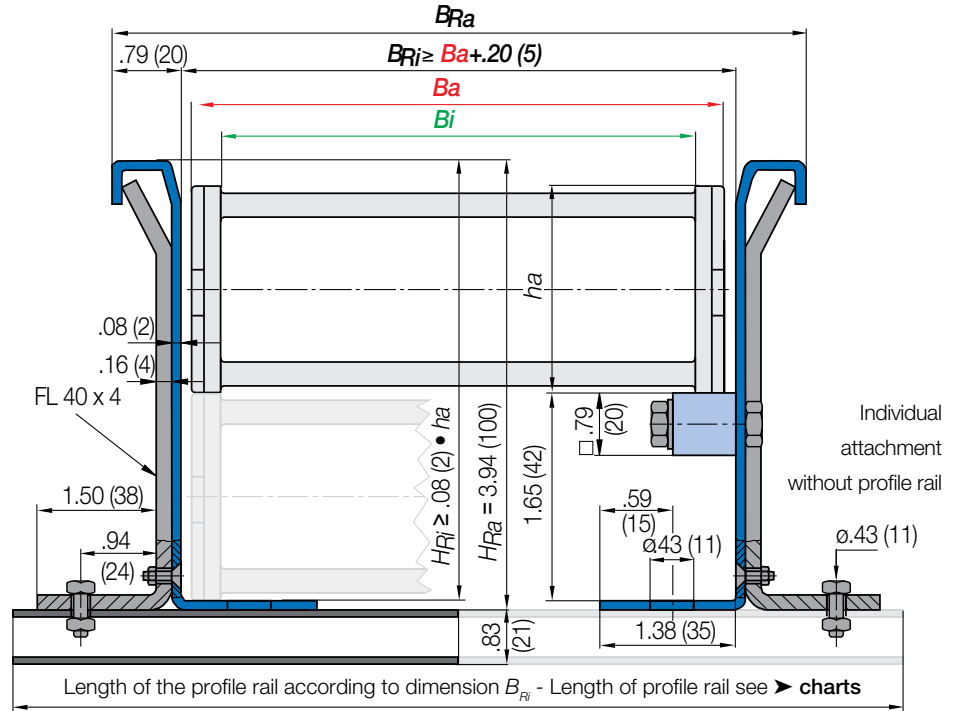


For the following Series

- System E4-1 Series
 - E4-28/R4-28
- System E4-1 Light Series
 - E4-31L/R4-31L

Part No. **96-30** - Trough Height: 3.94 in. (100 mm)

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	96-30	23.81
1 Installation set "Basic" with profile rail	95-50-___	
1 Installation set "Basic" without profile rail	96-50	1.01
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	92-01	4.52

Single parts - description

1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	95-51	.40
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	92-21	1.21

Supplement Part No. with the indicated profile rail-length-index. **Example: 95-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

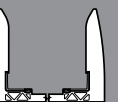
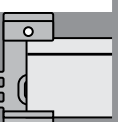
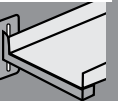
E4-28/R4-28			E4-31L/R4-31L		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-040	2.56 (65)	*	-040	2.32 (59)	*
-050	2.95 (75)	95-50-200	-050	2.72 (69)	*
-062	3.43 (87)	95-50-200	-062	3.19 (81)	95-50-200
-070	3.74 (95)	95-50-200	-075	3.70 (94)	95-50-200
-075	3.94 (100)	95-50-225	-087	4.17(106)	95-50-225
-100	4.92 (125)	95-50-250	-100	4.69 (119)	95-50-225
-125	5.91 (150)	95-50-275	-112	5.16 (131)	95-50-250
-150	6.89 (175)	95-50-300	-125	5.67 (144)	95-50-250
-175	7.87 (200)	95-50-325	-150	6.65 (169)	95-50-275
-200	8.86 (225)	95-50-350	-162	7.13 (181)	95-50-300
-225	9.84 (250)	95-50-375	-175	7.64 (194)	95-50-300
-250	10.83 (275)	95-50-400	*upon request		
-275	11.81 (300)	95-50-425			
-300	12.80 (325)	95-50-450			

*upon request



Lightweight and high stability:
igus® e-chain® tames stiff
hydraulic hoses

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



For the following Series

System E4-1 Series

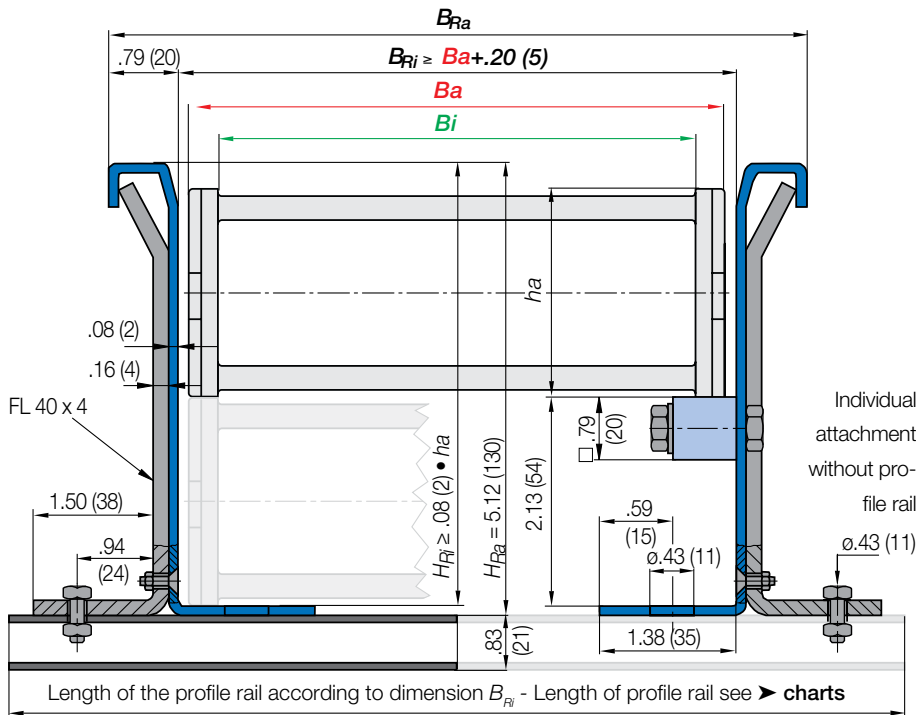
- E4-32/H4-320/R4-32

System E4-1 Light Series:

- E4-38L/R4-38L

Part No. **98-30** - Trough Height: 5.12 in. (130 mm)

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



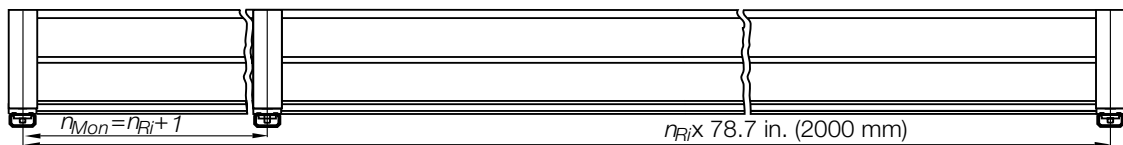
Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	98-30	28.22
1 Installation set "Basic" with profile rail	93-50-____	
1 Installation set "Basic" without profile rail	93-50	1.19
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	92-01	4.52

Single parts - description	Part No.	Weight
1 profile rail, individual	92-52-____	.60 lbs/ft
1 Clamping brackets, 2 pcs	93-51	.49
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	1.21

Supplement Part No. with the indicated profile rail-length-index. **Example: 93-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



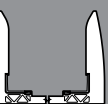
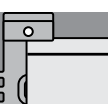
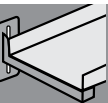
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

E4-32/H4-32/R4-32			E4-38L/R4-38L		
Width Index	B _{Ri} in. (mm)	Part No. Installation set	Width Index	B _{Ri} in. (mm)	Part No. Installation set
-05	3.15 (78)	93-50-200	-050	2.80 (71)	93-50-200
-06	3.86 (96)	93-50-225	-062	3.27 (83)	93-50-200
-07	4.13 (103)	93-50-225	-075	3.78 (96)	93-50-225
-087	4.61 (115)	93-50-225	-087	4.25 (108)	93-50-225
-10	5.12 (128)	93-50-250	-100	4.76 (121)	93-50-250
-11	5.43 (136)	93-50-250	-105	4.96 (126)	93-50-250
-112	5.59 (141)	93-50-250	-112	5.24 (133)	93-50-250
-12	6.10 (153)	93-50-275	-125	5.75 (146)	93-50-275
-137	6.57 (166)	93-50-275	-137	6.22 (158)	93-50-275
-15	7.09 (178)	93-50-300	-150	6.73 (171)	93-50-300
-162	7.56 (191)	93-50-300	-162	7.21 (183)	93-50-300
-17	7.80 (196)	93-50-325	-175	7.72 (196)	93-50-325
-18	8.07 (203)	93-50-325	-187	8.19 (208)	93-50-325
-187	8.54 (216)	93-50-325	-200	8.70 (221)	93-50-350
-20	9.06 (228)	93-50-350	-212	9.17 (233)	93-50-350
-212	9.53 (241)	93-50-350	-225	9.69 (246)	93-50-375
-23	10.04 (253)	93-50-375	-237	10.16 (258)	93-50-375
-237	10.51 (266)	93-50-375	-250	10.67 (271)	93-50-400
-25	11.02 (278)	93-50-400	-262	11.14 (283)	93-50-400
-262	11.50 (291)	93-50-400	-300	12.64 (321)	93-50-450
-28	12.01 (303)	93-50-425			
-29	12.48 (316)	93-50-425			
-30	12.99 (328)	93-50-450			
-312	13.46 (341)	93-50-450			
-325	13.98 (353)	93-50-475			
-337	14.45 (366)	93-50-475			
-350	14.96 (378)	93-50-500			
-362	15.43 (391)	93-50-500			
-375	15.94 (403)	93-50-525			
-387	16.42 (416)	93-50-525			
-400	16.93 (428)	93-50-550			



igus® System E4 with extension link at a ship loader for the coal unloading.
 Travel 344.5 ft.(105 m), speed 787 ft/min (240 m/min), load 35.6 lbs/ft (53 kg/m)

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



For the following Series

System E2/000 Series:

- 3400/3500

System E2 Tube Series:

- R68

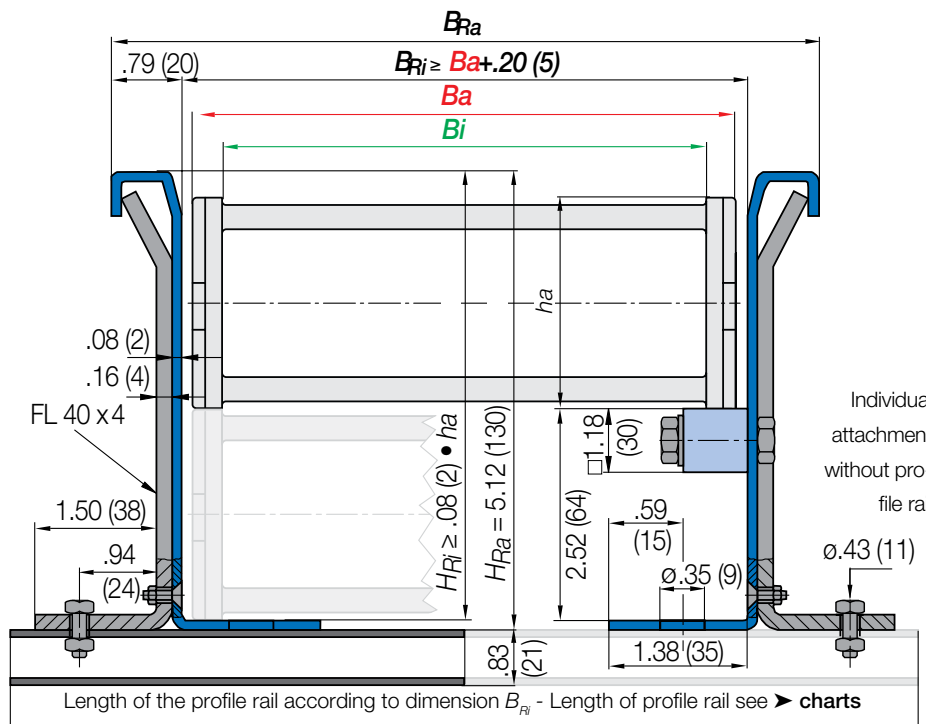
System E4-1 Series

- E4-42/H4-42/R4-42

System E4-1 Light Series:

- E4-48L/R4-48L

Part No. **93-30** - Trough Height: 5.12 in. (130 mm)



- Ba** = Outer e-chain® width
- Bi** = Inner e-chain® width
- ha** = e-chain® outer height
- H_{Ri}** = Inner trough height
- H_{Ra}** = Outer trough height
- B_{Ri}** = Inner trough width > depends on dim. **Ba**
- B_{Ra}** = Outer trough width
- n_{Mon}** = # of installation sets (left/right)
- n_{Ri}** = # of trough set (left/right)
- ! **H_{Ri} ≥ 2 • ha**
- **B_{Ri} ≥ Ba + 5**
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail

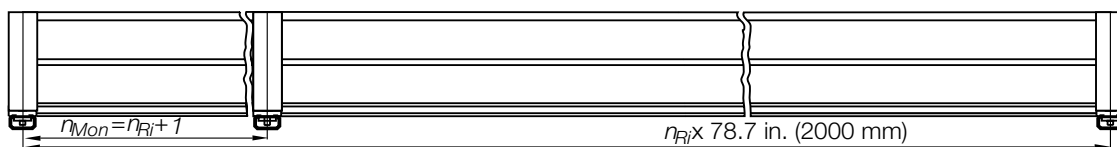
Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	93-30	28.22
1 Installation set "Basic" with profile rail	93-50-___	
1 Installation set "Basic" without profile rail	93-50	1.19
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	9.95

Single parts - description		
1 profile rail, individual	92-52-___	.60 lbs/ft.
1 Clamping brackets, 2 pcs	93-51	.49
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	2.67

Supplement Part No. with the indicated profile rail-length-index. **Example: 93-50-175**
profile rail-length-index for your chosen trough inner width **B_{Ri}** > **opposite page**

Design sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

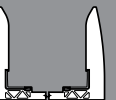
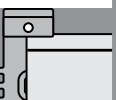
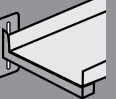
3400/3500			E4-42/H4-42/R4-42			E4-48L/R4-48L		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-075	3.94 (100)	93-50-225	-05	3.19 (81)	93-50-200	-050	2.95 (75)	93-50-200
-115	5.51 (140)	93-50-250	-06	3.90 (99)	93-50-225	-062	3.43 (87)	93-50-200
-175	7.87 (200)	93-50-300	-07	4.17 (106)	93-50-225	-075	3.94 (100)	93-50-225
			-087	4.69 (119)	93-50-250	-087	4.41 (112)	93-50-225
			-10	5.16 (131)	93-50-250	-100	4.92 (125)	93-50-250
			-11	5.47 (139)	93-50-250	-105	5.11 (130)	93-50-250
			-112	5.67 (144)	93-50-275	-112	5.39 (137)	93-50-250
			-12	6.14 (156)	93-50-275	-125	5.91 (150)	93-50-275
			-137	6.65 (169)	93-50-300	-137	6.38 (162)	93-50-275
			-15	7.12 (181)	93-50-300	-150	6.89 (175)	93-50-300
			-162	7.64 (194)	93-50-325	-162	7.36 (187)	93-50-300
			-17	7.83 (199)	93-50-325	-175	7.87 (200)	93-50-325
			-18	8.11 (206)	93-50-325	-200	8.86 (225)	93-50-350
			-187	8.62 (219)	93-50-350	-225	9.84 (250)	93-50-375
			-20	9.09 (231)	93-50-350	-237	10.31 (262)	93-50-375
			-212	9.61 (244)	93-50-375	-250	10.83 (275)	93-50-400
			-23	10.08 (256)	93-50-375	-262	11.30 (287)	93-50-400
			-237	10.59 (269)	93-50-400	-300	12.80 (325)	93-50-450
			-25	11.06 (281)	93-50-400			
			-262	11.57 (294)	93-50-425			
			-28	12.05 (306)	93-50-425			
			-29	12.56 (319)	93-50-450			
			-30	13.03 (331)	93-50-450			
			-312	13.54 (344)	93-50-475			
			-325	14.01 (356)	93-50-475			
			-337	14.52 (369)	93-50-500			
			-350	15.00 (381)	93-50-500			
			-362	15.51 (394)	93-50-525			
			-375	16.02 (407)	93-50-525			
			-387	16.50 (419)	93-50-550			
			-400	16.97 (431)	93-50-550			

R68		
Width Index	B_{Ri} in. (mm)	Part No. Installation set
-050	2.87 (73)	93-50-200
-075	3.86 (98)	93-50-225
-100	4.84 (123)	93-50-250
-115	5.43 (138)	93-50-250
-125	5.83 (148)	93-50-275
-150	6.81 (173)	93-50-300
-175	7.80 (198)	93-50-325
-200	8.78 (223)	93-50-350
-225	9.76 (248)	93-50-375
-250	10.75 (273)	93-50-400



Travel up to 639.7 ft. (195 m) with the igus® System E4, safely guided in an igus® steel trough

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

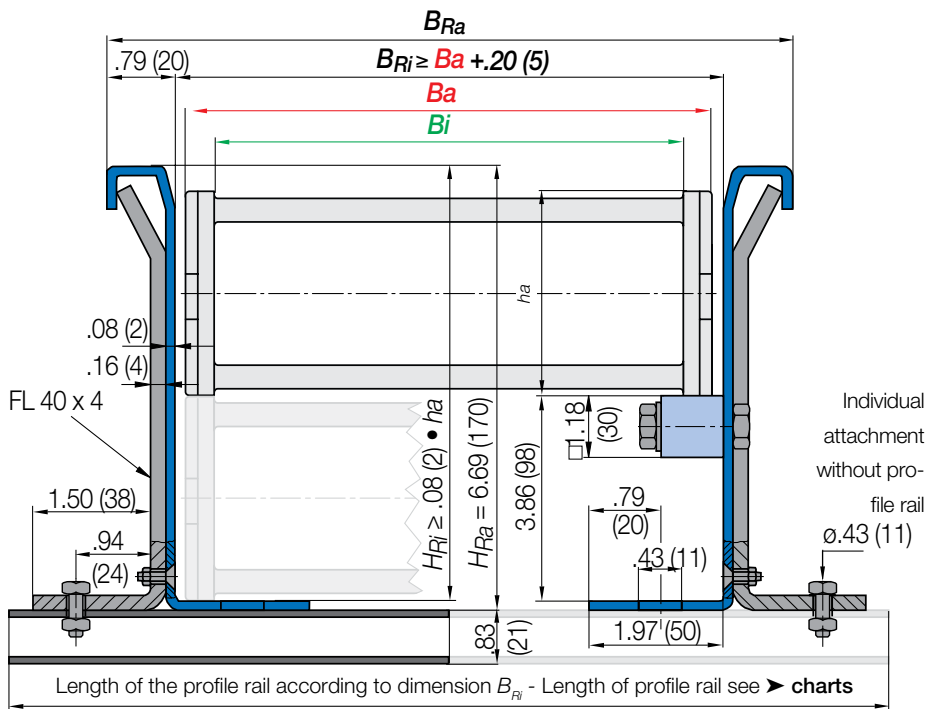


For the following Series

- System E4-1 Series
 - E4-56/H4-56/R4-56
- System E4-1 Light Series
 - E4-64L/R4-64L
- System E4 Light Series:
 - 14040/14140/R18840
 - 14240/14340

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail

Part No. 94-30 - Trough Height: 6.69 in. (170 mm)



Steel Guide Trough components - Sets and single parts

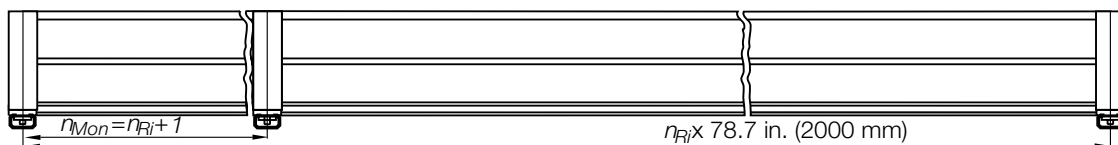
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	94-30	37.04
1 Installation set "Basic" with profile rail	94-50-___	
1 Installation set "Basic" without profile rail	94-50	1.41
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	4.30

Single parts - description

1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	94-51	.60
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	2.65

Supplement Part No. with the indicated profile rail-length-index. **Example: 94-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



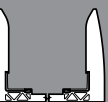
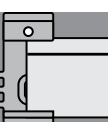
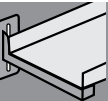
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

E4-56/H4-56/R4-56			14040/14140/R18840			14240/14340			E4-64L/R4-64L		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-05	3.50 (89)	*	-05	3.19 (81)	*	-05	3.19 (81)	*	-087	4.65 (118)	94-50-225
-06	4.23 (104)	94-50-225	-06	3.78 (96)	*	-06	3.90 (99)	*	-100	5.16 (131)	94-50-250
-07	4.49 (114)	94-50-225	-07	4.17 (106)	94-50-225	-07	4.17 (106)	94-50-225	-150	7.13 (181)	94-50-300
-08	4.76 (121)	94-50-225	-10	5.16 (131)	94-50-250	-087	4.65 (118)	94-50-250	-200	9.09 (231)	94-50-350
-10	5.47 (139)	94-50-250	-11	5.63 (143)	94-50-275	-10	5.16 (131)	94-50-250			
-11	5.98 (152)	94-50-275	-12	6.14 (156)	94-50-275	-11	5.47 (139)	94-50-250			
-12	6.46 (164)	94-50-275	-13	6.61 (168)	94-50-300	-112	5.63 (143)	94-50-275			
-13	6.97 (177)	94-50-300	-15	7.13 (181)	94-50-300	-12	6.14 (156)	94-50-275			
-15	7.44 (189)	94-50-300	-16	7.60 (193)	94-50-325	-137	6.61 (168)	94-50-300			
-16	7.95 (202)	94-50-325	-17	8.11 (206)	94-50-325	-15	7.12 (181)	94-50-300			
-17	8.42 (214)	94-50-325	-18	8.58 (218)	94-50-350	-162	7.60 (193)	94-50-325			
-18	8.94 (227)	94-50-350	-20	9.09 (231)	94-50-350	-17	7.83 (199)	94-50-325			
-20	9.41 (239)	94-50-350	-21	9.57 (243)	94-50-375	-18	8.11 (206)	94-50-325			
-21	9.92 (252)	94-50-375	-22	10.08 (256)	94-50-375	-187	8.58 (218)	94-50-350			
-22	10.39 (264)	94-50-375	-23	10.55 (268)	94-50-400	-20	9.09 (231)	94-50-350			
-23	10.91 (277)	94-50-400	-25	11.06 (281)	94-50-400	-212	9.57 (243)	94-50-375			
-25	11.38 (289)	94-50-400	-26	11.54 (293)	94-50-425	-23	10.08 (256)	94-50-375			
-26	11.89 (302)	94-50-425	-27	12.05 (306)	94-50-425	-237	10.55 (268)	94-50-400			
-27	12.36 (314)	94-50-425	-28	12.52 (318)	94-50-450	-25	11.06 (281)	94-50-400			
-28	12.87 (327)	94-50-450	-30	13.03 (331)	94-50-450	-262	11.54 (293)	94-50-425			
-30	13.35 (339)	94-50-450	-31	13.50 (343)	94-50-475	-28	12.05 (306)	94-50-425			
-31	13.86 (352)	94-50-475	-32	14.02 (356)	94-50-475	-29	12.52 (318)	94-50-450			
-32	14.33 (364)	94-50-475	-33	14.49 (368)	94-50-500	-30	13.03 (331)	94-50-450			
-33	14.84 (377)	94-50-500	-35	15.00 (381)	94-50-500	-312	13.50 (343)	94-50-475			
-35	15.31 (389)	94-50-500	-36	15.47 (393)	94-50-525	-325	14.02 (356)	94-50-475			
-36	15.82 (402)	94-50-525	-37	15.98 (406)	94-50-525	-337	14.49 (368)	94-50-500			
-37	16.30 (414)	94-50-525	-38	16.46 (418)	94-50-550	-350	15.00 (381)	94-50-500			
-38	16.81 (427)	94-50-550	-40	16.97 (431)	94-50-550	-362	15.47 (393)	94-50-525			
-40	17.28 (439)	94-50-550	-41	17.44 (443)	94-50-575	-375	15.98 (406)	94-50-525			
-41	17.79 (452)	94-50-575	-42	17.95 (456)	94-50-575	-387	16.46 (418)	94-50-550			
-42	18.27 (464)	94-50-575	-43	18.43 (468)	94-50-600	-400	16.97 (431)	94-50-550			
-43	18.78 (477)	94-50-600	-45	18.94 (481)	94-50-600						
-45	19.25 (489)	94-50-600	-46	19.41 (493)	94-50-625						
-46	19.76 (502)	94-50-625	-47	19.92 (506)	94-50-625						
-47	20.24 (514)	94-50-625	-48	20.59 (518)	94-50-650						
-48	20.75 (527)	94-50-650	-50	20.91 (531)	94-50-650						
-50	21.22 (539)	94-50-650	-51	21.38 (543)	94-50-675						
-51	21.73 (552)	94-50-675	-52	21.89 (556)	94-50-675						
-52	22.20 (564)	94-50-675	-53	22.36 (568)	94-50-700						
-53	22.72 (577)	94-50-700	-55	22.87 (581)	94-50-700						
-55	23.19 (589)	94-50-700	-60	24.84 (631)	94-50-750						
-60	25.28 (639)	94-50-750									



590.5 ft. (180 m) travel, 20.2 lbs/ft (30 kg/m) fill weight.
Two igus® E4 Rol e-chains®

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



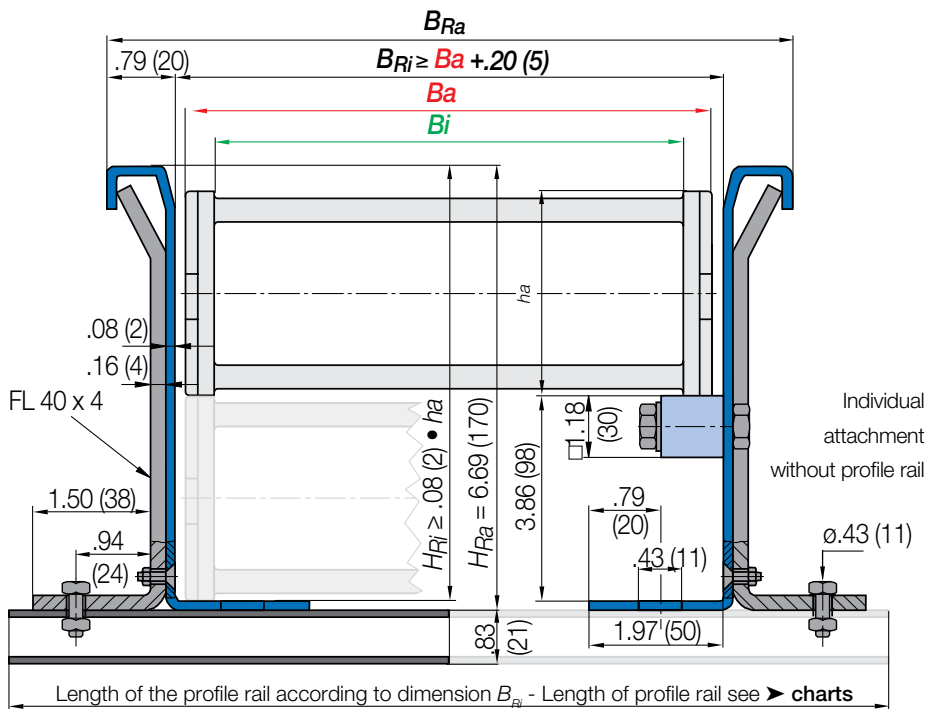
For the following Series

System E4 Light Series:

- 14550/14650/R19050

Part No. **94-14550-30** - Trough Height: 6.69 in. (170 mm)

- B_a** = Outer e-chain® width
- B_i** = Inner e-chain® width
- h_a** = e-chain® outer height
- 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}** = # of installation sets (left/right)
- n_{Ri}** = # of trough set (left/right)
- ! **H_{Ri} ≥ 2 • h_a**
- **B_{Ri} ≥ B_a + 5**
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



Steel Guide Trough components - Sets and single parts

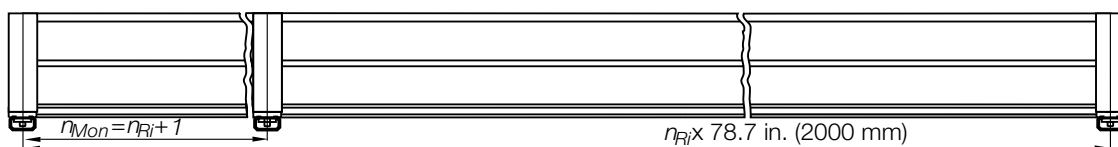
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	94-14550-30	37.04
1 Installation set "Basic" with profile rail	94-50-___	
1 Installation set "Basic" without profile rail	94-50	1.41
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	4.30

