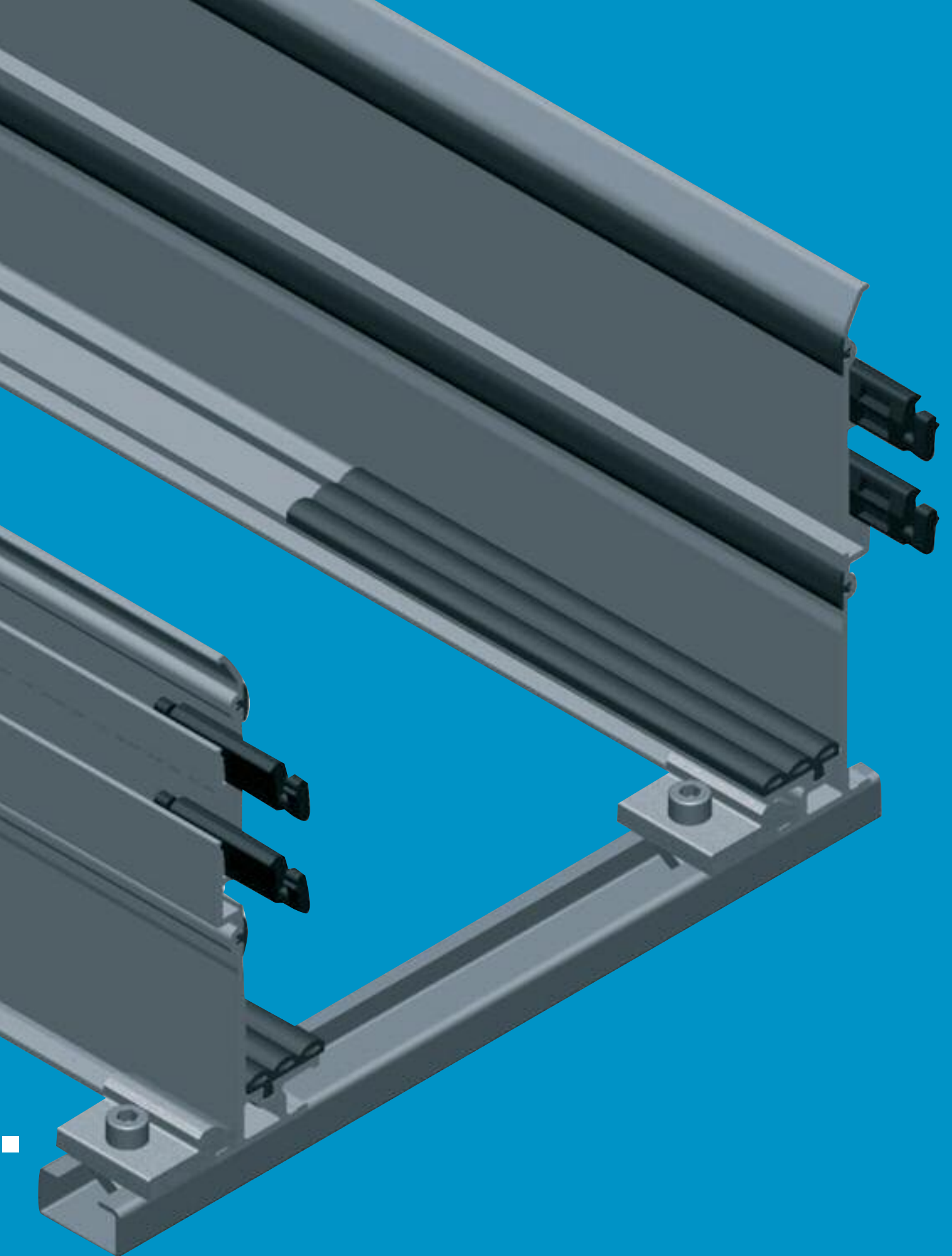
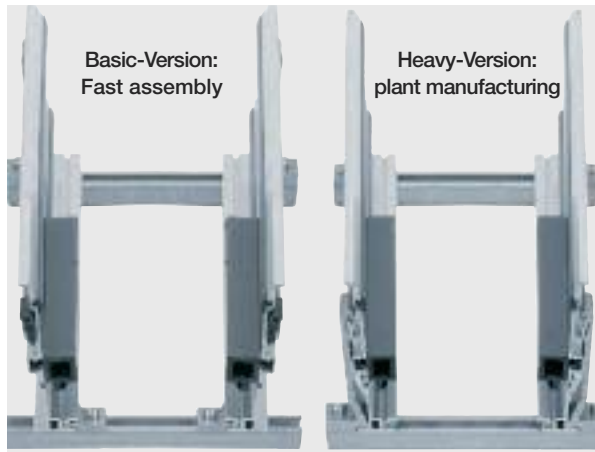


**Solutions for long
travel applications..**
with or without Guide Troughs



Long Travels **With** Guide Troughs



Aluminium "SuperTrough" - The igus® standard guide trough

- Very simple, modular assembly
- Side-mounted glide strips for wear protection in high-speed
- Corrosion resistant, seawater resistant aluminium 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 safe connection also for rough applications



Steel guide trough - very stable and rugged for heavy duty applications

- Very stable and robust guide trough made of steel
- Easy assembly with installation set
- Big range, two piece design, adjustable to E-Chain® width
- Available in galvanized steel and stainless steel
- Glide bar made of PE



For support of the lower run - Support tray tool kit

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

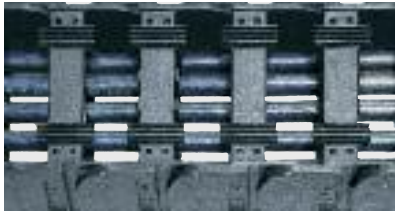
Long Travels Without Guide Troughs



Rol E-Chain® - Rolling instead of gliding

Travels up to 800 m, speeds up to 6 m/s

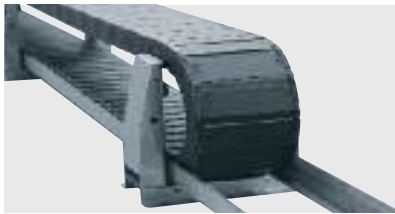
- Major reduction in drive power to less than 25 % for moving the Energy Chain®
- Rol E-Chain® is designed for applications with long travel lengths at high speed



AUTO-GLIDE - Long travels without guide troughs

Travels up to 164 ft. (50 m), speeds up to 4.92 ft/s (1.5 m/s)

- AUTO-GLIDE Energy Chain® links are moulded and no additional parts are necessary
- Very fast assembly times for long travels - No Guide Troughs required!



Guidelok horizontal - upper run guide for long travels

Travels, unsupported up to 164 ft. (50 m) possible

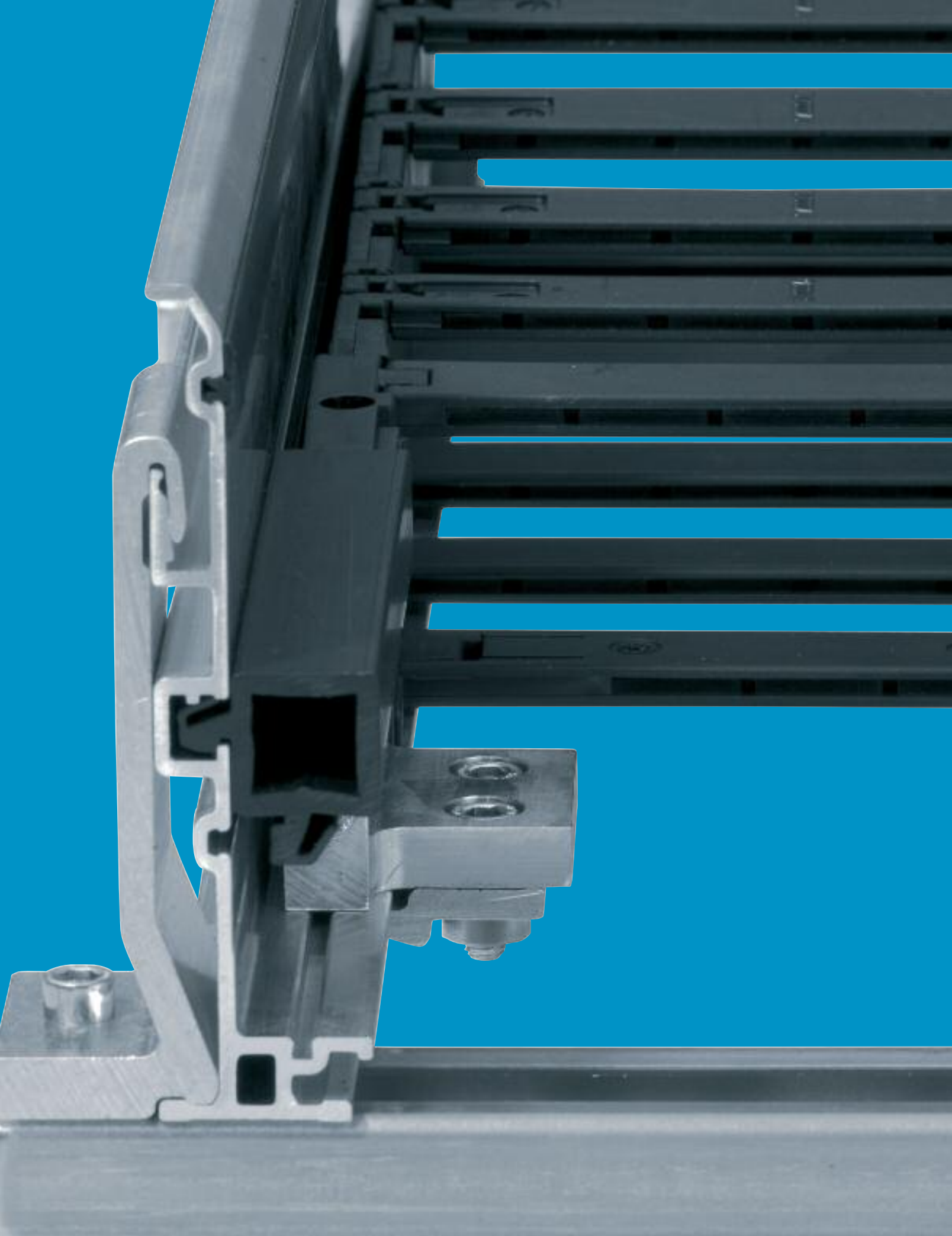
- Chips cannot get stuck between upper and lower run
- Enormous increase of „self supporting“ length of Energy Chains®



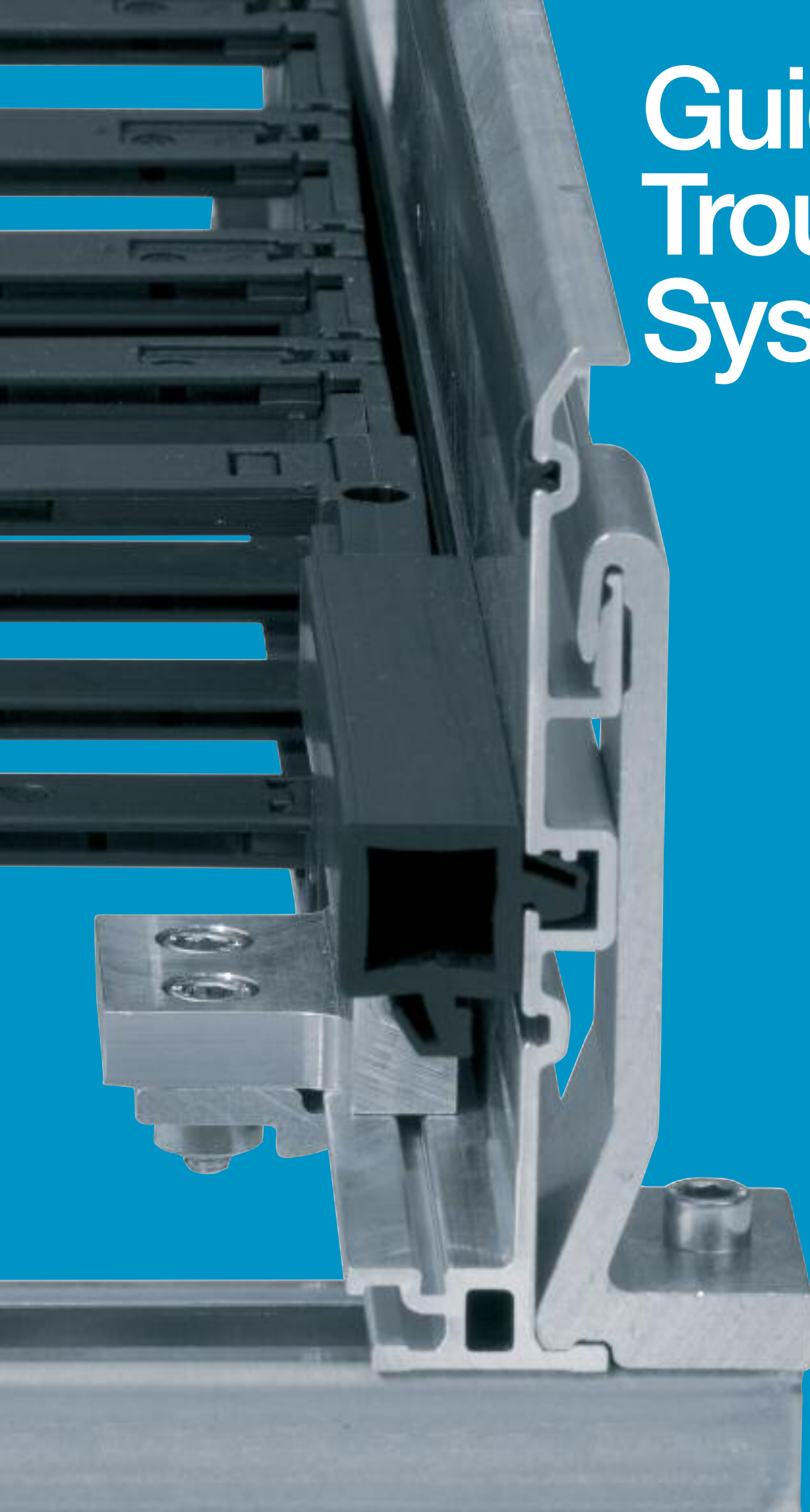
Micro Flizz® - Small Energy Chains® in aluminum profile

ONE compact system for a secure guidance of power, data and air

- Maintenance-free alternative for busbar
- Control via stationary switch cabinet possible



Guide Trough Systems





Connection of trough sections with igus® installation set



Various guide trough systems are available

Guide troughs are used for long travels from 16 - 33 ft (5-10 m) and greater, depending on the chain type. They allow igus® Energy Chain® and Energy Tubes to continue smooth, low-friction operation in these long-travel situations.

If the Energy Chains®/Tubes are installed in the center of the travel ("center-mounted"), they glide on themselves for half the travel. For the other half, we recommend glide bars, which are assembled in the trough and on which the Energy Chains®/Tubes glide. igus® guide troughs are available from stock with these highly abrasion-resistant polymer glide bars, which perform well with igus® Energy Chains® and Tubes regarding noise, abrasion and friction.

Materials

igus® offers guide troughs made of steel and aluminum. Which material to use depends on the application conditions and on the customers preference.

Delivery Options

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.

For additional overall system design information,

► **Design, Chapter 1**



Trough without glide bars:
Chain glides on chain



Guide trough with and without glide bars



Trough with glide bars:
Chain glides on glide bars

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® Energy 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 Energy 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.



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



New in this catalog: igus® Support Tray - for support of the lower run

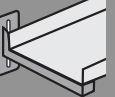
We are always happy to advise you by telephone or on site. Special solutions provided by igus® often result in significant assembly cost savings.

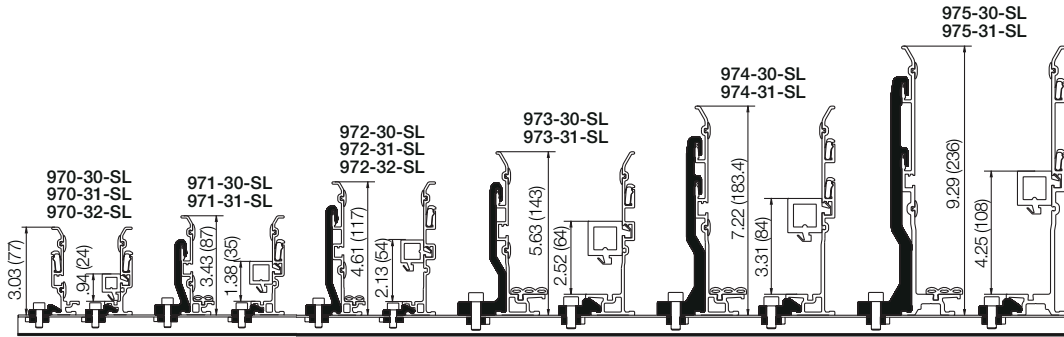
Guide Trough Systems - Selection Table



Selected Energy Chain	Chapter	Part No. Aluminum "SuperTrough"	Part No. Steel Guide Trough	Support Tray Available
10/B15-015	E2 mini	-	91-10	-
10/B15-025	E2 mini	-	91-20	-
10/B15-038	E2 mini	-	91-30	-
10/B15-050	E2 mini	-	91-40	-
10/B15-5	E2 mini	-	91-50	-
10/B15-6	E2 mini	-	91-60	-
10/B15-7	E2 mini	-	91-70	-
15-015	Zipper	-	91-10	-
15-025	Zipper	-	91-20	-
15-038	Zipper	-	91-30	-
15-050	Zipper	-	91-40	-
15-5	Zipper	-	91-50	-
15-6	Zipper	-	91-60	-
15-7	Zipper	-	91-70	-
1400/1450/1480/1500	E2/000	970-30-SL, 970-32-SL	-	✓
2480	E2/000	971-30-SL, 971-31-SL	92-30	✓
2680	E2/000	972-30-SL, 972-32-SL	95-30	✓
3480	E2/000	973-30-SL, 973-31-SL	93-30	✓
200/240/250	E2 medium	971-30-SL, 971-31-SL	92-30	✓
26/27i/27	E2 medium	972-30-SL, 972-32-SL	95-30	✓
340/350	E2 medium	973-30-SL, 973-31-SL	93-30	✓
R58 / R58	E2 Tubes	972-30-SL, 972-32-SL	95-30	-
R68 / R68	E2 Tubes	973-30-SL, 973-31-SL	93-30	-
E4-21	E4-1	970-30-SL, 970-32-SL	-	✓
E4-28/R4-28	E4-1	-	96-30	✓
E4-32/H4-32/R4-32	E4-1	972-30-SL, 972-31-SL	98-30	✓
E4-42/H4-42/R4-42	E4-1	973-30-SL, 973-31-SL	93-30	✓
E4-56/H4-56/R4-56	E4-1	974-30-SL, 974-31-SL	94-30	✓
E4-80/H4-80/R4-80	E4-1	975-30-SL, 975-31-SL	99-30	✓
840	E4-1	-	90-30	-
220/R760	E4/00	-	96-30	✓
280/290/R770	E4/00	972-30-SL, 972-31-SL	98-30	✓
380/390/R780	E4/00	973-30-SL, 973-31-SL	93-30	✓
400/410/R880	E4/00	974-30-SL, 974-31-SL	94-30	✓
600/601/R608/640	E4/00	-	97-30	-
800/840	E4/00	-	90-30	✓
2828/2928/R7728	E4/4	972-30-SL, 972-31-SL	98-30	✓
3838/3938/R7838	E4/4	973-30-SL, 973-31-SL	93-30	✓
4040/4140/R8840	E4/4	974-30-SL, 974-31-SL	94-30	✓
5050/5150/R9850	E4/4	975-30-SL, 975-31-SL	99-30	✓
14040/14140/R18840	E4/light	974-30-SL, 974-31-SL	94-30	✓
14240/14340	E4/light	974-30-SL, 974-31-SL	94-30	✓
15050/15150/R19850	E4/light	975-30-SL, 975-31-SL	99-30	✓
1640/1608	E4/light	-	97-30	✓
E6-29/R6-29	E6	971-30-SL, 971-31-SL	92-30	✓
E6-40/R6-40	E6	972-30-SL, 972-31-SL	98-30	✓
E6-52/R6-52	E6	973-30-SL, 973-31-SL	93-30	✓
E6-62	E6	974-30-SL, 974-31-SL	94-30	✓
E6-80 / E6-80L	E6	975-30-SL, 975-31-SL	96-30	✓

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 Specs/CAD/RFQ: www.igus.com/e-chains
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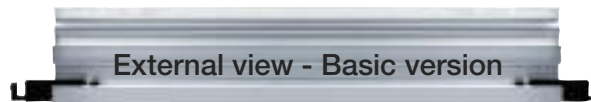
The Aluminum "SuperTrough" is a modular guide trough system for long travels. Aluminum "SuperTrough" is available in low cost "basic versions" and can be upgraded for heavy duty applications. **This universal usage makes it the igus® recommended new standard trough system.**

- Excellent wear and noise levels with igus® Energy Chains® - a 9.0 dB(A) noise reduction was achieved through Aluminum "SuperTrough" with noise reduction profile insert, in combination with optimized igus® Rol E-Chain®
- Very easy, universal assembly
- Multiple fastening options with heavy duty brackets, bottom clamps and interface connectors
- Glide strips for wear protection in high-speed
- Corrosion proof through seawater resistant aluminum
- Flexible assembly - connects to mounting surface, independent from profile length and location of trough section interfaces

Telephone 1-800-521-2747
Fax 1-401-438-7270

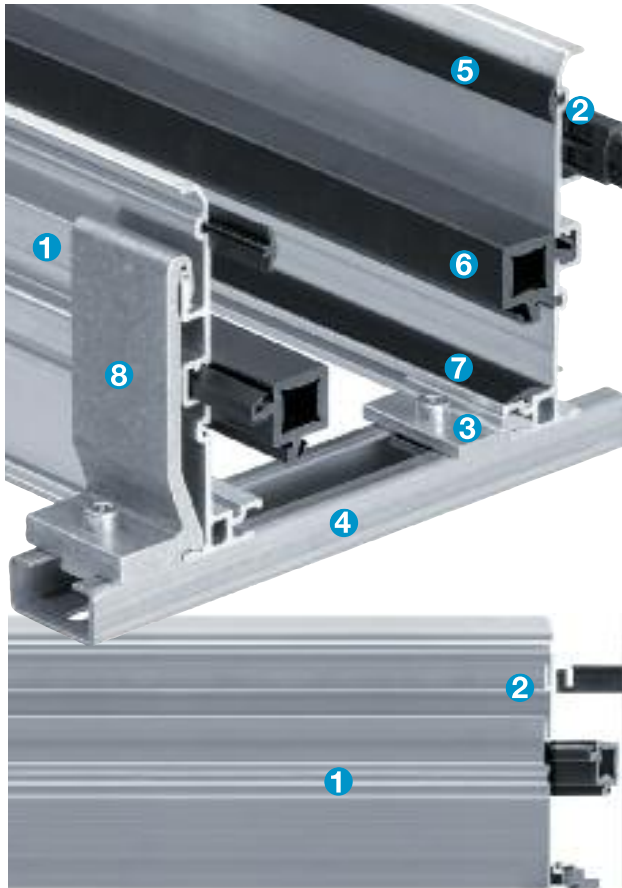
Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

Basic



Heavy





The Aluminum "SuperTrough" is a modular guide trough system for long travels. Aluminum "SuperTrough" is available in low cost "basic versions" and can be upgraded for heavy duty applications. **This universal usage makes it the igus® recommended new standard trough system.**



5 Glide strip

- Protect from wear on the sides
- Easy click-on assembly (tongue and groove), no tools needed

6 Polymer glide bar

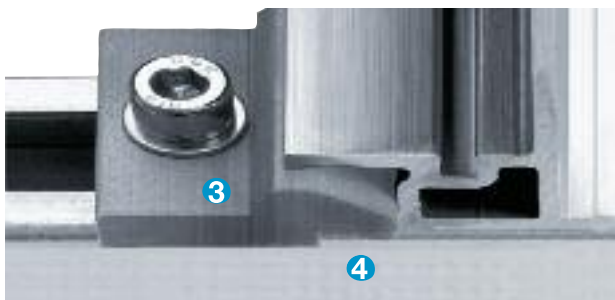
- Easy click-on assembly (tongue and groove), no tools needed

1 Aluminium profile

- Seawater resistant
- Corrosion resistant
- Standard 6.56 ft (2m) length

2 Interface connector

- Snap-on polymer connector
- Easy assembly, no tools needed



3 Bottom clamp

- Fast and easy single-bolt assembly
- Slider attached inwards or outwards, directly to the ground or onto a profile rail

4 profile rail

- Hold Bottom clamps or heavy duty brackets
- Available in zinc-plated or stainless steel



7 Silencer profile (Add-on item)

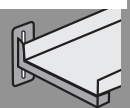
- Rubber profile insert for additional noise reduction



8 Heavy duty bracket (Add-on item)

- Safe grip for heavy duty operation
- Easy tongue and groove assembly
- Attached directly to ground or to profile rails

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFG: www.igus.com/e-chains
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A quick fix for mounting the stationary end of an Energy Chain®

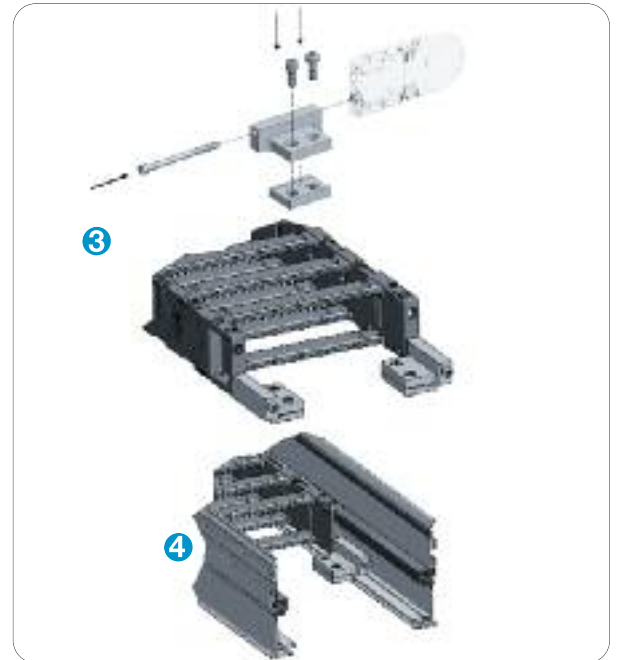
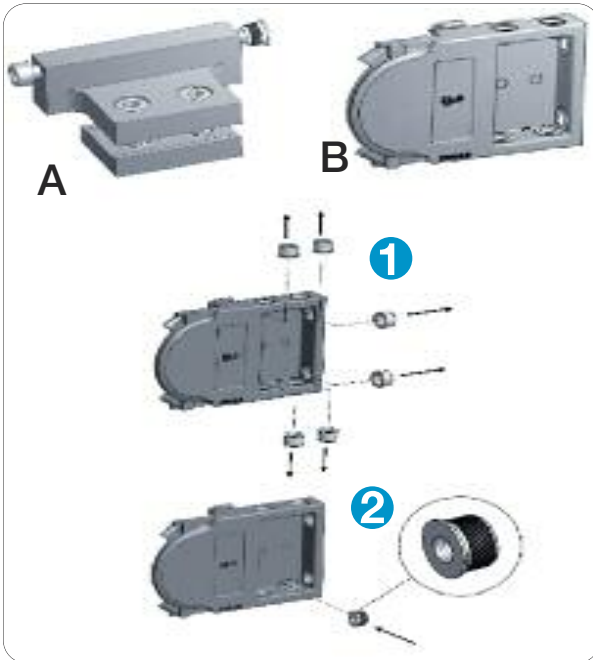


With this new module for the fixed end, fast and easy mounting onto the "SuperTrough" is now possible without any drilling.

