Now in the E4.1 range due to the design principle!
E4.1 | Series 800

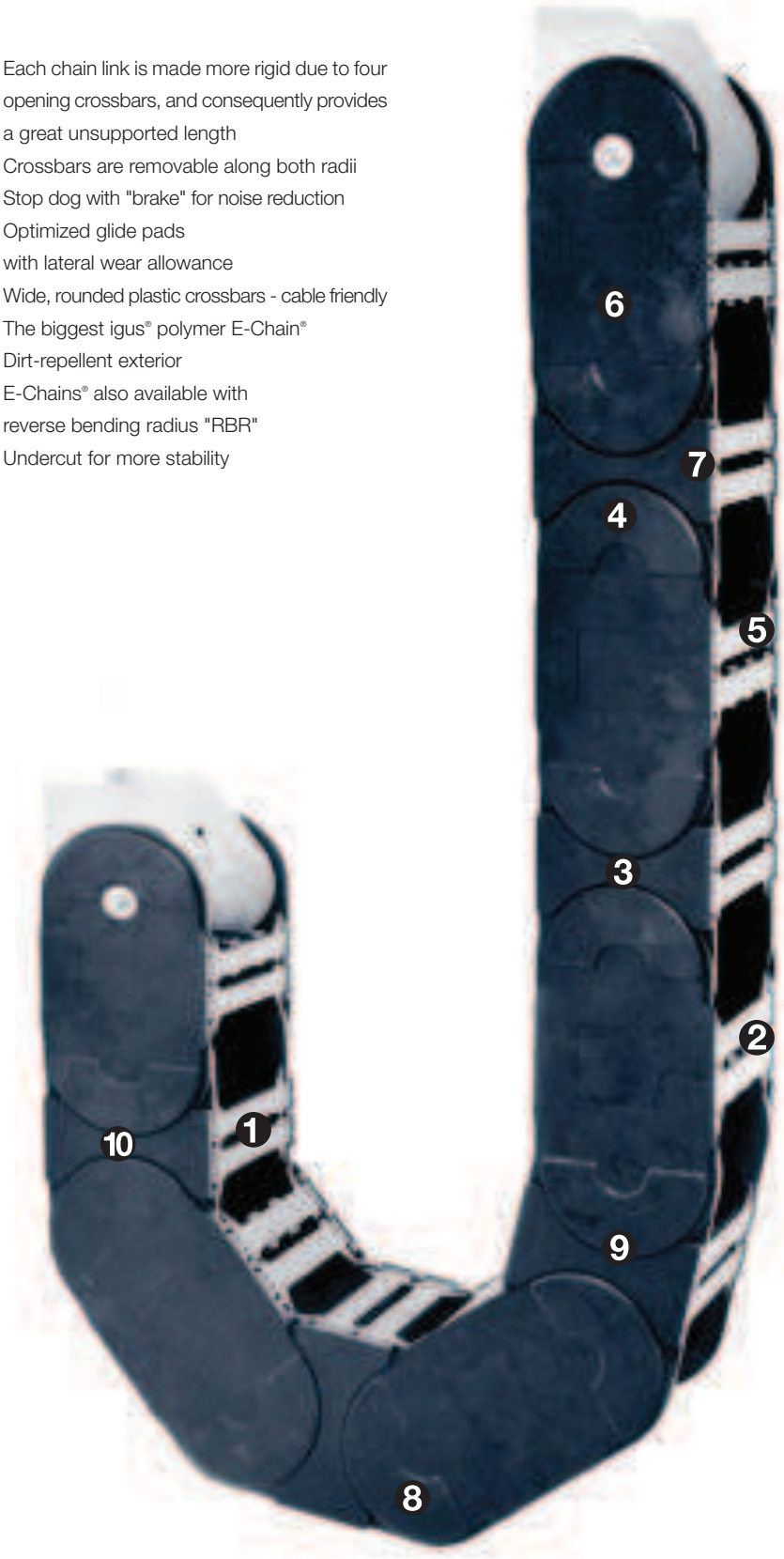
Price index

ESD classification:
Electrically conductive ESD/ATEX version upon request

1. Each chain link is made more rigid due to four opening crossbars, and consequently provides a great unsupported length
2. Crossbars are removable along both radii
3. Stop dog with "brake" for noise reduction
4. Optimized glide pads with lateral wear allowance
5. Wide, rounded plastic crossbars - cable friendly
6. The biggest igus® polymer E-Chain®
7. Dirt-repellent exterior
8. E-Chains® also available with reverse bending radius "RBR"
9. Undercut for more stability