Single parts - description

1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	94-51	.60
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	2.65

Supplement Part No. with the indicated profile rail-length-index. **Example: 94-50-175**
profile rail-length-index for your chosen trough inner width **B_{Ri}** ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

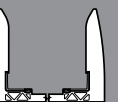
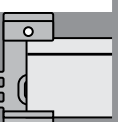
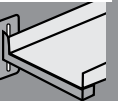
14550/14650/R19050

Width Index	B_{ri} in. (mm)	Part No. Installation set
-05	3.19 (81)	*
-06	3.78 (96)	*
-07	4.17 (106)	94-50-225
-10	5.16 (131)	94-50-250
-11	5.63 (143)	94-50-275
-12	6.14 (156)	94-50-275
-13	6.61 (168)	94-50-300
-15	7.13 (181)	94-50-300
-16	7.60 (193)	94-50-325
-17	8.11 (206)	94-50-325
-18	8.58 (218)	94-50-350
-20	9.09 (231)	94-50-350
-21	9.57 (243)	94-50-375
-22	10.08 (256)	94-50-375
-23	10.55 (268)	94-50-400
-25	11.06 (281)	94-50-400
-26	11.54 (293)	94-50-425
-27	12.05 (306)	94-50-425
-28	12.52 (318)	94-50-450
-30	13.03 (331)	94-50-450
-31	13.50 (343)	94-50-475
-32	14.02 (356)	94-50-475
-33	14.49 (368)	94-50-500
-35	15.00 (381)	94-50-500
-36	15.47 (393)	94-50-525
-37	15.98 (406)	94-50-525
-38	16.46 (418)	94-50-550
-40	16.97 (431)	94-50-550
-41	17.44 (443)	94-50-575
-42	17.95 (456)	94-50-575
-43	18.43 (468)	94-50-600
-45	18.94 (481)	94-50-600
-46	19.41 (493)	94-50-625
-47	19.92 (506)	94-50-625
-48	20.59 (518)	94-50-650
-50	20.91 (531)	94-50-650
-51	21.38 (543)	94-50-675
-52	21.89 (556)	94-50-675
-53	22.36 (568)	94-50-700
-55	22.87 (581)	94-50-700
-60	24.84 (631)	94-50-750



System E4 with extension links, long travel application on board West Navigator (Norway)

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



For the following Series

System E4-1 Series

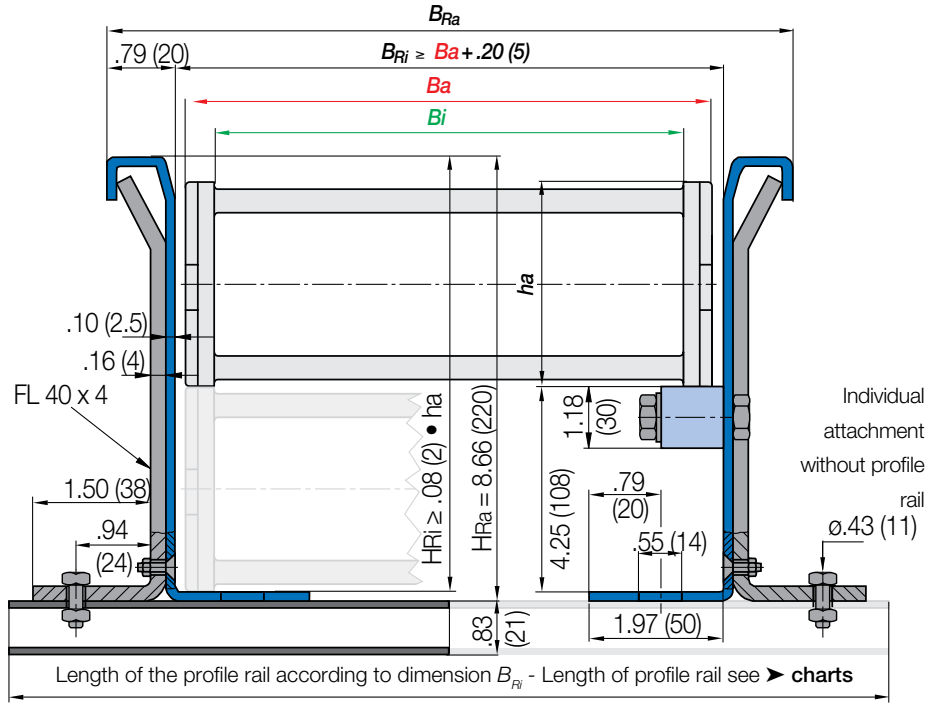
- E4-80/H4-80/R4-80

System E4 Light Series:

- 15050/15150/R19850
- 15250/15350

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail

Part No. **99-30** - Trough Height: 8.66 in. (220 mm)



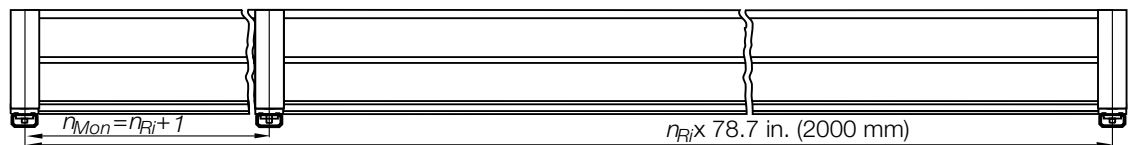
Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	99-30	43.66
1 Installation set "Basic" with profile rail	96-50-___	
1 Installation set "Basic" without profile rail	96-50	1.63
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	9.95

Single parts - description	Part No.	Weight lbs
1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	96-51	.69
4 Flat-head screws M6 x 20	92-53	
4 Lock nuts M6	92-55	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	2.67

Supplement Part No. with the indicated profile rail-length-index. Example: 96-50-175
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ opposite page

Design sketch: Number of installation sets which have to be installed



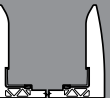
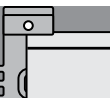
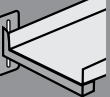
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

E4-80/H4-80/R4-80			15050/15150/R19850			15250/15350		
Width Index	B _{Ri} in. (mm)	Part No. Installation set	Width Index	B _{Ri} in. (mm)	Part No. Installation set	Width Index	B _{Ri} in. (mm)	Part No. Installation set
-05	4.13 (105)	96-50-225	-05	3.35 (85)	*	-05	3.35 (85)	*
-06	4.72 (120)	96-50-250	-07	4.33 (110)	96-50-225	-06	4.06 (103)	96-50-225
-07	5.12 (130)	96-50-250	-10	5.31 (135)	96-50-250	-07	4.33 (110)	96-50-225
-10	6.10 (155)	96-50-275	-11	5.83 (148)	96-50-275	-087	4.80 (122)	96-50-250
-11	6.61 (168)	96-50-300	-12	6.30 (160)	96-50-275	-09	5.20 (132)	96-50-250
-12	7.09 (180)	96-50-300	-13	6.81 (173)	96-50-300	-10	5.31 (135)	96-50-250
-13	7.60 (193)	96-50-325	-15	7.28 (185)	96-50-300	-11	5.63 (143)	96-50-275
-15	8.07 (205)	96-50-325	-16	7.80 (198)	96-50-325	-112	5.83 (148)	96-50-275
-16	8.58 (218)	96-50-350	-17	8.27 (210)	96-50-325	-12	6.30 (160)	96-50-275
-17	9.06 (230)	96-50-350	-18	8.78 (223)	96-50-350	-137	6.77 (172)	96-50-300
-18	9.57 (243)	96-50-375	-20	9.25 (235)	96-50-350	-15	7.28 (185)	96-50-300
-20	10.04 (255)	96-50-375	-21	9.76 (248)	96-50-375	-162	7.80 (198)	96-50-325
-21	10.55 (268)	96-50-400	-22	10.24 (260)	96-50-375	-17	7.99 (203)	96-50-325
-22	11.02 (280)	96-50-400	-23	10.75 (273)	96-50-400	-18	8.27 (210)	96-50-325
-23	11.54 (293)	96-50-425	-25	11.22 (285)	96-50-400	-187	8.78 (223)	96-50-350
-25	12.01 (305)	96-50-425	-26	11.73 (298)	96-50-425	-20	9.25 (235)	96-50-350
-26	12.52 (318)	96-50-450	-27	12.20 (310)	96-50-425	-212	9.76 (248)	96-50-375
-27	12.99 (330)	96-50-450	-28	12.72 (323)	96-50-450	-23	10.24 (260)	96-50-375
-28	13.50 (343)	96-50-475	-30	13.19 (335)	96-50-450	-237	10.75 (273)	96-50-400
-30	13.98 (355)	96-50-475	-31	13.70 (348)	96-50-475	-25	11.22 (285)	96-50-400
-31	14.49 (368)	96-50-500	-32	14.17 (360)	96-50-475	-262	11.73 (298)	96-50-425
-32	14.96 (380)	96-50-500	-33	14.69 (373)	96-50-500	-28	12.20 (310)	96-50-425
-33	15.47 (393)	96-50-525	-35	15.16 (385)	96-50-500	-29	12.72 (323)	96-50-450
-35	15.94 (405)	96-50-525	-36	15.67 (398)	96-50-525	-30	13.19 (335)	96-50-450
-36	16.46 (418)	96-50-550	-37	16.14 (410)	96-50-525	-312	13.70 (348)	96-50-475
-37	16.93 (430)	96-50-550	-38	16.65 (423)	96-50-550	-325	14.17 (360)	96-50-475
-38	17.44 (443)	96-50-575	-40	17.13 (435)	96-50-550	-337	14.69 (373)	96-50-500
-40	17.91 (455)	96-50-575	-41	17.63 (448)	96-50-575	-350	15.16 (385)	96-50-500
-41	18.43 (468)	96-50-600	-42	18.11 (460)	96-50-575	-362	15.67 (398)	96-50-525
-42	18.90 (480)	96-50-600	-43	18.62 (473)	96-50-600	-375	16.14 (410)	96-50-525
-43	19.41 (493)	96-50-625	-45	19.09 (485)	96-50-600	-387	16.65 (423)	96-50-550
-45	19.88 (505)	96-50-625	-46	19.61 (498)	96-50-625	-400	17.13 (435)	96-50-550
-46	20.39 (518)	96-50-650	-47	20.08 (510)	96-50-625			
-47	20.87 (530)	96-50-650	-48	20.59 (523)	96-50-650			
-48	21.38 (543)	96-50-675	-50	21.06 (535)	96-50-650			
-50	21.85 (555)	96-50-675	-51	21.57 (548)	96-50-675			
-51	22.36 (568)	96-50-700	-52	22.04 (560)	96-50-675			
-52	22.83 (580)	96-50-700	-53	22.56 (573)	96-50-700			
-53	23.35 (593)	96-50-725	-55	23.03 (585)	96-50-700			
-55	23.82 (605)	96-50-725	-60	25.00 (635)	96-50-750			
-60	25.79 (655)	96-50-775						

*upon request

*upon request

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

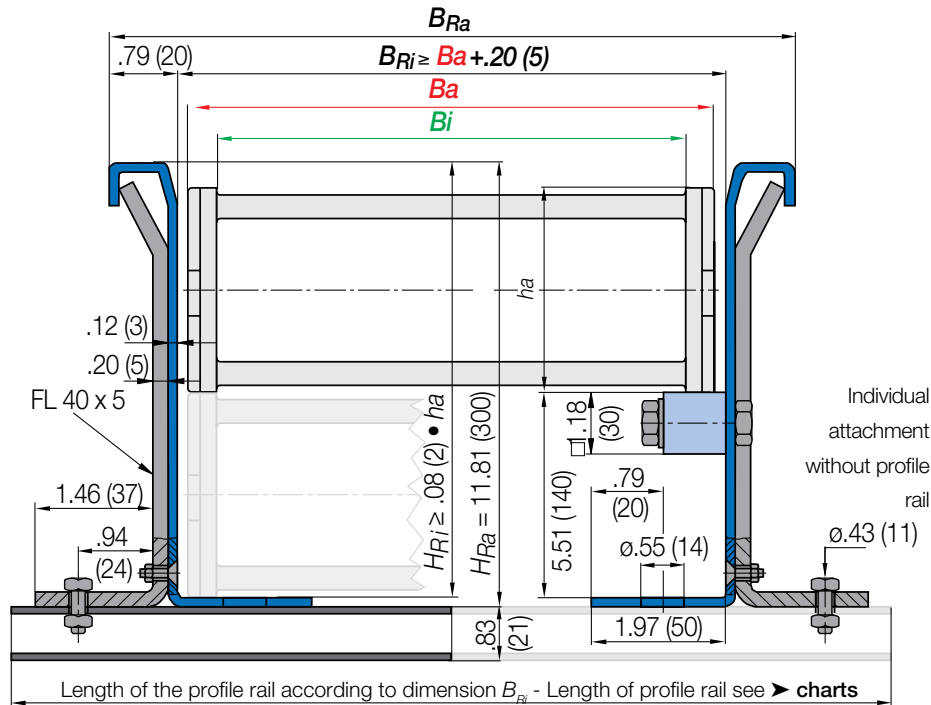


For the following Series

- System E4-1 Series:
 - E4-112/H4-112/R4-112
- System E4 Series:
 - 600/601/R608
- System E4 Light Series:
 - 1640/R1608

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- 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} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- ! $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail

Part No. 97-30 - Trough Height: 11.81 in. (300 mm)



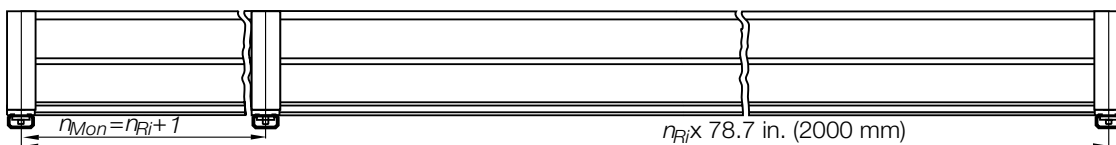
Steel Guide Trough components - Sets and single parts

Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	97-30	60.42
1 Installation set "Basic" with profile rail	97-50-____	
1 Installation set "Basic" without profile rail	97-50	2.47
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	9.95

Single parts - description	Part No.	Weight lbs
1 profile rail, individual	92-52-____	.60 lbs/ft
1 Clamping brackets, 2 pcs	97-51	1.12
4 Flat-head screws M6 x 20	98-52	
4 Lock nuts M8	98-53	
2 3/8 Slide nuts	92-56	
2 Hex-head bolts 3/8 x 3/4	92-57	
Glide bar hardware only, 22 pcs	93-21	2.67

Supplement Part No. with the indicated profile rail-length-index. **Example: 94-50-175**
profile rail-length-index for your chosen trough inner width B_{Ri} ▶ **opposite page**

Design sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

E4-112/H4-112/R4-112			600/601/R608			1640/1608		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-05	4.21 (107)	97-50-225	-20	10.12 (257)	97-50-375	-05	3.50 (89)	*
-06	4.80 (122)	97-50-250	-25	12.09 (307)	97-50-425	-06	4.09 (104)	97-50-225
-07	5.20 (132)	97-50-250	-30	14.06 (357)	97-50-475	-07	4.49 (114)	97-50-250
-10	6.18 (157)	97-50-275	-32	14.84 (377)	97-50-500	-10	5.47 (139)	97-50-275
-11	6.65 (169)	97-50-300	-35	16.02 (407)	97-50-525	-11	5.94 (151)	97-50-275
-12	7.17 (182)	97-50-300	-40	17.99 (457)	97-50-575	-12	6.46 (164)	97-50-300
-13	7.64 (194)	97-50-325	-45	19.96 (507)	97-50-625	-13	6.93 (176)	97-50-300
-15	8.15 (207)	97-50-325	-50	21.93 (557)	97-50-675	-15	7.44 (189)	97-50-325
-16	8.62 (219)	97-50-350	-55	23.90 (607)	97-50-725	-16	7.91 (201)	97-50-325
-17	9.13 (232)	97-50-350	-60	25.87 (657)	97-50-775	-17	8.43 (214)	97-50-350
-18	9.61 (244)	97-50-375				-18	8.90 (226)	97-50-350
-20	10.12 (257)	97-50-375				-20	9.41 (239)	97-50-375
-21	10.59 (269)	97-50-400				-21	9.88 (251)	97-50-375
-22	11.10 (282)	97-50-400				-22	10.39 (264)	97-50-400
-23	11.57 (294)	97-50-425				-23	10.87 (276)	97-50-400
-25	12.09 (307)	97-50-425				-25	11.38 (289)	97-50-425
-26	12.56 (319)	97-50-450				-26	11.85 (301)	97-50-425
-27	13.07 (332)	97-50-450				-27	12.36 (314)	97-50-450
-28	13.54 (344)	97-50-475				-28	12.83 (326)	97-50-450
-30	14.06 (357)	97-50-475				-30	13.35 (339)	97-50-475
-31	14.53 (369)	97-50-500				-31	13.82 (351)	97-50-475
-32	15.04 (382)	97-50-500				-32	14.33 (364)	97-50-500
-33	15.51 (394)	97-50-525				-33	14.80 (376)	97-50-500
-35	16.02 (407)	97-50-525				-35	15.31 (389)	97-50-525
-36	16.50 (419)	97-50-550				-36	15.79 (401)	97-50-525
-37	17.01 (432)	97-50-550				-37	16.30 (414)	97-50-550
-38	17.48 (444)	97-50-575				-38	16.77 (426)	97-50-550
-40	17.99 (457)	97-50-575				-40	17.28 (439)	97-50-575
-41	18.46 (469)	97-50-600				-41	17.76 (451)	97-50-575
-42	18.98 (482)	97-50-600				-42	18.27 (464)	97-50-600
-43	19.45 (494)	97-50-625				-43	18.74 (476)	97-50-600
-45	19.96 (507)	97-50-625				-45	19.25 (489)	97-50-625
-46	20.43 (519)	97-50-650				-46	19.72 (501)	97-50-625
-47	20.94 (532)	97-50-650				-47	20.24 (514)	97-50-650
-48	21.42 (544)	97-50-675				-48	20.71 (526)	97-50-650
-50	21.93 (557)	97-50-675				-50	21.22 (539)	97-50-675
-51	22.40 (569)	97-50-700				-51	21.69 (551)	97-50-675
-52	22.91 (582)	97-50-700				-52	22.20 (564)	97-50-700
-53	23.39 (594)	97-50-725				-53	22.68 (576)	97-50-700
-55	23.90 (607)	97-50-725				-55	23.19 (589)	97-50-725
-60	25.87 (657)	97-50-775				-60	25.16 (639)	97-50-775

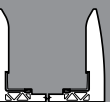
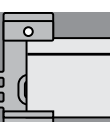
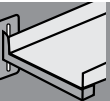
*upon request

*upon request



Rig skidding application on the Claymore, North Sea

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Part No. **90-30** - Trough Height: 18.90 in. (480 mm)

For the following Series

System E4 Series:

- 800

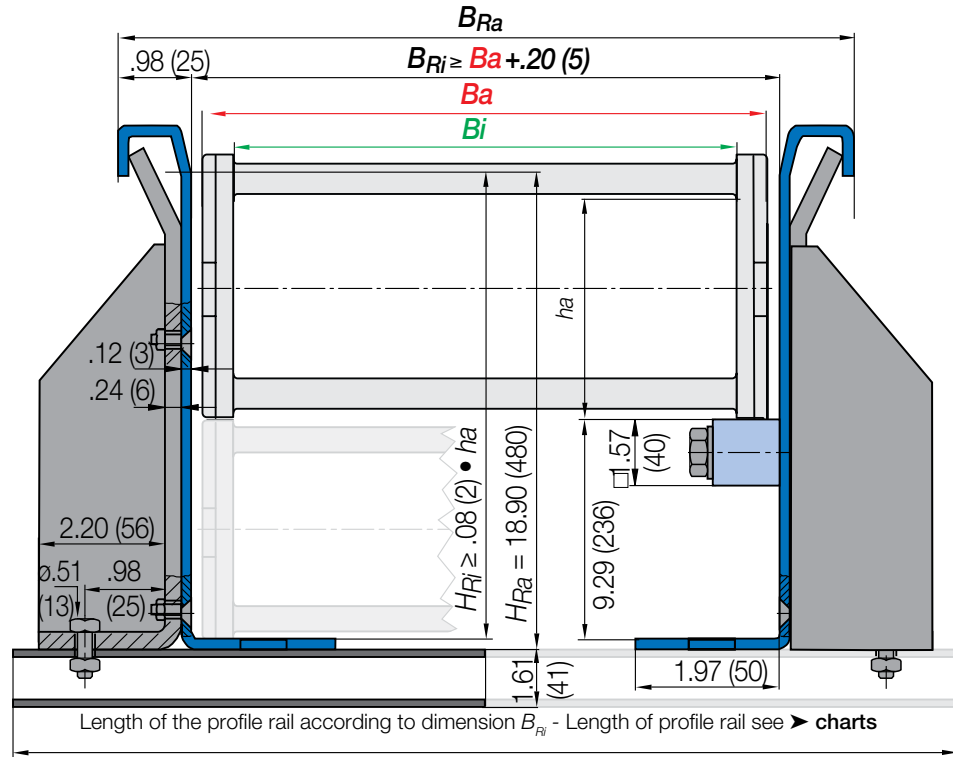
System E4-1 Series

- 840

igus®
e-chain system®

Telephone 1-800-521-2747

- B_a = Outer e-chain® width
- B_i = Inner e-chain® width
- h_a = e-chain® outer height
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width \blacktriangleright depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail



Steel Guide Trough components - Sets and single parts

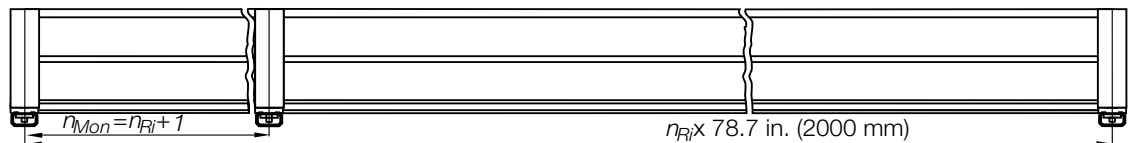
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	90-30	
1 Installation set "Basic" with profile rail	90-50-_____	
1 Installation set "Basic" without profile rail	90-50	
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	90-01	

Single parts - description

1 profile rail, individual	Special part
1 Clamping brackets, 2 pcs	90-51
4 Flat-head screws M8 x 25	92-53
4 Lock nuts M6	92-55
2 3/8 Slide nuts	92-56
2 Hex-head bolts 3/8 x 3/4	92-57
Glide bar hardware only, 22 pcs.	92-21

Supplement Part No. with the indicated profile rail-length-index. **Example: 90-50-200**
profile rail-length-index for your chosen trough inner width B_{Ri} \blacktriangleright **opposite page**

Design sketch: Number of installation sets which have to be installed



Internet: igus.com
email: sales@igus.com
QuickSpec: igus.com/quickspec

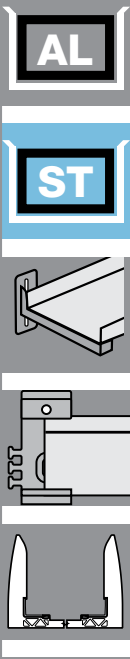
Part No. Installation set: Steel Guide Trough with profile rail (depending on the width)

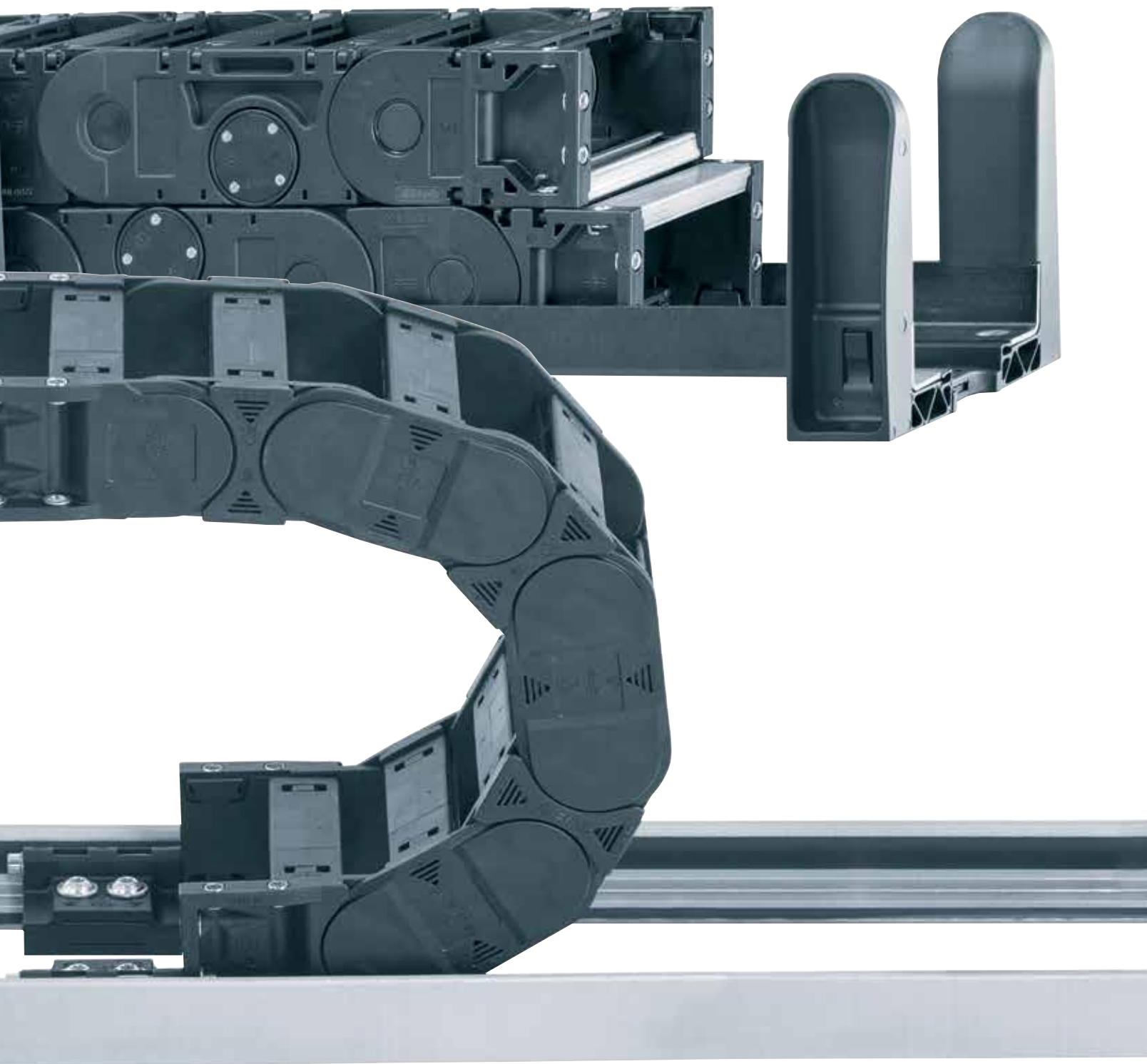
800			840		
Width Index	B_{Ri} in. (mm)	Part No. Installation set	Width Index	B_{Ri} in. (mm)	Part No. Installation set
-20	10.43 (265)	90-50-450	-13	6.49 (165)	90-50-350
-25	12.40 (315)	90-50-500	-15	7.01 (178)	90-50-350
-30	14.37 (365)	90-50-550	-16	7.48 (190)	90-50-375
-32	15.35 (390)	90-50-575	-17	7.99 (203)	90-50-375
-35	16.34 (415)	90-50-600	-18	8.46 (215)	90-50-400
-40	18.31 (465)	90-50-650	-20	8.98 (228)	90-50-400
-45	20.27 (515)	90-50-700	-21	9.45 (240)	90-50-425
-50	22.24 (565)	90-50-750	-22	9.96 (253)	90-50-425
-55	24.21 (615)	90-50-800	-23	10.43 (265)	90-50-450
-60	26.18 (665)	90-50-850	-25	10.94 (278)	90-50-450
			-26	11.42 (290)	90-50-475
			-27	11.93 (303)	90-50-475
			-28	12.40 (315)	90-50-500
			-30	12.91 (328)	90-50-500
			-31	13.39 (340)	90-50-525
			-32	13.90 (353)	90-50-525
			-33	14.37 (365)	90-50-550
			-35	14.88 (378)	90-50-550
			-36	15.35 (390)	90-50-575
			-37	15.87 (403)	90-50-575
			-38	16.34 (415)	90-50-600
			-40	16.85 (428)	90-50-600
			-41	17.32 (440)	90-50-625
			-42	17.83 (453)	90-50-625
			-43	18.31 (465)	90-50-650
			-45	18.82 (478)	90-50-650
			-46	19.29 (490)	90-50-675
			-47	19.80 (503)	90-50-675
			-48	20.20 (513)	90-50-700
			-50	20.79 (528)	90-50-700
			-51	21.26 (540)	90-50-725
			-52	21.77 (553)	90-50-725
			-53	22.24 (565)	90-50-750
			-55	22.76 (578)	90-50-750
			-60	26.18 (665)	90-50-800