- Fast mounting for the Energy Chain® by clamping onto the aluminum trough
- Quick relocation of the stationary end
- No drilling necessary

Installation - A) Fixed-end module, B) KMA-mounting bracket

- 1 Removing the pre-assembled metal bushings
- 2 Use of threaded bushings
- 3 Installation of fixed-end module
- 4 Mounting on aluminum "SuperTrough"



Fixed-end module - Simple fastening of the Energy Chain® without drilling

Part No.	SuperTrough	For Series
971-80	971-30-SL / 971-31-SL	2480
972-82	972-02-30-SL / 972-02-31-SL	220/R760
972-81	972-30-SL / 972-32-SL	2680
972-80	972-30-SL / 972-31-SL	280/290/R770, 2828/2928/R7728, E6-40
973-81	973-30-SL / 973-31-SL	380/390/R780, 3838/3938/R7838, E6-52/R6-52
973-80	973-30-SL / 973-31-SL	3480
974-81	974-30-SL / 974-31-SL	14040/14140/R18840, 14240/14340
974-80	974-30-SL / 974-31-SL	400/410/R880, 4040/4140/R8840, E6-62
975-80	975-30-SL / 975-31-SL	5050/5150/R9850, 15050/15150/R19850, E6-80/E6-80L



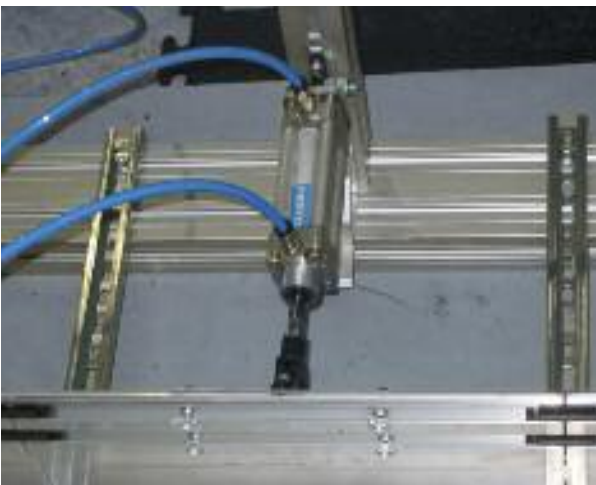
The igus® aluminum "SuperTrough" has been tested since 2005.
Test "Axis 1": Speed 4.92 ft/s (1.5 m/s), Travel: 59 ft (18m), Mileage to date: approximately 31,069 miles (50,000 km)



Test - Glide strips minimize wear after 1,653,187 cycles, 2,672 miles (4,300 km)

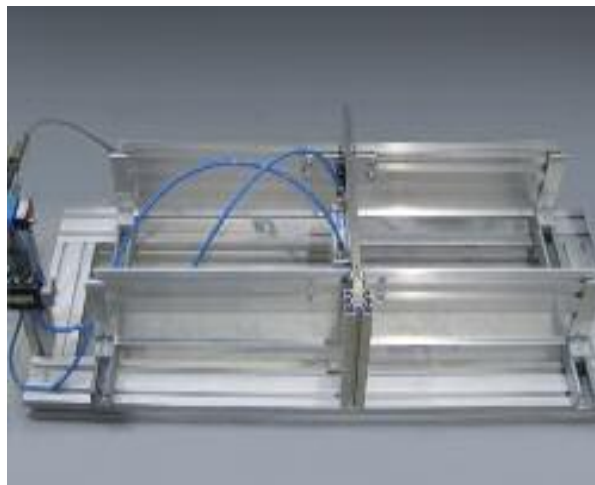


Vibration test: No shifting of trough sections after 108,000,000 rotations at 658 rpm.



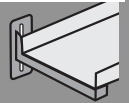
Test - Interface connector

- Push/pull force of 80 psi
- 9,890,000 cycles without shifting of the connector



Alternating push - and pull force of 90 psi is induced on 2 trough side parts, with no deformation after 1,700,000 cycles

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Specs/CAD/RFG: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



Installation Sets | Basic and Heavy Duty



Installation Set Basic



Installation Set Heavy Duty

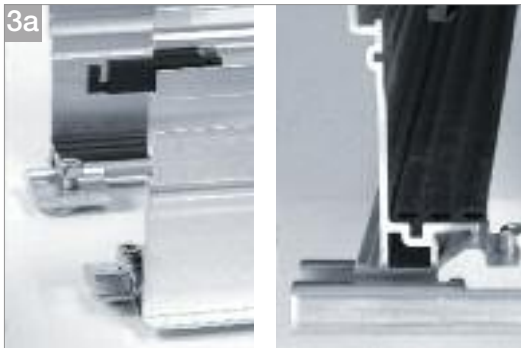
Installation Set | Basic (Standard)



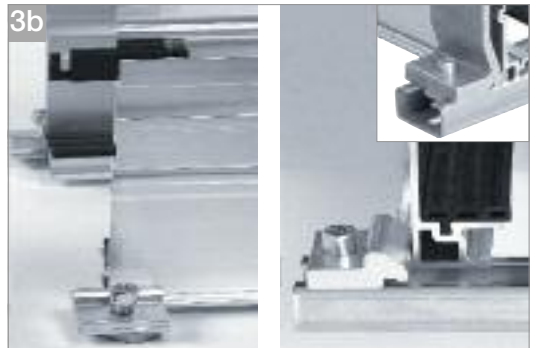
1 Pre-assemble clamp and screw



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



Fasten Basic assembly set inside 3 a or outside 3 b (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



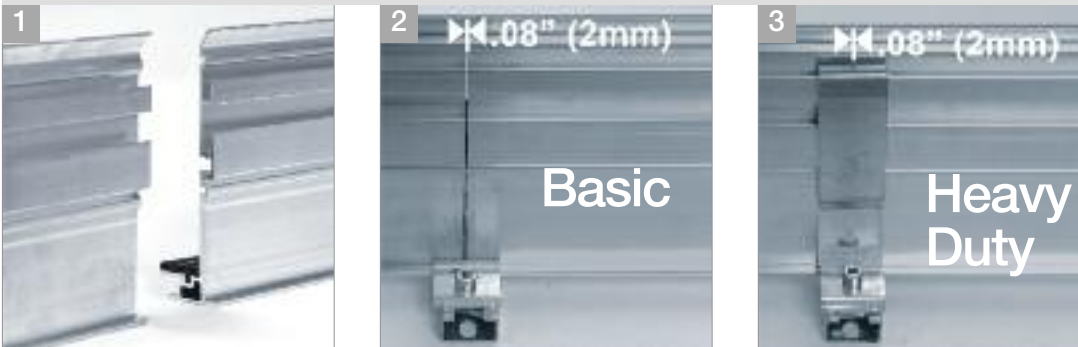
2 Fasten Heavy Duty assembly set outside. Please note: half the length of the assembly set and connector must protrude out of the trough.

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

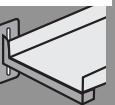
Adjusting the tolerance and aligning trough sections



- ❶ Adjust the necessary minimum "chain/trough" tolerance of .08" (2mm) on both sides. Please note: the inner width B_{in} of the trough decreases .08" (2mm) per side with the assembled glide strip (pictured)
- ❷ Test to ensure the Energy 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: www.igus.com/e-chain-pdfs
Specs/CAD/RFG: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



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

For the following Energy Chains®/Energy Tubes

System E2 Series

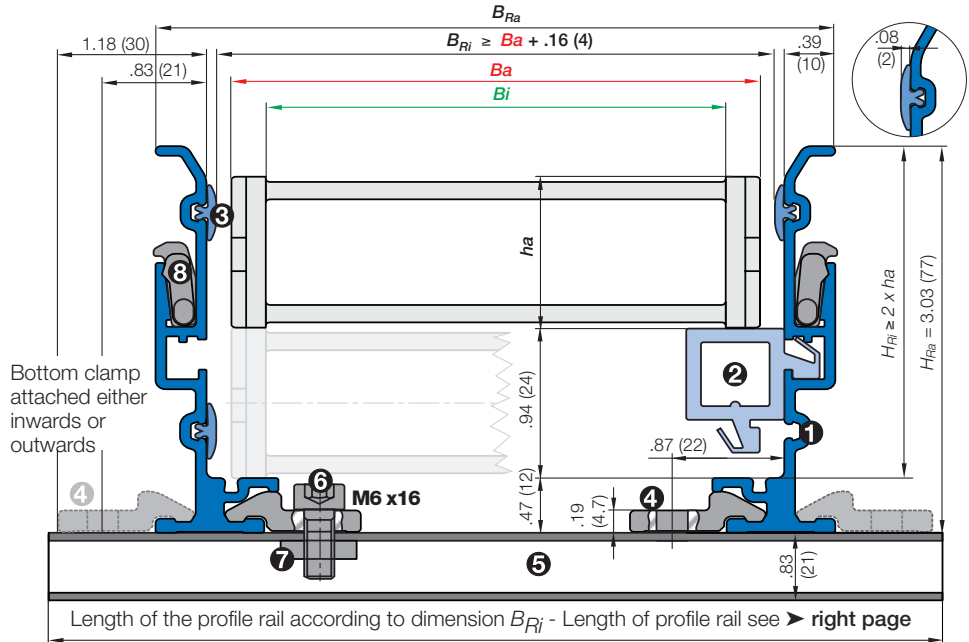
● 10

● 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":**

- 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 "Basic":**

- ④ Bottom clamp, aluminum
- ⑤ profile rail, steel galvanized
- ⑥ Screw M6 x20
- ⑦ Sliding nut M6
- ⑧ Interface connector, plastic

Basic Version: Components

Complete guide trough sets - description

	Part No.	Weight
	(lbs)	
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_____	1.23 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

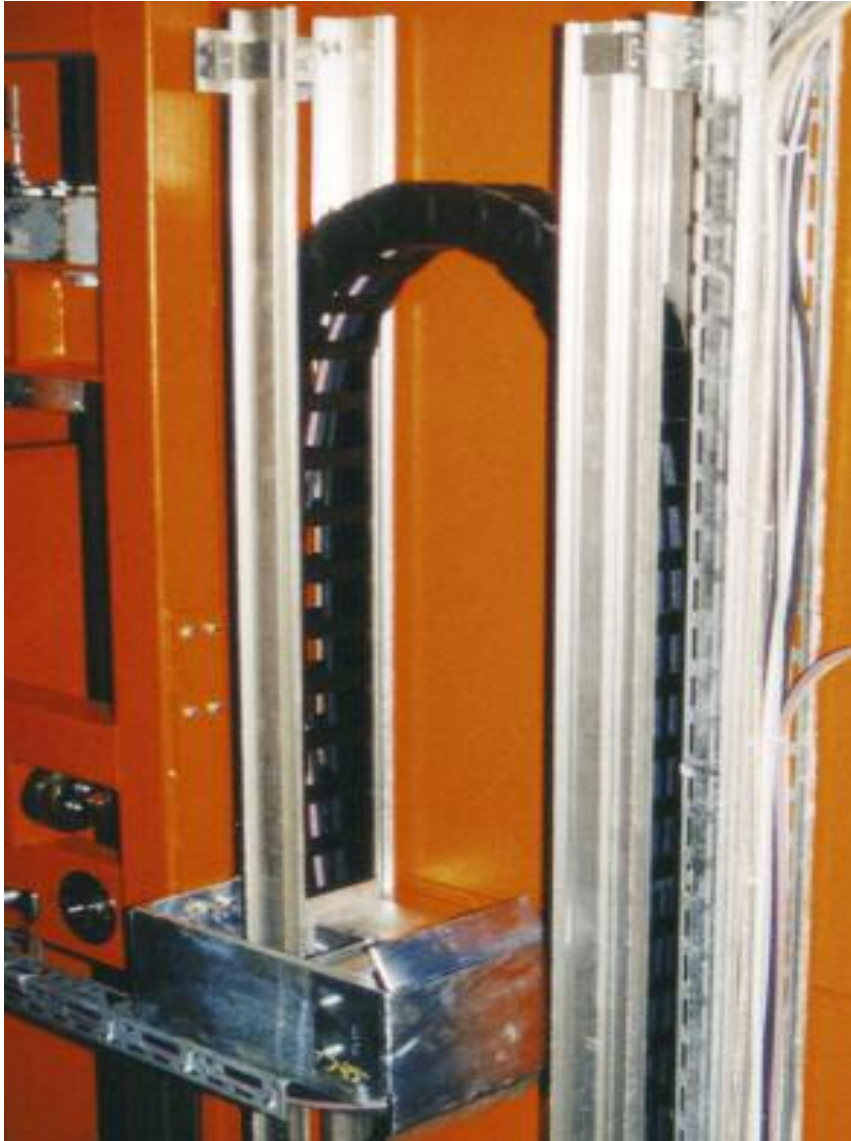
igus® Energy Chain System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

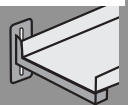
Lengths of profile rail - Basic Version - Bottom Clamp attached either **inwards** or **outwards**

10				B15				15/R15			
10-5-038-0				B15-5-038-0				15-5-038-0			
	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards		B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards		B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-015	1.18 (30)	*	960-30-125	-015	1.18 (30)	*	960-30-125	-015	1.18 (30)	*	960-30-125
-025	1.57 (40)	*	960-30-150	-025	1.57 (40)	*	960-30-150	-025	1.57 (40)	*	960-30-150
-038	2.09 (53)	*	960-30-150	-038	2.09 (53)	*	960-30-150	-038	2.09 (53)	*	960-30-150
-050	2.56 (65)	960-30-125	960-30-175	-050	2.56 (65)	960-30-125	960-30-175	-050	2.56 (65)	960-30-125	960-30-175
-5	3.15 (80)	960-30-125	960-30-175	-5	3.15 (80)	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	-6	3.86 (98)	960-30-150	960-30-200	-6	3.86 (98)	960-30-150	960-30-200
-7	4.61 (117)	960-30-175	960-30-225	-7	4.61 (117)	960-30-175	960-30-225	-7	4.61 (117)	960-30-175	960-30-225



Energy 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

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 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



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

For the following Energy Chains®/Energy Tubes

System E2 Series

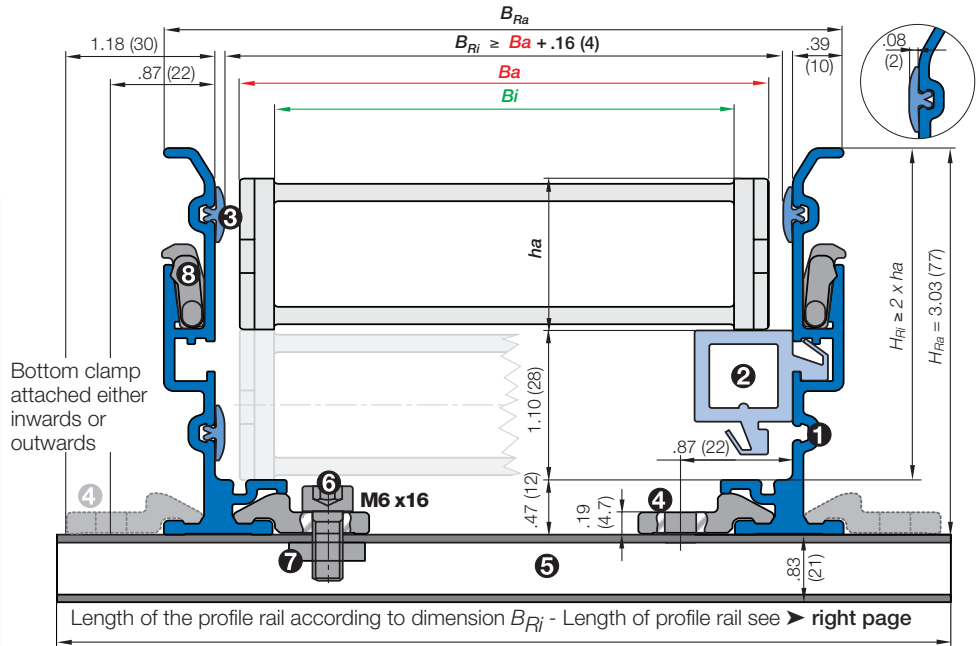
- 1400/1450/1480/1500

System E4-1 Series

- E4-21

- 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)
- ! $H_{Ri} \geq 2 \cdot ha$
- ! $B_{Ri} \geq Ba + 4$

- = 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 x20
- 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	82-79	
1 profile rail, individual	92-52G___	1.23 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

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

1400/1450/1480/1500

1500-050-035-0

	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

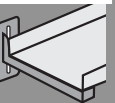
E4-21-080-100-0

	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



Seawater resistant aluminum “SuperTrough” in a RTG-crane. Long travel with the E4/4 Energy Chain System®.

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



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
- 200/240/250

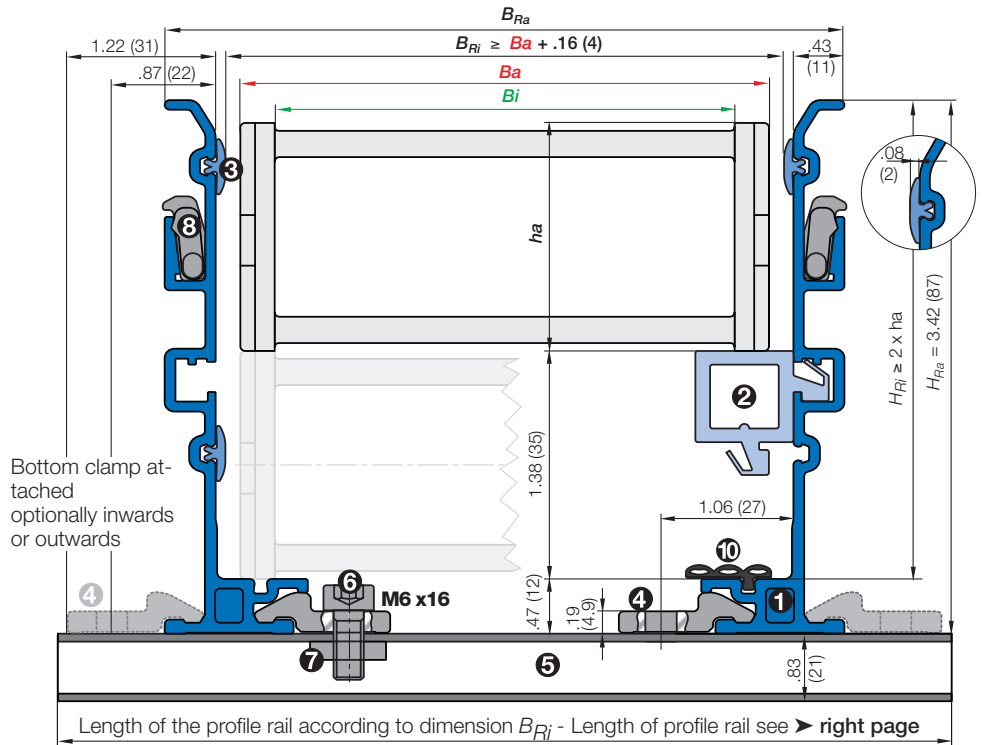
System E2 Tube Series:

- R48

System E6 Series:

- E6-29/R6-29

- 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 \blacktriangleright depends on dim. Ba
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- !** $H_{Ri} \geq 2 \cdot ha$
- !** $B_{Ri} \geq Ba + 4$
- = 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
 - 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	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 lbks
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 ___	≈ 1.23 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}

\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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Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

240/250/2480

240-02-200-0

	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
-05	3.03 (77)	960-30-125	960-30-175
-07	3.82 (97)	960-30-150	960-30-200
-09	4.29 (109)	960-30-175	960-30-225
-10	4.84 (123)	960-30-175	960-30-225
-12	5.71 (145)	960-30-200	960-30-250
*Upon request			

E6-29

E6-29-030-100-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-030	1.97 (50)	*	960-30-150
-040	2.36 (60)	*	960-30-175
-050	2.76 (70)	*	960-30-175
-060	3.15 (80)	960-30-150	960-30-175
-070	3.54 (90)	960-30-150	960-30-200
-080	3.94 (100)	960-30-150	960-30-200
-090	4.33 (110)	960-30-175	960-30-225
-100	4.72 (120)	960-30-175	960-30-225
-110	5.12 (130)	960-30-200	960-30-225
-120	5.51 (140)	960-30-200	960-30-250
*Upon request			

R6-29

R6-29-030-100-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-030	1.97 (50)	*	960-30-150
-050	2.76 (70)	*	960-30-175
-060	3.15 (80)	960-30-150	960-30-175
-080	3.94 (100)	960-30-150	960-30-200
-100	4.72 (120)	960-30-175	960-30-225
-110	5.12 (130)	960-30-200	960-30-225
-120	5.51 (140)	960-30-200	960-30-250

For the "Heavy Duty" installation set:

Insert Part No. **971-50-___**

instead of **960-30-___**

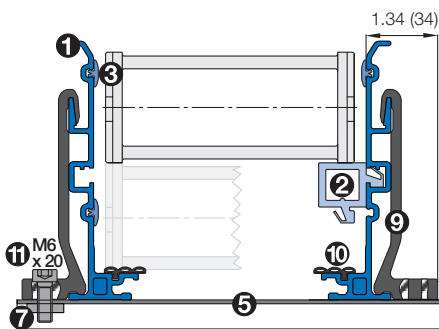
on the right column "attached outwards"

R48

48-050-100-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-025	1.57 (40)	*	960-30-150
-050	2.56 (65)	*	960-30-175
-075	3.54 (90)	960-30-150	960-30-200
-100	4.53 (115)	960-30-175	960-30-225
-130	5.71 (145)	960-30-200	960-30-250

Heavy Duty Version - Installation Set Part No. 971-50



● 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

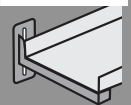
● Components, installation set "Heavy Duty":

- ⑤ profile rail, steel galvanized
- ⑦ Sliding nut M6
- ⑨ Heavy duty bracket, aluminum
- ⑪ 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. 972-30-SL and 972-31-SL Trough Height: 4.61 in. (117 mm)
Aluminum "SuperTrough" — Basic Version

For the following Series

System E4 Series:

- 280/290/R770
- 2828/2928/R7728

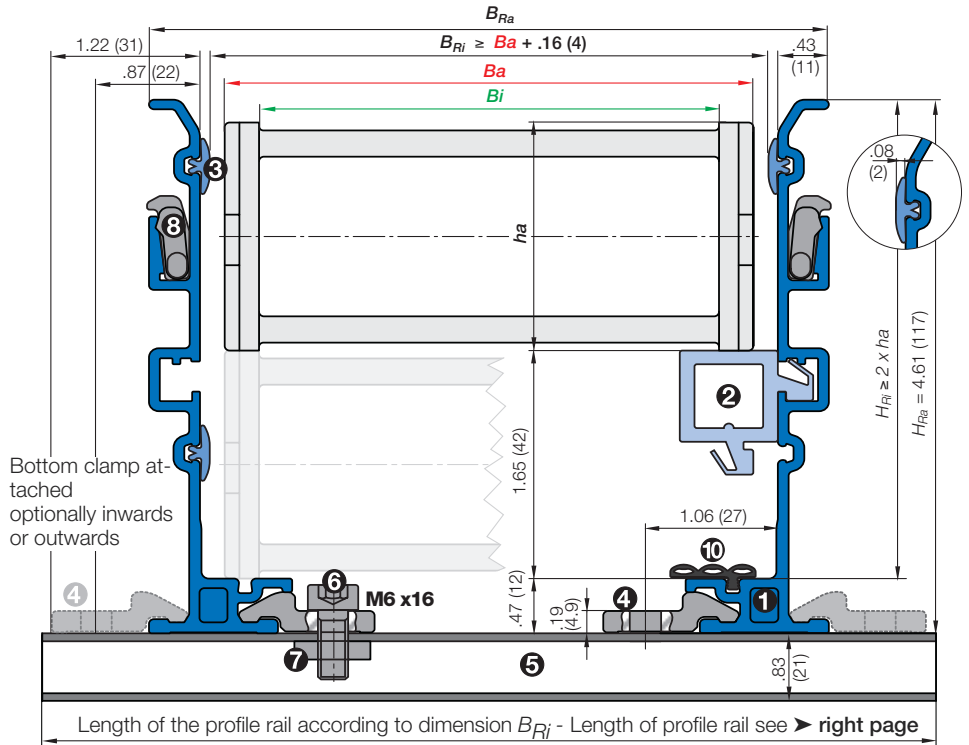
System E6 Series:

- E6-40/R6-40

System E4-1 Series

- E4-32/H4-32/R4-32

- 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
- 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	972-30-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	92-52G___	≈ 1.23 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



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Guide Trough Systems Aluminum "SuperTrough"

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**



280/290/R770 E4-32/H4-32/R4-32

280-05-200-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	3.03 (77)	960-30-125	960-30-175
-06	3.74 (95)	960-30-150	960-30-200
-07	4.02 (102)	960-30-150	960-30-200
-087	4.49 (114)	960-30-175	960-30-225
-10	5.00 (127)	960-30-175	960-30-225
-11	5.31 (135)	960-30-200	960-30-250
-112	5.51 (140)	960-30-200	960-30-250
-12	5.98 (152)	960-30-200	960-30-250
-137	6.50 (165)	960-30-225	960-30-275
-15	6.97 (177)	960-30-225	960-30-275
-162	7.48 (190)	960-30-250	960-30-300
-17	7.68 (195)	960-30-250	960-30-300
-18	7.95 (202)	960-30-250	960-30-300
-187	8.46 (215)	960-30-275	960-30-325
-20	8.94 (227)	960-30-275	960-30-325
-212	9.45 (240)	960-30-300	960-30-350
-23	9.92 (252)	960-30-300	960-30-350
-237	10.43 (265)	960-30-325	960-30-375
-25	10.91 (277)	960-30-325	960-30-375
-262	11.42 (290)	960-30-350	960-30-400
-28	11.89 (302)	960-30-350	960-30-400
-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

2828/2928/R7728

2828-05-200-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	3.07 (78)	960-30-125	960-30-175
-06	3.78 (96)	960-30-150	960-30-200
-07	4.06 (103)	960-30-150	960-30-200
-087	4.53 (115)	960-30-175	960-30-225
-10	5.04 (128)	960-30-175	960-30-225
-11	5.35 (136)	960-30-200	960-30-225
-112	5.55 (141)	960-30-200	960-30-250
-12	6.02 (153)	960-30-200	960-30-250
-137	6.54 (166)	960-30-225	960-30-275
-15	7.01 (178)	960-30-225	960-30-275
-162	7.52 (191)	960-30-250	960-30-300
-17	7.72 (196)	960-30-250	960-30-300
-18	7.99 (203)	960-30-250	960-30-300
-187	8.50 (216)	960-30-275	960-30-325
-20	8.98 (228)	960-30-275	960-30-325
-212	9.49 (241)	960-30-300	960-30-350
-23	9.96 (253)	960-30-300	960-30-350
-237	10.47 (266)	960-30-325	960-30-375
-25	10.94 (278)	960-30-325	960-30-375
-262	11.46 (291)	960-30-350	960-30-400
-28	11.93 (303)	960-30-350	960-30-400
-29	12.44 (316)	960-30-375	960-30-425
-30	12.91 (328)	960-30-375	960-30-425
-312	13.43 (341)	960-30-400	960-30-450
-325	13.90 (353)	960-30-400	960-30-450
-337	14.41 (366)	960-30-425	960-30-475
-350	14.88 (378)	960-30-425	960-30-475
-362	15.39 (391)	960-30-450	960-30-500
-375	15.87 (403)	960-30-450	960-30-500
-387	16.38 (416)	960-30-475	960-30-525
-400	16.85 (428)	960-30-475	960-30-525

E6-40

E6-40-040-063-0

	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	3.70 (94)	960-30-150	960-30-200
-075	3.90 (99)	960-30-150	960-30-200
-087	4.37 (111)	960-30-175	960-30-225
-100	4.88 (124)	960-30-175	960-30-225
-125	5.87 (149)	960-30-200	960-30-250
-150	6.85 (174)	960-30-225	960-30-275
-175	7.83 (199)	960-30-250	960-30-300
-200	8.82 (224)	960-30-275	960-30-325
-225	9.80 (249)	960-30-300	960-30-350
-250	10.78 (274)	960-30-325	960-30-375
-275	11.77 (299)	960-30-350	960-30-400
-300	12.76 (324)	960-30-375	960-30-425

*Upon request

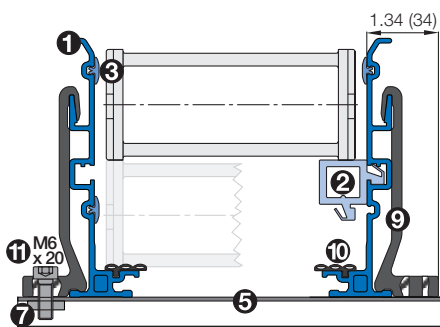
R6-40

R6-40-062-063-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-062	3.39 (86)	960-30-150	960-30-200

- For the "Heavy Duty" installation set:
Insert Part No. **972-50-_____**
instead of **960-30-_____**
on the right column "attached outwards"

Heavy Duty Version - Installation Set Part No. 972-50

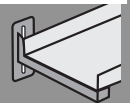


- **Components, trough "Heavy Duty":**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic 6.56 ft. (2m)
(without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set "Heavy Duty":**
 - 5 profile rail, steel galvanized
 - 7 Sliding nut M6
 - 9 Heavy duty bracket, aluminum
 - 11 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. 972-30-SL and 972-32-SL Trough Height: 4.61 in. (117 mm)
Aluminum "SuperTrough" — Basic Version

For the following Series

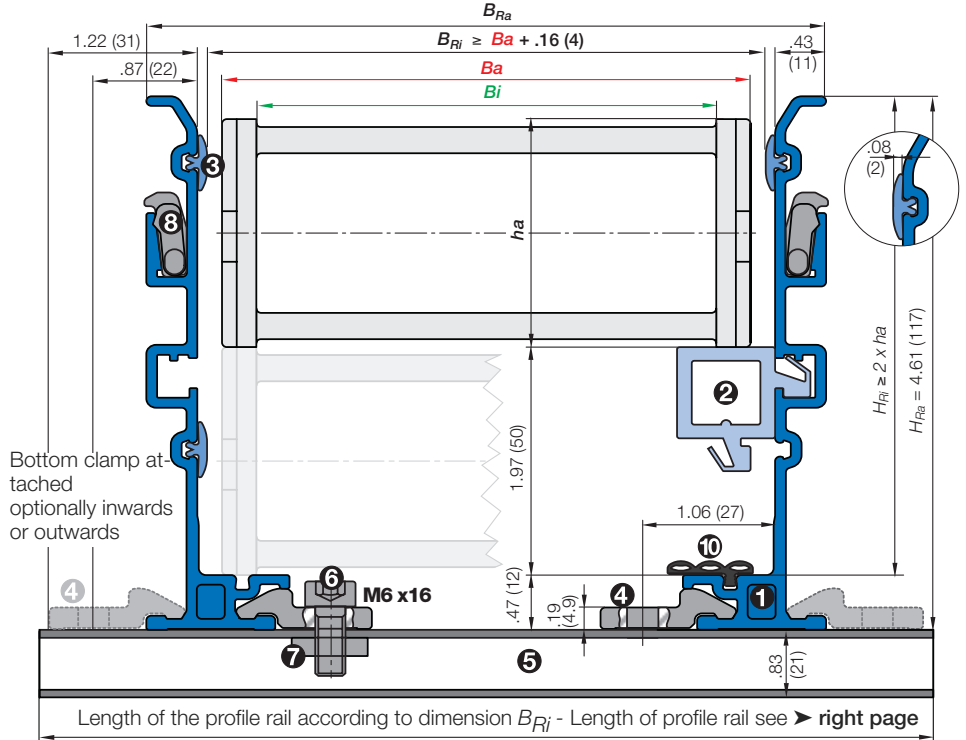
System E2 Series:

- 2680
- 26/27i/27

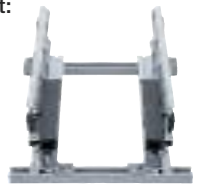
System E2 Tube Series:

- 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
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
- 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	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

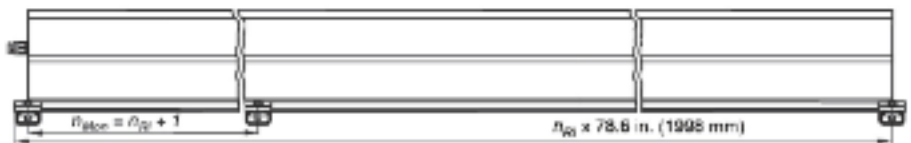
1 Glide strip, individual, 6.56 ft. (2m) section	75-01	≈ .13 lbs
1 Bottom clamp, individual	75-40	≈ .07 lbs
1 Interface connector, individual	75-60	
1 Screw M6 x 20, individual	M6X20SOCKETCAP	
1 Sliding nut M6, individual	ZBNUT-LG	
2 Glide bars, 6.56 ft. (2m) sections	82-79	≈
1 profile rail, individual	92-52G ___	≈ 1.23 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



igus® Energy Chain System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**

2680

2680-05-200-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	2.76 (70)	*	960-30-175
-06	3.35 (85)	960-30-150	960-30-200
-07	3.74 (95)	960-30-150	960-30-200
-09	4.33 (110)	960-30-175	960-30-225
-10	4.72 (120)	960-30-175	960-30-225
-12	5.71 (145)	960-30-200	960-30-250
-15	6.69 (170)	960-30-225	960-30-275
-17	7.79 (198)	960-30-250	960-30-300

R58

58-075-200-0

	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-050	2.76 (70)	*	960-30-175
-075	3.74 (95)	960-30-150	960-30-200
-100	4.72 (120)	960-30-175	960-30-225
-125	5.71 (145)	960-30-200	960-30-250
-150	6.69 (170)	960-30-225	960-30-275
-175	7.58 (195)	960-30-250	960-30-300
-200	8.66 (220)	960-30-275	960-30-325

26/27i/27

26-05-200-0

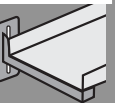
	B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	2.76 (70)	960-30-125	960-30-175
-07	3.74 (95)	960-30-150	960-30-200
-10	4.72 (120)	960-30-175	960-30-225
-12	5.71 (145)	960-30-200	960-30-250
-15	6.69 (170)	960-30-225	960-30-275
-17	7.79 (198)	960-30-250	960-30-300
-20	8.78 (223)	960-30-275	960-30-325



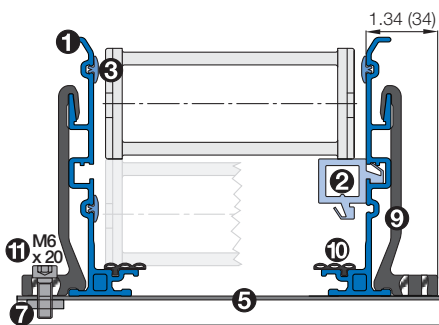
Stable guidance without oscillation. Because of the compact design of the aluminum "SuperTrough" the need for space along the travel path is small.

Travel 105 ft. (32 m) Crane operating speed 262 ft./min. (80 m/min).

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



Heavy Duty Version - Installation Set Part No. 972-50



● 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 M6
- ⑨ Heavy duty bracket, aluminum
- ⑪ 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. 973-30-SL and 973-31-SL Trough Height: 5.67 in. (144 mm)
Aluminum "SuperTrough" — Basic Version

igus® Energy Chain System®

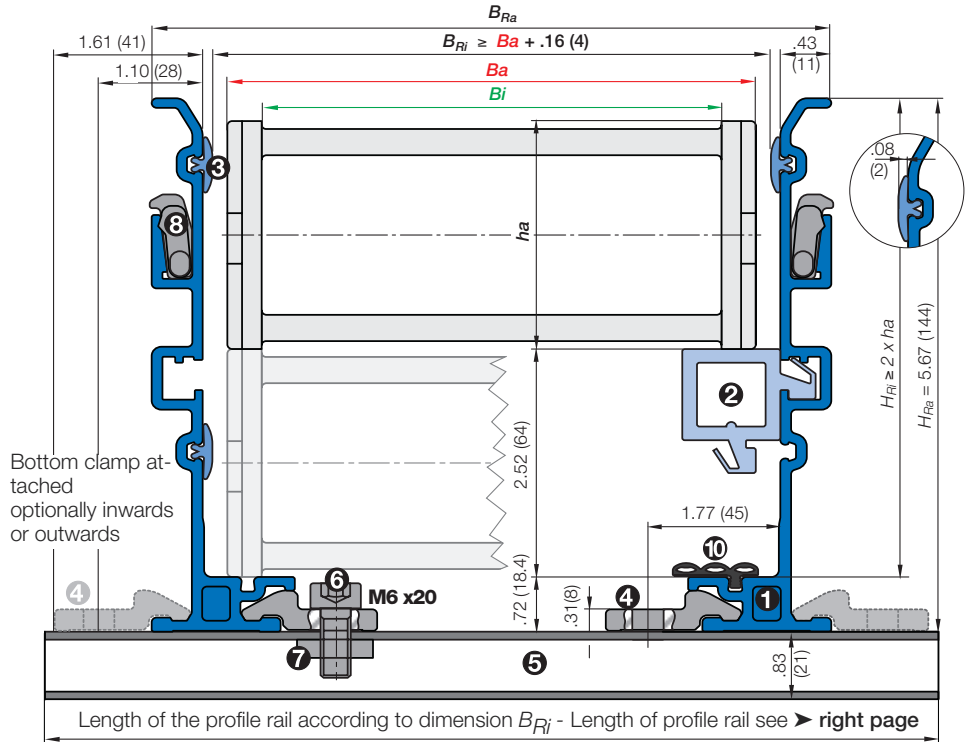
Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

For the following Series

- System E2 Series:**
 - 3480
 - 340/350
- System E2 Tube Series:**
 - R68
- System E4 Series:**
 - 380/390/R780
 - 3838/3938/R7838
- System E6 Series:**
 - E6-52/R6-52
- System E4-1 Series:**
 - E4-42/H4-42/R4-42

- 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 bars 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	92-52G___	≈ 1.23 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



Guide Trough Systems Aluminum "SuperTrough"

Lengths of profile rail - Basic Version

Bottom Clamp can be attached either **inwards** or **outwards**



340/350/3480

340-050-200-0

B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-050	2.91 (74) *	960-40-200
-075	3.90 (99) *	960-40-225
-100	4.88 (124)	960-40-175 960-40-250
-115	5.47 (139)	960-40-200 960-40-275
-125	5.87 (149)	960-40-200 960-40-275
-150	6.85 (174)	960-40-225 960-40-300
-175	7.83 (199)	960-40-250 960-40-325
-200	8.82 (224)	960-40-275 960-40-350
-225	9.80 (249)	960-40-300 960-40-375
-250	10.79 (274)	960-40-325 960-40-400

R68

68-050-200-0

B_{Ri} in. (mm)	Part No. attached inwards	Part No. 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

380/390/R780

E4-42/H4-42/R4-42

380-05-200-0

B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	3.15 (80) *	960-40-200
-06	3.86 (98) *	960-40-225
-07	4.13 (105) *	960-40-225
-087	4.65 (118)	960-40-175 960-40-250
-10	5.12 (130)	960-40-200 960-40-250
-11	5.43 (138)	960-40-200 960-40-275
-112	5.63 (143)	960-40-200 960-40-275
-12	6.10 (155)	960-40-225 960-40-275
-137	6.61 (168)	960-40-225 960-40-300
-15	7.09 (180)	960-40-250 960-40-300
-162	7.60 (193)	960-40-250 960-40-325
-17	7.80 (198)	960-40-250 960-40-325
-18	8.07 (205)	960-40-275 960-40-325
-187	8.58 (218)	960-40-275 960-40-350
-20	9.06 (230)	960-40-300 960-40-350
-212	9.57 (243)	960-40-300 960-40-375
-23	10.04 (255)	960-40-325 960-40-375
-237	10.55 (268)	960-40-325 960-40-400
-25	11.02 (280)	960-40-350 960-40-400
-262	11.54 (293)	960-40-350 960-40-425
-28	12.01 (305)	960-40-375 960-40-425
-29	12.52 (318)	960-40-375 960-40-450
-30	12.99 (330)	960-40-400 960-40-450
-312	13.50 (343)	960-40-400 960-40-475
-325	13.98 (355)	960-40-425 960-40-475
-337	14.49 (368)	960-40-425 960-40-500
-350	14.96 (380)	960-40-450 960-40-500
-362	15.47 (393)	960-40-450 960-40-525
-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

3838/3938/R7838

3838-05-200-0

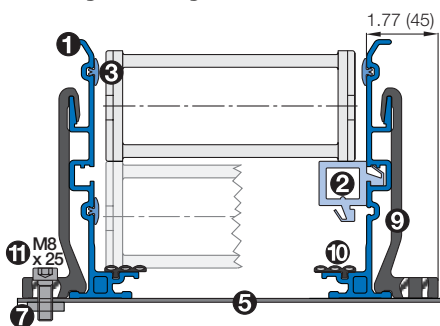
B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-05	3.19 (81) *	960-40-200
-06	3.90 (99) *	960-40-225
-07	4.17 (106) *	960-40-225
-087	4.69 (119)	960-40-175 960-40-250
-10	5.16 (131)	960-40-200 960-40-250
-11	5.47 (139)	960-40-200 960-40-275
-112	5.67 (144)	960-40-200 960-40-275
-12	6.14 (156)	960-40-225 960-40-275
-137	6.65 (169)	960-40-225 960-40-300
-15	7.13 (181)	960-40-250 960-40-300
-162	7.64 (194)	960-40-250 960-40-325
-17	7.83 (199)	960-40-250 960-40-325
-18	8.11 (206)	960-40-275 960-40-325
-187	8.62 (219)	960-40-275 960-40-350
-20	9.09 (231)	960-40-300 960-40-350
-212	9.61 (244)	960-40-300 960-40-375
-23	10.08 (256)	960-40-325 960-40-375
-237	10.59 (269)	960-40-325 960-40-400
-25	11.06 (281)	960-40-350 960-40-400
-262	11.57 (294)	960-40-350 960-40-425
-28	12.05 (306)	960-40-375 960-40-425
-29	12.56 (319)	960-40-375 960-40-450
-30	13.03 (331)	960-40-400 960-40-450
-312	13.54 (344)	960-40-400 960-40-475
-325	14.02 (356)	960-40-425 960-40-475
-337	14.53 (369)	960-40-425 960-40-500
-350	15.00 (381)	960-40-450 960-40-500
-362	15.51 (394)	960-40-450 960-40-525
-375	15.98 (406)	960-40-475 960-40-525
-387	16.50 (419)	960-40-475 960-40-550
-400	16.97 (431)	960-40-500 960-40-550

E6-52/R6-52

E6-52-040-200-0

B_{Ri} in. (mm)	Part No. attached inwards	Part No. attached outwards
-040	2.68 (68) *	960-40-200
-050	3.07 (78) *	960-40-200
-062	3.54 (90) *	960-40-225
-070	3.86 (98) *	960-40-225
-075	4.06 (103) *	960-40-225
-100	5.04 (128)	960-40-175 960-40-250
-125	6.02 (153)	960-40-200 960-40-275
-150	7.01 (178)	960-40-225 960-40-300
-175	7.99 (203)	960-40-250 960-40-325
-200	8.98 (228)	960-40-275 960-40-350
-225	9.96 (253)	960-40-300 960-40-375
-250	10.94 (278)	960-40-325 960-40-400
-275	11.92 (303)	960-40-350 960-40-425
-300	12.91 (328)	960-40-375 960-40-450

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 1-1/8"

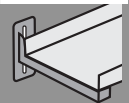


- = Guide trough
- = Glide bar
- = Installation set "Heavy duty"
- = profile rail

For the "Heavy Duty" installation set:
Insert Part No. **973-40-_____** instead of **960-40-_____**
on the right column "attached outwards"

Note: Dimensions similar to Basic version!
Exception: Heavy duty bracket, see drawing

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



Part No. 974-30-SL and 974-31-SL Trough Height: 7.24 in. (184 mm)
Aluminum "SuperTrough" — Basic Version

igus® Energy Chain System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

For the following Series

System E4 Series:

- 400/410/R880
- 4040/4140/R8840
- 14040/14140/R18840
- 14240/14340

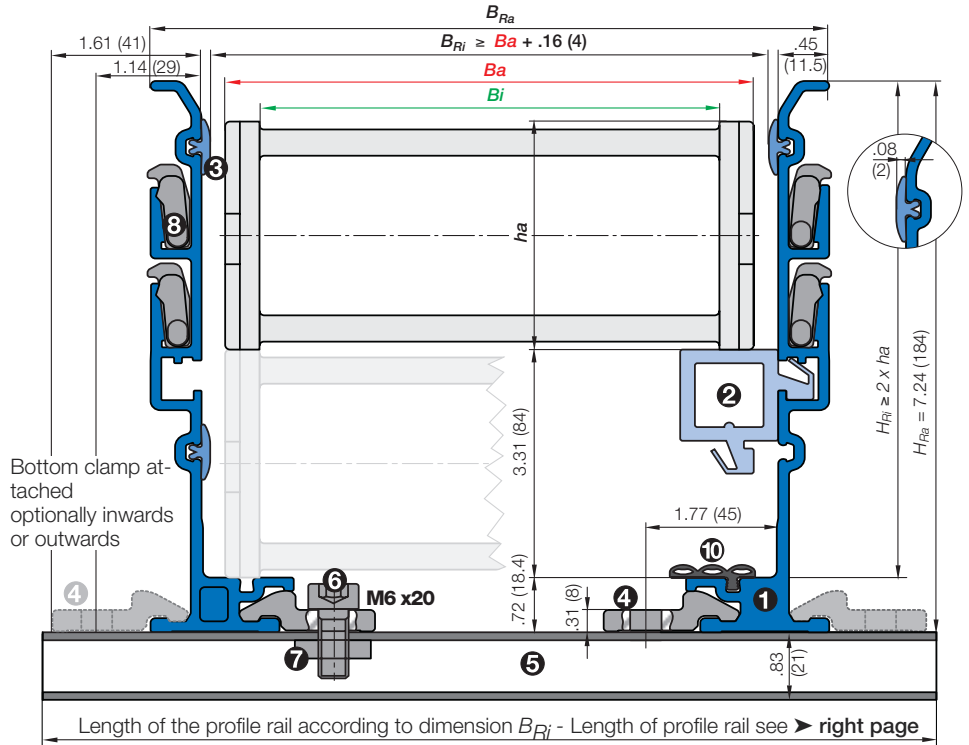
System E6 Series:

- E6-62

System E4-1 Series

- E4-56/H4-56/R4-56

- 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 \blacktriangleright depends on dim. Ba
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- $H_{Ri} \geq 2 \cdot ha$
- $B_{Ri} \geq Ba + 4$
- = 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 bars on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw 5/16 x 1-1/8"
 - 7 Sliding nut 5/16
 - 8 Interface connector, plastic

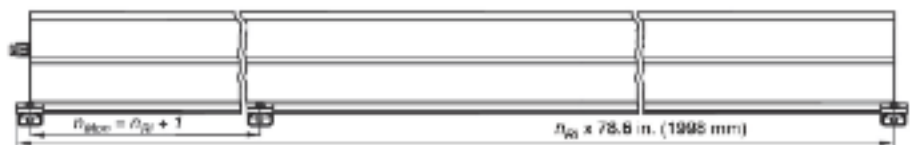


Basic version: Aluminum "SuperTrough" components

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	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 1-1/8", 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	92-52G_____	≈ 1.23 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: <http://www.igus.com>
 email: sales@igus.com
 QuickSpec: <http://www.igus.com/quickspec>

Part No. 975-30-SL and 975-31-SL Trough Height: 9.29 in. (236 mm)
Aluminum "SuperTrough" — Basic Version

igus® Energy Chain System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

For the following Series

System E4 Series:

- 5050/5150/R9850
- 15050/15150/R19850

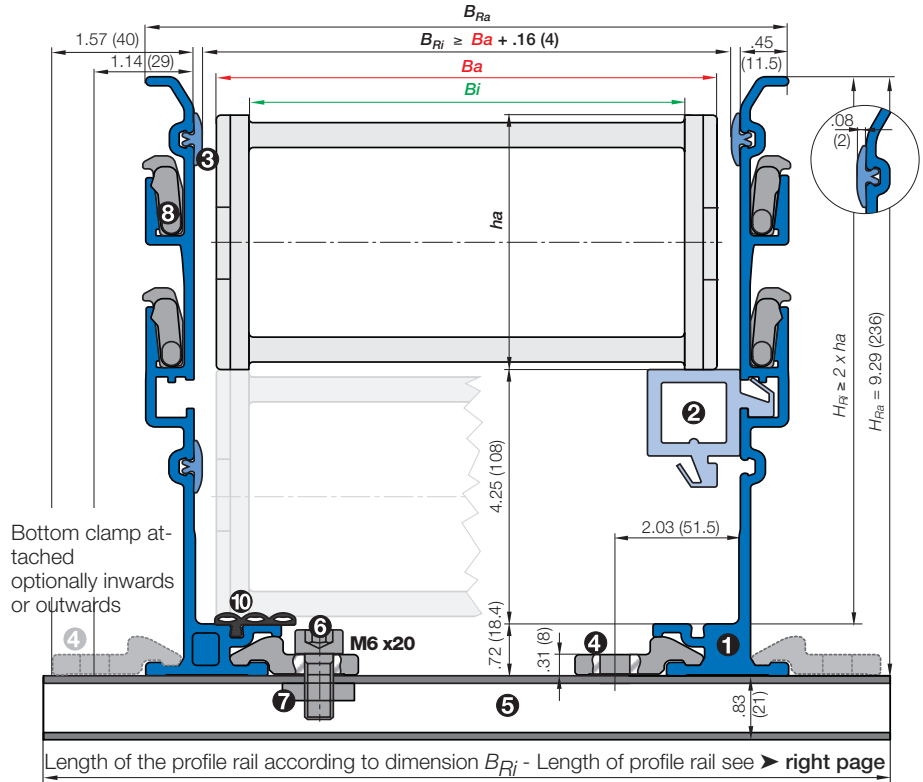
System E6 Series:

- E6-80L
- E6-80

System E4-1 Series

- E4-80/H4-80/R4-80

- 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



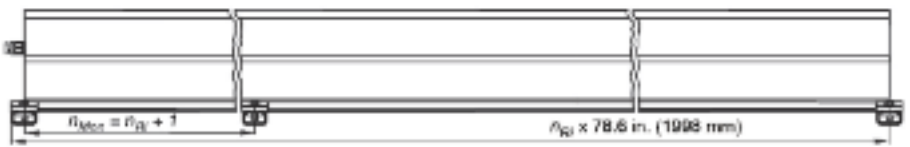
- **Components, trough:**
 - 1 Trough side parts, aluminum, 6.56 ft. (2m)
 - 2 Glide bar, plastic, 6.56 ft. (2m)
 - 3 Glide strips, plastic, 6.56 ft. (2m) (without glide strips on request)
 - 10 Optional: Silencer profile, rubber
- **Components, installation set:**
 - 4 Bottom clamp, aluminum
 - 5 profile rail, steel galvanized
 - 6 Screw M8 x20
 - 7 Sliding nut M8
 - 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	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 1-1/8" 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-___	≈ 1.23 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



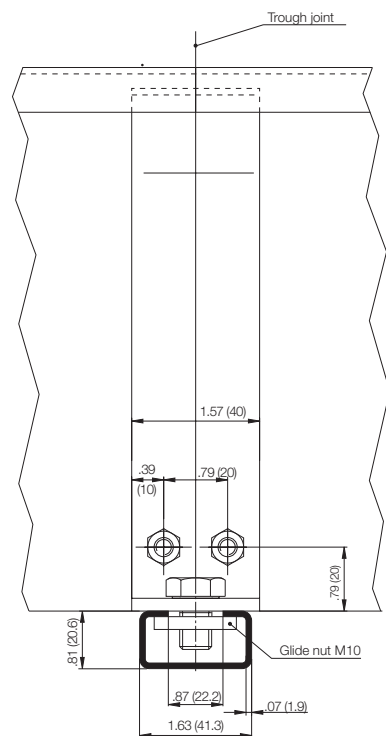
Steel Guide Troughs

If the igus® installation sets are used, the guide troughs are particularly easy to assemble. All the 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. In the appropriate Energy Chain® chapter, you will find all the necessary design data to stipulate the assembly width. All sizes use a common profile rail on which the guide parts are assembled. The assembly brackets used vary in height only.