Opening E-Chains®: Remove crossbars and clips - Insert screwdriver into the slot, push down, release by lever action. Repeat action for the other side

You can find an assembly video on the web ▶ www.igus.de/en/800_assembly



When to use the Series 800:
- If a particularly big and stable E-Chain® is required
- At very high speeds and/or accelerations
- For long travels
- For high additional loads

When not to use it:
- If a lighter, less stable E-Chain® with identical inner height is required
  ▶ **Series 840, page 7.106**

Order example complete E-Chain®

Please indicate chain-lengths or number of links **Example: 5 m or 20 links**

5 m **800.30.350.0**	**E-Chain®**
with 2 separators **8011** assembled every 2nd link	**Interior separation**
1 set **8000.1.12**	**Mounting bracket**

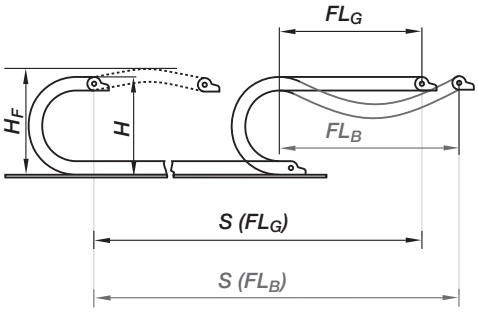
Available from stock. Delivery in 24h or today! (Delivery time means time until shipping of goods)

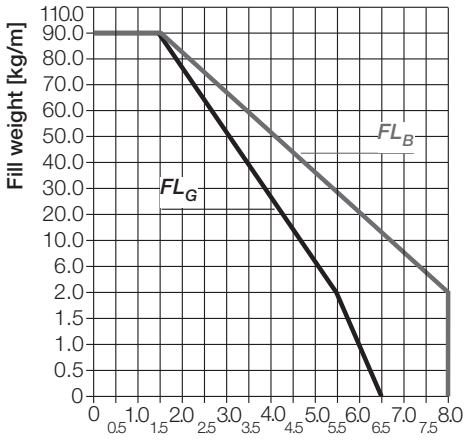
Unsupported length

FL_G = with straight upper run

FL_B = with permitted sag

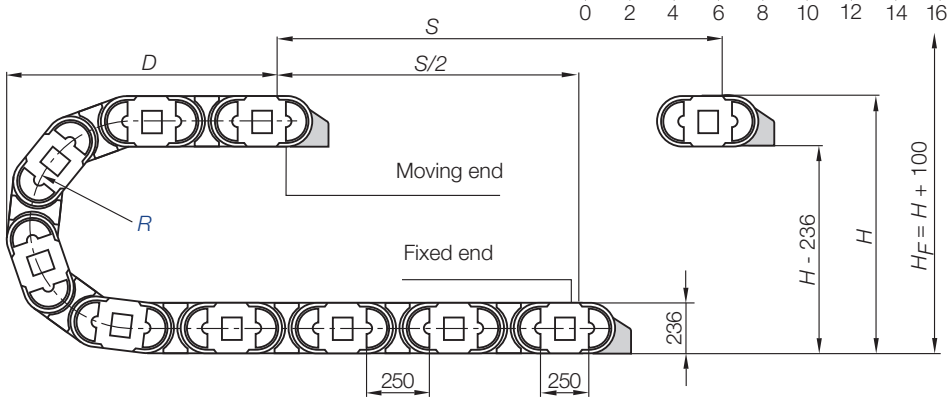
Further information ▶ **Design, page 1.12**