Assembling of an E4 e-chain® Series 800 in an igus® steel guide trough

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains





Other guide trough systems

Steel support tray

Aluminum support tray

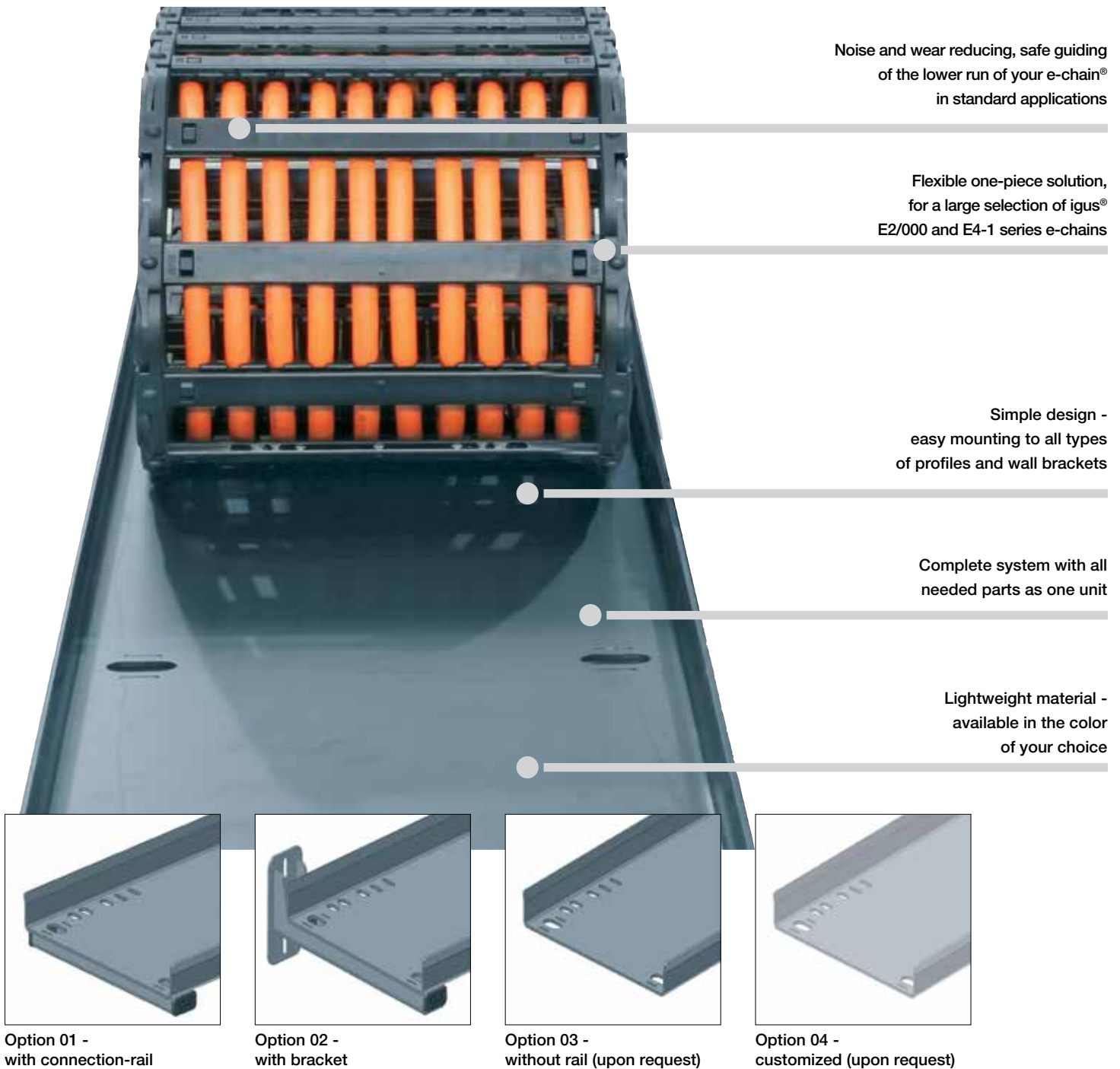
guidefast

guidelite



Steel Support Tray

Introduction - Advantages



For support of the lower run - Support tray tool kit

Simple one-piece support trays for the lower e-chain® run, according with your requirements and specification. Your width, height and color - we supply the fitting e-chain®, together with the support tray system. Ready to install onto your machine or application. Save on procurement and design time.

- Complete system, ready to install
- No more costly self-made designs
- Easy installation onto your machine, on profiles or wall-mount brackets
- igus® support tray - in 2 types and 4 options available
- For many widths available from stock, with many mounting possibilities

Steel Support Tray Selection Table



Support Tray - Type 01 for Series:

- 2400/2450/2480/2500
- 2600/2650/2680/2700
- E4-21
- E4-28/R4-28
- E4-31L/R4-31L
- E4-32/H4-32/R4-32
- E4-38L/R4-38L
- E6-29/R6-29
- E6-35
- E6-40/R6-40
- E61-29

Support tray Part No.	Width e-chain®*	Outer trough width B_{Ra} in. (mm)	Inner trough width B_{Ri} in. (mm)	Material
S9-010/011-05-XXXX-0	-05 / -050	3.50 (89)	3.15 (80)	Steel, black
S9-010/011-07-XXXX-0	-07 / -070	4.49 (114)	4.13 (105)	Steel, black
S9-010/011-10-XXXX-0	-10 / -100	5.47 (139)	5.12 (130)	Steel, black
S9-010/011-15-XXXX-0	-15 / -150	7.28 (185)	6.89 (175)	Steel, black

*depends on width-index



Support Tray - Type 02 for Series:

- 3400/3450/3480/3500
- E4-42/H4-42/R4-42
- E4-48L/R4-48L
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80
- 14040/14140/R18840
- 14240/14340
- 14550/14650/19050
- 15050/15150/R19850
- 15250/15350
- E6-52/R6-52
- E6-62
- E6-80

Support tray Part No.	Width e-chain®*	Outer trough width B_{Ra} in. (mm)	Inner trough width B_{Ri} in. (mm)	Material
S9-020/021-10-XXXX-0	-10 / -100	6.57 (167)	6.14 (156)	Steel, black
S9-020/021-15-XXXX-0	-15 / -150	8.54 (217)	8.11 (206)	Steel, black
S9-020/021-20-XXXX-0	-20 / -200	10.51 (267)	10.08 (256)	Steel, black
S9-020/021-25-XXXX-0	-25 / -250	12.48 (317)	12.05 (306)	Steel, black

*depends on width-index



Support tray with bracket for easy mounting on your application

For the following Series

System E2/000 Series:

● 2400/2450/2480/2500

● 2600/2650/2680/2700

System E4-1 Series:

● E4-21

● E4-28/R4-28

● E4-32/H4-32/R4-28

System E4-1 Light Series:

● E4-38L/R4-38L

System E6 Series:

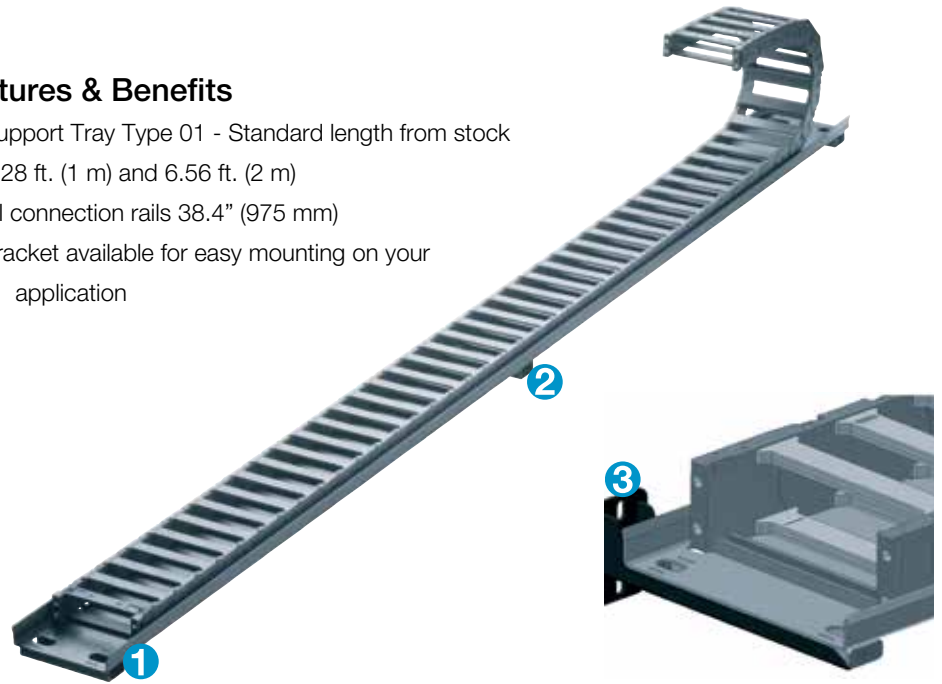
● E6-29/R6-29

● E6-35

● E6-40/R6-40

Features & Benefits

- 1 Support Tray Type 01 - Standard length from stock
3.28 ft. (1 m) and 6.56 ft. (2 m)
- 2 All connection rails 38.4" (975 mm)
- 3 Bracket available for easy mounting on your application



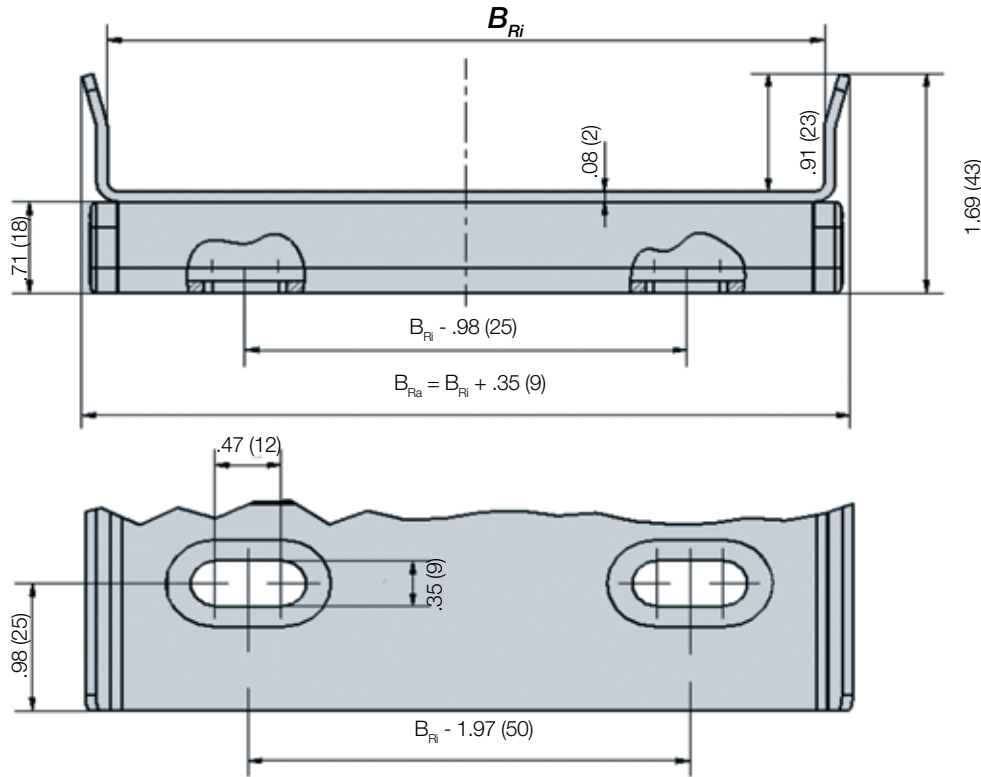
Product Range*

System	Suitable for the following series ▼	Widths- index	B_{Ra} in. (mm)	B_{Ri} in. (mm)	Part No. Support-tray, single	Part No. Support-tray with bracket	Part No. single bracket
E2/000	2400/2450/2480/2500	-05	3.50 (89)	3.15 (80)	S9-010-05-XXXX-0	S9-011-05-XXXX-0	907-724-05
		-07	4.49 (114)	4.13 (105)	S9-010-07-XXXX-0	S9-011-07-XXXX-0	907-724-07
		-10	5.47 (139)	5.12 (130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
E2/000 E4-1 E4-1 Light	2600/2650/2680/2700 E4-32/H4-32/R4-32 E4-38L/R4-38L	-05	3.50 (89)	3.15 (80)	S9-010-05-XXXX-0	S9-011-05-XXXX-0	907-724-05
		-07	4.49 (114)	(105)	S9-010-07-XXXX-0	S9-011-07-XXXX-0	907-724-07
		-10	5.47 (139)	(130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
		-15	7.28 (185)	6.89 (175)	S9-010-15-XXXX-0	S9-011-15-XXXX-0	907-724-15
E4-1 E6 E6 E6-1	E4-21 E6-29/R6-29 E6-35 E61-29	-050	3.50 (89)	3.15 (80)	S9-010-05-XXXX-0	S9-011-05-XXXX-0	907-724-05
		-070	4.49 (114)	4.13 (105)	S9-010-07-XXXX-0	S9-011-07-XXXX-0	907-724-07
		-100	5.47 (139)	5.12 (130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
E4-1 E6	E4-28/R4-28 E6-40/R6-40	-050	3.50 (89)	3.15 (80)	S9-010-05-XXXX-0	S9-011-05-XXXX-0	907-724-05
		-070	4.49 (114)	4.13 (105)	S9-010-07-XXXX-0	S9-011-07-XXXX-0	907-724-07
		-100	5.47 (139)	5.12 (130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
		-150	7.28 (185)	6.89 (175)	S9-010-15-XXXX-0	S9-011-15-XXXX-0	907-724-15

Please replace [XXXX] by the standard lengths 1000 or 2000 mm available from stock!

*The lengths and widths mentioned here are available from stock in the standard black color. For other lengths, widths and colors, please contact igus®.

Mounting holes of the trough system



Standard lengths from stock 3.28 ft. and 6.56 ft. (1 m and 2 m) - All connection rails 38.4" (975 mm)
78.7 (2000)



Part No. structure without bracket 39.4" (1000 mm)

S9-	010-	07-	1000-	0
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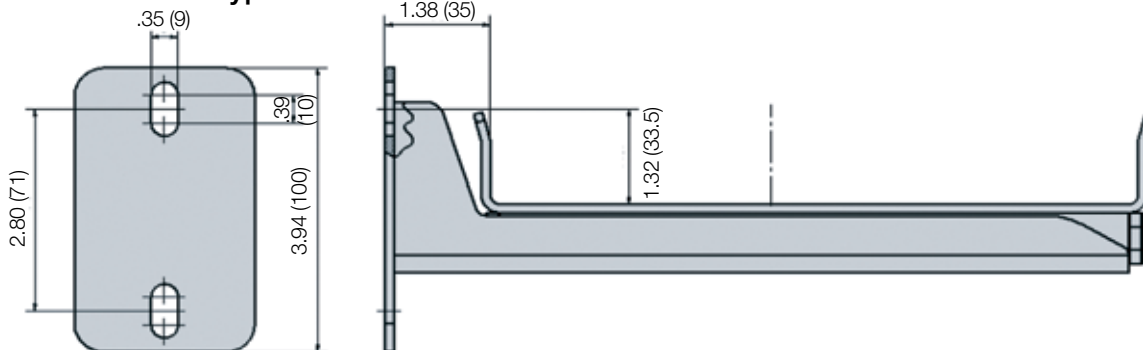
Color, powdered black
Length 1000 mm
e-chain®- width
without bracket
Support tray

Part No. structure with bracket 78.7" (2000 mm)

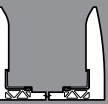
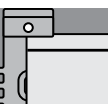
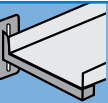
S9-	011-	07-	2000-	0
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Color, powdered black
Length 2000 mm
e-chain®- width
with bracket
Support tray

Bracket - Type 01



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



For the following Series

System E2/000 Series:

- 3400/3450/3480/3500

System E4-1 Series:

- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80

System E4-1 Light Series:

- E4-48L/R4-48L

System E4/Light Series:

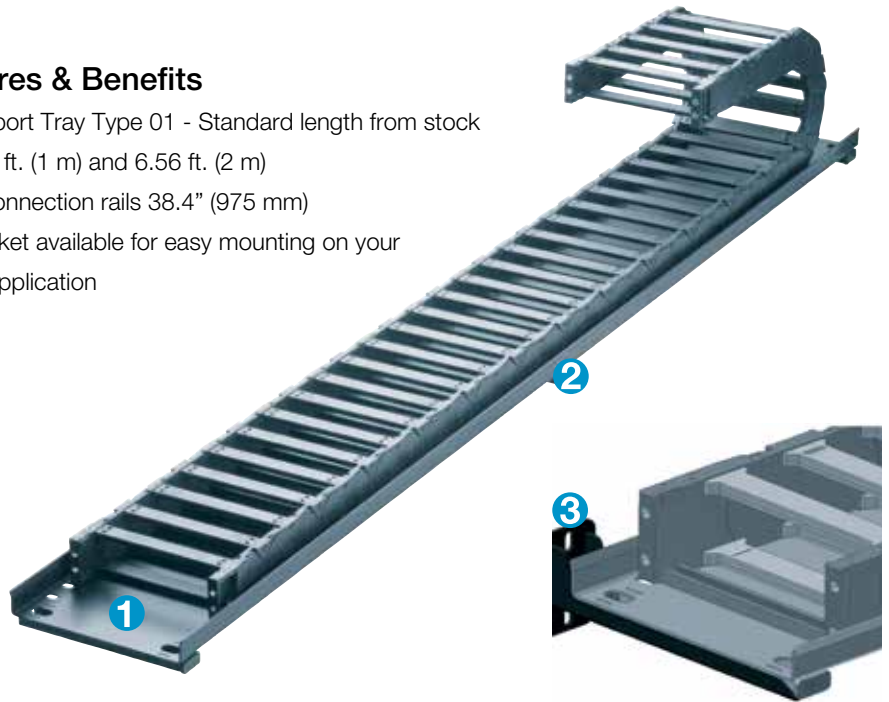
- 14040/14140/R18840
- 14240/14340
- 14550/14650/19050
- 15050/15150/R19850
- 15250/15350

System E6 Series:

- E6-52/R6-52
- E6-62
- E6-80

Features & Benefits

- 1 Support Tray Type 01 - Standard length from stock 3.28 ft. (1 m) and 6.56 ft. (2 m)
- 2 All connection rails 38.4" (975 mm)
- 3 Bracket available for easy mounting on your application



Product Range*

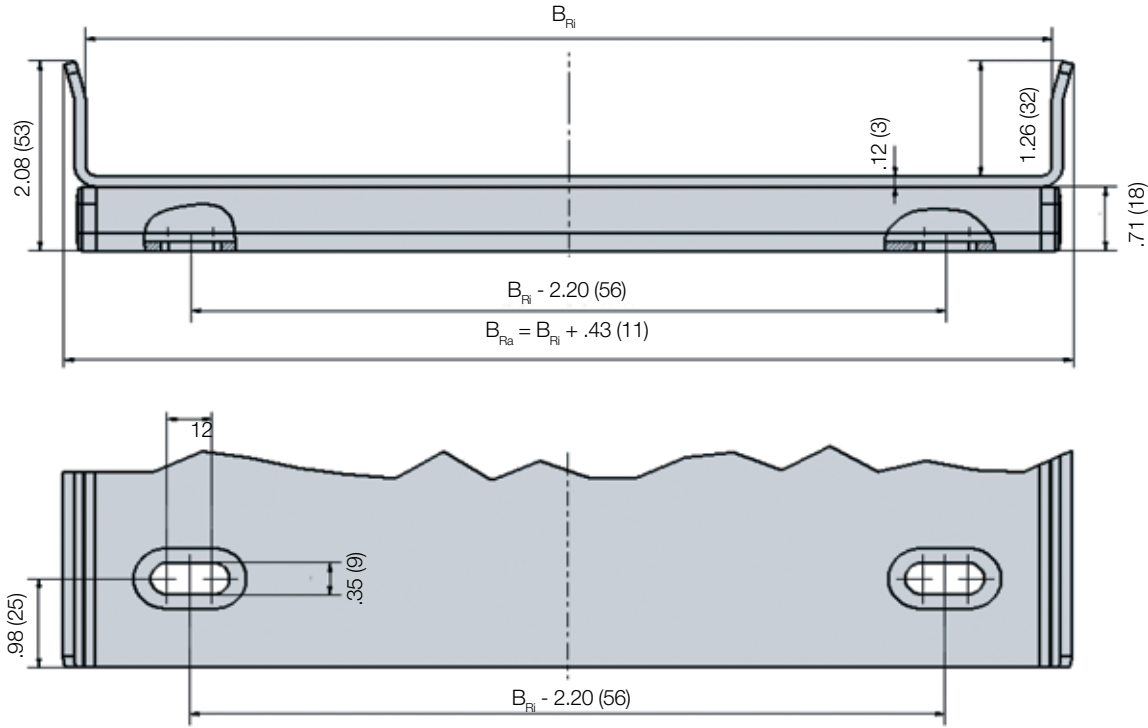
System	Suitable for the following series ▼	Widths-index	B _{Ra} in. (mm)	B _{Ri} in. (mm)	Part No. Support-tray, single	Part No. Support-tray with bracket	Part No. single bracket	
E4-1	E4-42/H4-42/R4-42 E4-56/H4-56/R4-56 E4-80/H4-80/R4-80	-10	6.57 (167)	6.14 (156)	S9-020-10-XXXX-0	S9-021-10-XXXX-0	907-759-10-0	
		-15	8.54 (217)	8.11 (206)	S9-020-15-XXXX-0	S9-021-15-XXXX-0	907-759-15-0	
		-20	10.51 (267)	10.08 (256)	S9-020-20-XXXX-0	S9-021-20-XXXX-0	907-759-20-0	
		-25	12.48 (317)	12.05 (306)	S9-020-25-XXXX-0	S9-021-25-XXXX-0	907-759-25-0	
E4-1 Light E4/light	E4-42/H4-42/R4-42 14040/14140/R18840 14240/14340 14550/14650/19050 15050/15150/R19850							
E6	E6-62, E6-80							
E4/00 E6	3400/3450/3480/3500 E6-52/R6-52	-100	6.57 (167)	6.14 (156)	S9-020-10-XXXX-0	S9-021-10-XXXX-0	907-759-10	
		-150	8.54 (217)	8.11 (206)	S9-020-15-XXXX-0	S9-021-15-XXXX-0	907-759-15	
		-200	10.51 (267)	10.08 (256)	S9-020-20-XXXX-0	S9-021-20-XXXX-0	907-759-20	
		-250	12.48 (317)	12.05 (306)	S9-020-25-XXXX-0	S9-021-25-XXXX-0	907-759-25	

Please replace **XXXX** by the standard lengths 1000 or 2000 mm available from stock!

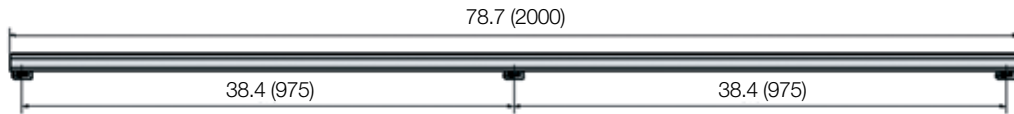
*The lengths and widths mentioned here are available from stock in the standard black color. For other lengths, widths and colors, please contact igus®.



Mounting holes of the trough system



Standard lengths from stock 3.28 ft. and 6.56 ft. (1 m and 2 m) - All connection rails 38.4" (975 mm)



Part No. structure without bracket 39.4" (1000 mm)

S9-	020-	20-	1000-	0
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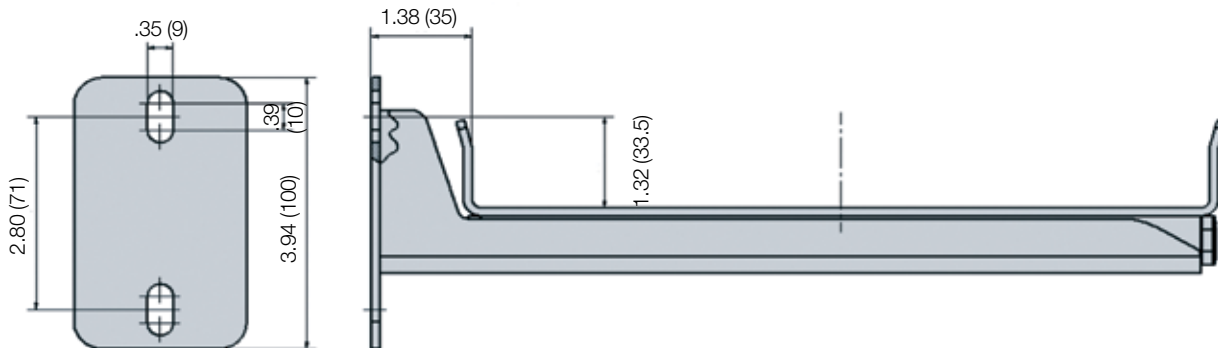
- Color, powdered black
- Length 1000 mm
- e-chain®- width
- without bracket
- Support tray

Part No. structure with bracket 78.7" (2000 mm)

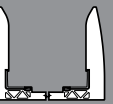
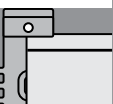
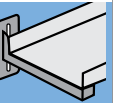
S9-	021-	20-	2000-	0
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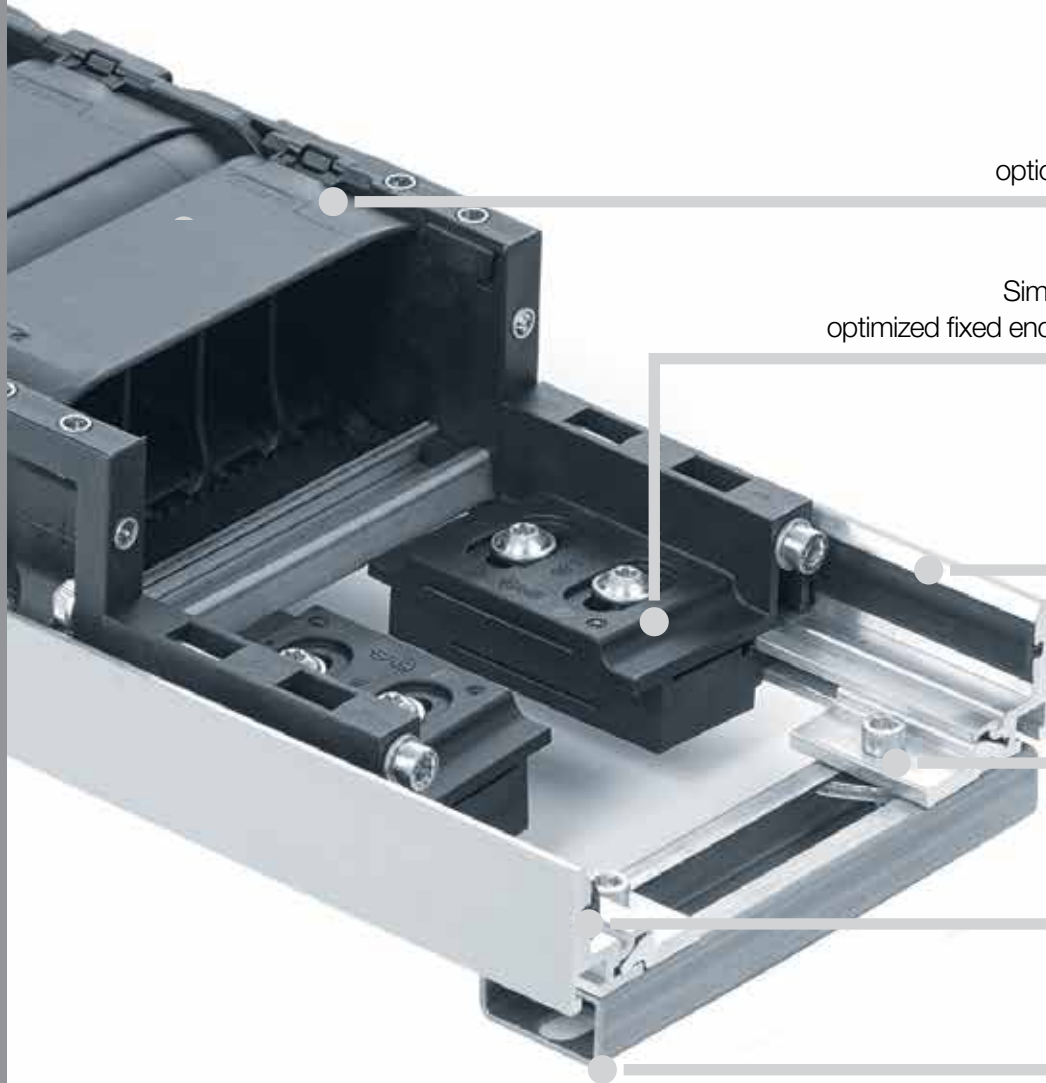
- Color, powdered black
- Length 2000 mm
- e-chain®- width
- with bracket
- Support tray

Bracket - Type 02



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





Noise-reducing:
optional rubber silencer profile

Simple e-chain® connection:
optimized fixed end module made of plastic

Wear-reducing:
glide strips protect from
wear on the sides

Easy installation:
with standard clamps,
basic version

Corrosion-resistant:
seawater-resistant
aluminum profile

Variable widths:
easy adaptation of the
width to a profile rail

The flexible construction kit to support the lower run - aluminum support tray

The design of this aluminum support tray emulates the igus® aluminum SuperTrough. This modular construction kit covers the standard sizes of our e-chains®. Because of its flexible width adjustment using installation sets with profile rails, the aluminum support tray is used with various e-chains® series and widths. A support trough consists of 2 trough side pieces with 2m length. Standard installation sets can be used, just as for the aluminum SuperTrough.