Guide Trough Selection Guide

Part No. Trough	Part No. Glide Bars	System E2 Series	System E4 Series	System E6 Series
92-30	92-01	200/240/250		E6-29
		2480		R6-29
93-30	93-01	340/350	380/390/R780	E6-52
		3480	3838/3938/R7838	R6-52
		R68	E4-42/H4-42/R4-42	
94-30	93-01		400/410/R880	E6-62
			4040/4140/R8840	
			14040/14140/R18840	
			14240/14340	
95-30	92-01	26/27/27i		
		2680		
96-30	92-01		220/R760	E6-35
			E4-28/R4-28	
97-30	93-01		600/601/R608	
			640	
			1640/1608	
			E4-32/H4-32/R4-32	
98-30	92-01		28/29/R77	E6-40
			280/290/R770	R6-40
			2828/2928/R7728	
99-30	93-01		E4-32/H4-32/R4-32	
			15050/15150/R19850	E6-80
			5050/5150/R9850	
		E4-80/H4-80/R4-80		



Side view of trough joint. All the dimensions, apart from the height, apply to all sizes.



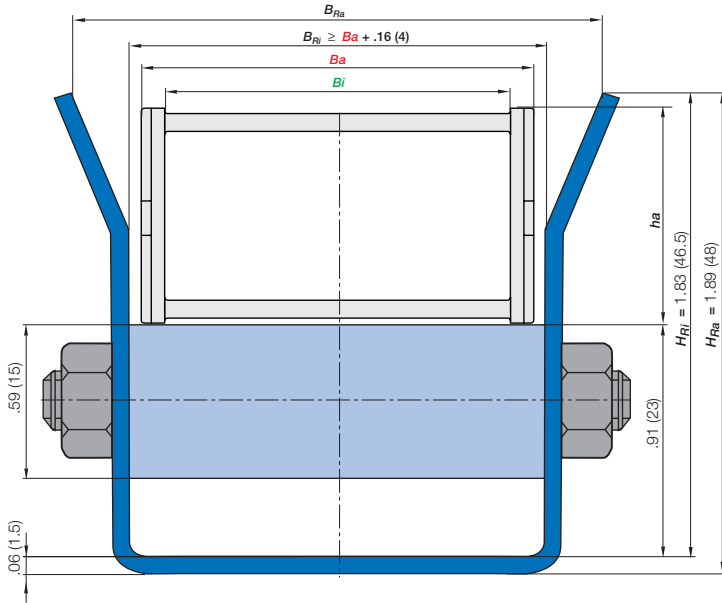
Long travel with igus® steel guide trough and harnessed igus® E-Chain® on a crane



Installation set for joint and attachment surface connections, secure connection without misalignment and without welding.

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 Energy 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

Ba = Outer Energy Chain® width

Bi = Inner Energy Chain® width

ha = Energy Chain® outer height

H_{Ri} = Inner trough height

H_{Ra} = Outer trough height

B_{Ri} = Inner trough width

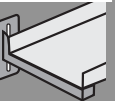
B_{Ra} = Outer trough width

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: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E2 Series:

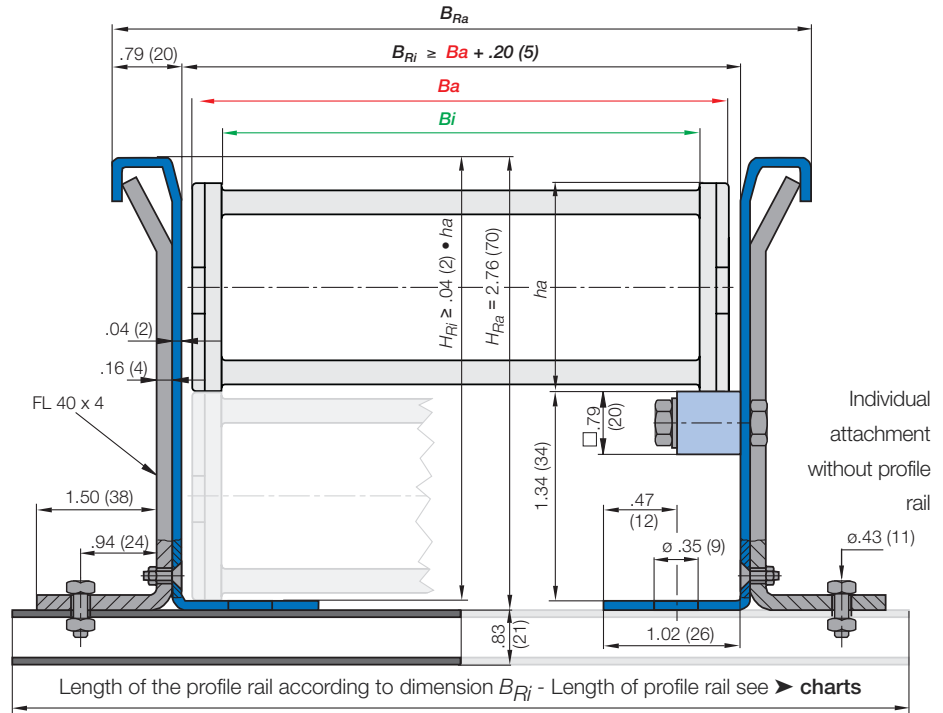
- 2480
- 200/240/250

System E6 Series:

- E6-29/R6-29

- 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. 92-30 - Trough Height: 2.76 in. (70 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)	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**

Principle sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail
(depending on the width)

2480			200/240/250			E6-29			R6-29		
2480-03-200-0			200-03-200-0			E6-29-040-200-0			R6-29-040-200-0		
B_{Ri} in. (mm)	Part No. Installation set		B_{Ri} in. (mm)	Part No. Installation set		B_{Ri} in. (mm)	Part No. Installation set		B_{Ri} in. (mm)	Part No. Installation set	
-03	2.32 (59)	92-50-175	-02	1.81 (46)	*	-030	2.01 (51)	*	-030	2.01 (51)	*
-05	3.07 (78)	92-50-200	-03	2.32 (59)	92-50-175	-040	2.40 (61)	92-50-175	-050	2.80 (71)	92-50-200
-07	3.86 (98)	92-50-225	-05	3.07 (78)	92-50-175	-050	2.80 (71)	92-50-200	-060	3.19 (81)	92-50-200
-10	4.88 (124)	92-50-250	-07	3.86 (98)	92-50-200	-060	3.19 (81)	92-50-200	-080	3.98 (101)	92-50-225
			-09	4.37 (111)	92-50-250	-070	3.58 (91)	92-50-200	-100	4.76 (121)	92-50-250
			-10	4.88 (124)	92-50-250	-080	3.98 (101)	92-50-225	-110	5.16 (131)	92-50-250
			-12	5.75 (146)	92-50-300	-090	4.37 (111)	92-50-225	-120	5.55 (141)	92-50-250
						-100	4.76 (121)	92-50-250			
						-110	5.16 (131)	92-50-250			
						-120	5.55 (141)	92-50-250			

*upon request



igus® steel guide trough used in a robotics application

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFG: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E2 Series:

● 26/27/27I

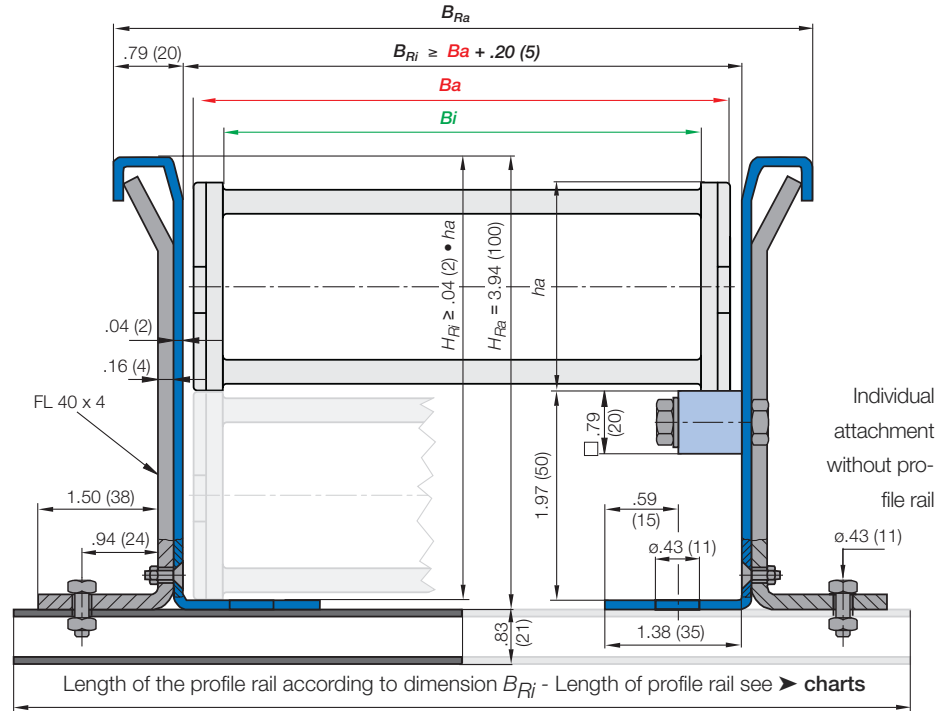
● 2680

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 ▶ 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. 95-30 - Trough Height: 3.94 in. (100 mm)



Steel Guide Trough components - Sets and single parts

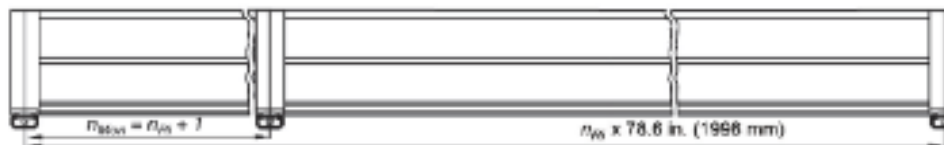
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	95-30	23.81
1 Installation set "Basic" with profile rail	95-50-___	
1 Installation set "Basic" without profile rail	95-50	1.01
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	92-01	4.52

Single parts - description

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**

Principle sketch: Number of installation sets which have to be installed



26/27/27i

27-05-200-0

	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-05	2.80 (71)	95-50-200
-07	3.78 (96)	95-50-200
-10	4.76 (121)	95-50-250
-12	5.75 (146)	95-50-250
-15	6.73 (171)	95-50-300
-17	7.83 (199)	95-50-300
-20	8.82 (224)	95-50-350

2680

2680-05-100-0

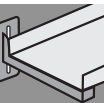
	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-05	2.80 (71)	95-50-200
-07	3.78 (96)	95-50-225
-10	4.76 (121)	95-50-250

R58

58-075-200-0

	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-050	2.80 (71)	95-50-200
-075	3.78 (96)	95-50-225
-100	4.76 (121)	95-50-250
-125	5.75 (146)	95-50-275
-150	6.73 (171)	95-50-300
-175	7.72 (196)	95-50-325
-200	8.70 (221)	95-50-350

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E4 Series:

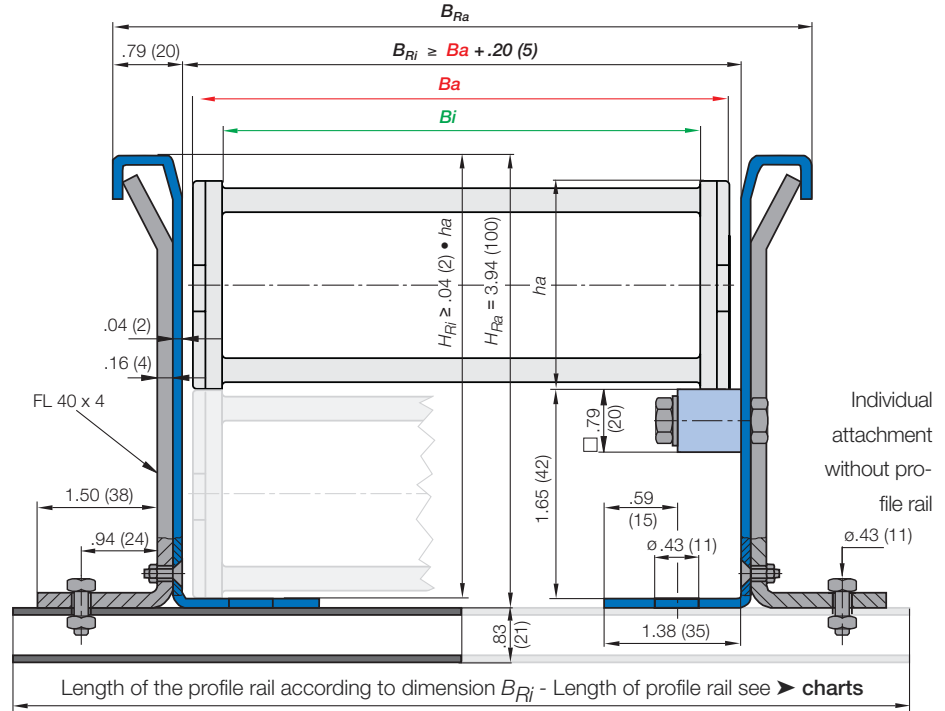
- 220/R760
- E6-35

System E4-1 Series

- E4-28/R4-28

- 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. 96-30 - Trough Height: 3.94 in. (100 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)	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**

Principle sketch: Number of installation sets which have to be installed



220/R760 E4-28/R4-28

220-040-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-040	2.56 (65)	*
-050	2.95 (75)	95-50-200
-062	3.43 (87)	95-50-200
-070	3.74 (95)	95-50-200
-075	3.94 (100)	95-50-225
-100	4.92 (125)	95-50-250
-125	5.91 (150)	95-50-275
-150	6.89 (175)	95-50-300
-175	7.87 (200)	95-50-325
-200	8.86 (225)	95-50-350
-225	9.84 (250)	95-50-375
-250	10.83 (275)	95-50-400
-275	11.81 (300)	95-50-425
-300	12.80 (325)	95-50-450

*upon request

E6-35

E6-35-100-055-0

	B_{Ri} in. (mm)	Part No. Installation set
-030	2.01 (55)	*
-040	2.40 (65)	*
-050	2.80 (75)	95-50-200
-060	3.19 (85)	95-50-200
-070	3.58 (95)	95-50-200
-080	3.98 (105)	95-50-225
-090	4.37 (115)	95-50-225
-100	4.76 (125)	95-50-250
-110	5.16 (135)	95-50-250
-120	5.55 (145)	95-50-250

*upon request

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E4 Series:

- 280/290/R770
- 2828/2928/R7728

System E6 Series:

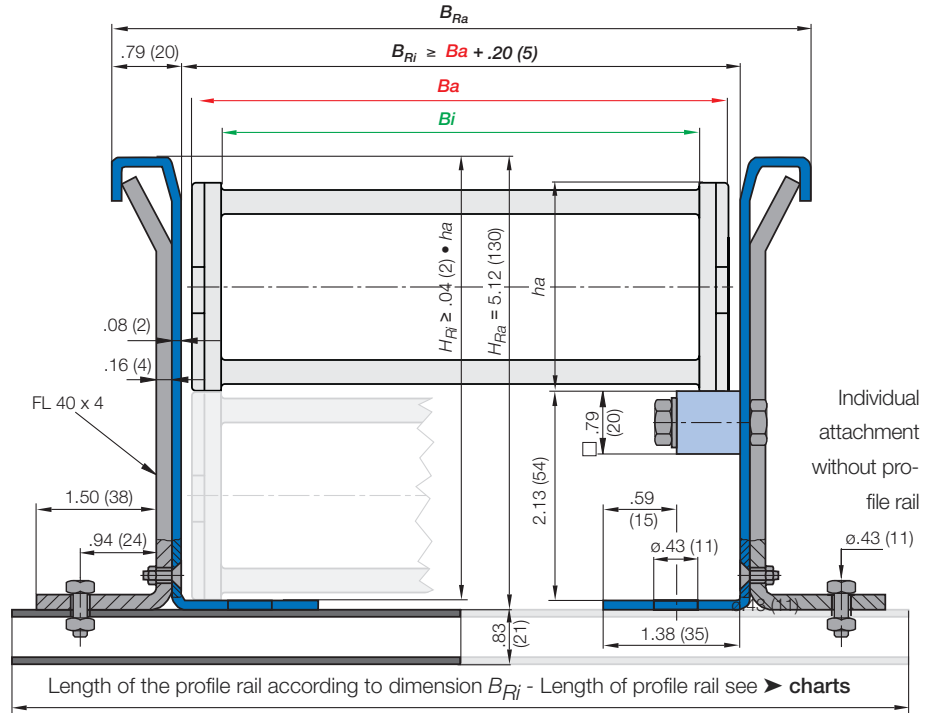
- E6-40/R6-40

System E4-1 Series

- E4-32/H4-320/R4-32

- 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. 98-30 - Trough Height: 5.12 in. (130 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)	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

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**

Principle sketch: Number of installation sets which have to be installed



280/290/R770 E4-32/H4-32/R4-32

280-05-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	3.15 (78)	93-50-200
-06	3.86 (96)	93-50-225
-07	4.13 (103)	93-50-225
-087	4.61 (115)	93-50-225
-10	5.12 (128)	93-50-250
-11	5.43 (136)	93-50-250
-112	5.59 (141)	93-50-250
-12	6.10 (153)	93-50-275
-137	6.57 (166)	93-50-275
-15	7.09 (178)	93-50-300
-162	7.56 (191)	93-50-300
-17	7.80 (196)	93-50-325
-18	8.07 (203)	93-50-325
-187	8.54 (216)	93-50-325
-20	9.06 (228)	93-50-350
-212	9.53 (241)	93-50-350
-23	10.04 (253)	93-50-375
-237	10.51 (266)	93-50-375
-25	11.02 (278)	93-50-400
-262	11.50 (291)	93-50-400
-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

2828/2928/R7728

2828-05-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	3.11 (79)	93-50-200
-06	3.82 (97)	93-50-225
-07	4.09 (104)	93-50-225
-087	4.57 (116)	93-50-225
-10	5.08 (129)	93-50-250
-11	5.39 (137)	93-50-250
-112	5.59 (142)	93-50-250
-12	6.06 (154)	93-50-275
-137	6.57 (167)	93-50-275
-15	7.05 (179)	93-50-300
-162	7.56 (192)	93-50-300
-17	7.76 (197)	93-50-325
-18	8.03 (204)	93-50-325
-187	8.54 (217)	93-50-325
-20	9.02 (229)	93-50-350
-212	9.53 (242)	93-50-350
-23	10.00 (254)	93-50-375
-237	10.51 (267)	93-50-375
-25	10.98 (279)	93-50-400
-262	11.50 (292)	93-50-400
-28	11.97 (304)	93-50-425
-29	12.48 (317)	93-50-425
-30	12.95 (329)	93-50-450
-312	13.46 (342)	93-50-450
-325	13.94 (354)	93-50-475
-337	14.45 (367)	93-50-475
-350	14.92 (379)	93-50-500
-362	15.43 (392)	93-50-500
-375	15.91 (404)	93-50-525
-387	16.42 (417)	93-50-525
-400	16.89 (429)	93-50-550

E6-40

E6-40-040-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-040	2.56 (65)	*
-050	2.95 (75)	93-50-200
-062	3.43 (87)	93-50-200
-070	3.74 (95)	93-50-225
-075	3.94 (100)	93-50-225
-100	4.92 (125)	93-50-250
-125	5.91 (150)	93-50-275
-150	6.89 (175)	93-50-300
-175	7.87 (200)	93-50-325
-200	8.86 (225)	93-50-350
-225	9.84 (250)	93-50-375
-250	10.83 (275)	93-50-400
-275	11.81 (300)	93-50-425
-300	12.80 (325)	93-50-450

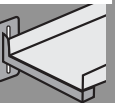
*upon request

E6-40

E6-40-040-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-062	3.43 (87)	93-50-200

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E2 Series:

- 3480
- 340/350

System E2 Tube Series:

- R68

System E4 Series:

- 380/390
- 3838/3938/R7838

System E6 Series:

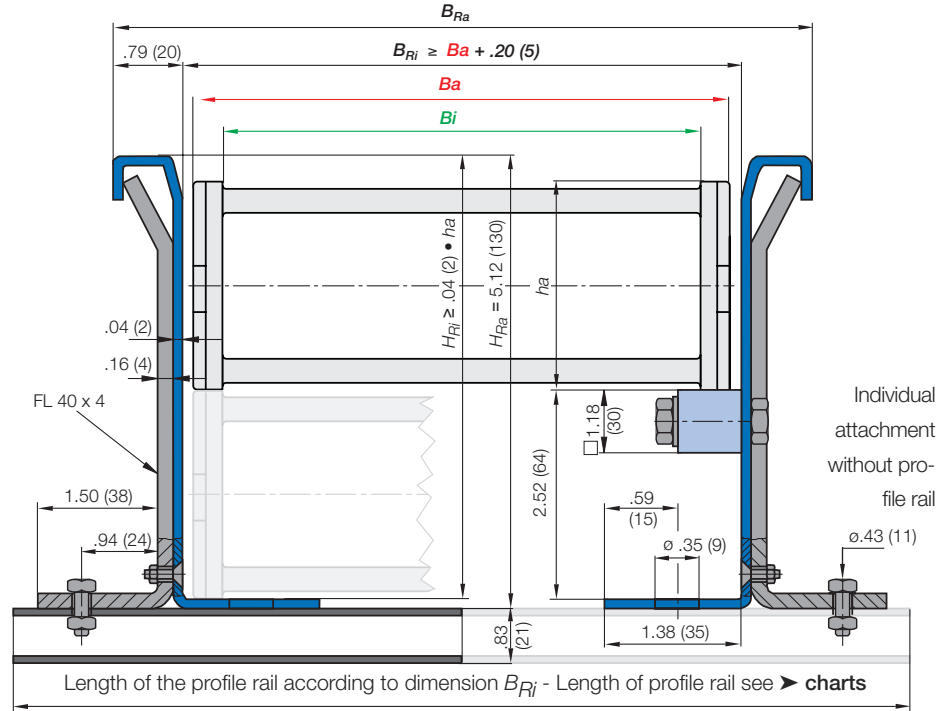
- E6-52/R6-52

System E4-1 Series:

- E4-42/H4-42/R4-42

- 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

Part No. 93-30 - Trough Height: 5.12 in. (130 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)	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} \blacktriangleright **opposite page**

Principle sketch: Number of installation sets which have to be installed



Guide Trough Systems

Steel Guide Troughs

Part No. Installation set: Steel Guide Trough with profile rail
(depending on the width)



3480

3480-075-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-075	3.94 (100)	93-50-225
-115	5.51 (140)	93-50-250
-175	7.87 (200)	93-50-300

340/350

350-075-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-050	2.95 (75)	93-50-150
-075	3.94 (100)	93-50-200
-100	4.92 (125)	93-50-250
-115	5.51 (140)	93-50-250
-125	5.91 (150)	93-50-300
-150	6.89 (175)	93-50-300
-175	7.87 (200)	93-50-300
-200	8.86 (225)	93-50-350
-225	9.84 (250)	93-50-350
-250	10.83 (275)	93-50-400