Length of travel S [m]

0 2 4 6 8 10 12 14 16



Pitch = 250 mm/link **Links/m =** 4 (1000 mm) **Chain length =** $S/2 + K$

R	325	350	400	450	500	600	750	1000
H	886	936	1036	1136	1236	1436	1736	2236
D	725	750	800	850	900	1000	1150	1400
K	1525	1600	1760	1915	2075	2385	2860	3645
H_2	*	*	*	*	*	*	*	*
D_2^{+25}	*	*	*	*	*	*	*	*
K_2	*	*	*	*	*	*	*	*

*upon request

S = Length of travel

R = Bending radius

H = Nominal clearance height

H_F = Required clearance height

H_{RI} = Trough inner height

D = Overlength E-Chain® radius in final position

K = $\pi \bullet R$ + "safety"

D_2 = Over length - long travels, gliding

K_2 = *Further add-on

H_2 = *Mounting height

*if the mounting bracket location is set lower

Other installation methods
Vertical, hanging ≤ 120 m
Vertical, standing ≤ 6 m
Side mounted, unsupp. ≤ 6 m
Rotary requires further calculation
Unsupported length of upper run = upon request

Standard

Short travels - unsupported

Unsupported E-Chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F. Please consult igus® if space is particularly restricted.

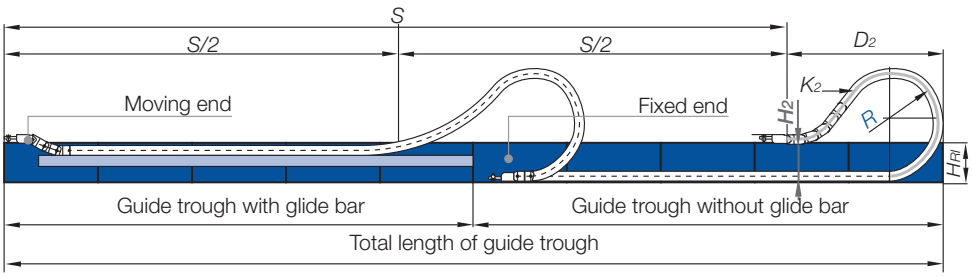
The required clearance height:

$H_F = H + 100$ mm

(with 5,0 kg/m fill weight)

Long travel lengths from 10 m to max. 450 m

Chain length = $S/2 + K_2$



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

Gliding, long travel applications (max. 450 m)

In this case the E-Chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians.

Technical Data

Speed / acceleration FL_G	max. 20 [m/s] / max. 200 [m/s²]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s²]
Gliding speed / acceleration (maximum)	max. 10 [m/s] / max. 50 [m/s²]
Material - permitted temperature °C	igumid G / -40° up to +120° C
Flammability class, igumid G	VDE 0304 IIC UL94 HB

Details of material properties

▶ **page 1.38**

▶ page 7.123

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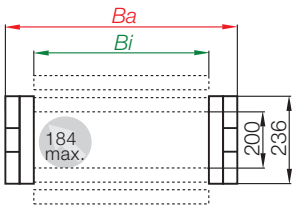
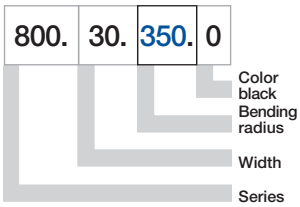
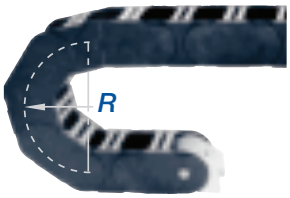
E4.1 | Series 800 | Product Range



Part No. structure



Series 800 - E-Chain® with crossbars every link



- E-Chains® of this size are basically used with crossbars every link
- Robust version
- Can be opened from two sides
- Removable crossbars