- Corrosion-resistant, seawater-resistant aluminum profile
- Wear-reducing glide strips integrated as standard
- Quiet movement of the e-chain® with optional silencer profile
- Simple assembly on flexible width profile rails with basic clamps
- e-chain® easily connects to aluminum support tray using plastic fixed end modules
- Open guide trough design, debris can fall through
- Conductivity according to DIN EN 61537 - as standard

Aluminum Support Tray Selection Table



Part No. without silencer profile	Part No. with silencer profile	Outer height H_{Ra} in. (mm)	Part No. installation set	Side part material
9AT-35-SL	9AT-35-SLA	1.38 (35)	960AT-30-XXX*	aluminum

*XXX = profile rail length



Aluminum support tray
available with and without silencer profile

For the following systems:

- E2/000 ● R2-1
- E4-1L ● E4-1
- E6-1 ● E6



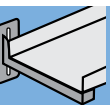
Available from stock. Ready to ship in 24 - 48hrs.*

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



An aluminum support tray consists of two 2 trough side pieces each with 6.56 ft. (2m) long

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



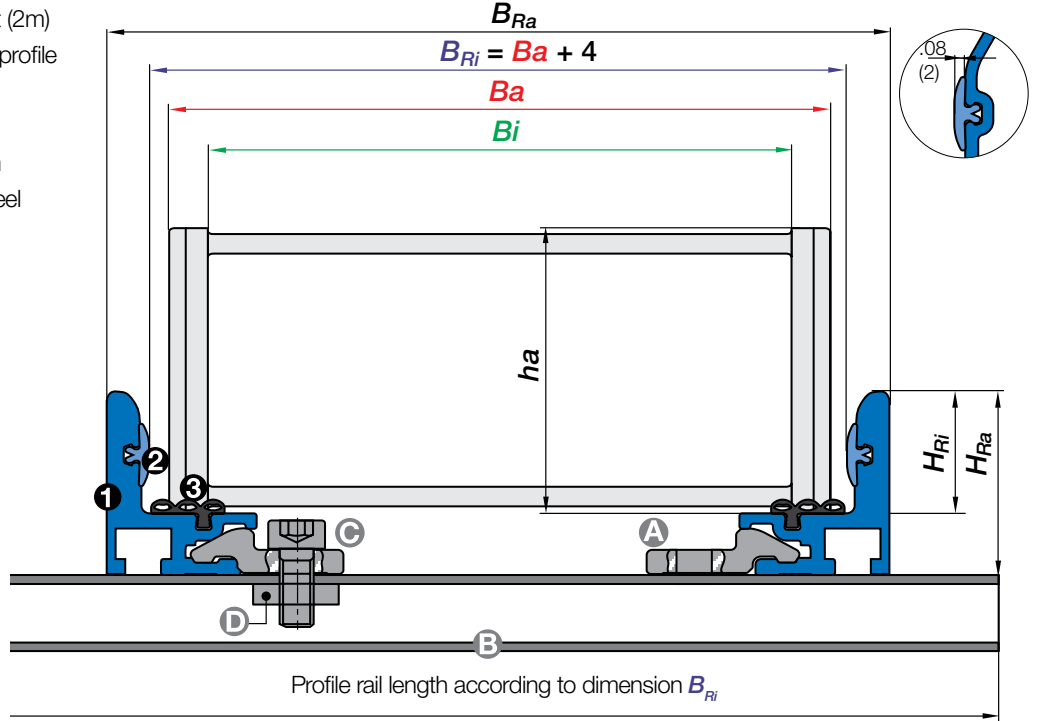
Components, guide troughs and components, mounting kits

Components

- ❶ Trough side parts, aluminum, 6.56 ft. (2m)
- ❷ Glide strip, plastic, 6.56 ft (2m)
- ❸ Optional: rubber silencer profile

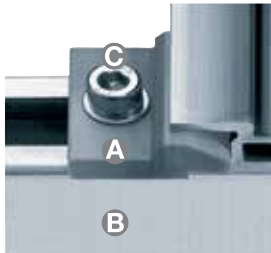
- A Bottom clamp, aluminum
- B Profile rail¹⁾, galvanized steel
- C Allen wrench
- D Sliding nut

- Ba = e-chain® outer width
- Bi = e-chain® inner width
- ha = e-chain® outer height
- H_{Ri} = Trough inner height
- H_{Ra} = Trough outer height
- B_{Ri} = Trough inner width
- B_{Ra} = Trough outer width

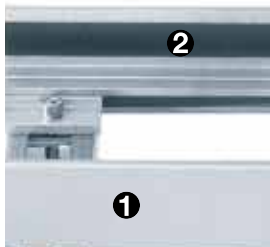


1) Profile rail also available in 304 stainless steel. Material 1.4301 (AISI 304)

Aluminum support tray | Features



Simple fastening with basic bottom clamp and profile rail



Wear-reducing glide strips



Noise-reducing with silencer profile option



Simple connection to the e-chain® with the fixed end module

Order example | Based on Part No. 9AT-35-SLA



Order key
guide trough

9AT-35-SLA

- Trough system
- Aluminum support tray
- Outer height
- With glide strip
- With silencer profile



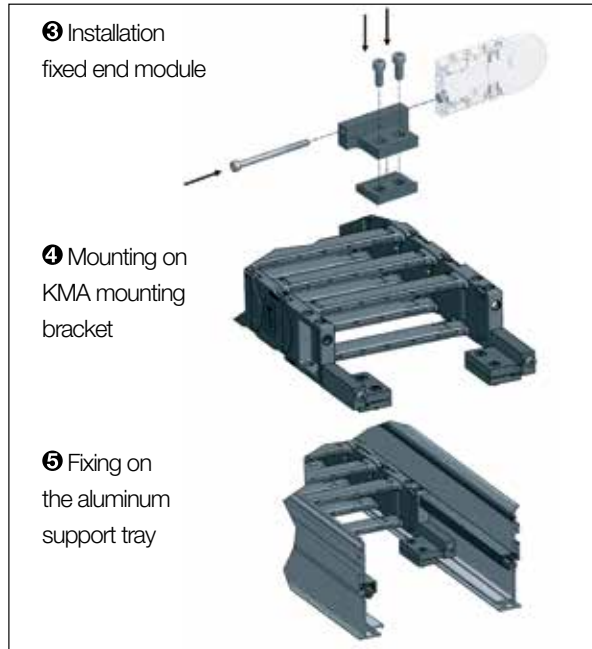
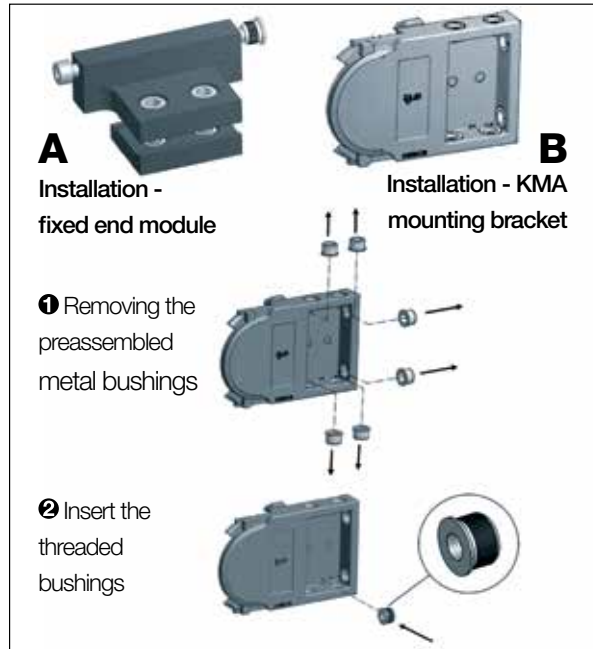
Order key
installation set 960AT-30-125

- Installation set
- Size of bottom clamp
- Length of Profile rail

Quick and simple fixing onto the support tray

Fixed end module - to attach the e-chain® into the aluminum support tray

- Mounting bracket attachment on the aluminum support tray without drilling
- Fixed end module is clamped to the trough
- Save installation time
- Minimize errors from drilling holes
- Stainless and cost-effective



Fixed end module | Fixed end clamp | Product range

Series	For aluminum support tray	For e-chain® series	From inner width <i>Bi</i> in. (mm)	Mounting bracket
971-80-4 ¹⁾	9AT-35-SL 9AT-35-SLA	2400/2500/2450/2480, E6-29, EF61-29/E61-29	.003 (.07)	KMA
972-80-4 ¹⁾	9AT-35-SL 9AT-35-SLA	E4-28/R4-28, E4-31L/R4-31L, E6-35, E61-35	.002 (.06)	KMA
972-80-4 ¹⁾	9AT-35-SL 9AT-35-SLA	E4-32/H4-32/R4-32, E4-38L/R4-38L, E6-40/R6-40, E61-40	.002 (.06)	KMA
972-80-4 ¹⁾	9AT-35-SL 9AT-35-SLA	2600/2700/2650/2680	.002 (.06)	KMA

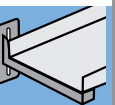
More series available upon request

1) Material: plastic. Material screw kits: standard steel, galvanized. Option: 316 stainless steel, material 1.4571 (AISI 316Ti), standard steel, galvanized.

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

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

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





For the following
igus® series

E2/000

● 2400/2500/2450/2480

● 2600/2700/2650/2680

E4-1L

● E4-31L/R4-31L

● E4-38L/R4-38L

E4-1

● E4-28/R4-28

● E4-32/H4-32/R4-32

E6-1

● EF61-29/E61-29

● E61-35

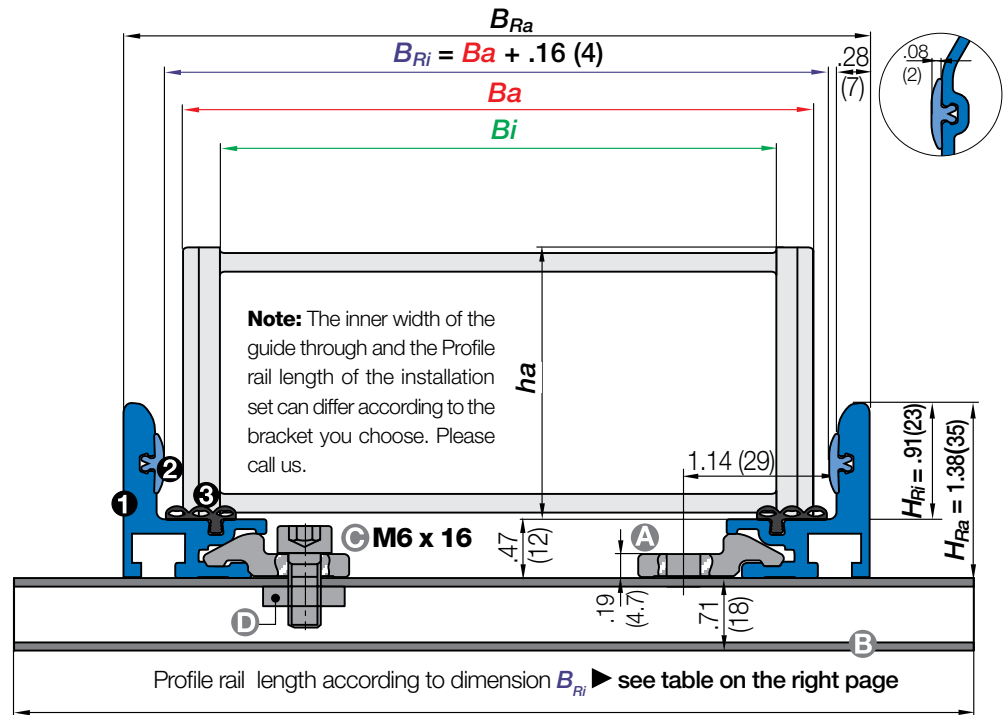
● E61-40

E6

● E6-29

● E6-35

● E6-40/R6-40



Aluminum support tray | Full set

Trough side parts sets - consisting of part ① | ② | ③

	Part No.	Weight
1 set of 2 trough side parts, incl. glide strips, without silencer profile, 6.56 ft. (2m) section	9AT-35-SL	≈ 3.470kg
1 set of 2 trough side parts, incl. glide strips, with silencer profile, 6.56 ft. (2m) section	9AT-35-SLA	≈ 3.714kg

Installation sets A | B | C | D

	Part No.	Weight
1 installation set without Profile rail	960-30	upon request
1 installation set with Profile rail (Profile rail length according to dimension B_{Ri})	960AT-30-XXX*	upon request

*Please add the Profile rail length **XXX** as shown on the tables on the right page. Example: 960AT-30-150

Aluminum support tray | Components as individual parts

Individual parts, trough	Part No.	Weight
① 1 trough side part, individual, 6.56 ft. (2m) section	9AT-35-11	≈ 1.673kg
② 1 glide strip, plastic, individual, 6.56 ft. (2m) section	75-01	≈ 0.062kg
③ 1 silencer profile, rubber, individual, 6.56 ft. (2m) section (optional for an additional noise dampening)	75-67-H-2000	≈ 0.122kg
Individual parts, installation set	Part No.	Weight
A 1 bottom clamp, individual	75-40	≈ 0.03kg
B 1 Profile rail, individual (Profile rail length according to dimension B_{Ri})	92-52-XXX-E*	≈ 0.90kg/m
C 1 screw M6 x 16, individual	MAT 0040209 / M6 x16	
D 1 glide nut, individual	MAT 0040057 / M6	
Additional option for simple fastening of the e-chain® without drilling	Part No.	
	971-80-4 / 972-80-4	

Aluminum Support Tray

Profile Rail Lengths

For aluminum support tray with fixed end module



Support
Tray

2400 / 2500 / 2450 / 2480

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-07	3.82 (97)	960AT-30-150
-09	4.29 (109)	960AT-30-175
-10	4.84 (123)	960AT-30-175
-12	5.71 (145)	960AT-30-200

2600 / 2700 / 2650 / 2680

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-06	3.35 (85)	960AT-30-150
-07	3.74 (95)	960AT-30-150
-09	4.33 (110)	960AT-30-175
-10	4.72 (120)	960AT-30-175
-12	5.71 (145)	960AT-30-200
-15	6.69 (170)	960AT-30-225
-17	7.79 (198)	960AT-30-250

E4-38L / R4-38L

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-062	3.23 (82)	960AT-30-150
-075	3.74 (95)	960AT-30-150
-087	4.21 (107)	960AT-30-175
-100	4.72 (120)	960AT-30-175
-105	4.92 (125)	960AT-30-175
-112	5.20 (132)	960AT-30-200
-125	5.71 (145)	960AT-30-200
-137	6.18 (157)	960AT-30-225
-150	6.69 (170)	960AT-30-225
-162	7.17 (182)	960AT-30-250
-175	7.68 (195)	960AT-30-250
-187	8.15 (207)	960AT-30-275
-200	8.66 (220)	960AT-30-275
-212	9.13 (232)	960AT-30-300
-225	9.65 (245)	960AT-30-300
-237	10.12 (257)	960AT-30-325
-250	10.63 (270)	960AT-30-325
-262	11.10 (282)	960AT-30-325
-275	11.61 (295)	960AT-30-350
-287	12.09 (307)	960AT-30-350
-300	12.60 (320)	960AT-30-375
-312	13.07 (332)	960AT-30-375
-325	13.58 (345)	960AT-30-400
-337	14.06 (357)	960AT-30-400
-350	14.57 (370)	960AT-30-425
-362	15.04 (382)	960AT-30-450
-375	15.55 (395)	960AT-30-450
-387	16.02 (407)	960AT-30-450
-400	16.54 (420)	960AT-30-475

E4-28/R4-28

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-062	3.39 (86)	960AT-30-150
-070	3.31 (94)	960AT-30-150
-075	3.90 (99)	960AT-30-175
-087	4.37 (111)	960AT-30-175
-100	4.88 (124)	960AT-30-200
-125	5.87 (149)	960AT-30-200
-150	6.85 (174)	960AT-30-200
-175	7.83 (199)	960AT-30-225
-200	8.82 (224)	960AT-30-225
-225	9.80 (249)	960AT-30-250
-250	10.78 (274)	960AT-30-250
-275	11.77 (299)	960AT-30-250
-300	12.76 (324)	960AT-30-275

E4-32 / H4-32 / R4-32

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-06	3.74 (95)	960AT-30-150
-07	4.02 (102)	960AT-30-150
-087	4.49 (114)	960AT-30-175
-10	5.00 (127)	960AT-30-175
-11	5.31 (135)	960AT-30-200
-112	5.51 (140)	960AT-30-200
-12	5.98 (152)	960AT-30-200
-137	6.50 (165)	960AT-30-225
-15	6.97 (177)	960AT-30-225
-162	7.48 (190)	960AT-30-250
-17	7.68 (195)	960AT-30-250
-18	7.95 (202)	960AT-30-250
-187	8.46 (215)	960AT-30-275
-20	8.94 (227)	960AT-30-275
-212	9.45 (240)	960AT-30-300
-23	9.92 (252)	960AT-30-300
-237	10.43 (265)	960AT-30-325
-25	10.91 (277)	960AT-30-325
-262	11.42 (290)	960AT-30-350
-28	11.89 (302)	960AT-30-350
-29	12.40 (315)	960AT-30-375
-30	12.87 (327)	960AT-30-375
-312	13.39 (340)	960AT-30-400
-325	13.86 (352)	960AT-30-400
-337	14.37 (365)	960AT-30-425
-350	14.84 (377)	960AT-30-425
-362	15.35 (390)	960AT-30-450
-375	15.83 (402)	960AT-30-450
-387	16.34 (415)	960AT-30-475
-400	16.81 (427)	960AT-30-475

E4-31L / R4-31L

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-062	3.15 (80)	960AT-30-150
-075	3.66 (93)	960AT-30-150
-087	4.13 (105)	960AT-30-175
-100	4.65 (118)	960AT-30-175
-112	5.12 (130)	960AT-30-200
-125	5.63 (143)	960AT-30-200
-137	6.10 (155)	960AT-30-225
-150	6.61 (168)	960AT-30-225
-162	7.09 (180)	960AT-30-250
-175	7.60 (193)	960AT-30-250
-187	8.07 (205)	960AT-30-275
-200	8.58 (218)	960AT-30-275

E6-40 / R6-40/ E61-40

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-062	3.39 (86)	960AT-30-150
-070	3.70 (94)	960AT-30-150
-075	3.90 (99)	960AT-30-150
-087	4.37 (111)	960AT-30-175
-100	4.88 (124)	960AT-30-175
-125	5.87 (149)	960AT-30-200
-150	6.85 (174)	960AT-30-225
-175	7.83 (199)	960AT-30-250
-200	8.82 (224)	960AT-30-275
-225	9.80 (249)	960AT-30-300
-250	10.78 (274)	960AT-30-325
-275	11.77 (299)	960AT-30-350
-300	12.76 (324)	960AT-30-375

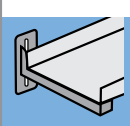
E6-29 /R6-29 / EF61-29 / E61-29

Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-070	3.54 (90)	960AT-30-150
-080	3.94 (100)	960AT-30-150
-090	4.33 (110)	960AT-30-175
-100	4.72 (120)	960AT-30-175
-110	5.12 (130)	960AT-30-200
-120	5.51 (140)	960AT-30-200

E6-35/ E61-35

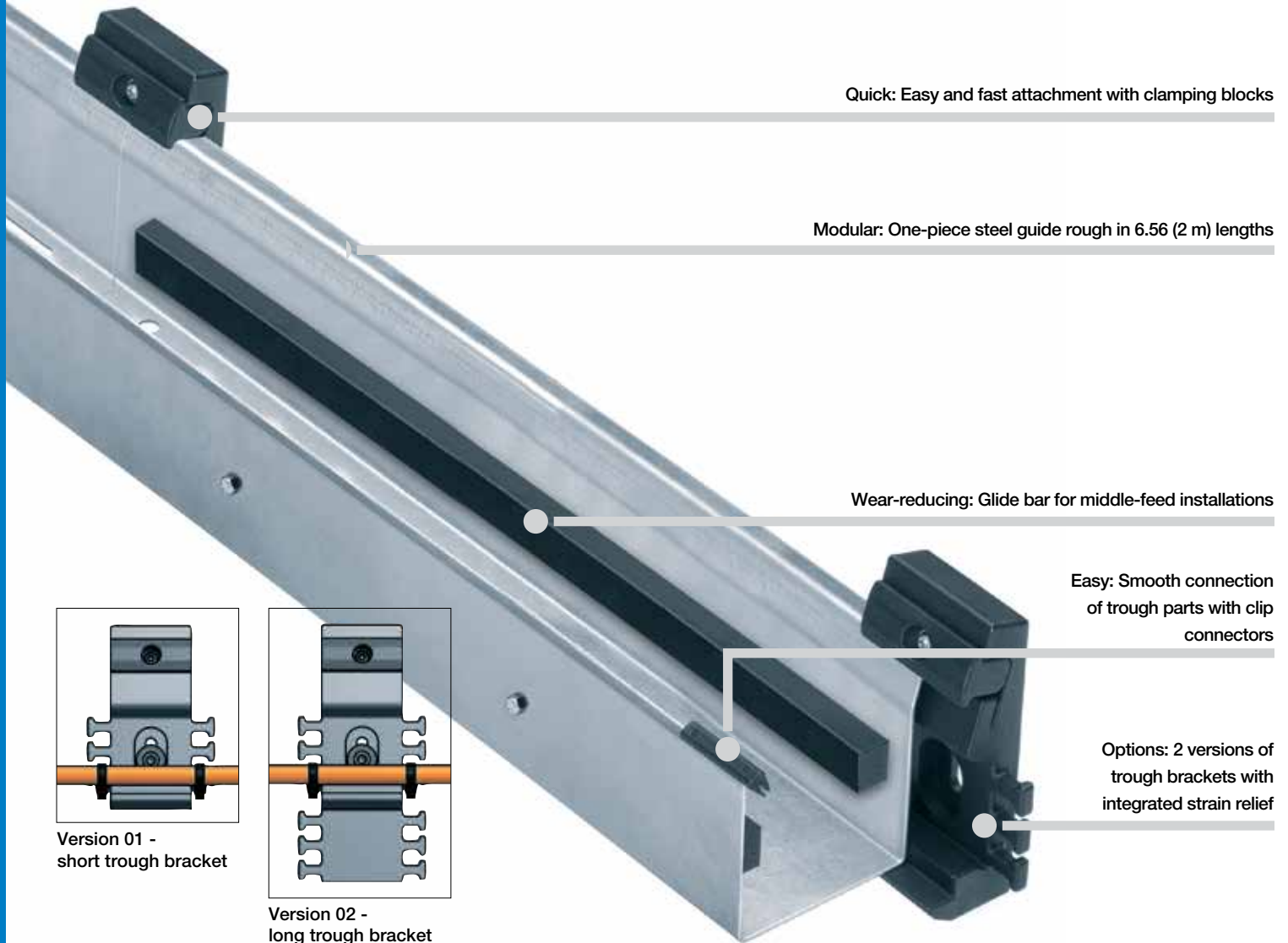
Width Index	B_{Ri} in. (mm)	Part No. attached inwards
-060	3.31 (84)	960AT-30-150
-070	3.70 (94)	960AT-30-150
-080	4.09 (104)	960AT-30-150
-090	4.49 (114)	960AT-30-175
-100	4.88 (124)	960AT-30-175
-110	5.28 (134)	960AT-30-200
-120	5.67 (144)	960AT-30-200

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Guidefast Guide Trough

Introduction - Advantages



Quickly installed as a modular kit solution for crane girders and indoor cranes

The guidefast guide trough is mounted on the side of the crane girder, in case of installation on crane girders, the welding of brackets onto the girder can be omitted. Installation time is kept very short, the guide trough is only attached to the previously installed brackets and then fixed with clamping blocks. The small amount of different components and trough design contribute to a simple installation.