R6-52

R6-52-100-100-0

	B_{Ri} in. (mm)	Part No. Installation set
-050	3.11 (79)	93-50-200
-075	4.09 (104)	93-50-225
-100	5.08 (129)	93-50-250
-125	6.06 (154)	93-50-275
-150	7.04 (179)	93-50-300
-175	8.03 (204)	93-50-325

R68

68-075-200-0

	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

E6-52

E6-52-100-100-0

	B_{Ri} in. (mm)	Part No. Installation set
-040	2.72 (69)	*
-050	3.11 (79)	93-50-200
-075	4.09 (104)	93-50-225
-100	5.08 (129)	93-50-250
-125	6.06 (154)	93-50-275
-150	7.04 (179)	93-50-300
-175	8.03 (204)	93-50-325
-200	9.01 (229)	93-50-350
-225	10.00 (254)	93-50-375
-250	10.98 (279)	93-50-400
-275	11.97 (304)	93-50-425
-300	12.95 (329)	93-50-450

*upon request

380/390/R780

E4-42/H4-42/R4-42

380-05-200-0

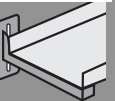
	B_{Ri} in. (mm)	Part No. Installation set
-05	3.19 (81)	93-50-200
-06	3.90 (99)	93-50-225
-07	4.17 (106)	93-50-225
-087	4.69 (119)	93-50-250
-10	5.16 (131)	93-50-250
-11	5.47 (139)	93-50-250
-112	5.67 (144)	93-50-275
-12	6.14 (156)	93-50-275
-137	6.65 (169)	93-50-300
-15	7.12 (181)	93-50-300
-162	7.64 (194)	93-50-325
-17	7.83 (199)	93-50-325
-18	8.11 (206)	93-50-325
-187	8.62 (219)	93-50-350
-20	9.09 (231)	93-50-350
-212	9.61 (244)	93-50-375
-23	10.08 (256)	93-50-375
-237	10.59 (269)	93-50-400
-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

3838/3938/R7838

3838-05-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	3.23 (82)	93-50-200
-06	3.94 (100)	93-50-225
-07	4.21 (107)	93-50-225
-087	4.72 (120)	93-50-250
-10	5.20 (132)	93-50-250
-11	5.51 (140)	93-50-250
-112	5.71 (145)	93-50-275
-12	6.18 (157)	93-50-275
-137	6.69 (170)	93-50-300
-15	7.16 (182)	93-50-300
-162	7.68 (195)	93-50-325
-17	7.87 (200)	93-50-325
-18	8.15 (207)	93-50-325
-187	8.66 (220)	93-50-350
-20	9.13 (232)	93-50-350
-212	9.65 (245)	93-50-375
-23	10.12 (257)	93-50-375
-237	10.63 (270)	93-50-400
-25	11.10 (282)	93-50-400
-262	11.61 (295)	93-50-425
-28	12.09 (307)	93-50-425
-29	12.60 (320)	93-50-450
-30	13.07 (332)	93-50-450
-312	13.58 (345)	93-50-475
-325	14.06 (357)	93-50-475
-337	14.57 (370)	93-50-500
-350	15.04 (382)	93-50-500
-362	15.55 (395)	93-50-525
-375	16.02 (407)	93-50-525
-387	16.53 (420)	93-50-550
-400	17.01 (432)	93-50-550

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



For the following Series

System E4 Series:

- 400/410/R880
- 4040/4140/R8840
- 14040/14140/R18840
- 14240/14340

System E6 Series:

- E6-62

System E4-1 Series

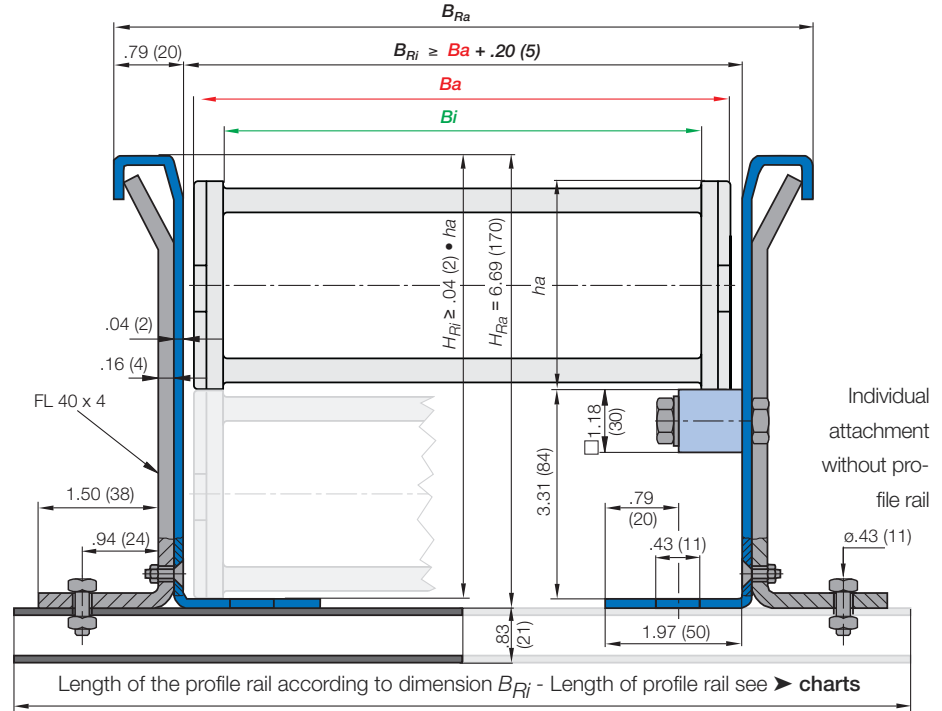
- E4-56/H4-56/R4-56

- 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**

Principle sketch: Number of installation sets which have to be installed



400/410/R880
4040/4140
E4-56/H4-56/R4-56

400-10-200-0

	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-05	3.50 (89)	*
-06	4.23 (104)	94-50-225
-07	4.49 (114)	94-50-225
-10	5.47 (139)	94-50-250
-11	5.98 (152)	94-50-275
-12	6.46 (164)	94-50-275
-13	6.97 (177)	94-50-300
-15	7.44 (189)	94-50-300
-16	7.95 (202)	94-50-325
-17	8.42 (214)	94-50-325
-18	8.94 (227)	94-50-350
-20	9.41 (239)	94-50-350
-21	9.92 (252)	94-50-375
-22	10.39 (264)	94-50-375
-23	10.91 (277)	94-50-400
-25	11.38 (289)	94-50-400
-26	11.89 (302)	94-50-425
-27	12.36 (314)	94-50-425
-28	12.87 (327)	94-50-450
-30	13.35 (339)	94-50-450
-31	13.86 (352)	94-50-475
-32	14.33 (364)	94-50-475
-33	14.84 (377)	94-50-500
-35	15.31 (389)	94-50-500
-36	15.82 (402)	94-50-525
-37	16.30 (414)	94-50-525
-38	16.81 (427)	94-50-550
-40	17.28 (439)	94-50-550
-41	17.79 (452)	94-50-575
-42	18.27 (464)	94-50-575
-43	18.78 (477)	94-50-600
-45	19.25 (489)	94-50-600
-46	19.76 (502)	94-50-625
-47	20.24 (514)	94-50-625
-48	20.75 (527)	94-50-650
-50	21.22 (539)	94-50-650
-51	21.73 (552)	94-50-675
-52	22.20 (564)	94-50-675
-53	22.72 (577)	94-50-700
-55	23.19 (589)	94-50-700
-60	25.28 (639)	94-50-750

14040/14140/R18840

14040-05-200-0

	<i>B_{Ri}</i> 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

14240/14340

14240-05-200-0

	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-05	3.19 (81)	*
-06	3.90 (99)	*
-07	4.17 (106)	94-50-225
-087	4.65 (118)	94-50-250
-10	5.16 (131)	94-50-250
-11	5.47 (139)	94-50-250
-112	5.63 (143)	94-50-275
-12	6.14 (156)	94-50-275
-137	6.61 (168)	94-50-300
-15	7.12 (181)	94-50-300
-162	7.60 (193)	94-50-325
-17	7.83 (199)	94-50-325
-18	8.11 (206)	94-50-325
-187	8.58 (218)	94-50-350
-20	9.09 (231)	94-50-350
-212	9.57 (243)	94-50-375
-23	10.08 (256)	94-50-375
-237	10.55 (268)	94-50-400
-25	11.06 (281)	94-50-400
-262	11.54 (293)	94-50-425
-28	12.05 (306)	94-50-425
-29	12.52 (318)	94-50-450
-30	13.03 (331)	94-50-450
-312	13.50 (343)	94-50-475
-325	14.02 (356)	94-50-475
-337	14.49 (368)	94-50-500
-350	15.00 (381)	94-50-500
-362	15.47 (393)	94-50-525
-375	15.98 (406)	94-50-525
-387	16.46 (418)	94-50-550
-400	16.97 (431)	94-50-550

E6-62

E6-62-10-115-0

	<i>B_{Ri}</i> in. (mm)	Part No. Installation set
-05	3.58 (91)	*
-06	4.29 (109)	94-50-225
-07	4.57 (116)	94-50-225
-087	5.04 (128)	94-50-250
-10	5.55 (141)	94-50-250
-11	5.87 (149)	94-50-275
-112	6.02 (153)	94-50-275
-12	6.54 (165)	94-50-275
-137	7.01 (178)	94-50-300
-15	7.52 (191)	94-50-300
-162	7.99 (203)	94-50-325
-17	8.23 (209)	94-50-325
-18	8.50 (216)	94-50-325
-187	8.98 (228)	94-50-350
-20	9.49 (241)	94-50-350
-212	9.96 (253)	94-50-375
-23	10.47 (266)	94-50-375
-237	10.95 (278)	94-50-400
-25	11.46 (291)	94-50-400
-262	11.93 (303)	94-50-425
-28	12.44 (316)	94-50-425
-29	12.91 (328)	94-50-450
-30	13.43 (341)	94-50-450
-312	13.90 (353)	94-50-475
-325	14.41 (366)	94-50-475
-337	14.88 (378)	94-50-500
-350	15.39 (391)	94-50-500
-362	15.87 (403)	94-50-525
-375	16.38 (416)	94-50-525
-387	16.85 (428)	94-50-550
-400	17.36 (441)	94-50-550

*upon request

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E4 Series:

- 5050/5150/R9850
- 15050/15150/R19850

System E6 Series:

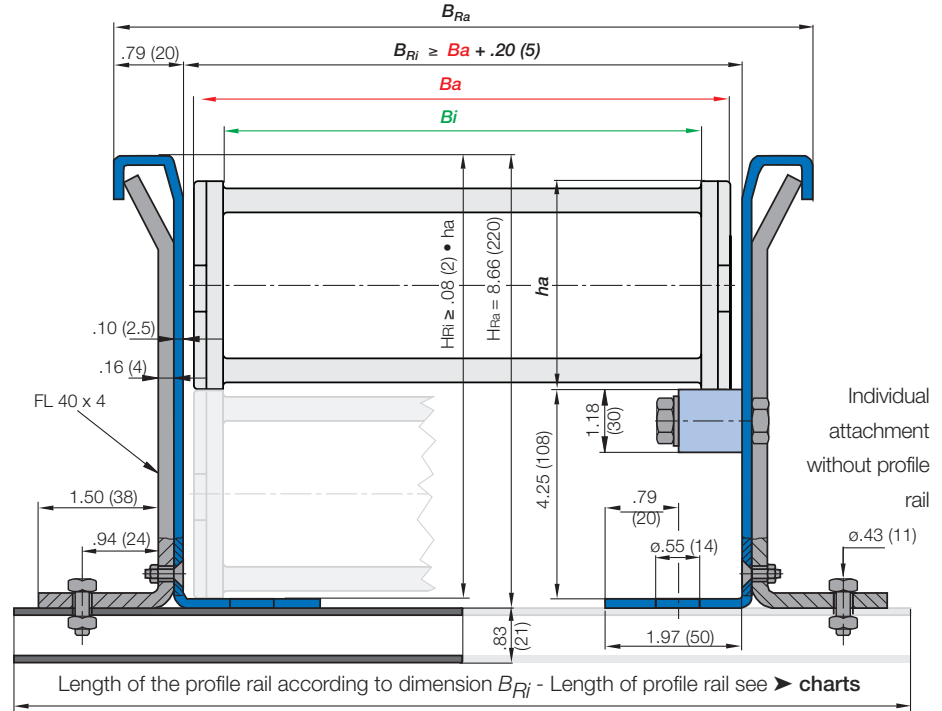
- E6-80/E6-80L

System E4-1 Series

- E4-80/H4-80/R4-80

- 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: 6.69 in. (170 mm)



Steel Guide Trough components - Sets and single parts

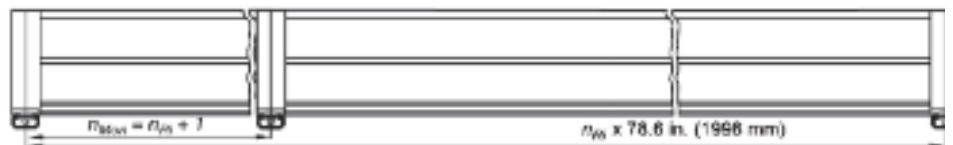
Complete guide trough sets - description	Part No.	Weight lbs
Set of 2 trough side parts without glide bars, each 6.56 ft. (2m)	99-30	43.66
1 Installation set "Basic" with profile rail	96-50-___	
1 Installation set "Basic" without profile rail	96-50	1.63
1 Glide bar set with hardware, each 6.56 ft. (2m) + 22 bolts	93-01	9.95

Single parts - description

1 profile rail, individual	92-52-___	.60 lbs/ft
1 Clamping brackets, 2 pcs	96-51	.71
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**

Principle sketch: Number of installation sets which have to be installed



5050/5150/R9850 E4-80/H4-80/R4-80

5050-10-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	4.13 (105)	96-50-225
-06	4.72 (120)	96-50-250
-07	5.12 (130)	96-50-250
-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

15050/15150/R19850

15050-10-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	3.35 (85)	*
-07	4.33 (110)	96-50-225
-10	5.31 (135)	96-50-250
-11	5.83 (148)	96-50-275
-12	6.30 (160)	96-50-275
-13	6.81 (173)	96-50-300
-15	7.28 (185)	96-50-300
-16	7.80 (198)	96-50-325
-17	8.27 (210)	96-50-325
-18	8.78 (223)	96-50-350
-20	9.25 (235)	96-50-350
-21	9.76 (248)	96-50-375
-22	10.24 (260)	96-50-375
-23	10.75 (273)	96-50-400
-25	11.22 (285)	96-50-400
-26	11.73 (298)	96-50-425
-27	12.20 (310)	96-50-425
-28	12.72 (323)	96-50-450
-30	13.19 (335)	96-50-450
-31	13.70 (348)	96-50-475
-32	14.17 (360)	96-50-475
-33	14.69 (373)	96-50-500
-35	15.16 (385)	96-50-500
-36	15.67 (398)	96-50-525
-37	16.14 (410)	96-50-525
-38	16.65 (423)	96-50-550
-40	17.13 (435)	96-50-550
-41	17.63 (448)	96-50-575
-42	18.11 (460)	96-50-575
-43	18.62 (473)	96-50-600
-45	19.09 (485)	96-50-600
-46	19.61 (498)	96-50-625
-47	20.08 (510)	96-50-625
-48	20.59 (523)	96-50-650
-50	21.06 (535)	96-50-650
-51	21.57 (548)	96-50-675
-52	22.04 (560)	96-50-675
-53	22.56 (573)	96-50-700
-55	23.03 (585)	96-50-700
-60	25.00 (635)	96-50-750

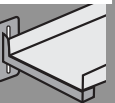
E6-80

E6-80-10-115-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	4.13 (105)	96-50-225
-06	4.72 (120)	96-50-250
-07	5.12 (130)	96-50-250
-10	6.10 (155)	96-50-275
-11	6.57 (167)	96-50-300
-12	7.09 (180)	96-50-300
-13	7.56 (192)	96-50-325
-15	8.07 (205)	96-50-325
-16	8.54 (217)	96-50-350
-17	9.06 (230)	96-50-350
-18	9.53 (242)	96-50-375
-20	10.04 (255)	96-50-375
-21	10.51 (267)	96-50-400
-22	11.02 (280)	96-50-400
-23	11.50 (292)	96-50-425
-25	12.01 (305)	96-50-425
-26	12.48 (317)	96-50-450
-27	12.99 (330)	96-50-450
-28	13.46 (342)	96-50-475
-30	13.98 (355)	96-50-475
-31	14.45 (367)	96-50-500
-32	14.96 (380)	96-50-500
-33	15.43 (392)	96-50-525
-35	15.94 (405)	96-50-525
-36	16.42 (417)	96-50-550
-37	16.93 (430)	96-50-550
-38	17.40 (442)	96-50-575
-40	17.91 (455)	96-50-575
-41	18.39 (467)	96-50-600
-42	18.90 (480)	96-50-600
-43	19.37 (492)	96-50-625
-45	19.88 (505)	96-50-625
-46	20.35 (517)	96-50-650
-47	20.87 (530)	96-50-650
-48	21.34 (542)	96-50-675
-50	21.85 (555)	96-50-675
-51	22.32 (567)	96-50-700
-52	22.83 (580)	96-50-700
-53	23.31 (592)	96-50-725
-55	23.82 (605)	96-50-725
-60	25.79 (655)	96-50-775

*upon request

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



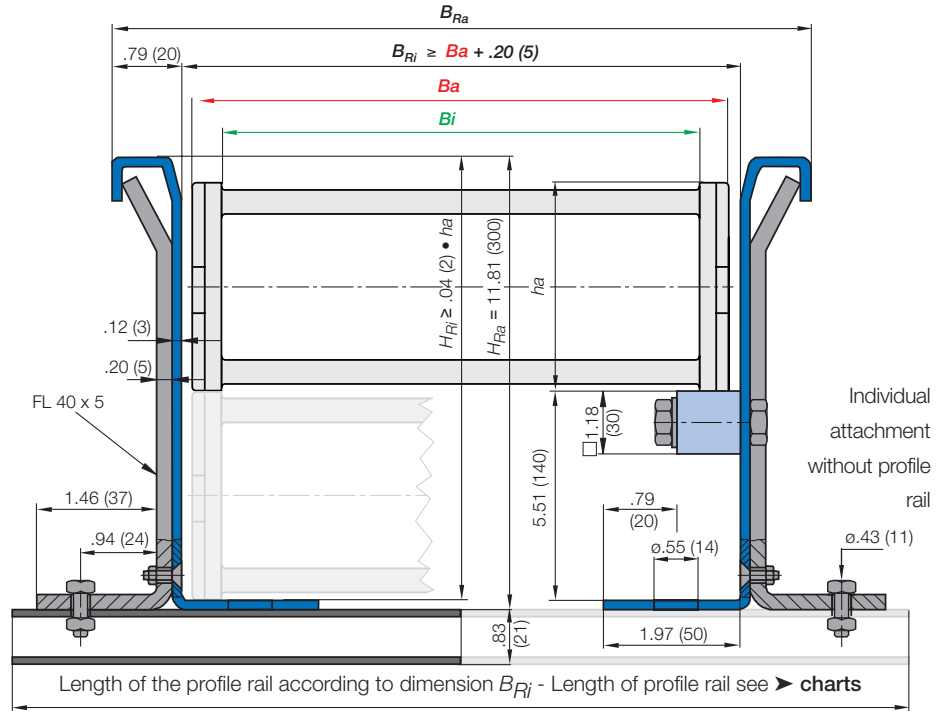
For the following Series

System E4 Series:

- 600/601/R608
- 640
- 1640/R1608

- 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 \blacktriangleright depends on dim. Ba
- B_{Ra} = Outer trough width
- n_{Mon} = # of installation sets (left/right)
- n_{Ri} = # of trough set (left/right)
- !** $H_{Ri} \geq 2 \cdot ha$
- !** $B_{Ri} \geq Ba + 5$
- = Guide trough
- = Glide bar
- = Installation set "Basic"
- = profile rail

Part No. 97-30 - Trough Height: 11.81 in. (300 mm)



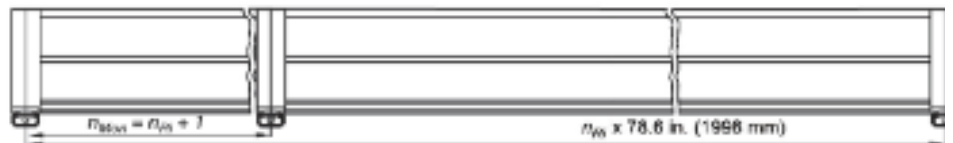
Steel Guide Trough components - Sets and single parts

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} \blacktriangleright **opposite page**

Principle sketch: Number of installation sets which have to be installed



600/601/R608

600-20-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-20	10.12 (257)	97-50-375
-25	12.09 (307)	97-50-425
-30	14.06 (357)	97-50-475
-32	14.84 (377)	97-50-500
-35	16.02 (407)	97-50-525
-40	17.99 (457)	97-50-575
-45	19.96 (507)	97-50-625
-50	21.93 (557)	97-50-675
-55	23.90 (607)	97-50-725
-60	25.87 (657)	97-50-775

640

640-12-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-12	5.67 (144)	97-50-275
-13	6.18 (157)	97-50-275
-15	6.65 (169)	97-50-300
-16	7.16 (182)	97-50-300
-17	6.46 (164)	97-50-325
-18	8.15 (207)	97-50-325
-20	8.62 (219)	97-50-350
-21	9.13 (232)	97-50-350
-22	9.61 (244)	97-50-375
-23	10.12 (257)	97-50-375
-25	10.59 (269)	97-50-400
-26	11.10 (282)	97-50-400
-27	11.57 (294)	97-50-425
-28	12.09 (307)	97-50-425
-30	12.56 (319)	97-50-450
-31	13.07 (332)	97-50-450
-32	13.54 (344)	97-50-475
-33	14.06 (357)	97-50-475
-35	14.53 (369)	97-50-500
-36	15.04 (382)	97-50-500
-37	15.51 (394)	97-50-525
-38	16.02 (407)	97-50-525
-40	16.50 (419)	97-50-550
-41	17.01 (432)	97-50-550
-42	17.48 (444)	97-50-575
-43	17.99 (457)	97-50-575
-45	18.46 (469)	97-50-600
-46	18.98 (482)	97-50-600
-47	19.45 (494)	97-50-625
-48	19.96 (507)	97-50-625
-50	20.43 (519)	97-50-650
-51	20.94 (532)	97-50-650
-52	21.42 (544)	97-50-675
-53	21.93 (557)	97-50-675
-55	22.40 (569)	97-50-700
-60	24.37 (619)	97-50-750

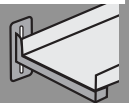
1640/1608

1640-05-200-0

	B_{Ri} in. (mm)	Part No. Installation set
-05	3.50 (89)	*
-06	4.09 (104)	97-50-225
-07	4.49 (114)	97-50-250
-10	5.47 (139)	97-50-275
-11	5.94 (151)	97-50-275
-12	6.46 (164)	97-50-300
-13	6.93 (176)	97-50-300
-15	7.44 (189)	97-50-325
-16	7.91 (201)	97-50-325
-17	8.43 (214)	97-50-350
-18	8.90 (226)	97-50-350
-20	9.41 (239)	97-50-375
-21	9.88 (251)	97-50-375
-22	10.39 (264)	97-50-400
-23	10.87 (276)	97-50-400
-25	11.38 (289)	97-50-425
-26	11.85 (301)	97-50-425
-27	12.36 (314)	97-50-450
-28	12.83 (326)	97-50-450
-30	13.35 (339)	97-50-475
-31	13.82 (351)	97-50-475
-32	14.33 (364)	97-50-500
-33	14.80 (376)	97-50-500
-35	15.31 (389)	97-50-525
-36	15.79 (401)	97-50-525
-37	16.30 (414)	97-50-550
-38	16.77 (426)	97-50-550
-40	17.28 (439)	97-50-575
-41	17.76 (451)	97-50-575
-42	18.27 (464)	97-50-600
-43	18.74 (476)	97-50-600
-45	19.25 (489)	97-50-625
-46	19.72 (501)	97-50-625
-47	20.24 (514)	97-50-650
-48	20.71 (526)	97-50-650
-50	21.22 (539)	97-50-675
-51	21.69 (551)	97-50-675
-52	22.20 (564)	97-50-700
-53	22.68 (576)	97-50-700
-55	23.19 (589)	97-50-725
-60	25.16 (639)	97-50-775

*upon request

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 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



For the following Series

System E4 Series:

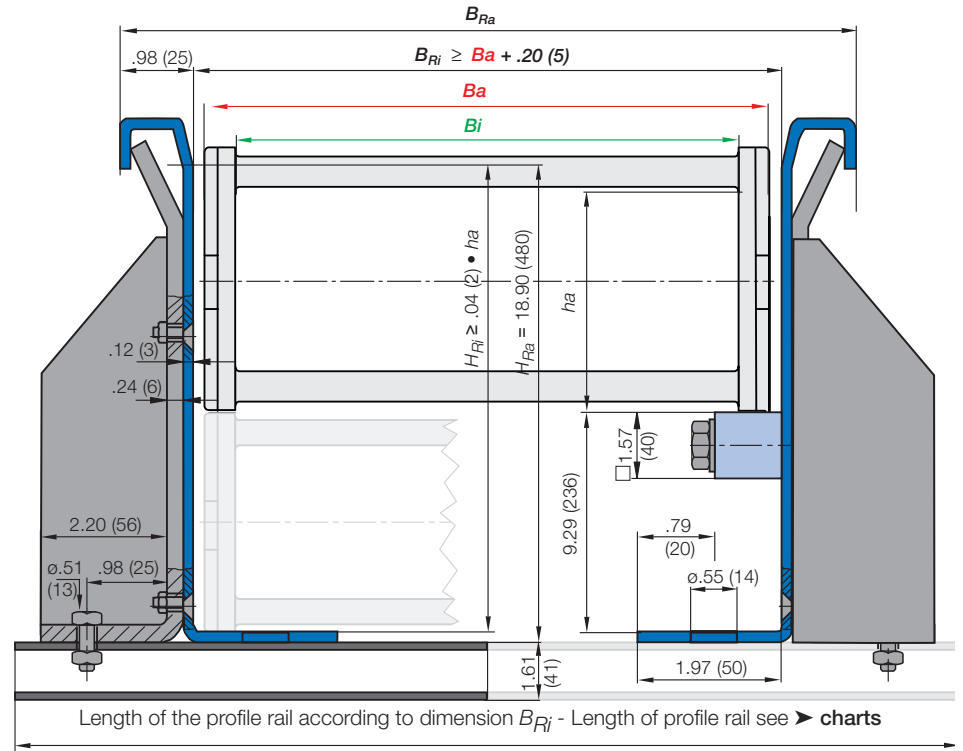
- 800

System E4-1 Series

- 840

- 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

Part No. 90-30 - Trough Height: 18.90 in. (480 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)	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	92-52-_____
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**

Principle sketch: Number of installation sets which have to be installed



Part No. Installation set: Steel Guide Trough with profile rail
(depending on the width)

800

800-~~20~~-325-0

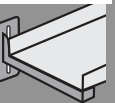
	B_{Ri} in. (mm)	Part No. Installation set
-20	10.43 (265)	90-50-450
-25	12.40 (315)	90-50-500
-30	14.37 (365)	90-50-550
-32	15.35 (390)	90-50-575
-35	16.34 (415)	90-50-600
-40	18.31 (465)	90-50-650
-45	20.27 (515)	90-50-700
-50	22.24 (565)	90-50-750
-55	24.21 (615)	90-50-800
-60	26.18 (665)	90-50-850

840

840-~~13~~-325-0

	B_{Ri} in. (mm)	Part No. Installation set
-20	10.43 (265)	90-50-450
-13	6.49 (165)	90-50-350
-15	7.01 (178)	90-50-350
-16	7.48 (190)	90-50-375
-17	7.99 (203)	90-50-375
-18	8.46 (215)	90-50-400
-20	8.98 (228)	90-50-400
-21	9.45 (240)	90-50-425
-22	9.96 (253)	90-50-425
-23	10.43 (265)	90-50-450
-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

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 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



A perspective view of a long, narrow, grey support tray. The tray is filled with a black chain-link structure that contains several rows of orange rollers. The rollers are arranged in a grid pattern, and the chain-link structure is made of dark grey or black plastic or metal. The tray is set against a solid blue background. The text "Support Tray" is overlaid in white at the bottom of the image.

