



Price index



IPA Qualification Certificate:
Air Cleanless Class ISO Class 2
(at v = 1 m/s) upon request



UL94-V2
classifications



Torsional
motion possible



Special equipment:
Electrically conductive ESD/ATEX
version upon request



Just push the cables with your thumb
into the E-Chain® - and it's ready



When to use the Series E200/Z200:

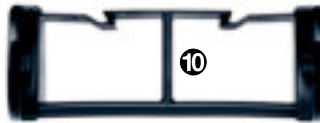
- If filling is required without opening and closing lids
- If price is an issue
- If quiet operation is required



When not to use it:

- For applications with very high loads and long unsupported travel lengths
 - ▶ Series 2400/2450/2480/2500 E2/000, page 5.102
- If single-extrusion crossbars are required
 - ▶ Series 2400/2450/2480/2500 E2/000, page 5.102

- ① Large pins for long service life
- ② Limited torsion tolerance
- ③ "E" Series features split crossbar along the outer radius
- ④ "Z" Series features split crossbar along the inner radius
- ⑤ Cable-friendly interior
- ⑥ Mounting bracket with integrated strain relief
- ⑦ Dirt-repellent exterior
- ⑧ Very easy to fill - cables only have to be pushed in
- ⑨ The patented push-button principle holds the links together
- ⑩ 1- or 2-chamber system available



Order example complete E-Chain®

Please indicate chain-lengths or number of links Example: 1 m or 22 links

1 m E200.05.100.0

 E-Chain®

1 set 2050.34.PZB

 Mounting bracket

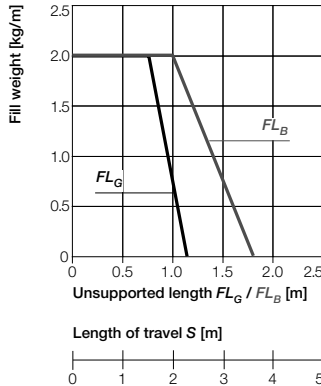
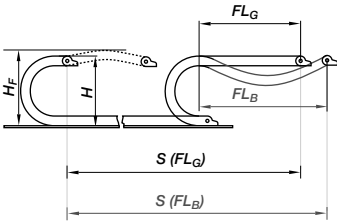


Unsupported length

FL_G = with straight upper run

FL_B = with permitted sag

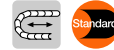
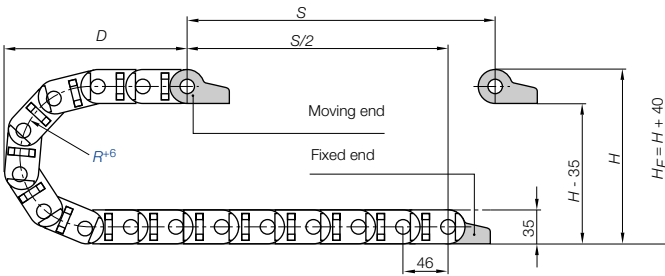
Further information ► **Design, page 1.12**



- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- H_F = Required clearance height
- D = Overlength E-Chain® radius in final position
- $K = \pi \cdot R + \text{"safety"}$

Other installation methods

- Vertical, hanging ≤ 10 m
- Vertical, standing $\leq 1,5$ m
- Side mounted, un supp. $\leq 0,5$ m
- Rotary requires further calculation
- Unsupported length of upper run = upon request



Short travels - unsupported

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

Pitch = 46 mm/link Links/m = 22 (1.012 mm) Chain length = $S/2 + K$

R	055	075	100	150	200
H^{+4}	145	185	235	335	435
D	125	150	170	220	270
K	276	346	414	578	742

The required clearance height:
 $H_F = H + 40$ mm
(with 2,5 kg/m fill weight)

Speed / acceleration FL_G	max. 20 [m/s] / max. 200 [m/s ²]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s ²]
Gliding speed / acceleration (maximum)	max. 3 [m/s] / max. 10 [m/s ²]
Material (E-Chain®)- permitted temperature °C	igumid NB / -40° up to +80° C
Material (mounting brackets)* - permitted temperature °C	igumid G / -40° up to +120° C
Flammability class (E-Chain®), igumid NB	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets), igumid G*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

Technical Data



Details of material properties
► page 1.38

24,3

Easy Chain®
Inner height: 24,3 mm

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

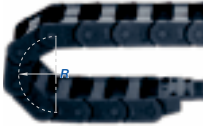
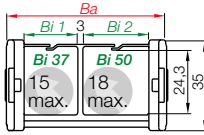
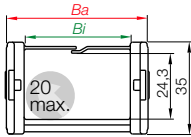


► page 3.5



igus® E-ChainSystems®

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



Part No. structure

E200. 05. 100. 0



Series E200 - split crossbar along the outer radius

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii	Weight [kg/m]
E200.05. <input type="text"/> .0	57	74,4	055	075 100 150 200	≈ 0,70

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius. Example: E200.05. .0

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

Series E200 - split crossbar along the outer radius with 2-chamber system

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii	Weight [kg/m]
E200.2/35. <input type="text"/> .0	37	94,4	055	075 100 150 200	≈ 0,79
E200.2/50. <input type="text"/> .0	50	120,4	055	075 100 150 200	≈ 0,82