- Save up to 80% installation time compared to standard trough systems
- Fits virtually any standard crane girder
- 2 versions of brackets with integrated strain relief for assembly of static cables on the crane girder - possible $\pm .20''$ (5 mm) vertical adjustment of brackets
- Standard trough length of 6.56 ft. (2.0 m) - with or without glide bar
- Suitable for any side-mounted application - not only on cranes
- Easy to install due to preassembled hole patterns of e-chain® brackets
- Standard material: galvanized steel, optional: stainless steel V2A, material 1.4301 (AISI 304) or black powder coating
- Long-term tested to withstand vibration and rough environment

Typical industries and applications

- Crane manufacturers (mainly indoor cranes)
- Applications where the lateral installation of the guide trough is beneficial

Guidefast Guide Trough Selection Table



Guidefast - without glide bar for E2/000 Series:

- 1500
- 2500
- 2700

Trough profile Part No.	For E2/000 e-chain®	Inner trough width B_{Rl} in. (mm)	Complete width in. (mm)	Material
GF91-30-025-2000	1500-025-	1.67 (42.5)	3.19 (81)	Galvanized steel*
GF91-30-050-2000	1500-050-	2.66 (67.5)	4.17 (106)	Galvanized steel*
GF92-30-03-2000	2500-03-	2.28 (58)	3.80 (96.5)	Galvanized steel*
GF92-30-05-2000	2500-05-	3.03 (77)	4.55 (115.5)	Galvanized steel*
GF92-30-07-2000	2500-07-	3.82 (97)	5.33 (135.5)	Galvanized steel*
GF92-30-09-2000	2500-09-	4.29 (109)	5.73 (145.5)	Galvanized steel*
GF92-30-10-2000	2500-10-	4.84 (123)	6.36 (161.5)	Galvanized steel*
GF95-30-05-2000	2700-05-	2.76 (70)	4.27 (108.5)	Galvanized steel*
GF95-30-07-2000	2700-07-	3.89 (96)	5.26 (133.5)	Galvanized steel*
GF95-30-10-2000	2700-10-	4.72 (120)	6.24 (158.5)	Galvanized steel*

*Standard material: Galvanized steel. Also available as stainless steel version V2A, material 1.4301 (AISI 304) or black powder coating



Guidefast - with glide bar for E2/000 Series:

- 1500
- 2500
- 2700

Support tray Part No.	For E2/000 e-chain®	Inner trough width B_{Rl} in. (mm)	Complete width in. (mm)	Material
GF91-31-025-2000	1500-025-	1.67 (42.5)	3.19 (81)	Galvanized steel*
GF91-31-050-2000	1500-050-	2.66 (67.5)	4.17 (106)	Galvanized steel*
GF92-31-03-2000	2500-03-	2.28 (58)	3.80 (96.5)	Galvanized steel*
GF92-31-05-2000	2500-05-	3.03 (77)	4.55 (115.5)	Galvanized steel*
GF92-31-07-2000	2500-07-	3.82 (97)	5.33 (135.5)	Galvanized steel*
GF92-31-09-2000	2500-09-	4.29 (109)	5.73 (145.5)	Galvanized steel*
GF92-31-10-2000	2500-10-	4.84 (123)	6.36 (161.5)	Galvanized steel*
GF95-31-05-2000	2700-05-	2.76 (70)	4.27 (108.5)	Galvanized steel*
GF95-31-07-2000	2700-07-	3.89 (96)	5.26 (133.5)	Galvanized steel*
GF95-31-10-2000	2700-10-	4.72 (120)	6.24 (158.5)	Galvanized steel*



Support tray with bracket for easy mounting on your application

For the following Series

System E2/000 Series:

- 1500
- 2500
- 2700

Components - Set guidefast guide trough

- ❶ Trough profile, 6.56 ft. (2 m) section
- ❷ Glide bar, 6.56 ft. (2 m) section, optional
- ❸ Clip connector, Part No. 908-467

Components - Set trough bracket

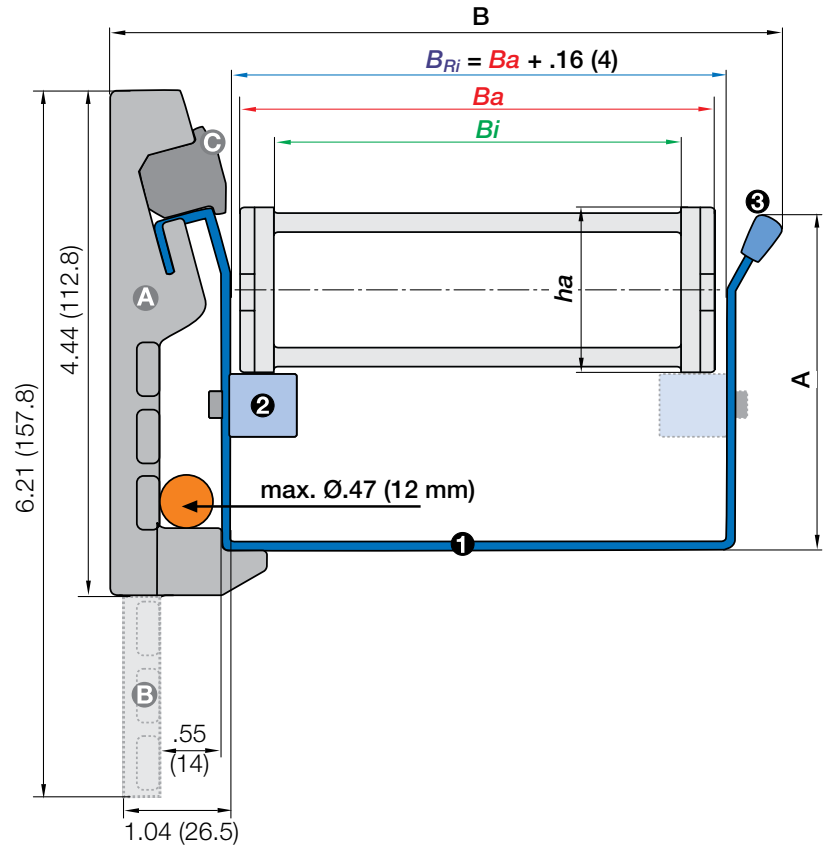
- ❶ Version 01 - short trough bracket
- ❷ Version 02 - long trough bracket
- ❸ Clamping blocks, Part No. G9-2-10

Ba = Outer e-chain® width

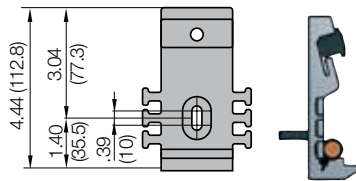
Bi = Inner e-chain® width

ha = e-chain® outer height

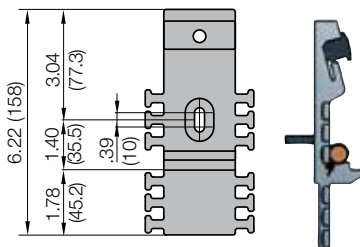
B_{ri} = Inner trough width = $B_{ri} = Ba + 4$



2 Versions of trough brackets with integrated strain relief



Version 01 - short trough bracket Part No. GF9.2.12 with integrated strain relief, possible $\pm .20^\circ$ (5 mm) vertical adjustment



Version 02 - long trough bracket Part No. GF9-2-11 with integrated strain relief, possible $\pm .20^\circ$ (5 mm) vertical adjustment

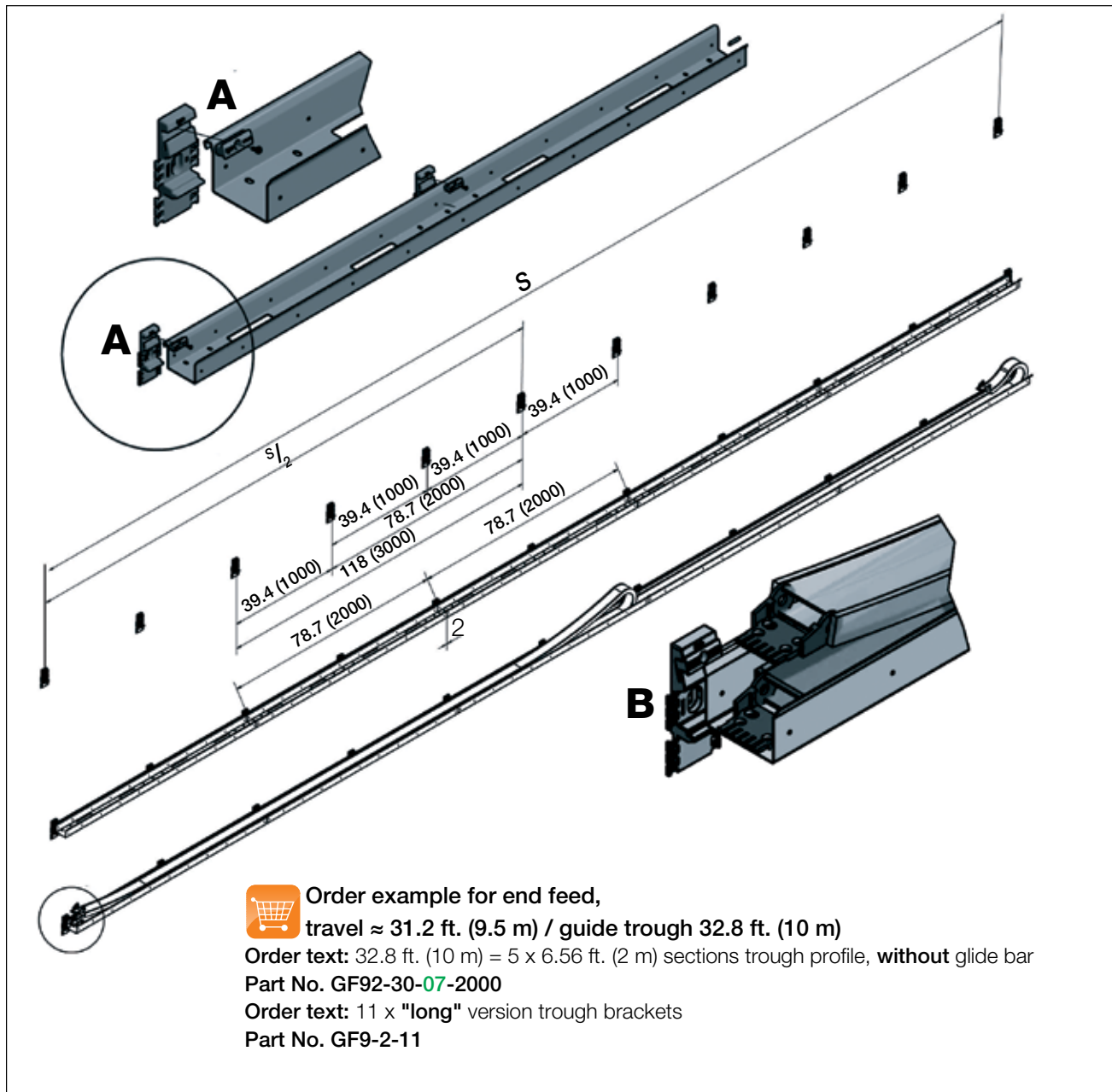
Guidefast Guide Trough Product Range



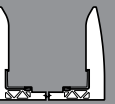
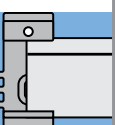
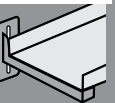
Guide-
fast

For E2/000 e-chain®	Trough Profile* without glide bar <small>includes clip connectors</small>	Trough profile* with glide bar	Short Bracket Version 01 <small>includes clamping blocks</small>	Long Bracket Version 02	Inner trough width B_{Ri}	Dim. A in. (mm)	Dim. B in. (mm)
1500-025- ▶	GF91-30-025-2000	GF91-31-025-2000	GF9-2-12	GF9-2-11	1.67 (42.5)	2.40 (61)	3.19 (81)
1500-050- ▶	GF91-30-050-2000	GF91-31-050-2000	GF9-2-12	GF9-2-11	2.66 (67.5)	2.40 (61)	4.17 (106)
2500-03- ▶	GF92-30-03-2000	GF92-31-03-2000	GF9-2-12	GF9-2-11	2.28 (58)	2.95 (75)	3.82 (97)
2500-05- ▶	GF92-30-05-2000	GF92-31-05-2000	GF9-2-12	GF9-2-11	3.03 (77)	2.95 (75)	4.55 (115.5)
2500-07- ▶	GF92-30-07-2000	GF92-31-07-2000	GF9-2-12	GF9-2-11	3.82 (97)	2.95 (75)	5.33 (135.5)
2500-09- ▶	GF92-30-09-2000	GF92-31-09-2000	GF9-2-12	GF9-2-11	4.29 (109)	2.95 (75)	5.83 (148)
2500-10- ▶	GF92-30-10-2000	GF92-31-10-2000	GF9-2-12	GF9-2-11	4.84 (123)	2.95 (75)	6.36 (161.5)
2700-05- ▶	GF95-30-05-2000	GF95-31-05-2000	GF9-2-12	GF9-2-11	2.76 (70)	4.13 (105)	4.27 (108.5)
2700-07- ▶	GF95-30-07-2000	GF95-31-07-2000	GF9-2-12	GF9-2-11	3.89 (96)	4.13 (105)	5.26 (133.5)
2700-10- ▶	GF95-30-10-2000	GF95-31-10-2000	GF9-2-12	GF9-2-11	4.72 (120)	4.13 (105)	6.24 (158.5)

*Standard material: Galvanized steel. Also available as stainless steel version V2A, material 1.4301 (AISI 304) or black powder coating



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Guidelite Guide Trough

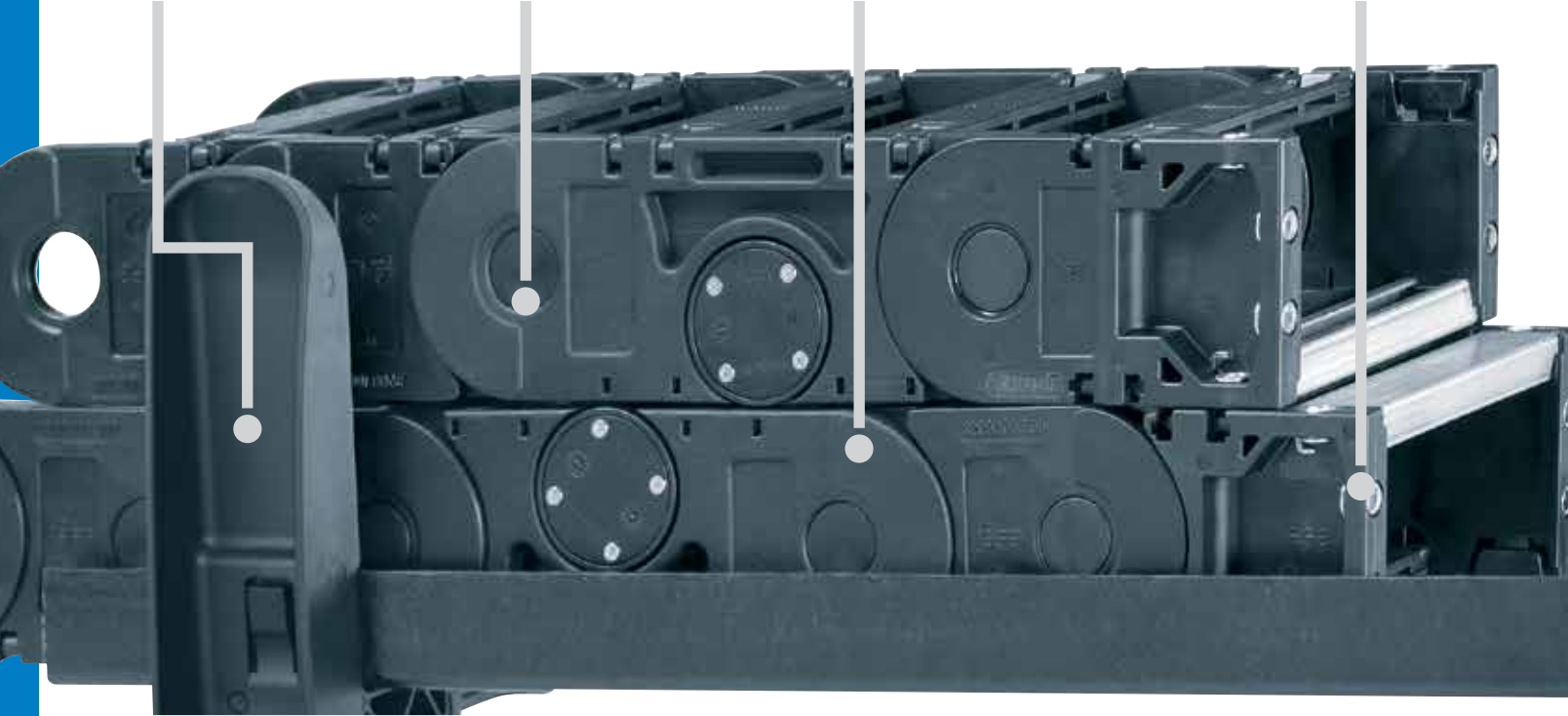
Introduction - Advantages

Corrosion-resistant:
Made completely from plastic components

Cost-effective:
Construction kit solution with e-chain®

Save time:
Easy and fast assembly

2 Versions installation sets:
01) with crossbar for a fixed width or
02) profile rail for a larger range of widths



Realize long travels up to 492 ft. (150 m), quick and cost-effective - Guidelite

As construction kit system primarily for slow applications with low cycle counts. The lower run of the e-chain® is guided in two L-shaped guide rails made from fiberglass reinforced plastics. The upper run of the e-chain® is partially guided by guide angle brackets that are installed at distances of 3.28 ft. (1m). One option to obtain the correct width is to install clip-on crossbars (Version 01) between the retainers. This greatly simplifies the installation since no retroactive adjustments are needed. Another option, which facilitates a greater range of widths, is to mount the guide angle brackets on a profile rail (Version 02).

- Save up to 80% installation time compared to standard trough systems
- Saving time through fast assembly
- Very lightweight polymer components - more quieter than troughs made from steel
- Cost-effective
- Corrosion-resistant
- Gliding application: maximum speed 3.28 ft/s (1 m/s)
- Unsupported application (Guidelite as support tray): maximum speed 16.41 ft/s (5 m/s)
(Higher speeds can be attained. Please contact us for details)
- Construction kit solution

Typical industries and applications

- Watering cars (irrigation of potted plants)
- For applications with low number of cycles, low speed and additional load
- As cost-effective support tray for unsupported applications

Guidelite Guide Trough Selection Table



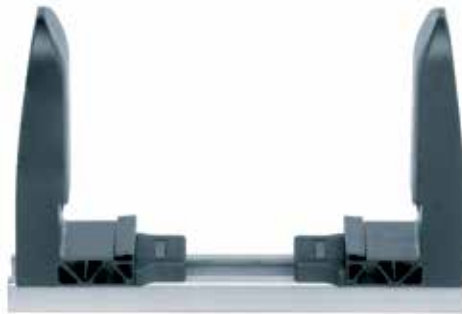
Guidelite - Version 01

Installation set with crossbar, standard

Fixed width due to clip-on crossbars, no retroactive adjustments needed

Part No.
Assembly set - Guide Angles
9GL-64-50-450-XX

For e-chain®
Series
• 2500 • 2700 • 3500 • E4-21 • E4-28 • E4-32



Guidelite - Version 02

Installation set with profile rail

Guide angle brackets are assembled on a profile rail for a larger range of widths

Part No.
Assembly set - Guide Angles
9GL-64-50-450-XX

For e-chain®
Series
• 1500 • 2500 • 2700 • 3500 • E4-21 • E4-28 • E4-32



E2/000 Rol e-chain® in a Guidelite guide trough of an irrigation plant

For the following Series

System E2/000 Series:

- 2500
- 2700
- 3500

System E4-1 Series:

- E4-21
- E4-28
- E4-32

Components - Version 01

- ❶ Guide angles
- ❷ Plastic guide rail
- ❸ Crossbar, clip-on

Ba = Outer e-chain® width

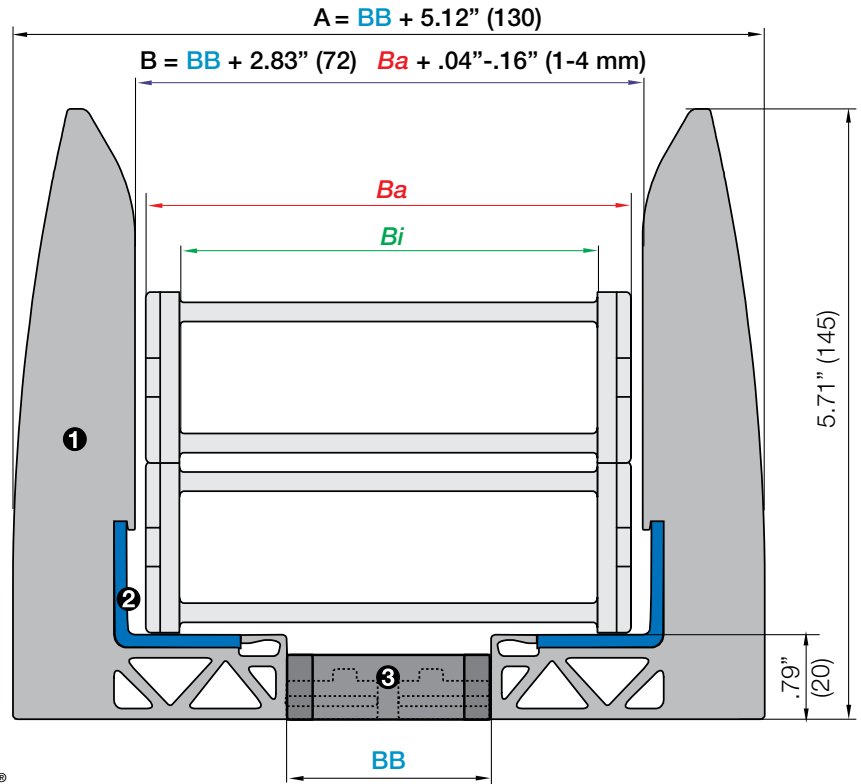
Bi = Inner e-chain® width

BB = Length of crossbar

A = Outer guide angle distance

B = Inner guide angle distance

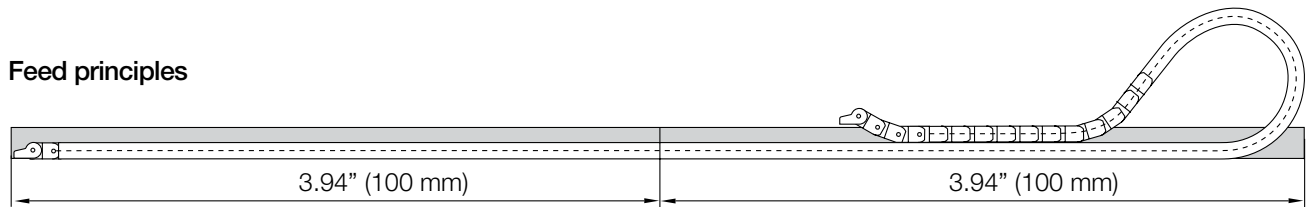
Dimension *B* must always be .04" to .16" (1 to 4 mm) larger than the *Ba* of the e-chain®



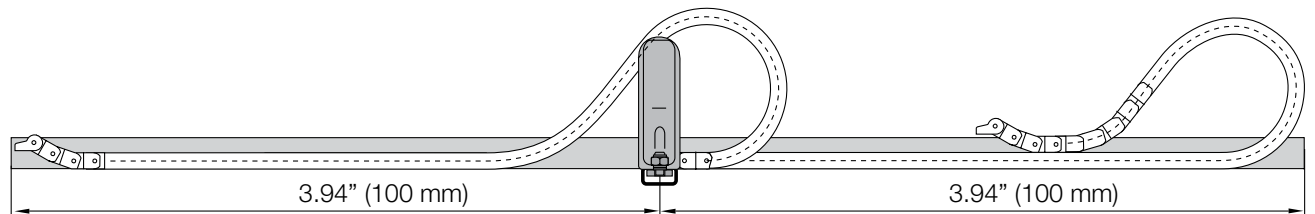
guidelite | Version 01

Description	Part No.
Installation set with crossbar for a fixed width, consisting of 2 x plastic guide rails + 1 x crossbar	9GL-64-50-450-XX (XX = crossbar width-index)
Set plastic guide rails (left and right) in specified lengths: standard 78.7" (2000 mm)	9GL-64-30-2000
Feed module that guides the upper run of the e-chain® down, 78.7" (2000 mm)	9GL-64-80-Series-450-XX (XX = crossbar width-index)
Only for Series 2700R and 3500R Rol e-chain® with center feed	
Please add the crossbar width-index XX as shown on the tables on the right page. Example: 9GL-64-50-450-05	

Feed principles



End feed is recommended for all e-chains® in combination with guidelite



Center feed is only used with Rol e-chains® of Series 2700R and Series 3500R.
Please use the feed module 9GL-64-80 of Series 450-XX, which guides the upper run of the e-chain® down.

More information and assembly instructions ► www.igus.com/guidelite

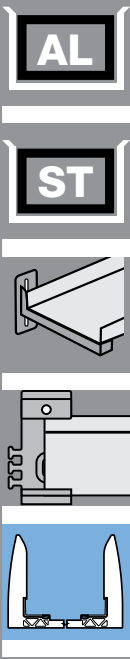
Part No. Installation Set	For e-chain® Series	For Rol e-chain® Series	Length of Crossbar BB		Outer guide angle Distance A		Inner guide angle Distance B	
			in.	(mm)	in.	(mm)	in.	(mm)
9GL-64-50-450-05	2500-10-R-0	-	1.97	(50)	7.09	(180)	4.80	(122)
9GL-64-50-450-12	2700-17-R-0	2700R-17-R-0	4.92	(125)	10.04	(255)	7.76	(197)
9GL-64-50-450-05	3500-100-R-0	3500R-100-R-0	1.97	(50)	7.09	(180)	4.80	(122)
9GL-64-50-450-06	3500-115-R-0	3500R-115-R-0	2.56	(65)	7.68	(195)	5.39	(137)
9GL-64-50-450-07	3500-125-R-0	3500R-125-R-0	2.95	(75)	8.07	(205)	5.79	(147)
9GL-64-50-450-10	3500-150-R-0	3500R-150-R-0	3.94	(100)	9.06	(230)	6.77	(172)
9GL-64-50-450-12	3500-175-R-0	3500R-175-R-0	4.92	(125)	10.04	(255)	7.76	(197)
9GL-64-50-450-15	3500-200-R-0	3500R-200-R-0	5.91	(150)	11.02	(280)	8.74	(222)
9GL-64-50-450-17	3500-225-R-0	3500R-225-R-0	6.89	(175)	12.01	(305)	9.72	(247)
9GL-64-50-450-20	3500-250-R-0	3500R-250-R-0	7.87	(200)	12.99	(330)	10.71	(272)
9GL-64-50-450-06	E4-21-120-R-0	-	2.56	(65)	7.68	(195)	5.39	(137)
9GL-64-50-450-05	E4-28-100-R-0	-	1.97	(50)	7.09	(180)	4.80	(122)
9GL-64-50-450-07	E4-28-125-R-0	-	2.95	(75)	8.07	(205)	5.79	(147)
9GL-64-50-450-05	E4-32-097-R-0	-	1.97	(50)	7.09	(180)	4.80	(122)
9GL-64-50-450-06	E4-32-112-R-0	-	2.56	(65)	7.68	(195)	5.39	(137)

Dimension B must always be .04" to .16" (1 to 4 mm) larger than the **Ba** of the e-chain®



Ideal for outdoor applications - UV resistant, corrosion-free, allows dirt to pass through

PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



For the following Series

System E2/000 Series:

- 1500
- 2500
- 2700
- 3500

System E4-1 Series:

- E4-21
- E4-28
- E4-32

Components - Version 02

- 1 Guide angles
- 2 Plastic guide rail
- 4 Screwset M8
- 5 C-profile

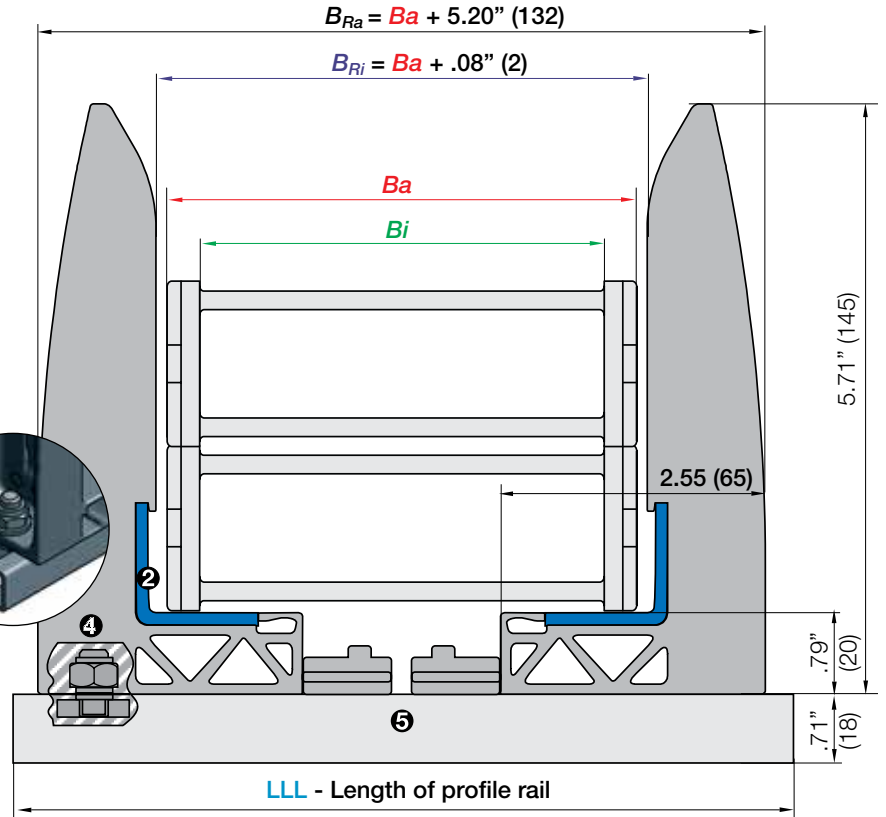
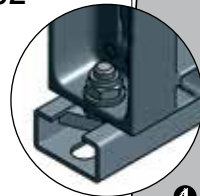
B_{RA} = Outer e-chain® width

B_i = Inner e-chain® width

B_{RA} = Outer guide angle distance

B_{Ri} = Inner guide angle distance

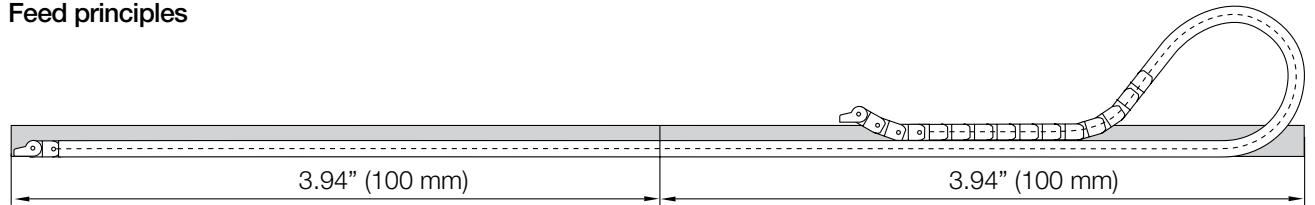
B_{Ri} = B_a + 2



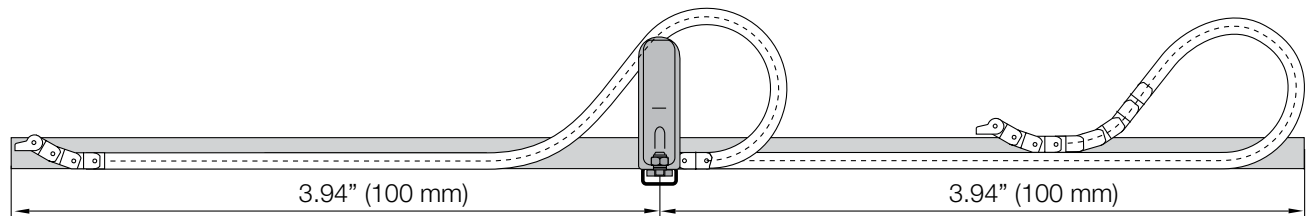
guidelite | Version 02

Description	Part No.
Installation set with profile rail consisting of	9GL-64-50-LLL
2 x plastic guide rails + 1 x profile rail + Screwsets M8	(LLL = Length of profile rail)
Set plastic guide rails (left and right)	9GL-64-30-2000
in specified lengths: standard 78.7" (2000 mm)	
Feed module that guides the upper run of the e-chain® down, 78.7" (2000 mm)	9GL-64-80-Series-LLL
Only for Series 2700R and 3500R Rol e-chain® with center feed	(LLL = Length of profile rail)
Please add the profile rail length LLL as shown on the tables on the right page. Example: 9GL-64-50-175	

Feed principles



End feed is recommended for all e-chains® in combination with guidelite



Center feed is only used with Rol e-chains® of Series 2700R and Series 3500R.