Part No.	Bi [mm]	Ba [mm]	Weight [kg/m]
800.20. ☐ .0	200	260	≈ 15,09
800.25. ☐ .0	250	310	≈ 15,50
800.30. ☐ .0	300	360	≈ 15,89
800.32. ☐ .0	325	385	≈ 16,05
800.35. ☐ .0	350	410	≈ 16,22
800.40. ☐ .0	400	460	≈ 16,74
800.45. ☐ .0	450	510	≈ 16,88
800.50. ☐ .0	500	560	≈ 17,23
800.55. ☐ .0	550	610	≈ 17,63
800.60. ☐ .0	600	660	≈ 18,19

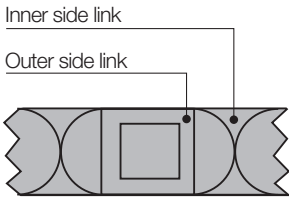
Available bending radii

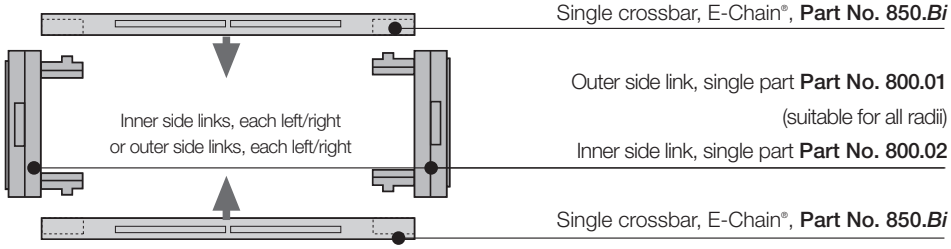
R [mm] 325 | 350 | 400 | 450 | 500 | 600 | 750 | 1000

Supplement Part No. with required radius. Example: 800.30. 350 .0

0 = standard color, other colors ▶ page 1.39 · Pitch = 250 mm/link - Links/m = 4

Part No. E-Chain® links, single parts





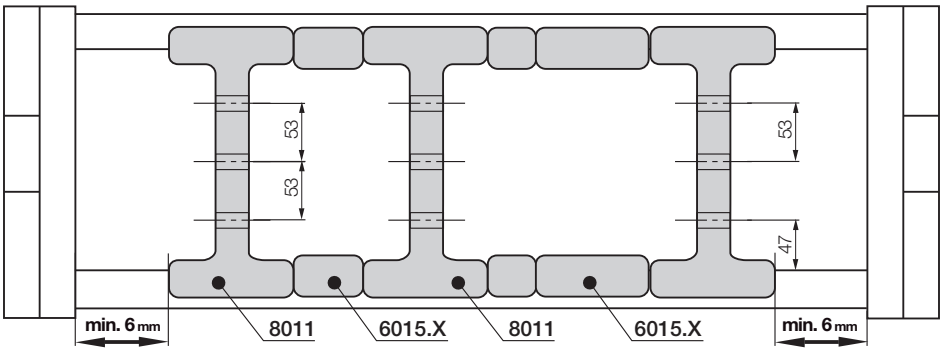
Single crossbar, E-Chain®, **Part No. 850.*Bi***

Outer side link, single part **Part No. 800.01**
(suitable for all radii)

Inner side link, single part **Part No. 800.02**

Single crossbar, E-Chain®, **Part No. 850.*Bi***

3D-CAD files, pdf-downloads and many online features ▶www.igus.de/en/800

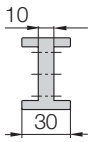


Vertical separators are used if a vertical subdivision is required. In the standard configuration, a separator is mounted at every second E-Chain® link. **Note:** Observe a lateral spacing of at least 6 mm!

Vertical separators and spacers

● **Standard separator 8001 for E-Chains®** offers safe stability due to its wide base design, also when used with thick cables or hoses.