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

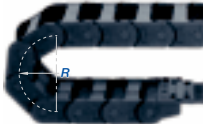
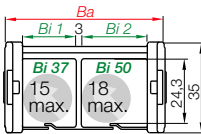
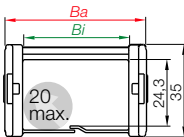
Supplement Part No. with required radius. Example: E200.2/50. .0

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



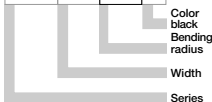
igus® GmbH
51147 Cologne

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



Part No. structure

Z200. 05. 100. 0



Series Z200 - split crossbar along the inner radius

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii	Weight [kg/m]
Z200.05. <input type="text"/> .0	57	74,4	055	075 100 150 200	≈ 0,70

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius. Example: Z200.05. .0

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

Series Z200 - split crossbar along the inner radius with 2-chamber system

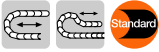
Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii	Weight [kg/m]
Z200.2/35. <input type="text"/> .0	37	94,4	055	075 100 150 200	≈ 0,79
Z200.2/50. <input type="text"/> .0	50	120,4	055	075 100 150 200	≈ 0,82

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius. Example: Z200.2/50. .0

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

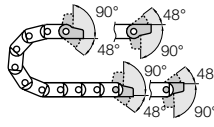




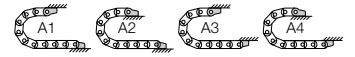
The Standard - option polymer - pivoting

- Recommended for unsupported and gliding applications
- Well suited for tight installation conditions
- Strain relief with detachable tiwrap plates
- Variable traverse angle for flexible assembly
- The twistability of the E-Chain® and the option to assemble the mounting brackets on the fixed end and/or the moving end, enable various installation options

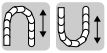
Moving end with bore
(outer link) 2...3PZ(B)



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



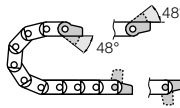
Possible installation conditions for assembled mounting brackets ▶ Order example "preassembled" below



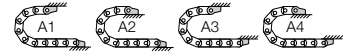
Option polymer - locking

- Recommended for unsupported and gliding applications
- Furthermore:
- At very high speed and/or acceleration
 - If space is limited for height (the H_F measurement)
 - The twistability of the E-Chain® and the option to assemble the mounting brackets on the fixed end and/or the moving end, enable various installation options

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



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



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

2...3PZ(B) Standard! (pivoting)

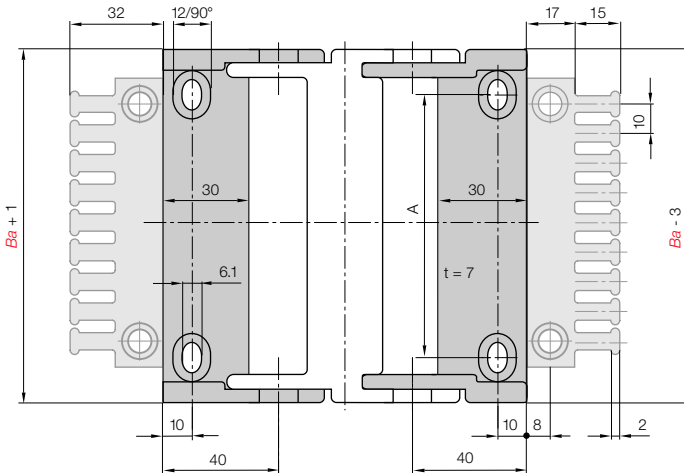
2...1PZ(B) (locking)

Moving end

Standard! (pivoting) 2...4PZ(B)

(locking) 2...2PZ(B)

Fixed end



Dimensions and order configurations

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

Part No. structure (pivoting)

2050. 34 PZB A1

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

Full set, for both ends:

2050. [34] PZB +tiwrap plate

Single-part order:

2050. [3] PZB +tiwrap plate

Mounting bracket with bore

2050. [4] PZB +tiwrap plate

Mounting bracket with pin

Part No. structure (locking)

2050. 12 PZB A1

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

Full set, for both ends:

2050. [12] PZB +tiwrap plate

Single-part order:

2050. [1] PZB +tiwrap plate

Mounting bracket with bore

2050. [2] PZB +tiwrap plate

Mounting bracket with pin

For E-Chain®	Part No. full set with tiwrap plate	Part No. tiwrap plate + 10 cable tiwraps	Part No. full set without tiwrap plate	Number of teeth	Dim. A [mm]
E200-Z200.05	2050. [] PZB	2050. [] PZBK1	2050. [] PZ	6	44
E200-Z200.2/35	2070. [] PZB	2070. [] PZBK1	2070. [] PZ	8	64
E200-Z200.2/50	2100. [] PZB	2100. [] PZBK1	2100. [] PZ	10	90

Please add the Part No. with the requested index - 34 for the pivoting configuration

e.g. 2050. [34] PZB or 12 for the locking configuration e.g. 2050. [12] PZB

For the preassembled mode please add the index [A1]...[A4] e.g. 2050. [34] PZB [A1]