Support Tray

Support Tray

For support of the lower run

For support of the lower run - Support tray tool kit

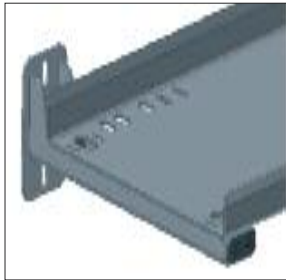
Simple one-piece support trays for the lower Energy Chain® run, according with your requirements and specification. Your width, height and color - we supply the fitting Energy Chain®, together with the support tray system. Ready to install onto your machine or application. Save on procurement and design 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



Option 01 -
with connection-rail



Option 02 -
with bracket

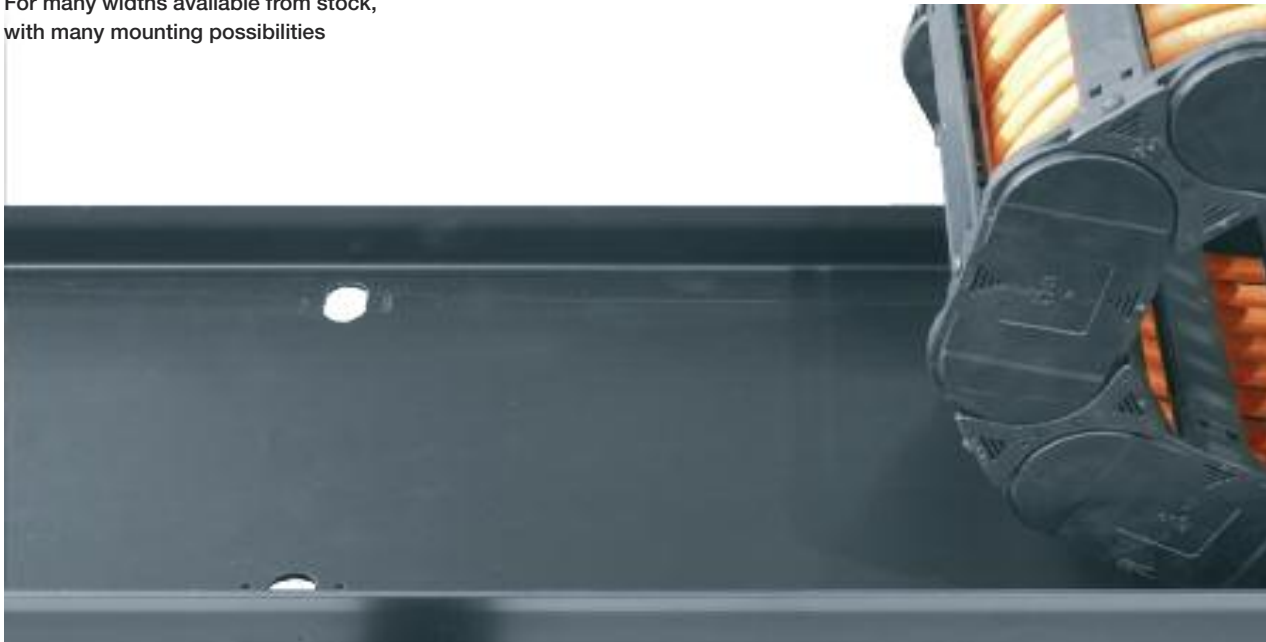


Option 03 -
without rail



Option 04 -
customized

For many widths available from stock,
with many mounting possibilities



For the following Series

System E2/000 Series:

- 2480
- 2680

System E4-1 Series:

- E4-21
- E4-28/R4-28
- E4-32/H4-32/R4-28

System E4/00 Series:

- 220/R760
- 280/290/R770

System E4/4 Series:

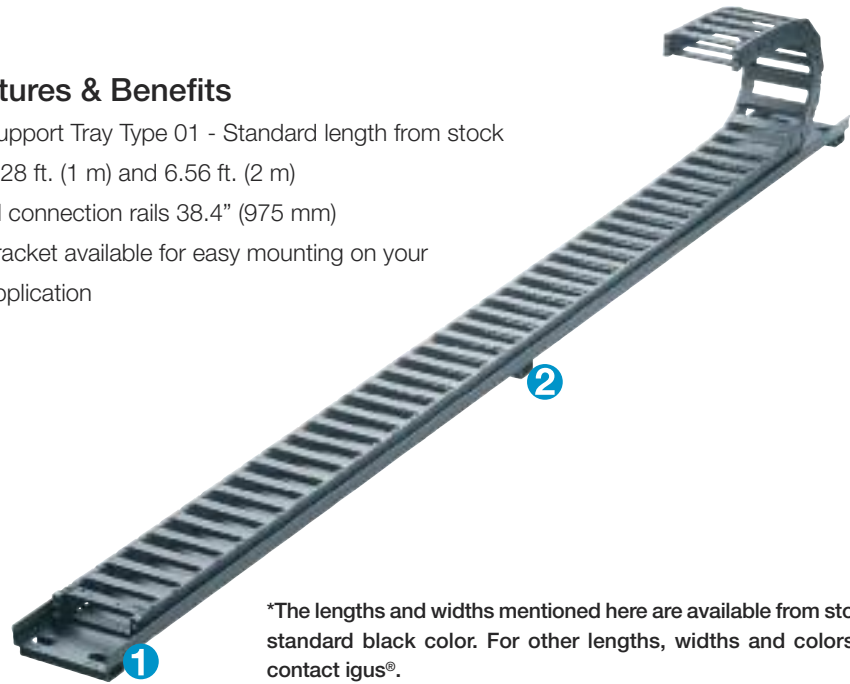
- 2828/2928/R7728

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



*The lengths and widths mentioned here are available from stock in the standard black color. For other lengths, widths and colors, please contact igus®.

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	2480	-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	2680	-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	E4-21	-10	5.47 (139)	(130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
E4-1	E4-32/H4-32/R4-32	-15	7.28 (185)	6.89 (175)	S9-010-15-XXXX-0	S9-011-15-XXXX-0	907-724-15
E4/4	2828/2928/R7728	-15	7.28 (185)	6.89 (175)	S9-010-15-XXXX-0	S9-011-15-XXXX-0	907-724-15
E4/00	280/290/R770	-050	3.50 (89)	3.15 (80)	S9-010-05-XXXX-0	S9-011-05-XXXX-0	907-724-05
E6	E6-29/R6-29	-070	4.49 (114)	4.13 (105)	S9-010-07-XXXX-0	S9-011-07-XXXX-0	907-724-07
E6	E6-35	-100	5.47 (139)	5.12 (130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
E4-1	E4-28/R4-28	-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
E4/00	220/R760	-100	5.47 (139)	5.12 (130)	S9-010-10-XXXX-0	S9-011-10-XXXX-0	907-724-10
E6	E6-40/R6-40	-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!

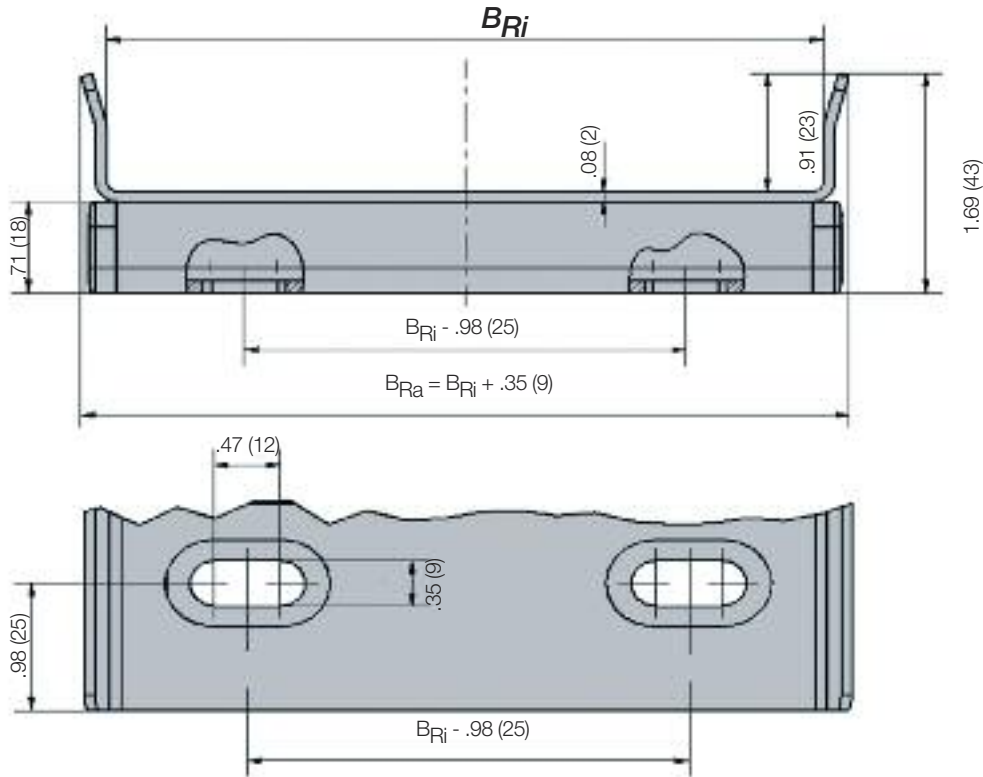
Accessories - optional bracket



Bracket for easy mounting on your application (see table above for Part No.)



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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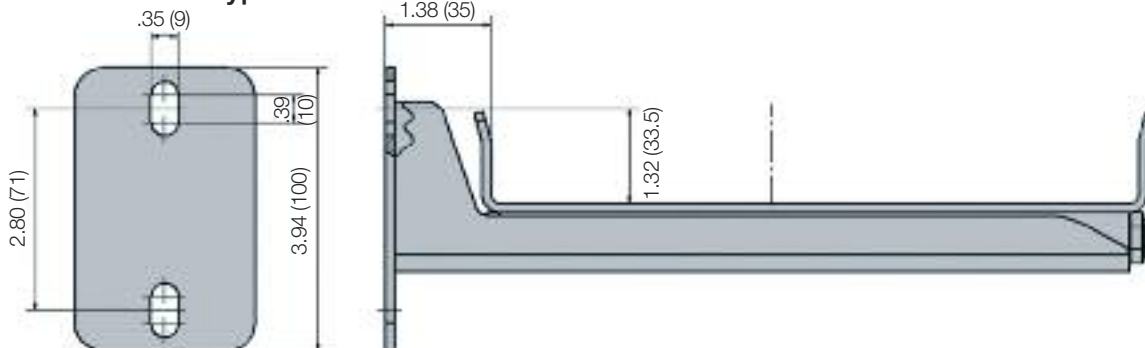
- Color, powdered black
- Length 1000 mm
- Energy Chain®- width without bracket
- Support tray

Part No. structure with bracket 78.7" (2000 mm)

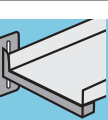
S9-	011-	07-	2000-	0
-----	------	-----	-------	---

- Color, powdered black
- Length 2000 mm
- Energy Chain®- width with bracket
- Support tray

Bracket - Type 01



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Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



For the following Series

System E2/000 Series:

- 3480

System E4-1 Series:

- E4-42/H4-42/R4-42
- E4-56/H4-56/R4-56
- E4-80/H4-80/R4-80

System E4/00 Series:

- 380/390/R780
- 400/410/R880

System E4/4 Series:

- 3838/3938/R7838
- 4040/4140/R8840
- 5050/5150/R9850

System E4/Light Series:

- 14040/14140/R18840
- 14240/14340
- 15050/15150/R19850

System E6 Series:

- E6-52/R6-52
- E6-62
- E6-80

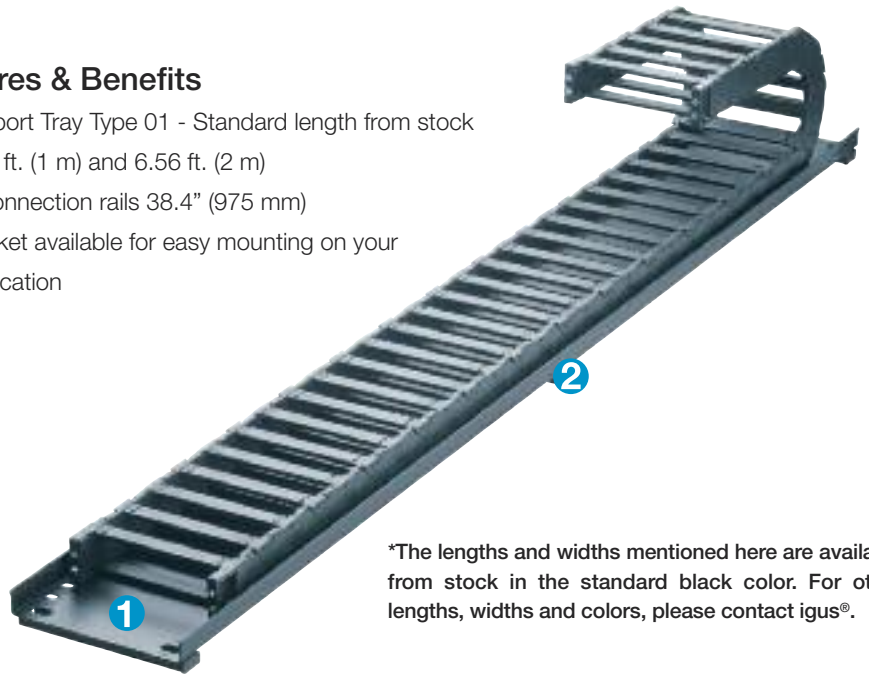
Product Range*

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	-10	6.57 (167)	6.14 (156)	S9-020-10-XXXX-0	S9-021-10-XXXX-0	907-759-10-0
	E4-56/H4-56/R4-56	-15	8.54 (217)	8.11 (206)	S9-020-15-XXXX-0	S9-021-15-XXXX-0	907-759-15-0
	E4-80/H4-80/R4-80	-20	10.51 (267)	10.08 (256)	S9-020-20-XXXX-0	S9-021-20-XXXX-0	907-759-20-0
E4/00	380/390/R780	-25	12.48 (317)	12.05 (306)	S9-020-25-XXXX-0	S9-021-25-XXXX-0	907-759-25-0
	400/410/R880						
E4/4	3838/3938/R7838						
	4040/4140/R8840						
	5050/5150/R9850						
E4/light	14040/14140/R18840						
	14240/14340						
	15050/15150/R19850						
E6	E6-62, E6-80						
E4/00	3480	-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
E6	E6-52/R6-52	-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!

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



*The lengths and widths mentioned here are available from stock in the standard black color. For other lengths, widths and colors, please contact igus®.

Accessories - optional bracket

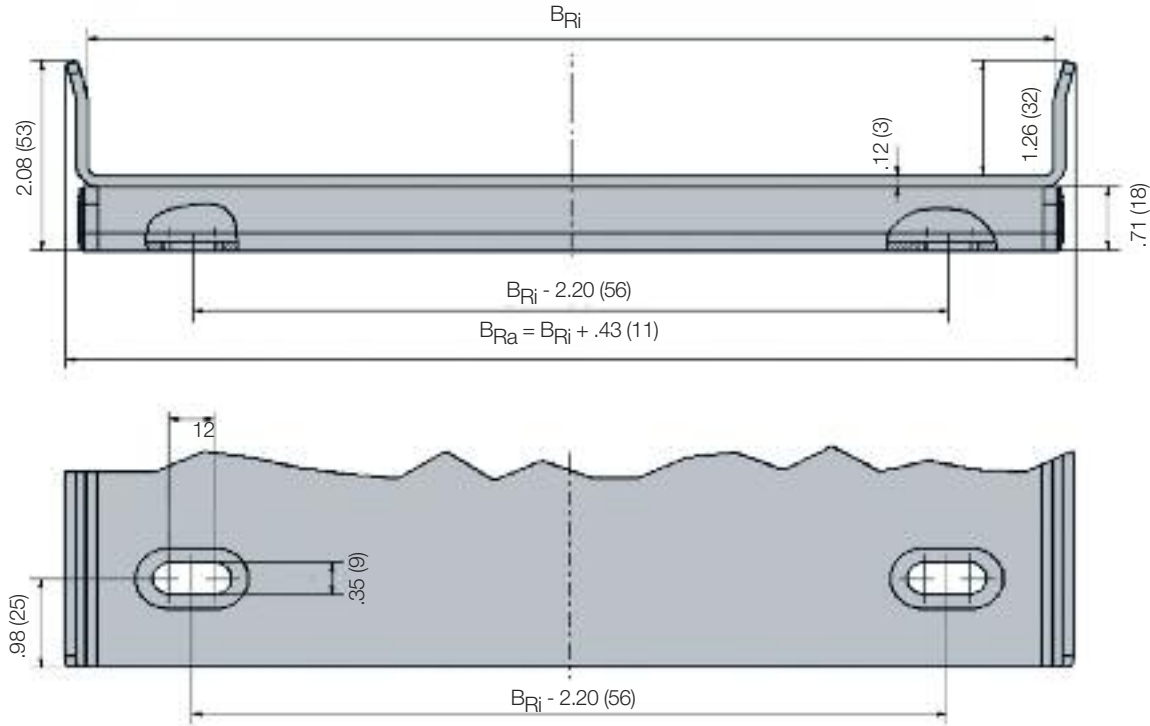


3

Bracket for easy mounting on your application (see table above for Part No.)



Mounting holes of the trough system

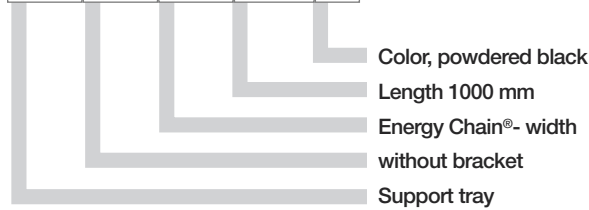


Standard lengths from stock 3.28 ft. and 6.56 ft. (1 m and 2 m) - All connection rails 38.4" (975 mm)



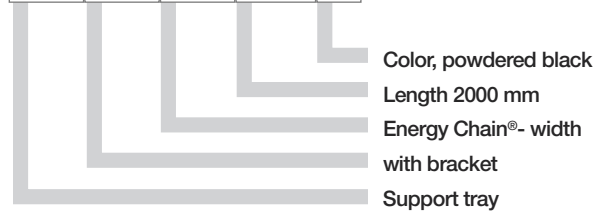
Part No. structure without bracket 39.4" (1000 mm)

S9-	020-	20-	1000-	0
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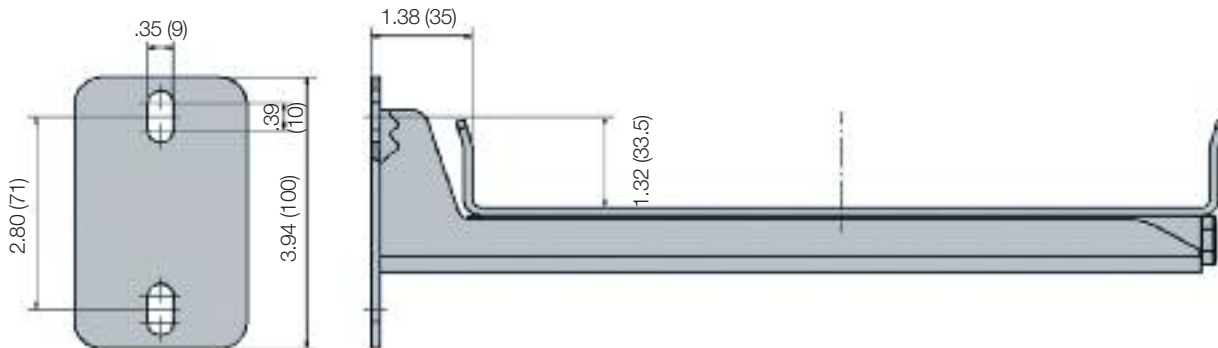


Part No. structure with bracket 78.7" (2000 mm)

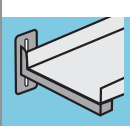
S9-	021-	20-	2000-	0
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Bracket - Type 02



PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



Special Solutions for Long Travels



Special solutions for long travels

Without guide troughs

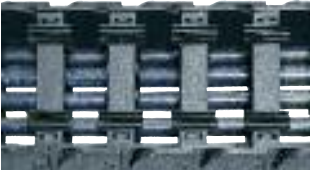
Rol E-Chain® - Rolling instead of gliding



Rol E-Chain®

Major reduction in drive power to less than 25 % for moving the Energy Chain®
Travels up to 2,624 ft. (800 m), speeds up to 19.69 ft/s (6 m/s)

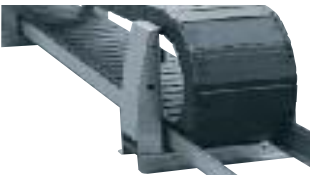
System AUTO-GLIDE - Long travels without guide troughs



AUTO-GLIDE

Self-guiding Energy Chain Systems® - No Guide Troughs required!
Travels up to 164 ft. (50 m), speeds up to 4.92 ft/s(1.5 m/s)

Guidelok horizontal - Upper run guide for long travels



Guidelok horizontal

Chips cannot get stuck between upper and lower run -
Enormous increase of self supported length of Energy Chains®

Micro Flizz® - Small Energy Chains® in aluminum profile



Micro Flizz®

ONE compact system for a secure guidance of power, data and air
Maintenance-free alternative for busbar



Rol E-Chain®

Special solutions for long travel

Rol E-Chain®

Rol E-Chain® - Rolling instead of gliding

Over the years, Energy Chain® cable carriers have been used in increasingly longer travel distances. This drove igus® to develop Rol E-Chain®: a cable carrier specifically designed for long travel lengths with high speeds. Please contact igus® for more information. We will assist you in planning and design phase of your application.