● Separators (e.g. "side mounted") for E-Chains® can be fixed in their position with **spacers 6005.XX**. The available inner height will be reduced by 2 mm, per spacer and side. To avoid this, the parts can be assembled on outside of the crossbar (not for long travels) **XX = width of the spacer** (available 10, 15, 20 mm)



Vertical separator for E-Chains®	
unassembled	**8001**
assembled	**8011**

Spacer* for E-Chains®	
unassembled	**6005.XX**
assembled	**6015.XX**

*For side-mounted applications

Vertical separator 8001

Spacer 6005.XX

System E4/00
Inner height: 200 mm
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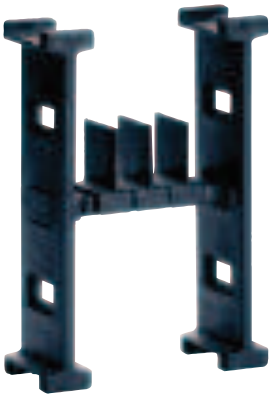
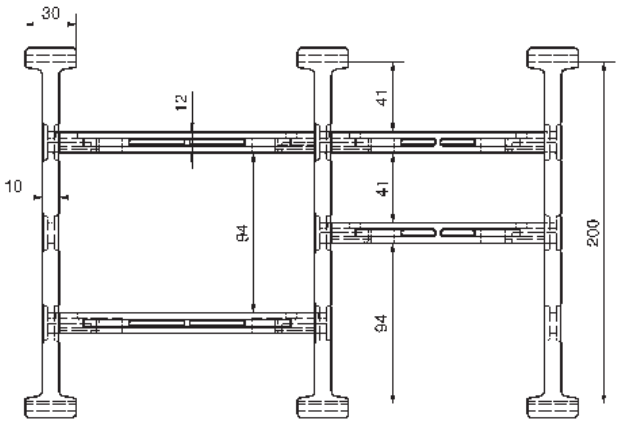
Modular E4 shelving system safeguides large cables - Series 800

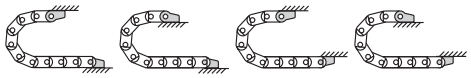




- Easy assembly
- Robust, also for large cable diameters
- Modular
- Widths from 50 to 600 mm

Part No. unassembled	Part No. assembled	Snap in tab	Part No. separator	Part No. crossbar	Width [mm]
8001H1	**8011H1**	single-sided	**8001**	**450.XX**	50-600
8001H2	**8011H2**	double-sided	**8001**	**450.XX**	50-600

▶ page 7.15



Possible installation conditions -

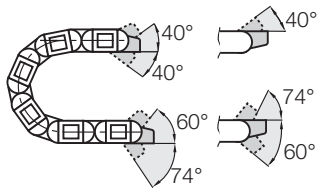
Further installation angles ▶ installation sketch

Option steel - pivoting

- For pivoting connections
- One part (two-piece) for all chain widths
- Electrically conductive

Moving end

8000.1



Fixed end

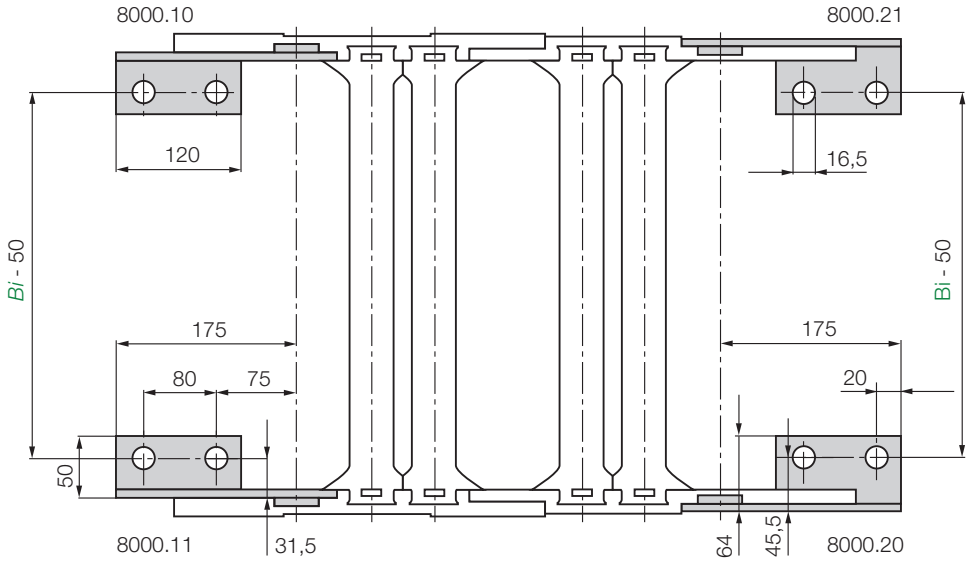
8000.2

Moving end

8000.1

Fixed end

8000.2



Note mounting brackets:

Depending on the E-Chain® length, the carrier will end with outer or inner side links. For the best appearance, make sure the chain ends with outer side link whenever possible. An odd number of links will always end with outer side links.

Part No.	Mounting bracket
8000.[1].12	Full attachment set (both sides) for E-Chain®, ending with outer side link
8000.[3].12	Full attachment set (both sides) for E-Chain®, beginning with outer side link (moving end), ending with inner side link (fixed end)
8000.1	Mounting bracket set **moving end** (one side) for outer side link
8000.2	Mounting bracket set **fixed end** (one side) for inner side link

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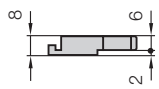
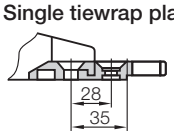
Tiewrap plate as individual part

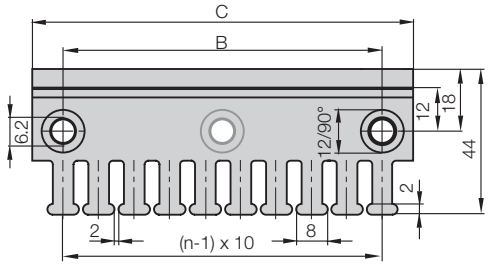
As individual component screwed on KMA. Can be plugged in the mounting brackets. **Details ▶ chapter 10**



Single tiewrap plate



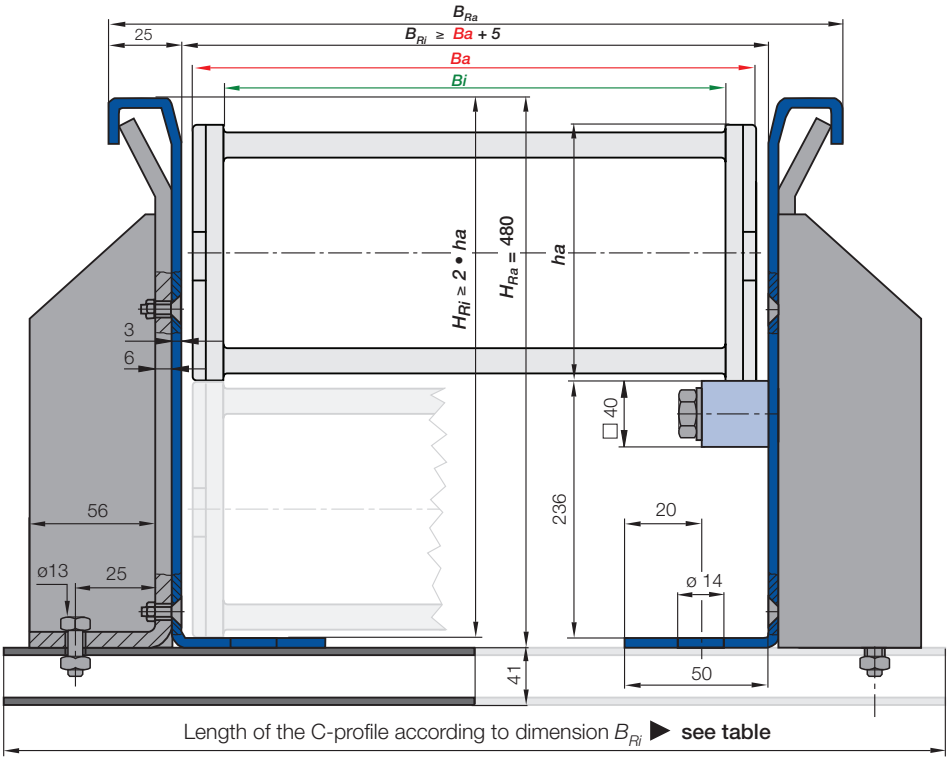
Shown assembled



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

3D-CAD files, pdf-downloads and many online features ▶ www.igus.de/en/800

Part No. 90.30 | 90.31 | Trough height: 480 mm
Heavy-Duty Steel Guide Troughs | With strengthened installation angle