Please use the feed module 9GL-64-80 of Series 450-XX, which guides the upper run of the e-chain® down.

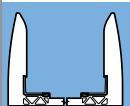
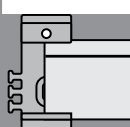
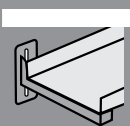
More information and assembly instructions ► www.igus.com/guidelite

Part No-Installation Set	For e-chain® Series	For Rol e-chain® Series
1500		
9GL-64-50-150	1500-068-R-0	-
9GL-64-50-175	1500-080-R-0	-
9GL-64-50-175	1500-100-R-0	-
9GL-64-50-200	1500-125-R-0	-
2500		
9GL-64-50-150	2500-05-R-0	-
9GL-64-50-175	2500-07-R-0	-
9GL-64-50-175	2500-09-R-0	-
9GL-64-50-200	2500-10-R-0	-
9GL-64-50-225	2500-12-R-0	-
2700		
9GL-64-50-150	2700-06-R-0	2700R-06-R-0
9GL-64-50-175	2700-07-R-0	2700R-07-R-0
9GL-64-50-175	2700-09-R-0	2700R-09-R-0
9GL-64-50-200	2700-10-R-0	2700R-10-R-0
9GL-64-50-225	2700-12-R-0	2700R-12-R-0
9GL-64-50-250	2700-15-R-0	2700R-15-R-0
9GL-64-50-275	2700-17-R-0	2700R-17-R-0
3500		
9GL-64-50-175	3500-075-R-0	3500R-075-R-0
9GL-64-50-200	3500-100-R-0	3500R-100-R-0
9GL-64-50-200	3500-115-R-0	3500R-115-R-0
9GL-64-50-225	3500-125-R-0	3500R-125-R-0
9GL-64-50-250	3500-150-R-0	3500R-150-R-0
9GL-64-50-275	3500-175-R-0	3500R-175-R-0
9GL-64-50-300	3500-200-R-0	3500R-200-R-0
9GL-64-50-325	3500-225-R-0	3500R-225-R-0
9GL-64-50-350	3500-250-R-0	3500R-250-R-0
E4-21		
9GL-64-50-150	E4-21-060-R-0	-
9GL-64-50-150	E4-21-070-R-0	-
9GL-64-50-175	E4-21-080-R-0	-
9GL-64-50-175	E4-21-090-R-0	-
9GL-64-50-175	E4-21-100-R-0	-
9GL-64-50-200	E4-21-110-R-0	-
9GL-64-50-200	E4-21-120-R-0	-

Part No-Installation Set	For e-chain® Series	For Rol e-chain® Series
E4-28		
9GL-64-50-150	E4-28-062-R-0	-
9GL-64-50-175	E4-28-070-R-0	-
9GL-64-50-175	E4-28-075-R-0	-
9GL-64-50-175	E4-28-087-R-0	-
9GL-64-50-200	E4-28-100-R-0	-
9GL-64-50-225	E4-28-125-R-0	-
9GL-64-50-250	E4-28-150-R-0	-
9GL-64-50-275	E4-28-175-R-0	-
9GL-64-50-300	E4-28-200-R-0	-
9GL-64-50-325	E4-28-225-R-0	-
9GL-64-50-350	E4-28-250-R-0	-
9GL-64-50-375	E4-28-275-R-0	-
9GL-64-50-400	E4-28-300-R-0	-
E4-32		
9GL-64-50-150	E4-32-05-R-0	-
9GL-64-50-175	E4-32-06-R-0	-
9GL-64-50-175	E4-32-07-R-0	-
9GL-64-50-175	E4-32-087-R-0	-
9GL-64-50-200	E4-32-09-R-0	-
9GL-64-50-200	E4-32-10-R-0	-
9GL-64-50-200	E4-32-11-R-0	-
9GL-64-50-200	E4-32-112-R-0	-
9GL-64-50-225	E4-32-12-R-0	-
9GL-64-50-225	E4-32-137-R-0	-
9GL-64-50-250	E4-32-15-R-0	-
9GL-64-50-275	E4-32-162-R-0	-
9GL-64-50-275	E4-32-17-R-0	-
9GL-64-50-275	E4-32-18-R-0	-
9GL-64-50-275	E4-32-187-R-0	-
9GL-64-50-300	E4-32-200-R-0	-
9GL-64-50-300	E4-32-212-R-0	-
9GL-64-50-325	E4-32-23-R-0	-
9GL-64-50-325	E4-32-237-R-0	-
9GL-64-50-350	E4-32-25-R-0	-
9GL-64-50-350	E4-32-262-R-0	-
9GL-64-50-375	E4-32-28-R-0	-
9GL-64-50-375	E4-32-29-R-0	-
9GL-64-50-400	E4-32-30-R-0	-

Please note: the smallest possible inner width of the guide trough is 2.83 (72 mm).

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



A close-up photograph of a grey plastic component, likely a part of a conveyor system. The component features a technical drawing of a roller assembly with two rollers and a central shaft. Below the drawing is an upward-pointing arrow and the brand name 'igus' in a stylized font. The component is mounted on a green surface, and a black shaft is visible in the background. The image is framed by a white border on the left and bottom, and an orange border on the right.

↑
igus



igus[®]
Chainfix
Strain relief systems

igus® Chainfix strain relief. Flexible and fast assembled.

Strain relief from igus® is specifically developed for use in e-chains® and dynamic applications. The combination of chainflex® cable materials and the plastic strain relief components of igus® Chainfix are designed to achieve long life of the cables and maximum holding power. For a wide variety of applications igus® Chainfix is the best solution in terms of costs and benefits. igus® Chainfix strain relief components are installed in applications around the world.



Available from stock. Orders ship as early as today.*

*On average 90% of orders ship the same day..



3D-CAD files, configurators, PDF ► www.igus.com/chainfix

Chainfix Strain Relief systems

Overview

Profile rail - standard and for heavy-duty applications



- Standard profile rail Part No. CF-92-42KMA (can be integrated into KMA)
- Profile rail Part No. CF-92-52G for increased holding force (mounting in front of e-chain®)

Steel and stainless steel clamps - for maximum holding force



- CFX* Single, double, triple clamps with standard base
- CFXL* Single, double, triple clamps with wide base for maximum holding force
- Clamp stacker and saddle elements
- chainfix multi-clamps*

chainfix tiwrap plates - universal, bolted or clip-on



- Option 1A: tiwrap plates as individual parts "Series 2000" + cable tiwraps
- Option 1B: tiwrap plates as individual parts "Series 3000" + cable tiwraps

chainfix tiwrap plates - optional variants



- Option 1: tiwrap plates with clip-on connection for profile rail
- Option 2: integrated strain relief for R series E2 e-tubes
- Option 3: tiwrap plates for fixed crossbars
- Option 4: tiwrap plates for openable crossbars

CFU honeycomb strain relief - assembled in seconds



- Simply insert cables and hoses into honeycomb and close - strain relief for different cables in one slot

Strain relief separators - with integrated teeth



- For easy strain relief with cable tiwraps

CFV - stepped strain relief for use outside of the e-chain® section



- Easy strain relief for cables, even in fully enclosed e-tubes (with strain relief teeth, stepped)

CFN - chainfix nuggets for Profile rail and top-hat (DIN) rail



- Option 1: simple and universal cable attachment for cable diameters of .79" (20 mm) and 1.18" (30 mm)
- Option 2: fastened by clipping onto standard top-hat (DIN) rail

CFB - strain relief connector system, modular and customizable



- CFB polymer strain relief connector system, for many cables in a very confined space

*Standard material: galvanised steel. Also available as stainless steel version (stainless steel material: 1.4301/AISI 304)

Chainfix Strain Relief Selection Guide

	CFX Clamp, standard	CFXL Clamp, for increased holding force	CFU Honeycomb strain relief	CFN Nugget	Strain relief separator	CFV Stepped strain relief	Strain relief can be clipped onto mounting brackets / KMA
E1							
E1-17-021-	-	-	-	-	-	-	-
E-Z chain®							
E03	-	-	-	-	-	-	-
E04	-	-	-	-	-	-	-
E045/Z045	-	-	-	-	-	-	-
E06/Z06	-	-	-	-	-	-	-
E065/Z065	-	-	-	-	-	-	-
E08/Z08	-	-	-	-	-	-	-
E14/Z14	-	-	-	-	-	-	-
E200/Z200	X ¹⁾	-	-	-	-	-	-
E16/Z16	-	-	-	-	-	-	-
E26/Z26	X ¹⁾	-	-	-	-	-	-
E300/Z300	X ¹⁾	-	-	-	-	-	-
zipper							
047	-	-	-	-	-	-	-
07/R07	-	-	-	-	-	-	-
09/R09	-	-	-	-	-	-	-
15/R15	-	-	-	-	-	-	-
17/R17	-	-	-	-	-	-	-
E2 micro							
03	-	-	-	-	-	-	-
04	-	-	-	-	-	-	-
045	-	-	-	-	-	-	-
B07	-	-	-	-	-	-	-
06	-	-	-	-	-	-	-
B09	-	-	-	-	-	-	-
08	-	-	-	-	-	-	-
E2 mini							
10	-	-	-	-	-	-	-
11-031	-	-	-	-	-	-	-
11-080	-	-	-	-	-	-	-
11-1/11-2	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-
B15/B15i	-	-	-	-	-	-	-
B17/B17i	-	-	-	-	-	-	-
F17	-	-	-	-	-	-	-
E2-1 micro							
E2-10	-	-	-	-	-	-	-
E2-15	-	-	-	-	-	-	-

Chainfix Strain Relief Selection Guide

e-chain® Series / System	CFX Clamp, standard	CFXL Clamp, for increased holding force	CFU Honeycomb strain relief	CFN Nugget	Strain relief separator	CFV Stepped strain relief	Strain relief can be clipped onto mounting brackets / KMA
E2/000							
1400/1500	X ¹⁾	X ¹⁾	–	–	21-1-Z	–	–
1450/1480	X ¹⁾	X ¹⁾	–	–	21-1-Z	–	–
2400/2500	X ¹⁾	X ¹⁾	–	–	2020-Z	–	–
2450/2480	X ¹⁾	X ¹⁾	–	–	2020-ZR	–	–
2600/2700	X	X ¹⁾	–	X	262-Z	CFV-42-C	–
2650/2680	X	X ¹⁾	–	X	–	CFV-42-C	–
3400/3500	X	X ¹⁾	CFU	X	301-Z	CFV-42-C	–
3450/3480	X	X ¹⁾	CFU	X	34501-Z	CFV-42-C	–
255	–	–	–	–	–	–	–
E2 R100							
R117/118	X ¹⁾	X ¹⁾	–	–	–	–	–
R157/158	X ¹⁾	X ¹⁾	–	–	1585-01-Z	–	–
R167/168	X ¹⁾	X ¹⁾	CFU	–	1685-01-Z	–	–
E2 R							
R48	X ¹⁾	X ¹⁾	–	–	481-ZR	–	–
R58	X ¹⁾	X ¹⁾	–	–	–	–	–
R68	X ¹⁾	X ¹⁾	CFU	–	–	–	–
R2-1							
R2-75	X ¹⁾	X ¹⁾	–	–	–	CFV-80-C	–
RX							
RX32	–	–	–	–	–	–	X
RX40	–	–	–	–	–	–	X
RX48	–	–	–	–	–	–	
RX56	–	–	–	–	–	–	
E4-1L							
E4-31L/R4-31L	X ¹⁾	X ¹⁾	–	–	31-Z	CFV-31-N15	–
E4-38L/R4-38L	X	X ¹⁾	–	X	–	CFV-42-C	–
E4-48L/R4-48L	X	X ¹⁾	CFU	X	–	CFV-42-C	–
E4-64L	X	X ¹⁾	–	X	–	CFV-42-C	–
E4-1							
E4-21	X ¹⁾	X ¹⁾	–	–	T2103-Z	–	–
E4-28/R4-28	X ¹⁾	X ¹⁾	–	–	28-Z / 28-ZT	–	–
E4-32/H4-32/R4-32	X	X ¹⁾	–	X	–	CFV-42-C	–
E4-42/H4-42/R4-42	X	X ¹⁾	CFU	X	–	CFV-42-C	–
E4-56/H4-56/R4-56	X	X ¹⁾	–	X	–	CFV-80-C	–
E4-80/H4-80/R4-80	X	X ¹⁾	–	X	–	CFV-80-C	–
E4-112	X ¹⁾	X ¹⁾	–	–	–	–	–
E4-162	X ¹⁾	X ¹⁾	–	–	–	–	–
800	X ¹⁾	X ¹⁾	–	–	–	–	–
840	X ¹⁾	–	–	–	–	–	–

Tiewrap plate Series 2000	Tiewrap plate Series 3000	Tiewrap plate with clip-on connection for profile rail	Tiewrap plate for fixed crossbars	Tiewrap plate for openable crossbars	Tiewrap plate for triflex® R and triflex® 2)	Tiewrap plate for E2 e-tubes	Tiewrap plate/teeth directly moulded on the mounting bracket	CFB Strain relief connector system
20XX-ZB	-	-	-	-	-	-	X	-
20XX-ZB	-	-	-	-	-	-	X	-
20XX-ZB	-	-	2050-Z	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	30XX-ZB	30XX-ZC	2050-Z	2050-Z	-	-	-	-
-	30XX-ZB	30XX-ZC	-	2050-Z ³⁾	-	-	-	-
-	30XX-ZB	30XX-ZC	30XX-Z	30XX-ZS	-	-	-	-
-	30XX-ZB	30XX-ZC	-	30XX-ZS ³⁾	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
-	-	-	-	-	-	5850-Z	-	-
-	-	-	-	-	-	30XX-Z	-	-
-	30XX-ZB	30XX-ZC	-	-	-	-	-	-
-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	2050-Z	-	-	-	-
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	30XX-ZB	-	-	45XX-ZS	-	-	-	X
-	30XX-ZB	-	-	-	-	-	-	X
-	30XX-ZB	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2) You'll find on the product page of each e-chain® series 3) Half e-tube only = recommended strain relief for selected e-chain®

Chainfix Strain Relief Selection Guide

e-chain® Series / System	CFX Clamp, standard	CFXL Clamp, for increased holding force	CFU Honeycomb strain relief	CFN Nugget	Strain relief separator	CFV Stepped strain relief	Strain relief can be clipped onto mounting brackets / KMA
E4/light							
14040/14140/18840	X	X ¹⁾	–	X	–	–	–
14240/14340	X	X ¹⁾	–	X	–	–	–
14550/14650/19050	X	X ¹⁾	–	X	–	–	–
15050/15150/19850	X	X ¹⁾	–	–	–	–	–
15250/15350	X	X ¹⁾	–	–	–	–	–
1640/R1608	X	X ¹⁾	–	–	–	–	–
T3							
T3-29	–	–	–	–	E6-29-02-Z	–	20XX-ZB
E3							
E3-10	–	–	–	–	–	–	E3-00-020
E3-15	–	–	–	–	–	–	E3-00-020
E3-22	–	–	–	–	–	–	E3-00-020
E6-1							
E61-29/EF61-29	X ¹⁾	X ¹⁾	–	–	E6-29-02-Z	–	–
E61-35	X ¹⁾	X ¹⁾	–	–	E6-35-02-Z	–	–
E61-40	X	X ¹⁾	–	X	E6-40-02-Z	–	–
E61-52	X	X ¹⁾	–	X	–	–	–
E6							
E6-29	X ¹⁾	X ¹⁾	–	–	E6-29-02-Z	–	–
R6-29	X ¹⁾	X ¹⁾	–	–	–	–	–
E6-35	X ¹⁾	X ¹⁾	–	–	E6-35-02-Z	–	–
E6-40	X	X ¹⁾	–	X	E6-40-02-Z	–	–
E6-52	X	X ¹⁾	–	X	–	–	–
R6-52	X	X ¹⁾	–	X	–	–	–
E6-62	X	X ¹⁾	–	X	–	–	–
E6-80L	X	X ¹⁾	–	X	–	–	–
triflex® R							
TRC	X ¹⁾	X ¹⁾	–	–	–	–	–
TRC	X ¹⁾	X ¹⁾	–	–	–	–	–
TRCF	X ¹⁾	X ¹⁾	–	–	–	–	–
TRL	X ¹⁾	X ¹⁾	–	–	–	–	–
TRLF	X ¹⁾	X ¹⁾	–	–	–	–	–
triflex®							
E-Z triflex®	X ¹⁾	–	–	–	–	–	–
triflex®	X ¹⁾	–	–	–	–	–	–

Tiewrap plate Series 2000	Tiewrap plate Series 3000	Tiewrap plate with clip-on connection for profile rail	Tiewrap plate for fixed crossbars	Tiewrap plate for openable crossbars	Tiewrap plate for triflex® R and triflex® 2)	Tiewrap plate for E2 e-tubes	Tiewrap plate/teeth directly moulded on the mounting bracket	CFB Strain relief connector system
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	-	-	45XX-ZS	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	X
20XX-ZB	-	-	-	-	-	-	-	X
-	30XX-ZB	30XX-ZC	-	2050-Z	-	-	-	X
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	-
20XX-ZB	-	-	-	-	-	-	-	X
20XX-ZB	-	-	-	-	-	-	-	X
-	30XX-ZB	30XX-ZC	-	2050-Z	-	-	-	X
-	30XX-ZB	30XX-ZC	-	-	-	-	-	X
-	30XX-ZB	30XX-ZC	-	3850-ZS	-	-	-	X
-	30XX-ZB	30XX-ZC	-	45XX-ZS	-	-	-	X
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	E33X-XX-2	-	-	
-	-	-	-	-	33X-XX	-	-	

2) You'll find on the product page of each e-chain® series 3) Half e-tube only = recommended strain relief for selected e-chain®

Chainfix Strain Relief - Overview

igus® chainfix strain relief system



CFX - clamps

Tiewrap plates - bolted, clip-on

CFU - lean honeycomb strain relief



Recommended standard for the following e-chains®:

E4, E6, for all KMA* with Profile rail

*Polymer metal mounting bracket

easy chain®, E2/000, E2 e-tubes, E4, E6

E2.48, 3400/3500, 3450/3480, R68, R167/168, R2.48, E4.48L/R4.48L, E4.42/H4.42/R4.42, E61.52, E6.52/R6.52



When to use this strain relief?

Standard for high accelerations, loads and demanding applications. For many cables, large cable diameters and stacked cables. For long travels, cranes, offshore, machine tools, high speeds and hydraulic cables.

Standard for many applications at medium and low accelerations. For unsupported, gliding, hanging and standing applications in general machinery and machine tools. For cables side by side. Also available as an individual part, for example in control cabinets etc.

Assembled in seconds - CFU honeycomb strain relief. Strain relief with honeycomb structure, openable from both sides. Simply insert cables and hoses into the honeycomb and close. Strain relief for different cables in one slot. Also suitable for gliding applications.



When not to use it:

No limitation

For large cable diameters

For high loads

Properties

Assembly time index

+

+

+++

Adjustable tensile strength

++

-

+

Price Index

●●●

●●●

●●●

Modularity

yes

yes

yes

Dynamics

high to very high

high

medium

Price index

●●● low

●●● medium

●●● high

+++ = best suitability

+ = good suitability

+ - = suitable

- = limited suitability

Chainfix Strain Relief - Overview



CFN nuggets

Strain relief separators

CFV - strain relief element

CFB - strain relief connector system

For all KMA* with Profile rail or top-hat (DIN) rail

*Polymer metal mounting bracket

E2/000, E2 e-tubes, E6, T3

E2/000, R2.1, E4.1L, E4.1

E4, E6, for all KMA* with Profile rail

*Polymer metal mounting bracket

Cost-effective, fast strain relief for simple applications with small spaces and medium accelerations. Also available as single parts for fixed applications, such as in cabinets, etc.

Combination of separator and strain relief, ideal for small spaces. For applications with medium accelerations. For small cables diameters. Ideal for e-tubes. For machine tools and automation.

For both e-chains® and e-tubes. Stepped strain relief for use outside of the e-chain® cross section - even with different connectors. Easy to retrofit. Simple installation into top-hat (DIN) rail or Profile rail on KMA mounting brackets.

Space-saving, modular strain relief with many cables in confined spaces. For applications with high accelerations and loads e.g., in machine tools.

For high loads

For high loads

For high loads

No limitation

+ -

-



yes

high

+

-



yes

high

+ +

-



yes

medium

+ -

+

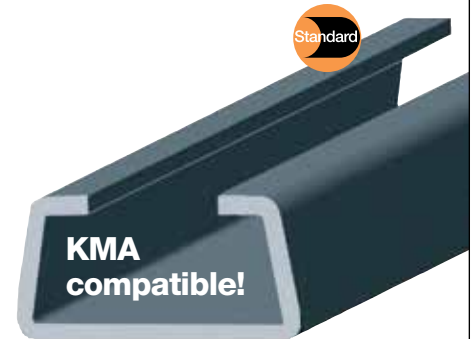


yes (special fabrication)

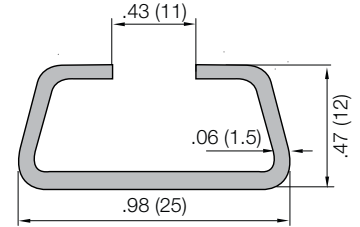
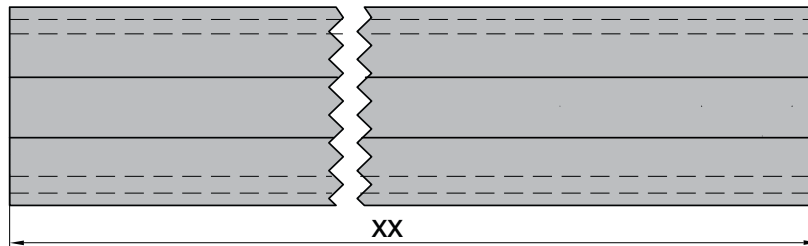
high to very high

Standard Profile rails Part No. CF-92-42KMA

- For all igus® CFX clamps and KMA- mounting brackets with profile rail host-option
- Standard material: galvanized steel **Part No. CF-92-42KMA**
- Also available as stainless steel version (Material stainless steel: 1.4301)
please add Index **SS**, example: **Part No. CF-92-42KMSS**



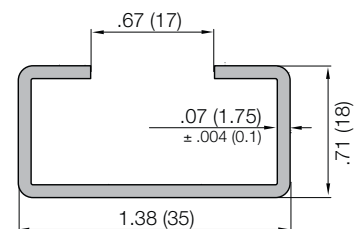
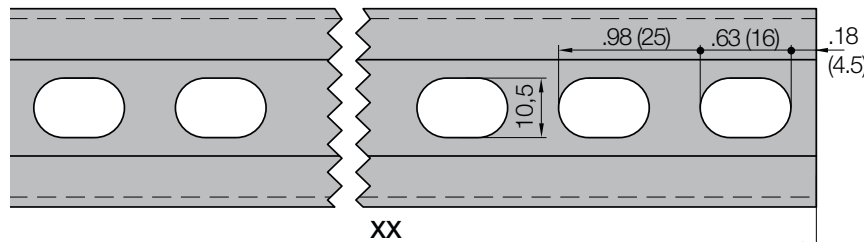
Standard profile rail Part No. CF-92-42KMA For conventional applications
Can be integrated into KMA with profile rail host-option!

**Optional - For Heavy-Duty applications****Profile rail Part No. CF-92-52G**

- For all igus® CFXL clamps
- With increased holding power - even for harsh applications
- Standard material: galvanized steel **Part No. CF-92-52G**
- Also available as stainless steel version (Material stainless steel: 1.4301)
please add Index **SS**, example: **Part No. CF-92-52GSS**



Profile rail Part No. CF-92-52G With increased holding power for harsh conditions
Assembly in front of the e-chain® - CAN NOT be integrated into KMA mounting bracket!



Three times higher tensile strength than other industry-standard clamps

We have tested three different strain relief types:

- A. Standard, hot-dipped galvanized steel strain relief clamp with single and double impact-resistant polymer saddle clamp elements (Part No. CF14-1-Z, standard elements)
- B. Standard strain relief housings (as used in A) with igumid G clamp saddles (Part No. CFY14-1)
- C. igus® Chainfix strain relief elements (Part No. CFX14-1)

Results:

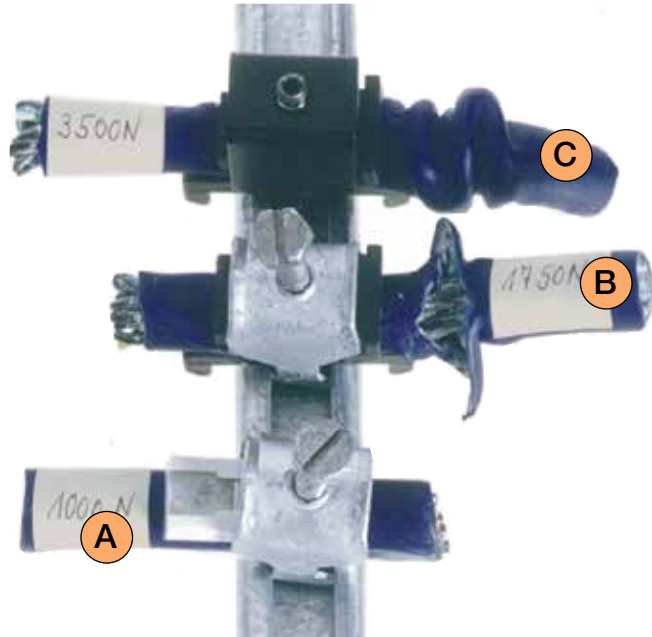
Strain relief element “A” saddle clamps loosen at 225 lbs (1,000 N) of pull force. The resulting diagonal position of the saddle clamp distorts the screw.

Strain relief element “B” saddle clamps loosen at 393 lbs (1,750 N) of pull force. The improved igumid G saddle clamps attempt to hold the cable, causing the outer jacket to “peel.”

Strain relief element “C”, igus® new Chainfix system, saddle clamps loosen and slant 5° at 393 lbs (1,750 N). At 562 lbs (2,500 N) of pull force, the cable jacket bunches up behind the clamp and, at 787 lbs (3,500 N) of pull force, the clamps loosen completely and the cable becomes inoperative.

Conclusion:

The tensile strength of the “Chainfix” line of strain relief elements developed by igus® is more than three times higher than the tensile strength of standard strain relief elements.



Test example with cable diameter .41” (10.5 mm)

Tiewrap Plate 2070-ZB with one cable tie

Result: tensile force 65 lbs (290 N)

Chainfix Clip CFC-12-M

Result: tensile force 79 lbs (350 N)



Pull Force Test for igus Tiewrap Plates with Cable Tiewraps

Results:

Two tiewraps are more stable than one tiewrap. If one cable tiewrap is used, **the breaking force is approximately 79 lbs (350 N)**. If the cable is secured with **two** cable tiewraps, **the breaking force increases to 187 lbs (830 N)**, i.e. pull force resistance more than doubles when using two cable tiewraps.

Technical data:

Tiewrap plates: 2100-ZB/3100-ZB
 Cable: CF130-07-12
 Cable tiewrap: CFB-001





To be integrated into
KMA mounting bracket

For up to three cables
over one another

Reduced installation
height, space saving

Excellent durability for
dynamic applications

Chainfix clamps - more secure, faster assembled

- Integration with KMA mounting brackets and profile rail host-option
- Easy to read the part number and lateral marking of the correct installation direction
- Reduced installation height due to optimal housing height
(compared to conventional clamps up to 15 mm)
- Space- and time-saving assembly
- Delivery options for complete systems with cables and preassembled strain relief
- Improved base for easy fit on the profile rail
- Setscrews, tightened with Allen wrench, for easy installation
- Durability for dynamic applications through improved stacker elements:
optimized stacker saddles, held by retaining lugs
- The long contact surface of the stacker elements improves the clamp's stability
- The high rigidity of the stacker elements significantly increases the reliability
- Built-in ribs to the stacker elements - no disconnection of cables from the strain relief
- Optional: CFXL clamps with increased holding power for Heavy-Duty applications

NOTE: (CFXL are always assembled **in front** of the e-chain® -

CAN NOT be integrated into KMA mounting brackets with profile rail host option!)

Strain Relief Elements for e-chains® and e-tubes with igus® Chainfix Clamps and Saddle Clamp Elements

The Chainfix clamp system design has proven itself as effective, life-prolonging strain relief for igus® e-chain systems®.