Benefits:

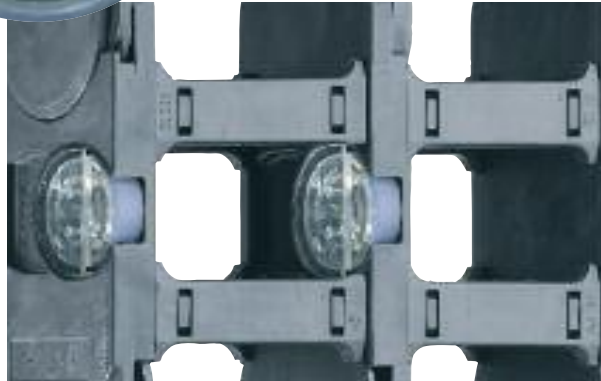
- Reduces drive power necessary for Energy Chains® to less than 25%
- Makes travel lengths up to 2,624.8 ft (800 m) and speeds up to 19.69 ft/s (6 m/s) possible
- Can be used in harsh, dirty environments
- Available as a custom-made, ready-to-install system
- Complete system guarantee for custom-made solutions

Application areas

Ideal for applications such as moving camera systems and material handling systems. Can also be used for considerable cost-savings (due to smaller drives) in slower-travel applications in the crane sector or traveling plants



Cutting the operating noise by approximately 6dB(A) through improved geometry of Energy Chain® link and roller. Stainless steel roller bearings are the igus® standard



Roller extension link for higher additional weights and widths up to 6.56 ft (2 m) and more



Travel of 1,448 ft. (441.3 m), implemented with igus® Rol E-Chain® Series 5050R

Product Range Rol E-Chain®

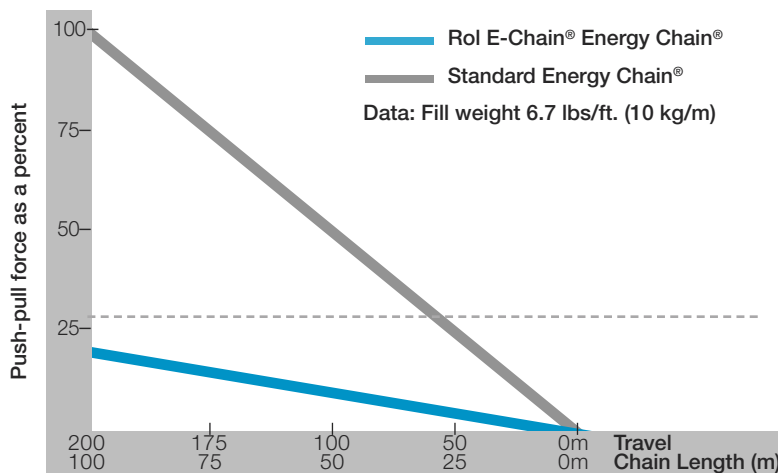
Interior heights of 1.26", 1.65", 2.20", and 3.15" (32, 42, 56, and 80 mm) can be supplied from stock. All interior separation and mounting bracket options of the igus® System E4 are available. The standard guide troughs of the various chains from stock can be used. Rol E-Chains® can be opened on both sides. The Rol E-Chain® is available as a made-to-spec Energy 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®.**

Selection table

Series	Inner height		Inner width		Outer width		Outer height		Bending radius	
	<i>hi</i>		<i>Bi</i>		<i>Ba</i>		<i>ha</i>		<i>R</i>	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
Rol E-Chain® - with crossbars every 2nd link										
2828R	1.26	(32)	1.97-15.75 (50-400)		2.87-16.65 (73-423)		2.13	(54)	4.92-11.81 (125-300)	
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)	
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)	
4040 RHD*	2.20	(56)	1.97-23.62 (50-600)		5.51-25.75 (140-654)		3.31	(84)	7.87-19.69 (200-500)	
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)	
5050 RHD*	3.15	(80)	1.97-25.98 (50-660)		6.30-27.95 (160-710)		4.25	(108)	7.87-19.69 (200-500)	
Rol E-Chain® - E-Tube, fully enclosed										
R7728R	1.26	(32)	1.97-11.81 (50-300)		2.87-16.65 (73-323)		2.13	(54)	9.84-11.81 (250-300)	
R7838R	1.65	(42)	1.97-11.81 (50-300)		3.03-16.81 (77-327)		2.52	(64)	4.92-13.78 (200-350)	
R8840R	2.20	(56)	2.95-18.19 (75-462)		4.37-19.65 (111-499)		3.31	(84)	11.81-19.69 (300-500)	
R9850R	3.15	(80)	2.95-18.19 (75-462)		4.92-20.20 (125-513)		4.25	(108)	11.81-39.37 (300-1000)	

- 5050R: for Energy Chain® widths up to 9.84 ft. (3000 mm) with extension link/roller extension link
- Series 2828R, 3838R, 4040R, 5050R are also available as AUTO-GLIDE rollers
- Details on the appropriate E4/4 Series ► **Chapter 6 - System E4/4**



The Rol E-Chain® roller Energy Chain® compared with a conventional Energy Chain System®



igus® Rol E-Chain® Series 5050R in a steel plant in India with highly corrosive atmosphere -
 Travel = 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)

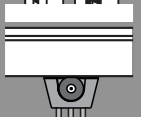
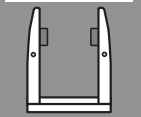
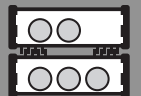
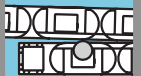


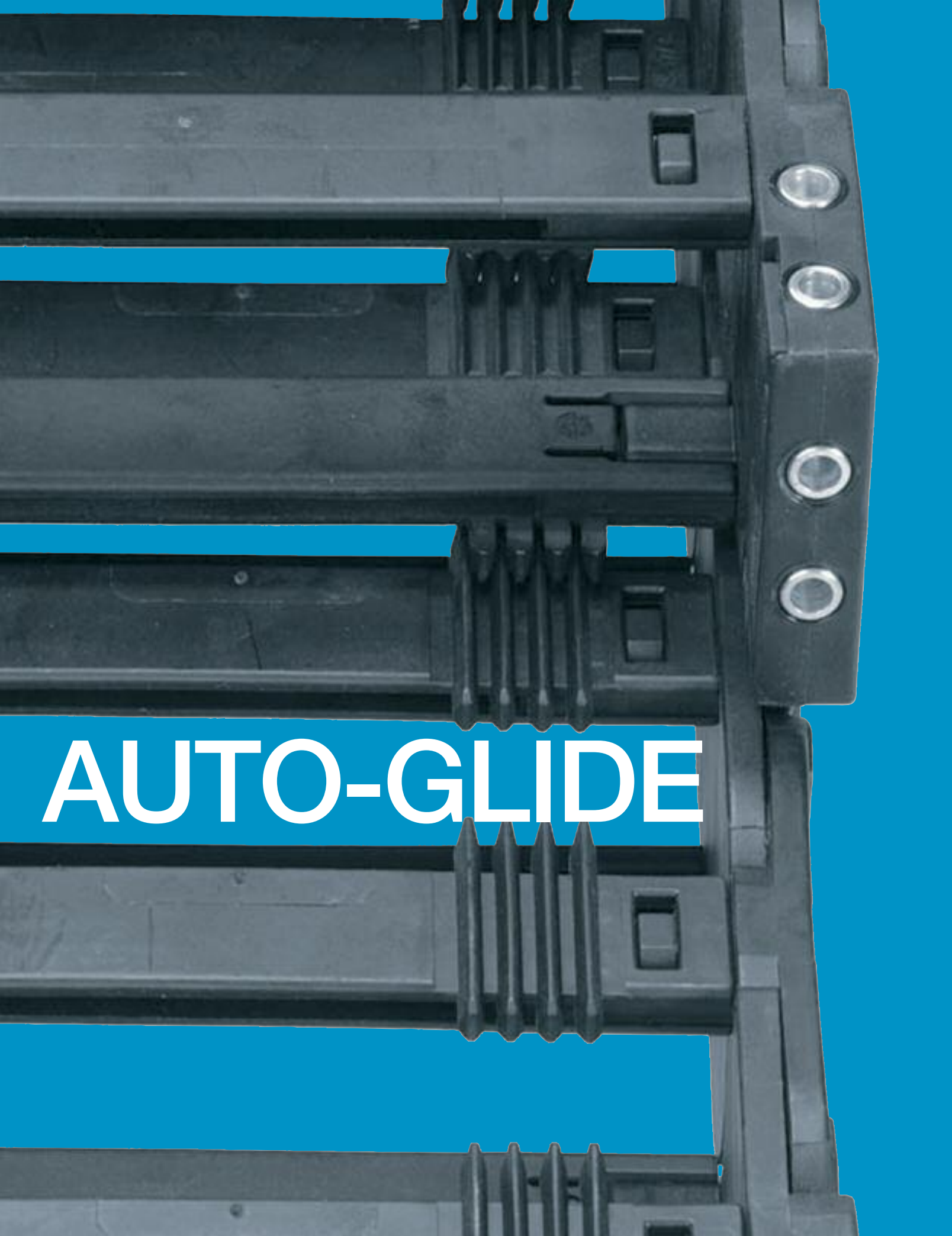
Series 4040R in steel works environment -
 Travel 34.5 ft (10.5 m), Speed 197 ft/min (60 m/min),
 Fill weight 4.09 lbs/ft (6.084 kg/m)



igus® Energy Chains® 5050RHD "Rol E-Chain®" in an igus® Aluminum SuperTrough = 75% less driving power

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS





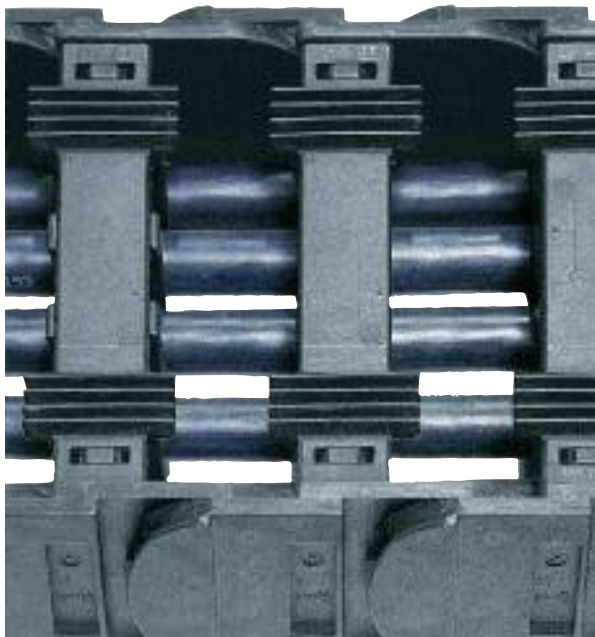
AUTO-GLIDE

Special solutions for long travel AUTO-GLIDE

AUTO-GLIDE

Long travel distances always pose special requirements on an Energy Chain System®. From a certain point, the upper run will glide on the lower run or on glide bars. Moreover, the Energy Chain System® requires additional guidance to prevent a lateral offset. In most instances a guide trough can be used, but for applications with optical or spatial limitations, there is AUTO-GLIDE: a self-aligning cable carrier that eliminates the need for a guide trough in applications with travel lengths up to 164 ft. (50 m)

- Travels up to 164 ft. (50 m)
- Travel speeds up to 4.92 ft/s (1.5 m/s)
- AUTO-GLIDE Energy Chain® requires, no additional parts
- Very quick installation times for long travels
- Guide troughs not required!
- Small installation width, silent operation
- Functional guarantee for the entire system with Chainflex® cables

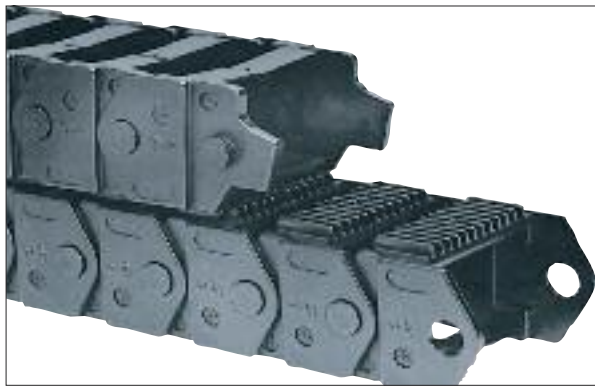


In principle every igus® Energy Chain® can be fitted with the AUTO-GLIDE system. However, we recommend its use with Energy Chain® where the interior height is less than 1.38" (35 mm), and you should also consult us, since there are restrictions regarding the bending radii to be used

There are 3 options of the igus® AUTO-GLIDE system:



Option 1 - is available for almost all System E4 Series - here the crossbars in the interior radius of the Energy Chain® are fitted with molded-on glide shoes



Option 2 - for igus® E-Z Chain Energy Chain® combination of the easily fillable E-Z Chain and injection-molded AUTO-GLIDE grooves in the inner radius

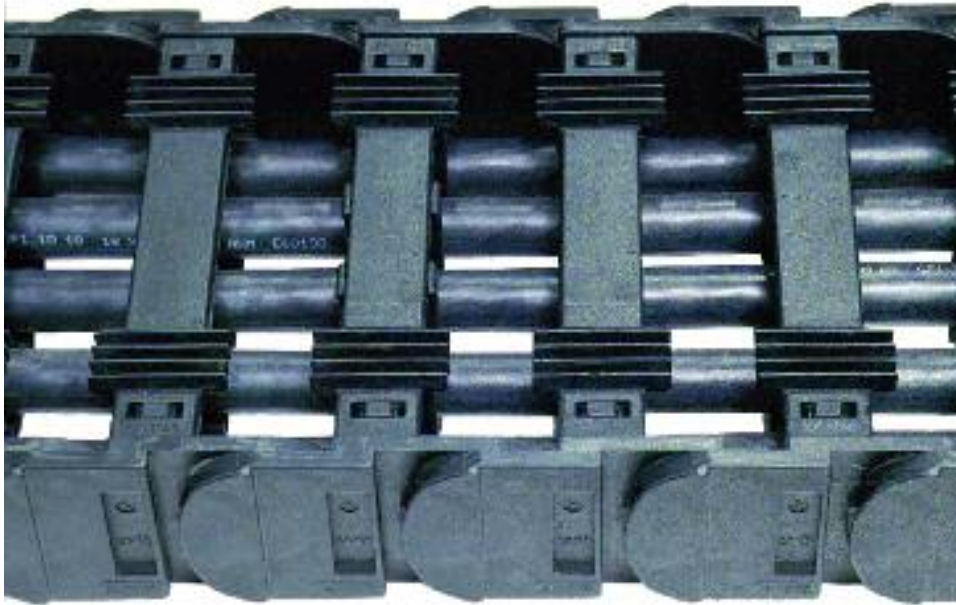


Option 3 - for E2 Series Energy Chains®: Special plastic glide shoes hold the Energy Chain® "in the track".

igus® Energy Chain System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>



Comb-like teeth ensure a safe guide without guide trough



AUTO-GLIDE System E4 is Available for all Chain Widths of the Following Series Upon Request

E4/00

Series 280 ▶ from Chapter 6

Series 380 ▶ from Chapter 6

Series 400 ▶ from Chapter 6

E4-1

Series E4-32 ▶ from Chapter 6

Series E4-42 ▶ from Chapter 6

Series E4-56 ▶ from Chapter 6

E4/4

Series 2828 ▶ from Chapter 6

Series 2822 ▶ from Chapter 6

Series 3838 ▶ from Chapter 6

Series 3822 ▶ from Chapter 6

Series 4040 ▶ from Chapter 6

Series 5050 ▶ from Chapter 6

E4/Light

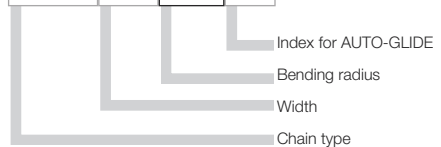
Series 14040 ▶ from Chapter 6

Series 14240 ▶ from Chapter 6

Series 15050 ▶ from Chapter 6

Part Number Structure

400- 20- 250- AG

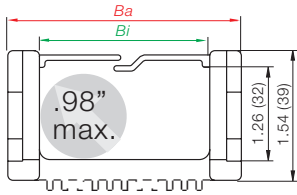


Special solutions for long travel AUTO-GLIDE - Option 2

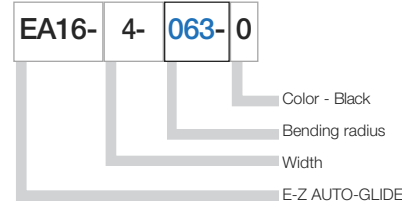


AUTO-GLIDE

Combination of AUTO-GLIDE and E-Z Chain Series EA16



Part Number Structure



Supplement part number with required radius. Example: EA16-4-060-0

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- -0	1.89 (48)	2.37 (60.2)
Choose from the radii below for the above size		
<i>Radius</i> (mm) Example: EA16-4- 060 -0		
	060	075
<i>R</i>	2.36 (060)	3.94 (100)
<i>H*</i>	6.26 (159)	9.41 (239)
<i>D</i>	4.33 (110)	6.10 (155)
<i>K</i>	10.63 (270)	15.55 (395)

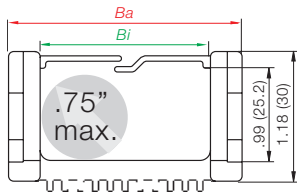
Pitch = 1.20 (30.5 mm)
Links per ft (m) = 10.06 (33)
Chain length = S + K

The required clearance height is HF=H + .98 (25 mm).
Other sizes upon request

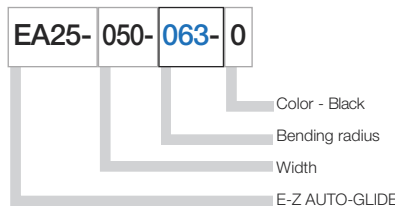
For mounting Brackets

► Chapter 2

Combination of AUTO-GLIDE and E-Z Chain Series EA25



Part Number Structure



Supplement part number with required radius. Example: EA25-050-063-0

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)
EA25-050- -0	1.89 (48)	2.37 (60.2)
Choose from the radii below for the above size		
<i>Radius</i> (mm) Example: EA25-050- 063 -0		
	060	075
<i>R</i>	2.48 (063)	3.94 (100)
<i>H*</i>	6.14 (156)	9.06 (230)
<i>D</i>	4.92 (125)	6.30 (160)
<i>K</i>	9.84 (250)	14.76 (375)

Pitch = .98 (25 mm)
Links per ft (m) = 12.2 (40)
Chain length = S + K

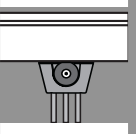
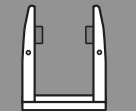
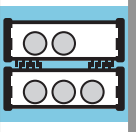
The required clearance height is HF=H + .98 (25 mm).
Other sizes upon request

For mounting Brackets

pivoting set:
EA25-050-12PZ

Locking set:
EA25-050-34PZ

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS

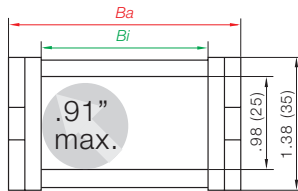


For Energy Chain Systems® up to 1.38" (35 mm) inner height

In this version, special plastic glide shoes are side-mounted on the Energy Chain® link every 39.4" to 78.7" (1,000 to 2,000 mm). The function of these gliding shoes resembles the leeboards used on sail boats. Some of these leeboards are conceived in such a way that in contact they pivot upward and enable the continuation of the travel. Similarly the glide shoes in AUTO-GLIDE go up and down, each according to its position as lower run or upper run of the E-Chain®. They provide for the precise lateral guidance and a smooth gliding of the Energy Chain®.

- The first 13.12 ft. (4 m) of the Energy Chain® seen from the moving end needs no gliding shoes. From the fixed end of the Energy Chain®, the glide shoes are **mounted on every 20th Energy Chain® link** up to 13.12 ft. (4 m) before the moving end
- Series 200/240/250 allow up to (15 m) length without further glide shoes

**AUTO-GLIDE System E2
 Series 200/240/250**



Part Number Structure



Chain length = $S + K_2$

Number of glide shoes = $\frac{\text{Chain length [ft]} - 13.12 \text{ ft}}{3 \text{ ft}}$

Supplement part number with required radius. Example: 250-10-**100**-0-AG
 Pitch: 1.81 in. (46 mm) per link links/ft (m) = 6.71 (22)

Part Number						<i>Bi</i>	<i>Ba</i>
Non Snap-open	Snap-open Inner Radius	Snap-open Outer Radius				in. (mm)	in. (mm)
200-02	240-02	250-02	<input type="checkbox"/>	-0-AG		.98 (25)	1.61 (41)
200-03-	240-03	250-03	<input type="checkbox"/>	-0-AG		1.50 (38)	2.13 (54)
200-05-	240-05	250-05	<input type="checkbox"/>	-0-AG		2.24 (57)	2.87 (73)
200-07-	240-07	250-07	<input type="checkbox"/>	-0-AG		3.03 (77)	3.66 (93)
200-09-	240-09	250-09	<input type="checkbox"/>	-0-AG		3.54 (90)	4.17 (106)
200-10	240-10	250-10	<input type="checkbox"/>	-0-AG		4.06 (103)	4.69 (119)
200-12	240-12	250-12	<input type="checkbox"/>	-0-AG		4.92 (125)	5.55 (141)

Choose from the radii below for all of the above sizes

Radius (mm) Example: 250-10-**100**-0-AG

	055	075	100	125	150	175	200	225	250
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+4	5.71 (145)	7.28 (185)	9.25 (235)	11.22 (285)	13.19 (335)	15.16 (385)	17.13 (435)	19.09 (485)	21.06 (535)
D	4.92 (125)	5.91 (150)	6.69 (170)	7.68 (195)	8.66 (220)	9.65 (245)	10.63 (270)	11.61 (295)	12.60 (320)
K	10.87 (276)	13.62 (346)	16.30 (414)	19.53 (496)	22.76 (578)	25.98 (660)	29.21 (742)	32.05 (814)	36.22 (920)

The required clearance height: $H_f = H + .98 \text{ in. (25 mm)}$

(with 1.01 lbs/ft (1.5 kg/m) fill weight.

Please consult igus® if space is particularly restricted.

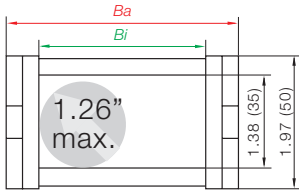
Special solutions for long travel

AUTO-GLIDE - Option 3 - Series 26/27/27i



AUTO-GLIDE

AUTO-GLIDE System E2 Series 26/27/27i



Part Number Structure

26- 10- 100- 0- AG



$$\text{Chain length} = S + K_2$$

$$\text{Number of glide shoes} = \frac{\text{Chain length [ft]} - 13.12 \text{ ft}}{3 \text{ ft}}$$

Supplement part number with required radius. Example: 26-10-100-0-AG
Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.49 (18)

Part Number		Part Number		<i>Bi</i>	<i>Ba</i>
Non Snap-open	Snap-open Outer Radius	Snap-open Inner Radius		in. (mm)	in. (mm)
26-05-	27-05-	27i-05-	<input type="checkbox"/> -0-AG	1.97 (50)	2.60 (66)
26-07-	27-07-	27i-07-	<input type="checkbox"/> -0-AG	2.95 (75)	3.58 (91)
26-10-	27-10-	27i-10-	<input type="checkbox"/> -0-AG	3.94 (100)	4.57 (116)
26-12-	27-12-	27i-12-	<input type="checkbox"/> -0-AG	4.92 (125)	5.55 (141)
26-15-	27-15-	27i-15-	<input type="checkbox"/> -0-AG	5.91 (150)	6.54 (166)
26-17-	27-17-	27i-17-	<input type="checkbox"/> -0-AG	6.89 (175)	7.64 (194)
26-20-	27-20-	27i-20-	<input type="checkbox"/> -0-AG	7.87 (200)	8.62 (219)

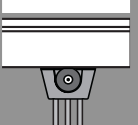
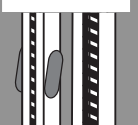
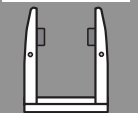
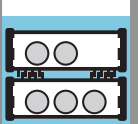
Choose from the radii below for all of the above sizes

Radius (mm) Example: 26-10-100-0-AG

	063	075	100	125	150	175	200	250
R	2.48 (063)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
H ⁺⁴	7.09 (180)	7.87 (200)	9.84 (250)	11.81 (300)	13.78 (350)	15.75 (400)	17.72 (450)	21.65 (550)
D	5.51 (140)	5.91 (150)	6.89 (175)	7.87 (200)	8.86 (225)	9.84 (250)	10.83 (275)	12.80 (325)
K	13.19 (335)	14.76 (375)	18.70 (475)	21.65 (550)	25.59 (650)	29.53 (750)	32.48 (825)	36.42 (925)

The required clearance height: $H_f = H + 1.38 \text{ in. (35 mm)}$
(with 1.34 lbs/ft (2 kg/m) fill weight).
Please consult igus® if space is particularly restricted.

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS





Guidelok horizontal

Special solutions for long travel

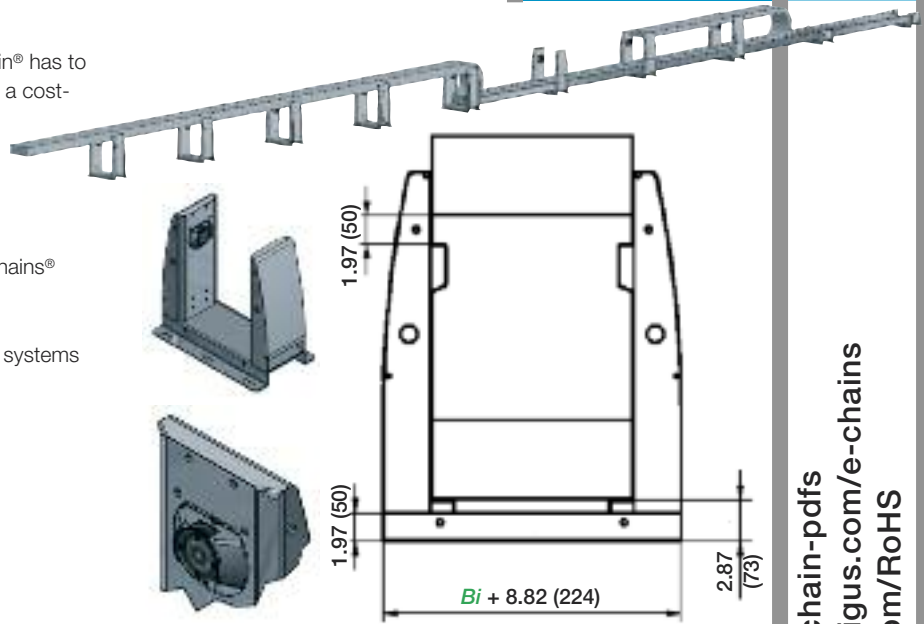
Guidelok horizontal - upper run guide for long travel



Upper run guide for long travels, self-supporting in chip areas

Especially for long travels on machine tools, if the Energy Chain® has to be gliding, metallic chips are a problem. Guidelok horizontal is a cost-effective solution

- Travels, unsupported, up to 164 ft. (50 m) possible
- Chips cannot get stuck between upper and lower run
- Modular system with few parts (also possible without sideways trough)
- Enormous increase of "self supporting" length of Energy Chains®
- Lower push-/pull forces (smaller Energy Chains®, self supporting and rollers = energy efficient)
- Lower cost than most steel chains or sophisticated gliding systems
- Open guide trough design, chips can fall through



Typical industries and applications

- Machine tools
- Applications in the chip area
- Wherever a gliding application is not recommended

Design-principle - horizontal Guidelok guides the Energy Chain® on special spring loaded roller supports that are pushed back by the Energy Chain's® radius, clearing its path



The Energy Chain® is guided in the trough channel, pushing back the spring loaded roller support with its radius...