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

! $H_{Ri} \geq 2 \bullet ha$
$B_{Ri} \geq Ba + 5$

● = Guide trough set ● = Glide bar
● = Installation set ● = C-profile

Installation set with C-profile

800.**20**.325.0 ▶ Order example

	B_{Ri}	Part No. Installation set
.20	265	**90.50.450**
.25	315	**90.50.500**
.30	365	**90.50.550**
.32	390	**90.50.575**
.35	415	**90.50.600**
.40	465	**90.50.650**
.45	515	**90.50.700**
.50	565	**90.50.750**
.55	615	**90.50.800**
.60	665	**90.50.850**

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

- **Guide trough without glide bars**
  Part No. 90.30
- **Guide trough with glide bars**
  Part No. 90.31
- **Installation sets as end connectors**
  Part No. 90.50.XX

.XX indicates the length of the C-profile on which the guide trough is mounted. The values and part numbers are specified in the table on the left. Standard length of the trough components and glide bars is 2 m.The required overall length of the guide trough directly correlates to the length of travel. Special dimensions are available for confined spaces.

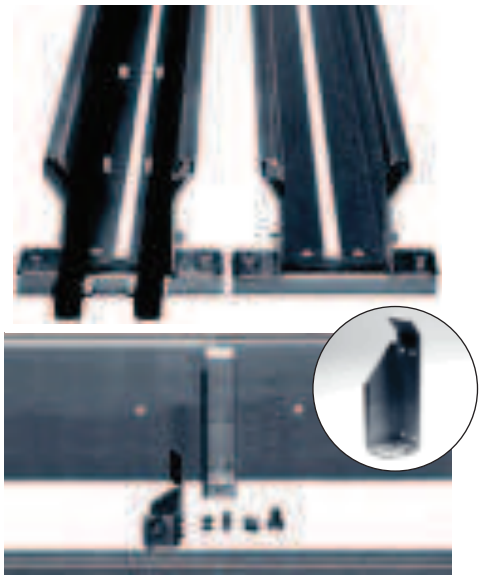
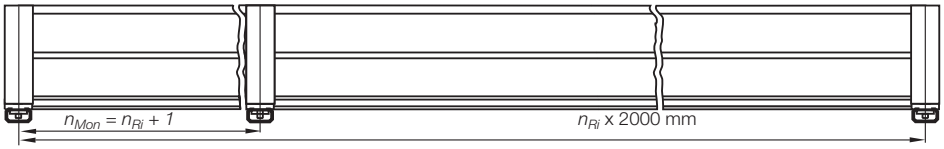


Illustration top: Guide trough with and without glide bar.
Illustration bottom: assembly kit with specially strengthened installation angle bracket for 90.30 and 90.31

Order example: Length of travel 30 m - Center mounted for Series 800.20.325.0 with B_{Ri} = 265

Guide trough set (set of 2 trough side parts, incl. glide strips) **without** glide bar		
Order text: 16 m Guide trough without glide bar (8 x 2 m sections)	Part No.	90.30
Guide trough set (set of 2 trough side parts, incl. glide strips) **with** glide bar		
Order text: 16 m Guide trough with glide bar (8 x 2 m sections)	Part No.	90.31
Installation set "Basic" complete **(Guide trough-sets + 1)**		
Order text: 17 Installation sets (with C-profile)	Part No.	90.50.450

Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



Details about steel guide troughs ▶ chapter 9, Guide Troughs

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▶ chapter 10
▶ chapter 9
▶ page 7.15