Product range and materials

- Steel clamp: clamp and screw black painted steel
- Stainless steel clamp: clamp and screw: blank (material 1.4301)
- Stacker elements: bottom saddle and stacker saddle (material igumid G)
- Profile rail: steel (material galvanized steel) or stainless steel (material 1.4301) available

Features of the igus® Chainfix Clamps

- Improved housing foot clamp for easy fit into profile rail
- Newly developed housing with reduced overall height
- Black housing and setscrews for attractive appearance
- Setscrews, tightened with Allen wrench, for easy installation

Features of the igus® Saddle Clamps

- Long support surface for improved stability
- Inherently high material rigidity for increased reliability
- Integrated ribbing to keep cables/hoses firmly strain relieved

Installation Height

If the e-chain® glides on itself over long travel distances, the screw heads of the strain relief on the fixed end must be at least .39 (10 mm) below the e-chain® link height. Our clamp housing with setscrews reduces the overall height by up to .59 (15 mm) compared to conventional clamp housings. In the case of unsupported e-chains®, the strain relief elements may be used with no problems.

Please note:

- Ideally, the cables/hoses should be strain relieved at both ends of the e-chain®. At the very least, they must be strain relieved at the moving end of the e-chain®.
- When using Chainfix clamps on profile rail in the mounting bracket for the Series: E4-32/H4-32/R4-32, 280/290/R770, 2828/2928/R7728, 28/29/R77, a shortened bottom saddle must be used. For shortened bottom saddles supplement Part No. with index "K" = Example: **Part No. CFX12-1K**

For Series:

System E2/000

- 2400/2500/2450/2480
- 2600/2700/2650/2680
- 3400/3500/3450/3480

System E4-1

- E4-32/H4-32/R4-32
- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80
- E4-112/H4-112/R4-112

System E4-1/light

- E4-38L/R4-38L
- E4-48L/R4-48L

System E4/light

- 14040/14140/R18840
- 14240/14340
- 14550/14650/19050
- 15050/15150/R19850
- 15250/15350

System E6

- E6-40
- E6-52 / R6-52
- E6-62
- E6-80L
- E6-80

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



CFX - Chainfix housing with reduced height



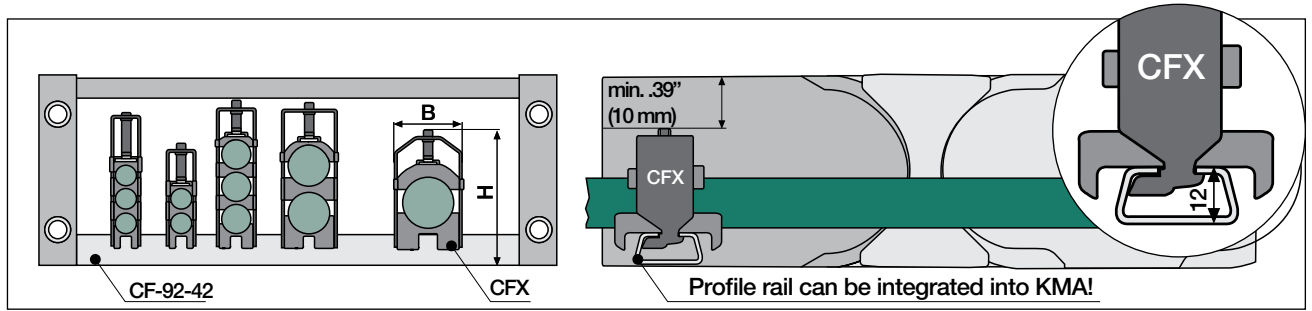
KMA mounting bracket with integrated profile rail and Chainfix clamps



Improved housing foot clamp for easy fit into profile rail

*Add and "M" to the end of the part number for this series

Chainfix Strain Relief CFX Clamps For use inside the KMA Bracket



The dimensions given for H in the tables are based on the maximum cable diameter. Cables with smaller diameters may result in lower overall clamp housing heights.



Single clamp housing,
including top/bottom saddle clamps

Part No. Steel	Part No. Stainless Steel	For cable diameters		B ⁺²	H
		in.	(ø mm)		
CFX12-1	CFX12-1E	.24-.47	(6 – 12)	.63 (16)	1.57 (40)
CFX14-1	CFX14-1E	.47-.55	(12 – 14)	.71 (18)	1.97 (50)
CFX16-1	CFX16-1E	.55-.63	(14 – 16)	.79 (20)	2.05 (52)
CFX18-1	CFX18-1E	.63-.71	(16 – 18)	.87 (22)	2.13 (54)
CFX20-1	CFX20-1E	.71-.79	(18 – 20)	.94 (24)	2.20 (56)
CFX22-1	CFX22-1E	.79-.87	(20 – 22)	1.02 (26)	2.28 (58)
CFX26-1	CFX26-1E	.87-1.02	(22 – 26)	1.18 (30)	2.64 (67)
CFX30-1	CFX30-1E	1.02-1.18	(26 – 30)	1.34 (34)	2.80 (71)
CFX34-1	CFX34-1E	1.18-1.34	(30 – 34)	1.50 (38)	2.95 (75)
CFX38-1	CFX38-1E	1.34-1.50	(34 – 38)	1.65 (42)	3.11 (79)
CFX42-1	CFX42-1E	1.50-1.65	(38 – 42)	1.81 (46)	3.27 (83)



Ribbed strain relief saddle
clamps withstands increased pull
forces for long-term durability



Double clamp housing,
including top/bottom saddle clamps
and one stacker saddle clamp

Part No. Steel	Part No. Stainless Steel	For cable diameters		B ⁺²	H
		in.	(mm)		
CFX12-2	CFX12-2E	.24-.47	(6 – 12)	.63 (16)	2.83 (72)
CFX14-2	CFX14-2E	.47-.55	(12 – 14)	.71 (18)	2.91 (74)
CFX16-2	CFX16-2E	.55-.63	(14 – 16)	.79 (20)	3.07 (78)
CFX18-2	CFX18-2E	.63-.71	(16 – 18)	.87 (22)	3.23 (82)
CFX20-2	CFX20-2E	.71-.79	(18 – 20)	.94 (24)	3.38 (86)
CFX22-2	CFX22-2E	.79-.87	(20 – 22)	1.02 (26)	3.54 (90)
CFX26-2	CFX26-2E	.87-1.02	(22 – 26)	1.18 (30)	4.29 (109)
CFX30-2	CFX30-2E	1.02-1.18	(26 – 30)	1.34 (34)	4.61 (117)
CFX34-2	CFX34-2E	1.18-1.34	(30 – 34)	1.50 (38)	4.92 (125)



Triple clamp housing,
including top/bottom
saddle clamps and two
stacker saddle clamps

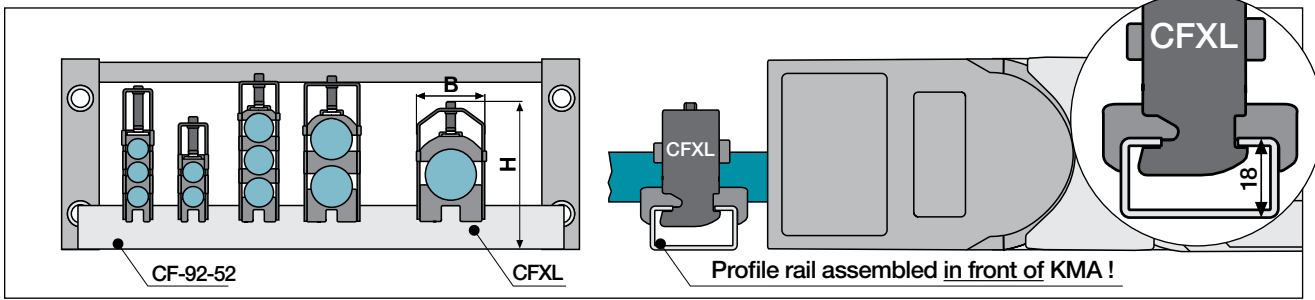
Part No. Steel	For cable diameters		B ⁺²	H
	in.	(ø mm)		
CFX12-3	.24-.47	(6 – 12)	.63 (16)	3.94 (100)
CFX14-3	.47-.55	(12 – 14)	.71 (18)	3.78 (96)
CFX16-3	.55-.63	(14 – 16)	.79 (20)	4.02 (102)
CFX18-3	.63-.71	(16 – 18)	.87 (22)	4.25 (108)
CFX20-3	.71-.79	(18 – 20)	.94 (24)	4.49 (114)
CFX22-3	.79-.87	(20 – 22)	1.02 (26)	4.72 (120)



Chainfix Strain Relief

CFXL Clamps

For use outside the KMA Bracket



The dimensions given for H in the tables are based on the maximum cable diameter. Cables with smaller diameters may result in lower overall clamp housing heights. Tightening torque 1.5 Nm for CFXL clamps



Single clamp housing, including top/bottom saddle clamps

CFXL - clamps with wide base for increased holding power
Suitable for profile rails CF-92-52-XX - profile rail assembled in front of KMA!
CANNOT be integrated into the KMA mounting bracket!

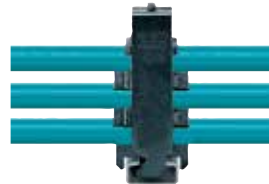
Part No. Steel	Part No. Stainless Steel	For cable diameters		B ⁺²	H
		in.	(ø mm)		
CFXL12-1	CFXL12-1E	.24-.47	(6 – 12)	.63 (16)	2.36 (60)
CFXL14-1	CFXL14-1E	.47-.55	(12 – 14)	.71 (18)	2.20 (56)
CFXL16-1	CFXL16-1E	.55-.63	(14 – 16)	.79 (20)	2.28 (58)
CFXL18-1	CFXL18-1E	.63-.71	(16 – 18)	.87 (22)	2.36 (60)
CFXL20-1	CFXL20-1E	.71-.79	(18 – 20)	.94 (24)	2.44 (62)
CFXL22-1	CFXL22-1E	.79-.87	(20 – 22)	1.02 (26)	2.52 (64)
CFXL26-1	CFXL26-1E	.87-1.02	(22 – 26)	1.18 (30)	2.87 (73)
CFXL30-1	CFXL30-1E	1.02-1.18	(26 – 30)	1.34 (34)	3.03 (77)
CFXL34-1	CFXL34-1E	1.18-1.34	(30 – 34)	1.50 (38)	3.19 (81)
CFXL38-1	CFXL38-1E	1.34-1.50	(34 – 38)	1.65 (42)	3.35 (85)
CFXL42-1	CFXL42-1E	1.50-1.65	(38 – 42)	1.81 (46)	3.50 (89)



Ribbed strain relief saddle clamps withstands increased pull forces for long-term durability



Double clamp housing, including top/bottom saddle clamps and one stacker saddle clamp



Triple clamp housing, including top/bottom saddle clamps and two stacker saddle clamps

Part No. Steel	Part No. Stainless Steel	For cable diameters		B ⁺²	H
		in.	(ø mm)		
CFXL12-2	CFXL12-2E	.24-.47	(6 – 12)	.63 (16)	3.07 (78)
CFXL14-2	CFXL14-2E	.47-.55	(12 – 14)	.71 (18)	3.15 (80)
CFXL16-2	CFXL16-2E	.55-.63	(14 – 16)	.79 (20)	3.31 (84)
CFXL18-2	CFXL18-2E	.63-.71	(16 – 18)	.87 (22)	3.39 (86)
CFXL20-2	CFXL20-2E	.71-.79	(18 – 20)	.94 (24)	3.62 (92)
CFXL22-2	CFXL22-2E	.79-.87	(20 – 22)	1.02 (26)	3.39 (86)
CFXL26-2	CFXL26-2E	.87-1.02	(22 – 26)	1.18 (30)	4.53 (115)
CFXL30-2	CFXL30-2E	1.02-1.18	(26 – 30)	1.34 (34)	4.84 (123)
CFXL34-2	CFXL34-2E	1.18-1.34	(30 – 34)	1.50 (38)	5.16 (131)

Part No. Steel	For cable diameters in.	(ø mm)	B ⁺²	H
CFXL14-3	.47-.55	(12 – 14)	.71 (18)	4.02 (102)
CFXL16-3	.55-.63	(14 – 16)	.79 (20)	4.25 (108)
CFXL18-3	.63-.71	(16 – 18)	.87 (22)	4.49 (114)
CFXL20-3	.71-.79	(18 – 20)	.94 (24)	4.72 (120)
CFXL22-3	.79-.87	(20 – 22)	1.02 (26)	4.96 (126)

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

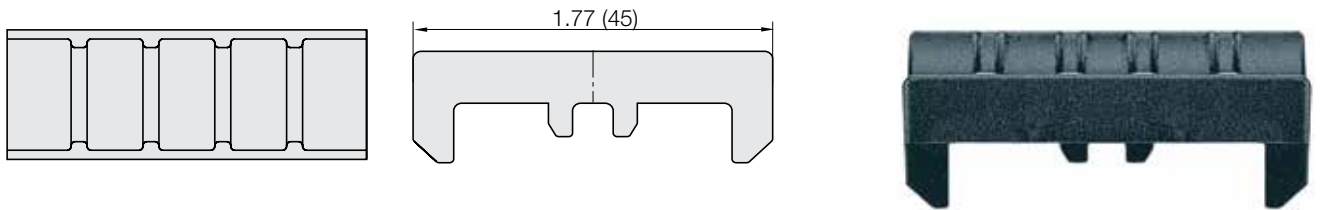


Characteristics of igus® Chainfix clamps - stacker elements

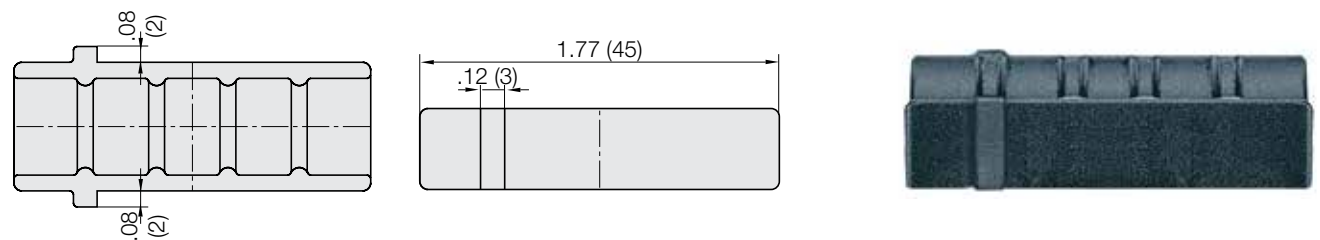
- Built-in ribs for security of cables in the strain relief
- Optimized stacker saddles, retained by ① locking spring and with ② spring grooves for a simplified and precise installation
- Conventional stacker saddles
- Long contact surface improves the clamp's stability
- More secure due to high stiffness
- Suitable for CFX and CFXL clamps



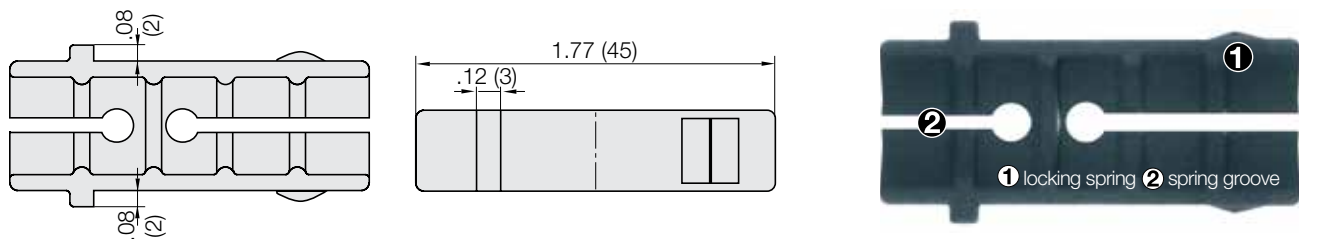
CGXX | Bottom saddles to slide into the clamp housing as single part



CDXX | Conventional stacker saddles for all for all double and triple clamps as single part



CD-XX-C | Optimized stacker saddles for all double and triple clamps as single part



Part No. Clamp	CGXX bottom saddle for singles	CDXX stacker saddle for doubles & triples	CD-XX-C optimized stacker saddle for doubles & triples	Diameter	
				in.	(mm)
CFX / CFXL12-1	CG12	CD12	—	.24-.47	(6 – 12)
CFX / CFXL14-1	CG14	CD14	CD-14-C	.47-.55	(12 – 14)
CFX / CFXL16-1	CG16	CD16	CD-16-C	.55-.63	(14 – 16)
CFX / CFXL18-1	CG18	CD18	CD-18-C	.63-.71	(16 – 18)
CFX / CFXL20-1	CG20	CD20	CD-20-C	.71-.79	(18 – 20)
CFX / CFXL22-1	CG22	CD22	CD-22-C	.79-.87	(20 – 22)
CFX / CFXL26-1	CG26	CD26	CD-26-C	.87-1.02	(22 – 26)
CFX / CFXL30-1	CG30	CD30	CD-30-C	1.02 -1.18	(26 – 30)
CFX / CFXL34-1	CG34	CD34	CD-34-C	1.18 -1.34	(30 – 34)
CFX / CFXL38-1	CG38	—	—	1.34-1.50	(34 – 38)
CFX / CFXL42-1	CG42	—	—	1.50-1.65	(38 – 42)

Please note: When using chainfix clamps on profile rail in the mounting bracket for Series E4-32/H4-32/R4-32, 280/290/ R770, 2828/2928/R7728, 28/29/R77 a shortened bottom saddle has to be used.

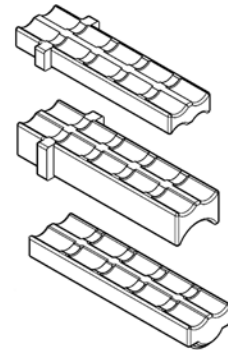
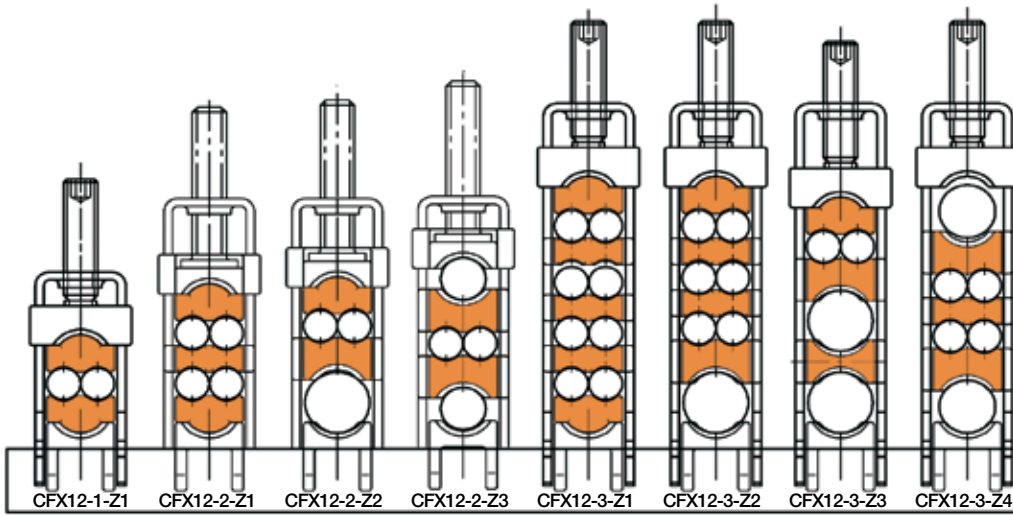


The Part No. for this is "K", Example: **Part No. CFX12-1K**

Characteristics of igus® Chainfix Multi-Clamps

The proven Chainfix clamps now even more versatile. New parts offer numberless solutions to assemble.

- New universal strain relief
- Save assembly time and space
- Compact and modular
- For small outer diameters
- Cost-effective



New universal saddle clamps

Part No.	Part No. trays as single parts				For cables	
	CDA-4/4-8	CD-4/4	CD-4/4-8	CD-12	Max. Diameter	
					in.	(mm)
CFX12-1-Z1	X (2-piece)	-	-	-	.24	(6)
CFX12-2-Z1	X (2-piece)	X (1-piece)	-	-	.24	(6)
CFX12-2-Z2	X (1-piece)	-	X (1-piece)	-	.24 + .47	(6 + 12)
CFX12-2-Z3	-	-	X (2-piece)	-	.24 + .31	(6 + 8)
CFX12-3-Z1	X (2-piece)	X (3-piece)	-	-	.24	(6)
CFX12-3-Z2	X (1-piece)	X (2-piece)	X (1-piece)	-	.24 + .47	(6 + 12)
CFX12-3-Z3	X (1-piece)	-	X (1-piece)	X (1-piece)	.24 + .47	(6 + 12)
CFX12-3-Z4	-	X (1-piece)	X (2-piece)	-	.24 + .39	(6 + 10)

For stainless-steel version please insert index **SS** Example: Part No. CFX-12-3-Z1**SS**

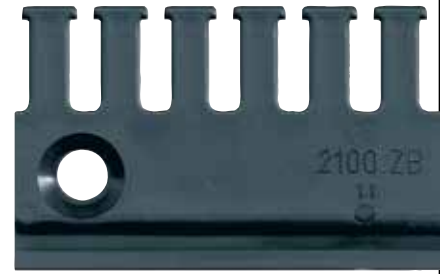
Standard material steel zinc-coated



Characteristics of igus® chainfix tiewrap plate Series 2000

Option 1A: Tiewrap plate as single part

- Available as individual component
- Screwed on KMA* with profile rail (*polymer metal mounting bracket)
- Can be stacked onto the mounting bracket
- Can be used at the end of the e-chain® or within electrical cabinets
- Accessory for igus® e-chain systems®



For Series:

E-Z Chain®

- E200/Z200

System E2/000

- 1400/1500/1450/1480
- 2400/2500/2450/2480
- 255

System E2 Tubes

- R117/R118
- R48

System E4-1

- E4-21

System E6

- E6-29/R6-29
- E6-35
- E6-40

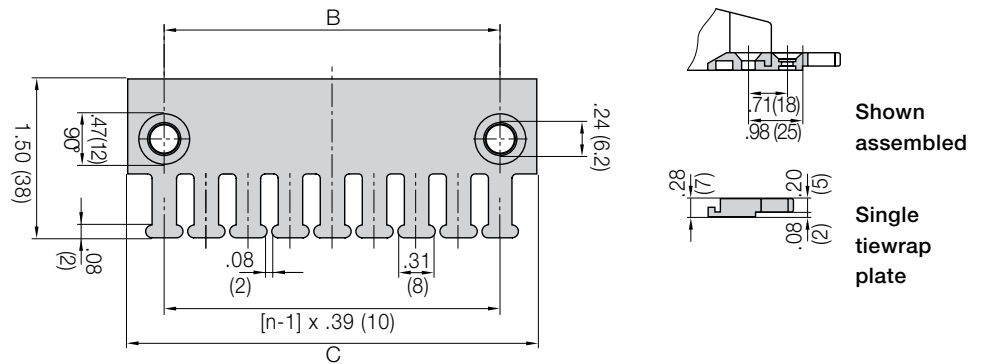
System E6-1

- E61-29

Tiewrap plates as an individual part

Available as an individual component or can be fixed onto a mounting bracket with the use of a profile rail.

Series 2000



Tiewrap Plates	n Number of Teeth	Dimension C	Dimension B	
2020-ZB	3	1.18 (30)	.59 (15)	
2030-ZB	4	1.57 (40)	.79 (20)	
2040-ZB	5	1.97 (50)	1.18 (30)	
2050-ZB	6	2.36 (60)	1.57 (40)	
2070-ZB	8	3.15 (80)	2.36 (60)	
2090-ZB	9	3.54 (90)	2.76 (70)	= 2030-ZB + 2040-ZB combined
2100-ZB	10	3.94 (100)	3.15 (80)	
2125-ZB	12	4.72 (120)	3.94 (100)	= 2050-ZB x 2 pieces combined

If used with KMA brackets with profile rail please add "KMA" to the end of the part number.

Example: 2020-ZBKMA

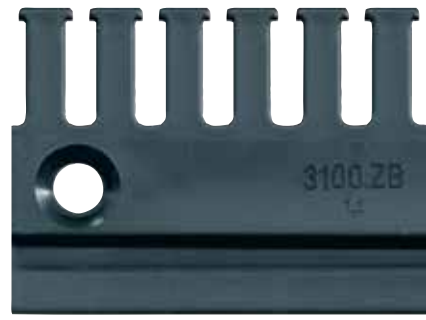
Cable tiewraps as individual parts

Cable tiewraps 100 pieces/bag	Width x Length		Maximum Ø		Tensile Strength	
	in.	(mm)	in.	(mm)	lbs	(N)
CFB-001	.19 x 5.91	(4.8 x 150)	1.42	(36)	50	(222)

Characteristics of igus® chainfix tiewrap plate Series 3000

Option 1B: Tiewrap plate as single part

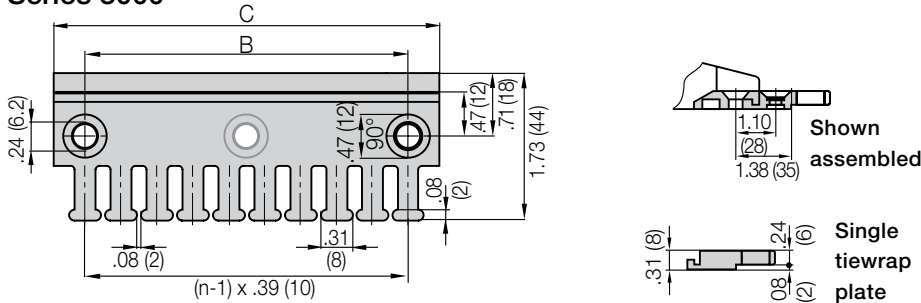
- Available as individual component
- Screwed on KMA* with profile rail (*polymer metal mounting bracket)
- Can be stacked onto the mounting bracket
- Can be used at the end of the e-chain® or within electrical cabinets
- Accessory for igus® e-chain systems®



Tiewrap plates as an individual part

Available as an individual component or can be fixed onto a mounting bracket with the use of a profile rail.

Series 3000



Tiewrap Plate	n Number of Teeth	C Overall Width in. (mm)	B Bore Width in. (mm)	Center Bore
3050-ZB	5	1.97 (50)	1.18 (30)	no
3075-ZB	7	2.95 (75)	2.16 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3115-ZB	11	4.53 (115)	3.74 (95)	no
3125-ZB	12	4.92 (125)	4.13 (105)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no
3175-ZB	17	6.89 (175)	6.10 (155)	no
3200-ZB	20	7.87 (200)	7.09 (180)	yes
3225-ZB	22	8.86 (225)	8.07 (205)	yes
3250-ZB	25	9.84 (250)	9.06 (230)	yes

If used with KMA brackets with profile rail please add "KMA" to the end of the part number.