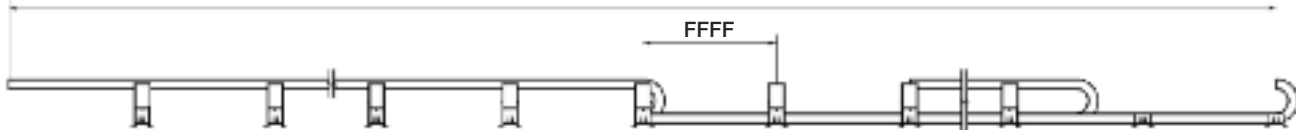


...which snaps back out after the Energy Chain® radius has passed...



...the upper run then lays on the roller support.

$$LLLL = S$$



Principle sketch - Guidelok horizontal

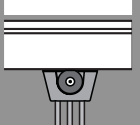
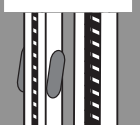
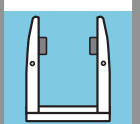
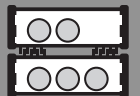
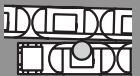
Selection table

For Series	Part Number	Bi (mm)	R (mm)
E4-56/R4-56	907-645-Bi - R - LLLL/FFFF	(50 - 600)	150, 175, 200, 250, 300
E4-80/R4-80	907-645-Bi - R - LLLL/FFFF	(50 - 600)	150, 175, 200, 250, 300
600/R608	907-645-Bi - R - LLLL/FFFF	(200 - 600)	150, 175, 200, 250, 300
E4-56/R4-56	907-837-Bi - R - LLLL/FFFF	(50 - 600)	350, 400, 450, 500
E4-80/R4-80	907-837-Bi - R - LLLL/FFFF	(50 - 600)	350, 400, 450, 500
600/R608	907-837-Bi - R - LLLL/FFFF	(200 - 600)	350, 400, 450, 500

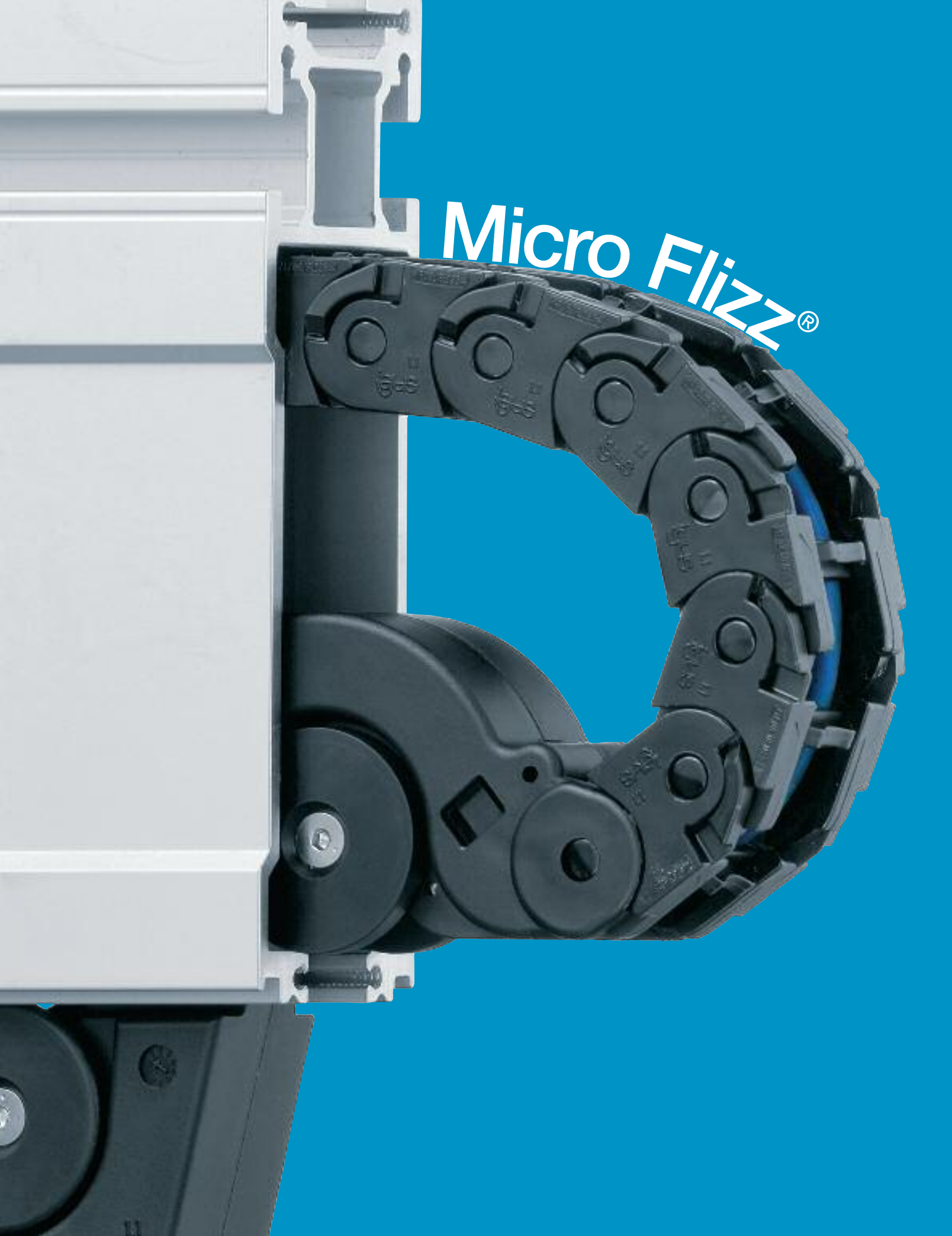
LLLL = Total Length

FFFF = Field Length

PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



Micro Flizz®



Energy Chain Systems®

Micro Flizz - Small Energy Chains® in aluminum profile



Master long travels with the smallest Energy Chain® without failures

- ONE compact system for a secure guidance of power, data and air
- Maintenance-free alternative for busbar
- Energy Chain® is guided in special slot, long travels with no gliding
- Control via stationary switch cabinet possible
- Accelerations up to 164 f/s² (50 m/s²) and speeds up to 19.69 f/s (6 m/s)
- Fast assembly due to pre-configured, modular system
- Less space required
- Available also as pre-assembled
- Smooth running due to ball bearings in the guide carriages
- Also with EX tested Energy Chain® available (on request)
- Rail material: anodized aluminum
- iF-Design Award

Cable diameter
MF06: max. Ø .31" (8.0 mm)
MF08: max. Ø .37" (9.5 mm)

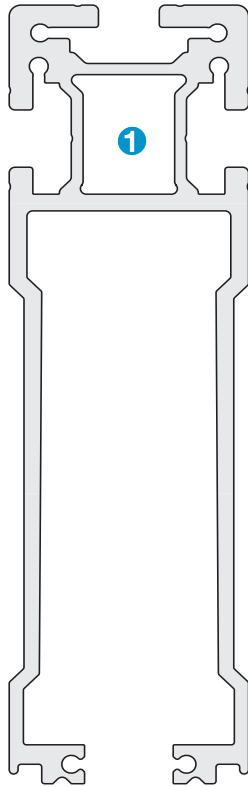
Typical industries and applications

- Rack feeder • Indoor cranes • Industrial gates • Working stations
- Sewage treatment plants • Camera systems
- Sliding doors • Operator panels • Measure systems
- Studio equipment • Conveyor technique

Special feature of the Micro Flizz® construction

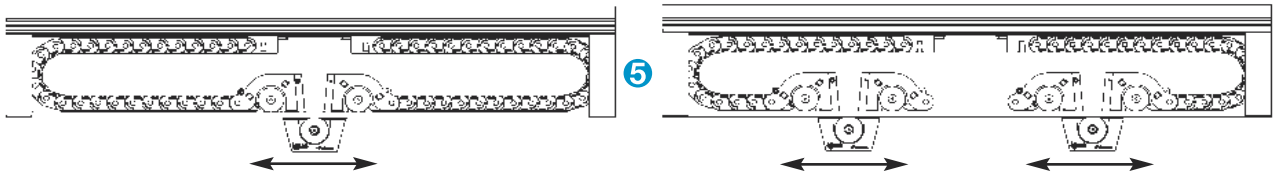
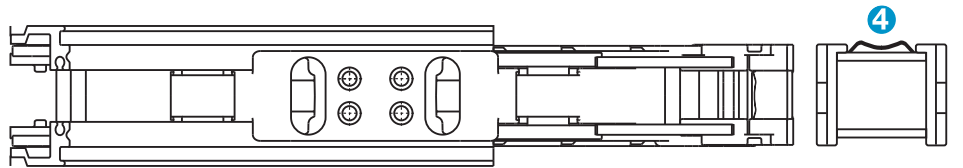
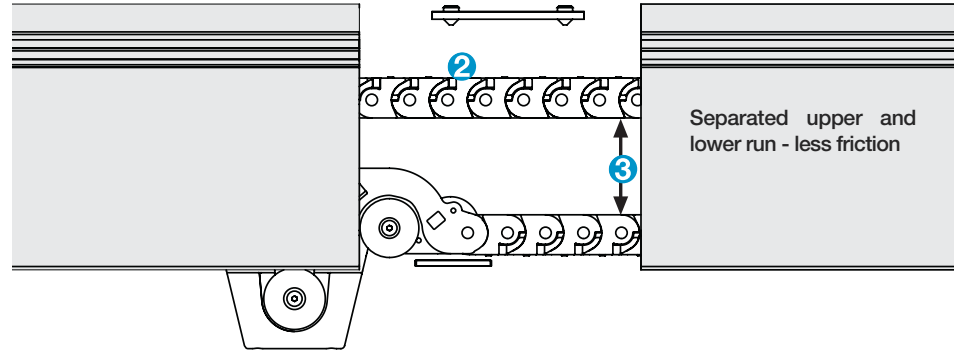
Yesterday: Moving lower run, sliding function. Long travels need stable Energy Chains®.

Today: Micro Flizz® - Small Energy Chains®, self-guiding in guiding channel - Friction is reduced by factor 3 over the conventional system.



Technical data Micro Flizz®

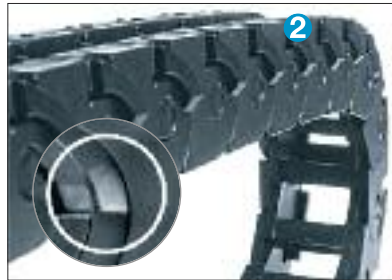
- 1 Universal attachment options due to three T-grooves
- 2 Winglets hold the E-Chain® secure in the guidance channel
- 3 Separated upper and lower run of the Flizz® E-Chain®, thus less friction and reduced push/pull forces
- 4 Polymer springs for a soft unrolling of the E-Chain® in the Flizz® channel effect a substantial noise reduction
- 5 Opposed E-Chains® can be used, that means a double filling or two independent travels are possible
- 6 Attachment of the E-Chain® by roller cart on the moving end, gliding or locking possible
- 7 Integrated strain relief in the guide carriage for the safe fixing of cables



Details Micro Flizz®



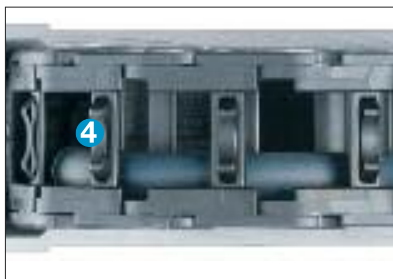
Separated upper and lower run: Running trough the radius, integrated winglets fold in



In the extended position, the winglets fold out and safely hold the upper run in the elevated position



Power, data, pneumatics in confined areas. Chainflex® cables are specifically designed for this challenge



A polymer spring element cushions the motion inside the trough and lower noise

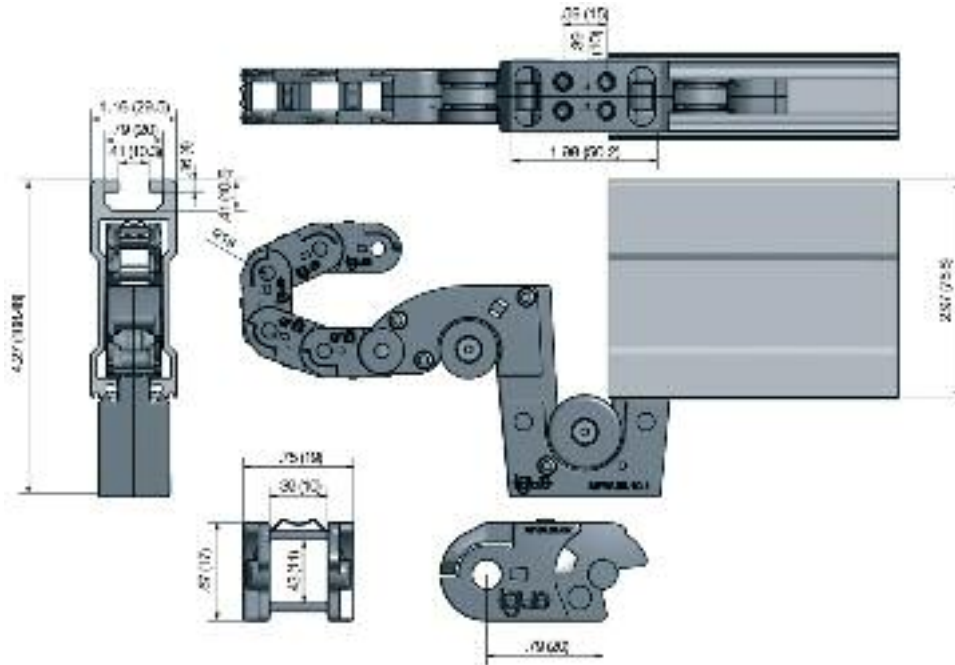


Micro Flizz® accessory: Connection for compressed air coupling



Potential application area of the Micro Flizz® - Storage and retrieval units for high-bay warehouses, indoor cranes, etc.

Micro Flizz® Series MF06 - Part No. MF-06-10-018

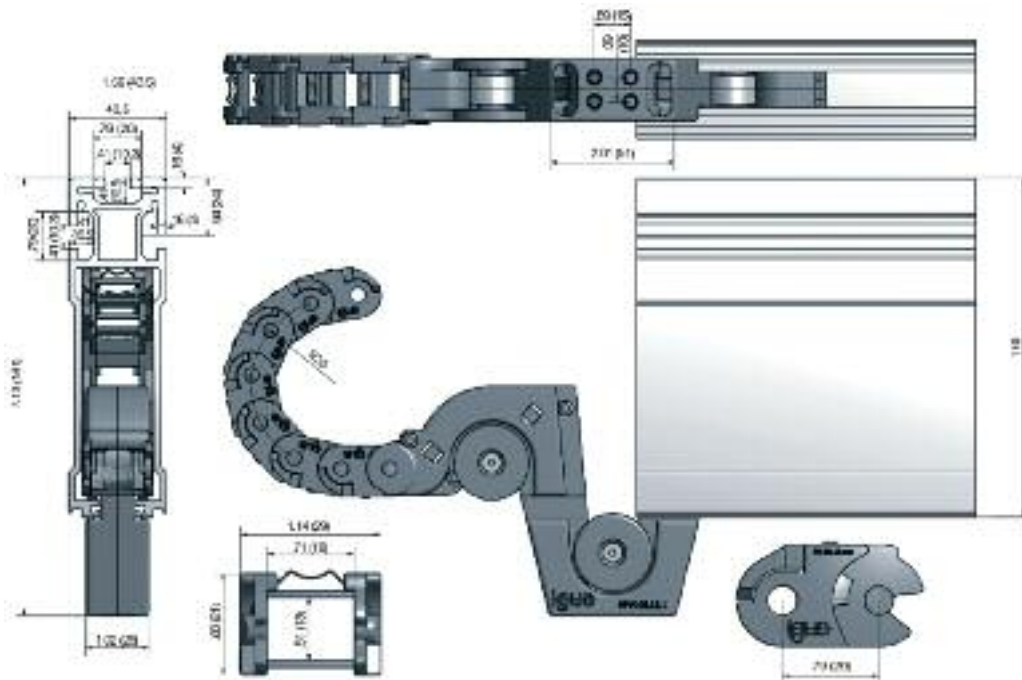


Micro Flizz® Series MF06 - Dimensions

Part No.	<i>Bi</i>	<i>Ba</i>	<i>hi</i>	<i>ha</i>	<i>R</i> Bending radius
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	(mm)
MF-06-10-018	.39 (10)	.75 (19)	.43 (11)	.67 (17)	018

order example ► next page

Micro Flizz® Series MF08 - Part No. MF-08-18-035

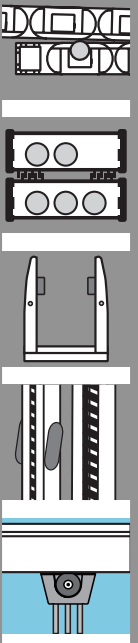


Micro Flizz® Series MF08 - Dimensions

Part No.	<i>Bi</i>	<i>Ba</i>	<i>hi</i>	<i>ha</i>	<i>R</i> Bending radius
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	(mm)
MF-08-18-035	.71 (18)	1.14 (29)	.51 (13)	.83 (21)	035

order example ► next page

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFG: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



Order example - End feed

MF	06-	10-	018-	L / F
MF	08-	18-	035-	L / F

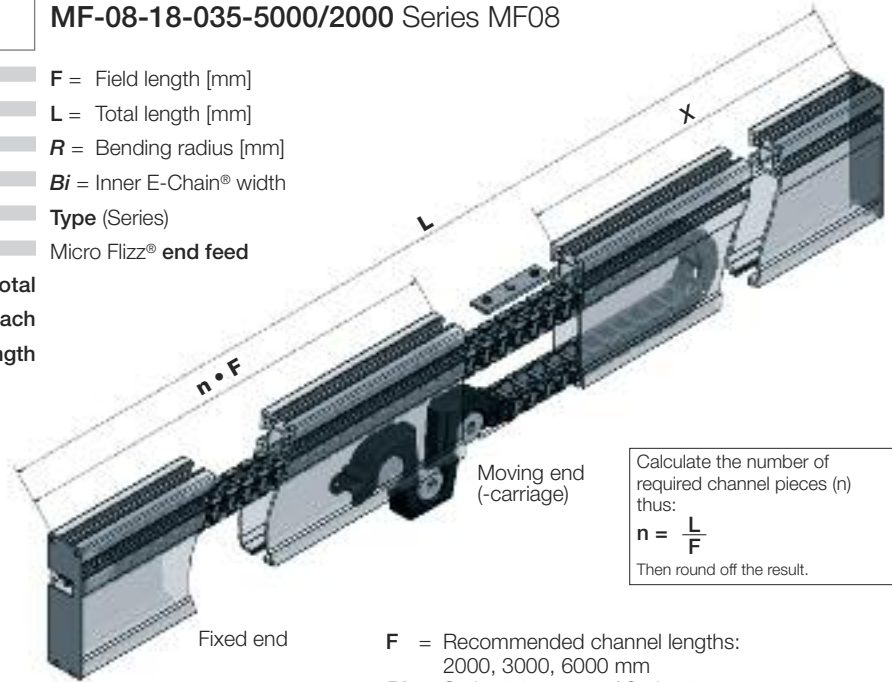
MF-06-10-018-5000/2000 Series MF06

MF-08-18-035-5000/2000 Series MF08

- F = Field length [mm]
- L = Total length [mm]
- R = Bending radius [mm]
- Bi = Inner E-Chain® width
- Type (Series)
- Micro Flizz® end feed

Micro Flizz® as end feed option with a total length of 5000 mm, split into 2 channels each 2000 mm and 1 channel with a residual length of 1000 mm

- Bi = Inner E-Chain® width [mm]
- R = Bending radius [mm]
- n = Number of channel pieces
- S = travel = L - 300 [mm]
- F = Field length [mm]
- L = Total length [mm]
- X = residual length [mm]



Calculate the number of required channel pieces (n) thus:

$$n = \frac{L}{F}$$
 Then round off the result.

- F = Recommended channel lengths: 2000, 3000, 6000 mm
- Bi = Series 06: 10 mm / Series 08: 18 mm
- hi = Series 06: 11 mm / Series 08: 13 mm

Order example - 2 carriages in opposite directions

MFG2	06-	10-	018-	L / F
MFG2	08-	18-	035-	L / F

MFG2-06-10-018-10000/3000 Series MF06

MFG2-08-18-035-10000/3000 Series MF08

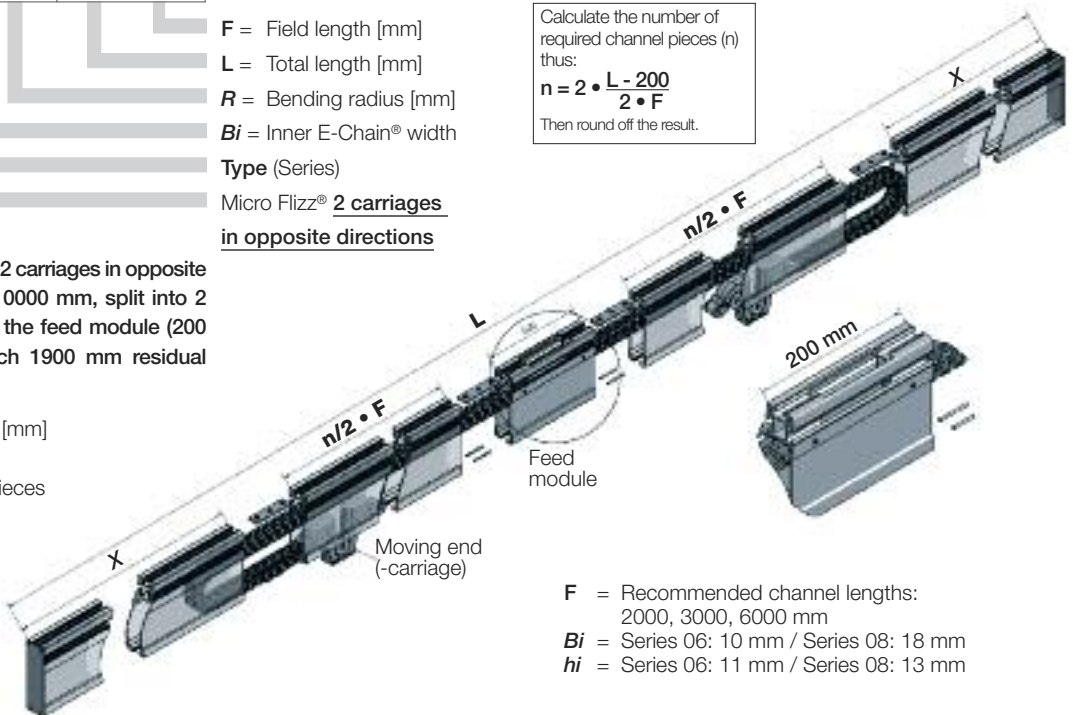
- F = Field length [mm]
- L = Total length [mm]
- R = Bending radius [mm]
- Bi = Inner E-Chain® width
- Type (Series)
- Micro Flizz® **2 carriages** in opposite directions

Micro Flizz® mounted with 2 carriages in opposite directions - Total length 10000 mm, split into 2 channels each 3000 mm, the feed module (200 mm) and 2 channels each 1900 mm residual length.

- Bi = Inner E-Chain® width [mm]
- R = Bending radius [mm]
- n = Number of channel pieces
- S = travel = L - 300 [mm]
- F = Field length [mm]
- L = Total length [mm]
- X = residual length [mm]





Calculate the number of required channel pieces (n) thus:

$$n = 2 \cdot \frac{L - 200}{2 \cdot F}$$
 Then round off the result.



- F = Recommended channel lengths: 2000, 3000, 6000 mm
- Bi = Series 06: 10 mm / Series 08: 18 mm
- hi = Series 06: 11 mm / Series 08: 13 mm

Highly flexible Chainflex® special cables for dynamic applications

Chainflex®	Temp.	v max. unsupported		v max. gliding		a max.		Number of cores	AWG Range
		ft/s	(m/s)	ft/s	(m/s)	ft/s²	(m/s²)		
 CF9	-31°F - +212°F	32.8	(10)	19.7	(6)	328	(100)	2 - 36	24-2
 CF10	-31°F - +212°F	32.8	(10)	16.4	(5)	328	(100)	2 - 25	26-12
 CF98	-31°F - +194°F	32.8	(10)	19.7	(6)	328	(100)	2 - 8	26-22
 CF99	-31°F - +194°F	32.8	(10)	19.7	(6)	328	(100)	2 - 8	26-22

Chainflex® cables suitable for Micro Flizz® are available from stock at igus®!

MF06 - max. cable outer diameter ø 8.0 mm, MF08 - max. cable outer diameter ø 9.5 mm



Micro Flizz® in an outdoor application with 30 m travel

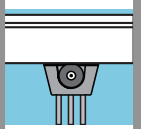
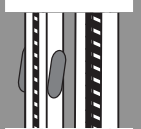
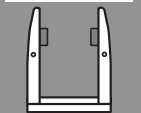
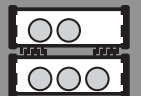
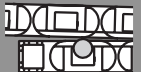


Safe energy supply under strong dust
and dirt accumulation with igus® Micro Flizz®



Micro Flizz® as "energy supplying rail guide"
for a scale to weigh chemicals, etc.

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS



igus® Energy Chain
System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>



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