Example: 3050-ZBKMA

Cable tiewraps as individual parts

Cable tiewraps 100 pieces/bag	Width x Length		Maximum Ø		Tensile Strength	
	in.	(mm)	in.	(mm)	lbs	(N)
CFB-001	.19 x 5.91	(4.8 x 150)	1.42	(36)	50	(222)



For Series:

E-Z Chain®

- E26/Z26
- E300/Z300

System E2/000

- 2600/2700/2650/2680
- 3400/3500/3450/3480

System E4-1

- E4-32/H4-32/R4-32
- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80
- E4-112/H4-112/R4-112

● 800

● 840

System E4-1 Light

- E4-38L/R4-38L
- E4-48L/R4-48L

System E4/light

- 14040/14140/R18840
- 15050/15150/R19850
- 14240/14340
- 1640

System E6

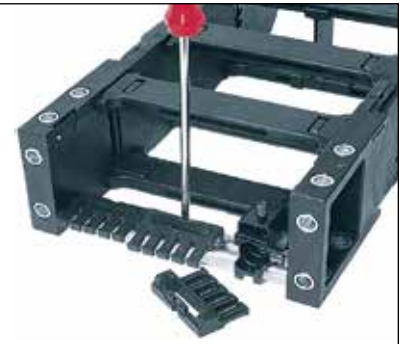
- E6-52/R6-52
- E6-62
- E6-80L / E6-80



Characteristics of igus® Chainfix tiewrap plate

Option 1: With clip-on connection for the profile rail

- Can be clipped onto KMA profile rail
- Easy to assemble without any screws
- Easy to remove with screwdriver
- Can be used at the end of the e-chain® or within electrical cabinets
- Accessory for igus® e-chain systems®



Option 1 - Tiewrap plate for profile rail

Part No.	Number of Teeth	Width of Strain Relief	
		in.	(mm)
3050-ZC	5	1.97	(50)
3075-ZC	7	2.95	(75)



For Series:

Tiewrap plates for profile rail

For all mounting brackets
with profile rail option

Characteristics of igus® Chainfix tiewrap plate

Option 2: integrated strain relief for E2 e-tubes - Series R

- Strain relief is hidden within the e-tube
- Easy to assemble without any screws
- Can be used at the end of the e-chain® or within electrical cabinets
- Accessory for igus® e-chain systems®



Option 2 - Tiewrap plate for E2 e-tubes Series R

Part No.	Width		Number of teeth	For Series	
	fixed crossbar	in.			(mm)
3050-Z		1.97	(50)	5	R68
3075-Z		2.95	(75)	7	R68
5850-Z		1.81	(46)	4	R58



For Series:

e-tubes Series R

- R58
- R68

Characteristics of igus® Chainfix tiewrap plates

Option 3: for fixed crossbars

- Can be fitted to fixed and opening crossbars
- For use with various cable assemblies
- Strain relief on two levels
- Easy to assemble without any screws
- Accessory for igus® e-chain systems®



Option 3 - Tiewrap plate for fixed crossbars

Part No. fixed crossbar	Width		Number of teeth	For Series
	in.	(mm)		
2050-Z	2.36	(60)	6	E/Z200, 2400/2500, 2600/2700
3050-Z	1.97	(50)	5	3400/3500
3075-Z	2.91	(74)	7	3400/3500



For Series:

E-Z Chain®

- E200/Z200

System E2/000

- 2600/2700/2650/2680
- 3400/3500/3450/3480

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Characteristics of igus® Chainfix tiewrap plates

Option 4: for opening crossbars

- Can be fitted to fixed and opening crossbars
- For use with various cable assemblies
- Strain relief on two levels
- Easy to assemble without any screws
- Accessory for igus® e-chain systems®



Option 4 - Tiewrap plate for opening crossbars

Part No. opening crossbar	Width		Number of teeth	For Series
	in.	(mm)		
2050-Z	2.36	(60)	6	2600/2700/2650, E4-28, E61-52, E6-52
3035-ZS	1.38	(35)	3	3400/3500/3450
3050-ZS	1.97	(50)	5	3400/3500/3450
3075-ZS	2.91	(74)	7	3400/3500/3450
3850-ZS	1.89	(48)	5	E4/H4/R4-32, E4/H4/R4-42, 14240/14340, 15250/15350, E61-62, E6-62
4550-ZS	1.89	(48)	5	E4/H4/R4-56, E4/H4/R4-.80, E4/R4-.112, 14040/14140/R18840, 14550/14650/19050 15050/15150/R19850, E61-80, E6-80L, E6-80, 1640/R1608
4575-ZS	2.91	(74)	7	E4/H4/R4-56, E4/H4/R4-80, E4/R4-112, 14040/14140/R18840, 14550/14650/19050 15050/15150/R19850, E61-80, E6-80L, E6-80, 1640/R1608
C622-100-ZS	3.15	(80)	8	E4-38L, E4-48L



For Series:

System E2/000

- 2600-2700/2650
- 3400/3500/3450

System E4-1

- E4-28
- E4-32/H4-32/R4-32
- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80
- E4-112/R4-112

System E4-1L

- E4-38L
- E4-48L

System E4/light

- 14040/14140/R18840
- 14240/14340
- 14550/14650/R19050
- 15050/15150/R19850
- 15250/15350
- 1640/R1608

System E6

- E6-52/R6-52
- E6-62
- E6-80L
- E6-80

System E6-1

- E61-52

Assembled in seconds - honeycomb strain relief CFU

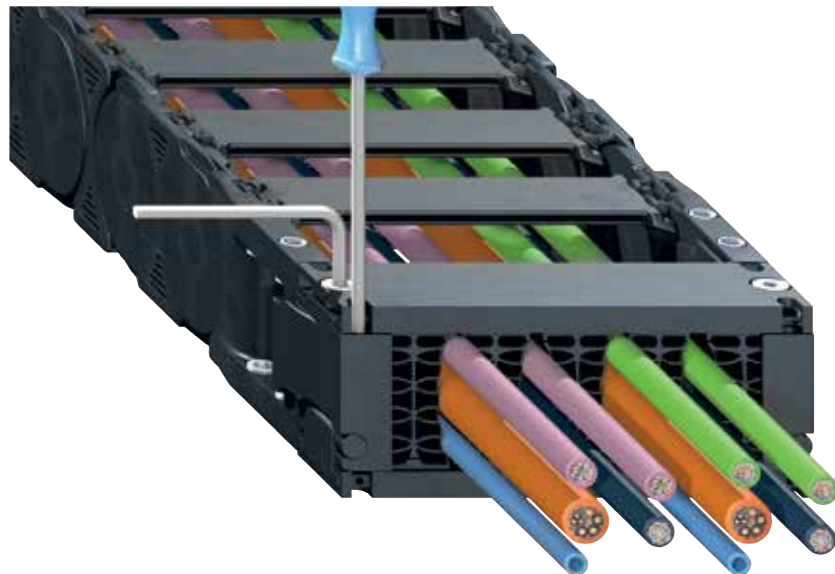
- Up to 80% faster strain relief for different cables in one slot
- Simply insert cables and hoses into the honeycomb and close
- Easy to make changes - add or remove cables/hoses
- Simplified parts
- Can be used in gliding applications



CFU - Honeycomb strain relief design



Strain relief of different cables in one slot, openable on both sides. Black anodized aluminum rails with side recesses for easier assembly



Strain relief can be screwed in from above or below. Compact design is smaller than the mounting bracket of the e-chain® at the fixed end, meaning it can also be used for long travels



For Series:

E2.1

- E2.48

E2/000

- 3400/3500/3450/3480

E2R

- R68

R2.1

- R2.48

E2R

- R68

E4.1L

- E4.48L/R4.48L

E4.1

- E4.42/H4.42/R4.42

E6.1

- E61.52

E6

- E6.52/R6.52



reddot design award
winner 2018



More (technical) information
on request or online
▶ www.igus.com/CFU

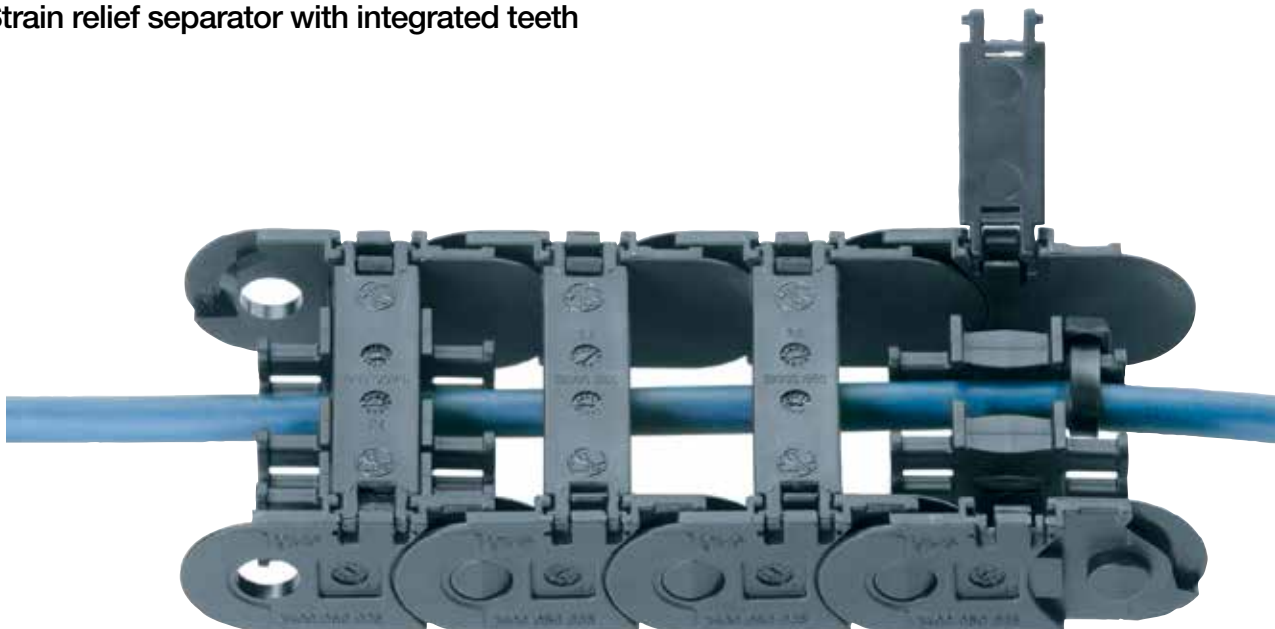


Characteristics of igus® strain relief separators - Separator with integrated strain relief teeth

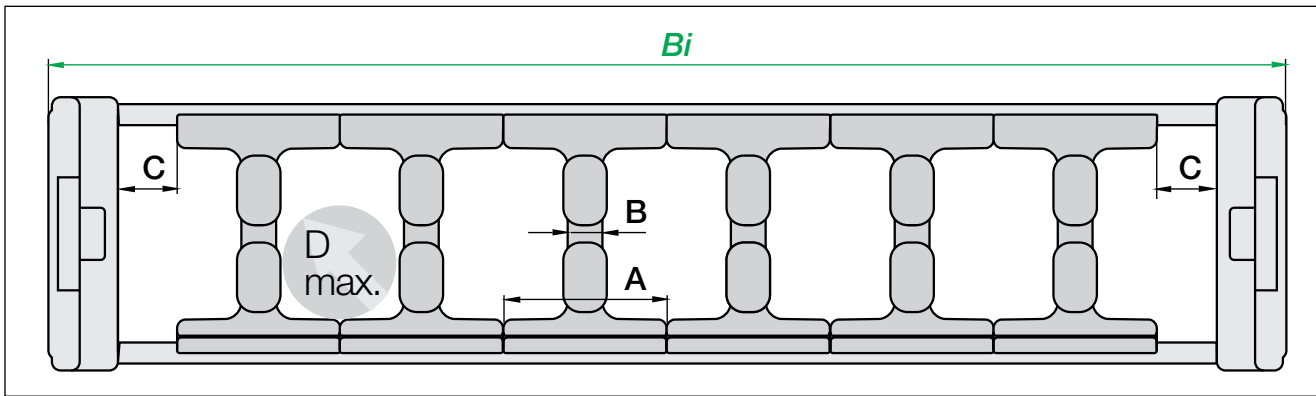
- For the use in the first or last chain link
- Accessory for igus® e-chain systems®
- Easy to assemble without any screws
- For restricted space conditions
- The number of **teeth** is dependent upon the selection of cable (diameter, type) and available space



Strain relief separator with integrated teeth



Strain relief separators are assembled either at the first or last e-chain® link. For an intermediate strain relief they can alternatively be assembled in the e-chain®.



For Series	Part No. Strain Relief Separator	Number Of Teeth	Dimension A		Dimension B		Dimension C Min. distance L/R		Dimension D max. cable Ø	
			in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
E2/000 System										
1400/1500	21-1-Z	2	.39	(10)	.16	(4)	-	-	.24	(6)
2400/2500	2020-Z	2	.39	(10)	.16	(4)	-	-	.24	(6)
2450/2480	2020-ZR	2	.39	(10)	.16	(4)	-	-	.24	(6)
2600/2700	262-Z	3	.39	(10)	.16	(4)	-	-	.24	(6)
3400/3500	301-Z	3	.71	(18)	.16	(4)	-	-	.55	(14)
3450/3480	34501-Z	3	.55	(14)	.16	(4)	-	-	.39	(10)
E2 R100 System										
R157/R158	1585-01-Z	3	.87	(22)	.16	(4)	-	-	.71	(18)
R167/R168	1685-01-Z	4	.87	(22)	.16	(4)	-	-	.71	(18)
E2 R System										
R48	481-ZR	2	.39	(10)	.14	(3.5)	.39	(10)	.26	(6.5)
E4-1L System										
E4-31L/R4-31L	31-Z	4	.35	(9)	.16	(4)	.24	(6)	.24	(6)
E4-48L/R4-48L	48-Z	4	.55	(14)	.18	(4.5)	.31	(8)	.79	(20)
E4-48L/R4-48L	48-ZS	4	.55	(14)	.18	(4.5)	.31	(8)	.79	(20)
E4-1 System										
E4-21	T2103-Z	2	.31	(8)	.16	(4)	.51	(13)	.16	(4)
E4-28	28-Z	2	.39	(10)	.16	(4)	-	-	.24	(6)
R4-28	28-ZT	2	.39	(10)	.16	(4)	.59	(15)	.24	(6)
T3 System										
T3-29	E6-29-02-Z	2	.31	(8)	.16	(4)	.47	(12)	.16	(4)
E6 / E6-1 System										
E6-29/E61-29	E6-29-02-Z	2	.31	(8)	.16	(4)	.47	(12)	.16	(4)
R6-29	E6-29-02-Z	2	.31	(8)	.16	(4)	.47	(12)	.16	(4)
E6-35/E61-35	E6-35-02-Z	3	.31	(8)	.16	(4)	.47	(12)	.16	(4)
E6-40/E61-40	E6-40-02-Z	3	.51	(13)	.16	(4)	-	-	.31	(8)

For Series:

System E2/000

- 1400/1500
- 2400/2500
- 2450/2480
- 2600/2700
- 3400/3500
- 3450/3480

System E2 R100

- R157/R158
- R167/R168

System E2 R

- R48

System E4-1L

- E4-31L / R4-31L
- E4-48L / R4-48L

System E4-1

- E4-21
- E4-28/R4-28

System T3

- T3-29

System E6-1

- E61-29 / EF61-29

- E61-35

- E61-40

System E6

- E6-29

- R6-29

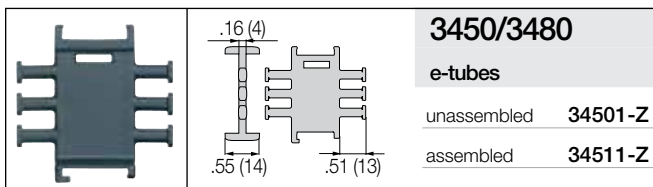
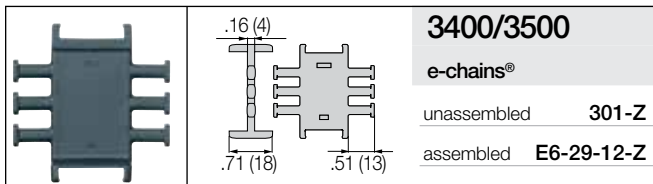
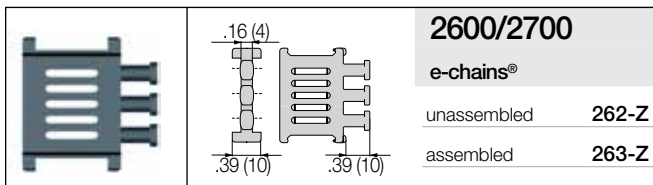
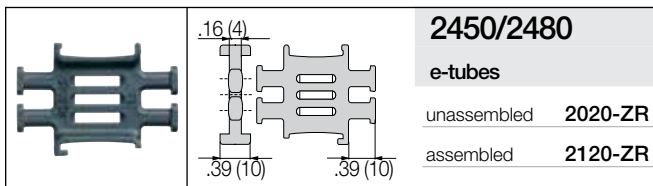
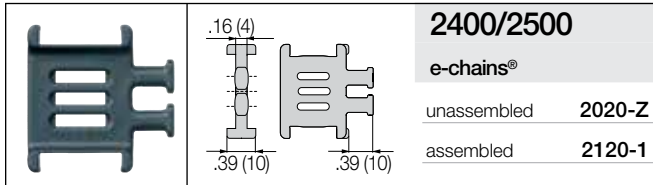
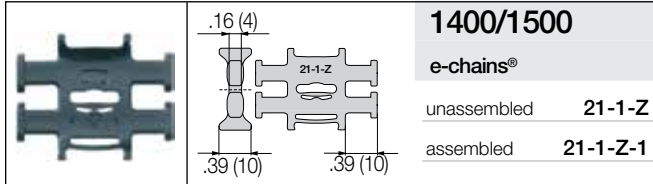
- E6-35

- E6-40

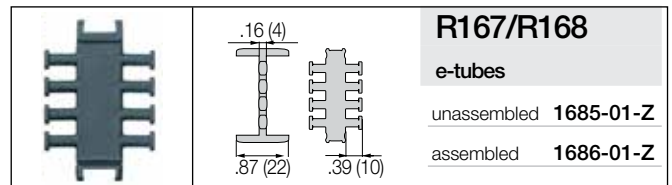
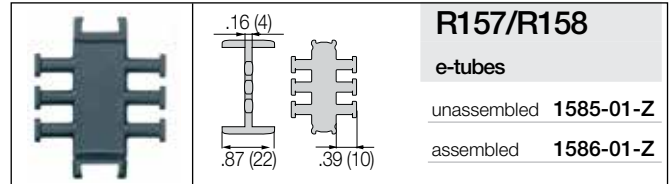
PDF: igus.com/e-chain-pdfs
 Product information: igus.com/e-chains



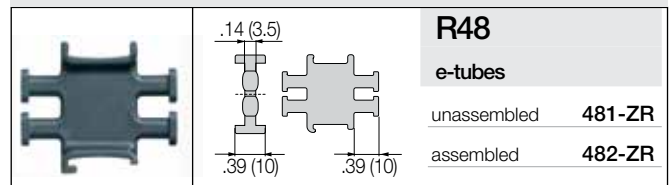
For Series E2/000



For Series R100 e-tubes



For Series R E2 e-tubes



For Series E4-1L

		<p>E4-31L / R4-31L e-chains® / e-tubes</p> <p>unassembled 31-Z assembled 31-Z-1</p>
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		<p>E4-48L / R4-48L e-chains® / e-tubes</p> <p>unassembled 48-Z assembled 48-Z-1</p>
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		<p>E4-48L / R4-48L e-chains® / e-tubes</p> <p>unassembled 48-ZS assembled 48-ZS-1</p>
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For Series E4-1

		<p>E4-21 e-chains®</p> <p>unassembled T2103-Z assembled T2113-Z</p>
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		<p>E4-28 e-chains®</p> <p>unassembled 28-Z assembled 28-Z-1</p>
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		<p>R4-28 e-chains®</p> <p>unassembled 28-ZT assembled 28-ZT-1</p>
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For Series T3

		<p>T3-29 e-chains®</p> <p>unassembled E6-29-02-Z assembled E6-29-12-Z</p>
--	--	--------------------------------------------------------------------------------------------------------

For Series E6-1 / E6 / R6

		<p>E6-29/E61-29 e-chains®</p> <p>unassembled E6-29-02-Z assembled E6-29-12-Z</p>
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		<p>R6-29 e-tubes</p> <p>unassembled R6-29-02-Z assembled R6-29-12-Z</p>
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		<p>E6-35/E61-35 e-chains®</p> <p>unassembled E6-35-02-Z assembled E6-35-12-Z</p>
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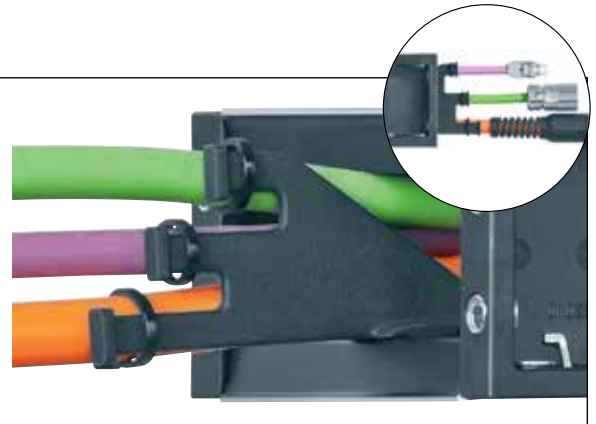
		<p>E6-40 / E61-40 e-chains®</p> <p>unassembled E6-40-02-Z assembled E6-40-12-Z</p>
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PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



CFV strain relief element - for stepped strain relief for use outside of the e-chain® section

- Easy strain relief for cables, even in fully enclosed tubes and with different connectors
- For e-chains® and e-tubes
- Easy to retrofit
- Simple installation into KMA mounting brackets or top-hat (DIN) rail 15 (TS92-31)



Part No.	For series	Inner height <i>hi</i>		For use in
		in.	(mm)	
CFV-31-N15	E4-31L/R4-31L	1.22	(31)	Top-hat (DIN) rail 15 (TS92-31)
CFV-R2-26-Z	R2-26	1.02	(26)	KMA*
CFV-R2-40-Z	R2-40	1.57	(40)	KMA*
CFV-42-C	2600/2700/2650/2680	1.38	(35)	KMA*
	3400/3500/3450/3480	1.77	(45)	KMA*
	E4-32/H4-32/R4-32	1.26	(32)	KMA*
	E4-42/H4-42/R4-42	1.65	(42)	KMA*
	E4-38L/R4-38L	1.50	(38)	KMA*
CFV-80-C	E4-48L/R4-48L	1.89	(48)	KMA*
	R2-75	2.95	(75)	KMA*
	E4-64L	2.52	(64)	KMA*
	E4-56/H4-56/R4-56	2.20	(56)	KMA*
	E4-80/H4-80/R4-80	3.15	(80)	KMA*

*KMA = plastic metal mounting bracket

For Series:

System E2/000

- 2600/2700
- 2650/2680
- 3400/3500
- 3450/3480

System R2-1

- R2-26
- R2-40
- R2-75

System E4-1

- E4-32/H4-32/R4-32
- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80

System E4-1 Light

- E4-31L/R4-31L
- E4-38L/R4-38L
- E4-48L/R4-48L
- E4-64L



CFV stepped strain relief element easily clipped in from above

Characteristics of igus® Chainfix nuggets for profile rails

- Universal cable attachment in profile rail
- Simple strain relief - pre-attached cable tiewraps
- Minimum space required
- Easy to assemble without any screws and tools
- Adjustable to every e-chain® filling



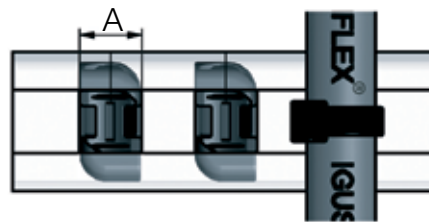
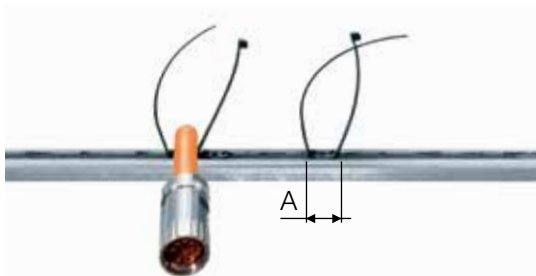
Option 1 - CFN nuggets for profile rail

Part No. Nugget	For profile rails	Cable Diameter Max.		Dimension A	
		in.	(mm)	in.	(mm)
CFN-20	92-42.../92-42...E	.79	(20)	.43	(10.8)
CFN-30-52	92-42.../92-42...E	1.18	(30)	.65	(16.4)

For Series:

For profile rail

- For all mounting brackets with profile rail option



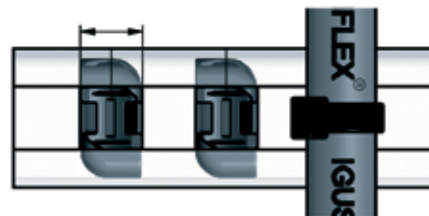
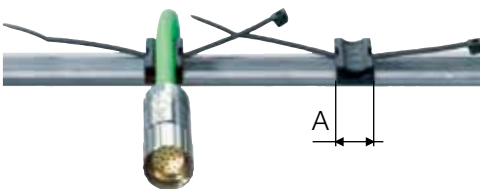
Option 2 - CFN nuggets for top-hat (DIN) rail

Part No. Nugget	For top-hat DIN rail	Cable Diameter Max.		Dimension A	
		in.	(mm)	in.	(mm)
CFN-20-N35	Top-hat (DIN) rail 35	.79	(20)	.43	(10.8)

For Series:

For top-hat (DIN) rail

- Top-hat (DIN) rail 35



Characteristics of the modular igus® CFB: Polymer strain relief connector system to be mounted onto the profile rail

- Customized strain relief solutions can be offered
- 2 variations available
- Fast assembly by standard screw connection
- Can be mounted in the mounting bracket or in front of the e-chain®
- Customized production from 1 piece
- Low priced and effective



CFB 907-881- Polymer strain relief connector system

Parts List Description	Part No.	Quantity
① Outer fixing block	CFB20-1	N x 2
② Clamping bar	907-881-1-XXX	2
③ Threaded bolt with plate	907-825-2-LLL	2
④ Hexagon nut M8	MAT 0040012	2
⑤ Profile rail (part of KMA)	92-42-KMA	1
⑥ Strain relief block	Customer specific	1

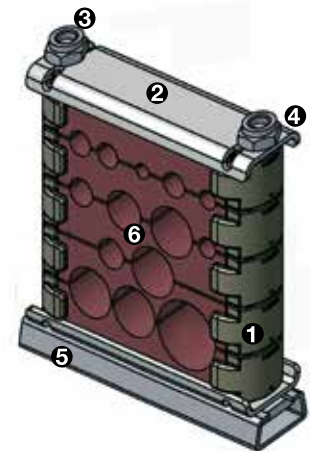
Order key

907-881-XXX-N


N = Number of layers fixing blocks ①
 XXX= Bi - 3 mm (mounting bracket)
 Part No. with version 881



Please contact igus®
for individual design



CFB 907-825- Polymer strain relief connector system

Parts List Description	Part No.	Quantity
① Outer fixing block	CFB20-1	N x 2
② Inner fixing block	CFB20-2	N
③ Clamping bar	907-825-1-XXX	2
④ Threaded bolt with plate	907-825-2-LLL	3
⑤ Hexagon nut M8	MAT 0040012	3
⑥ Profile rail (part of KMA)	92-42-KMA	1
⑦ Strain relief block	Customer specific	1
⑧ Strain relief block	Customer specific	1

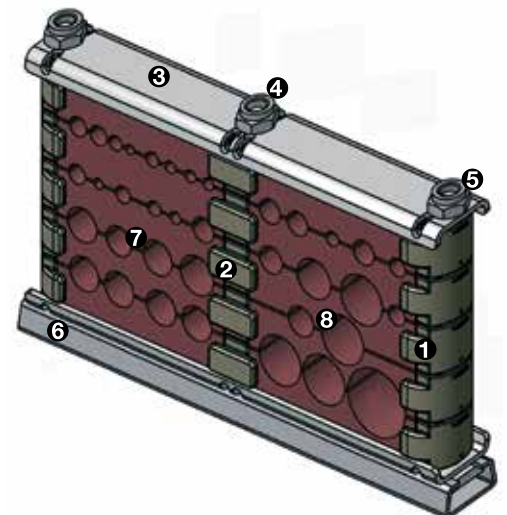
Order key

907-825-XXX-N


N = number of layers fixing blocks ① + ②
 XXX= Bi - mm (mounting bracket)
 Part No. with version 825



Please contact igus®
for individual design



igus® strain relief block for small hoses and cables

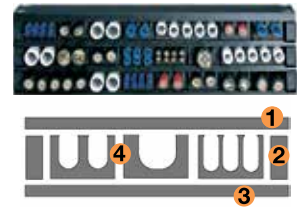
- Modular system for great adaptability
- No hose damage
- Space-saving design
- Hoses and cables can be installed together in the same e-chain®
- Accommodation of hose diameters from .17 to .55 (4.3 to 14 mm)
- Easy installation - pressing the hose into the locating notch provides reliable fastening without hardware

The modules accommodate hoses from .17 to .55 (4.3 to 14 mm), 3 x .17 (3 x 4.3 mm) hoses can be fitted on top of each in module CFS-4.3 and 2 hoses can be fitted directly on top of each other in one notch using module CFS-6. The modules have a width of 1.08 (27.5), are inserted into the base plate and then fastened in position with M4 countersunk-head screws. The exception is module CFS-55.9 which offers the capacity for 5 x .35 (5 x 9 mm) hoses with twice the width. The base plate and cover plate are available in widths ranging from 2.95 to 9.45 (75 to 240 mm). The height of the spacers and modules is .63 (16 mm). Several layers can be installed directly above one another.

Part No. Block	Hose Ø mm	Number of Hoses	Width	
			in.	(mm)
CFS-4.3	.17 (4.3)	4 – 12	1.08	(27.5)
CFS-6	.24 (6)	3 – 6	1.08	(27.5)
CFS-9	.35 (9)	2	1.08	(27.5)
CFS-55.9	.35 (9)	5	2.16	(55.0)
CFS-10	.39 (10)	2	1.08	(27.5)
CFS-14	.55 (14)	1	1.08	(27.5)

Part No. Base Plate	Part No. Cover Plate	Width	
		in.	(mm)
CFSU-75	CFS-P-75	2.95	(75)
CFSU-102.5	CFS-P-102.5	4.04	(102.5)
CFSU-130	CFS-P-130	5.12	(130)
CFSU-185	CFS-P-185	7.28	(185)
CFSU-212	CFS-P-212	8.34	(212)
CFSU-240	CFS-P-240	9.45	(240)

Part No. Spacer	Height	
	in.	(mm)
CFSD-16	.63	(16)
CFSD-12	.47	(12)



- 1 Cover plate
- 2 Spacers
- 3 Base plate
- 4 Grid-dimensioned modules
W = 1.08 (27.5 mm)
H = .63 (16 mm)