



Price index



UL94-V2 classifications upon request



ESD classification: Electrically conductive ESD/ATEX version upon request



To open the E-Tube Series R100 lift up the lid with the screwdriver and swivel lid to the side



When to use the Series R157/R158:

- If snap-open accessibility along inner or outer radius is required
- If a low-cost, lightweight E-Tube for many types of applications required
- If flush attachment is required
- If chip-repellent features are required



When not to use it:

- If snap-open accessibility along both sides is required
 - ▶ System E4/00, Series R770, chapter 7
- If very smooth travel due to small pitch is required
 - ▶ Type R, Series R58, page 6.28

- 1 Snap-open lids along inner or outer radius
- 2 Snap-open from the side, covered pin/bore connection
- 3 Effective chip protection, even against hot metal chips
- 4 Double stop dog for strong unsupported length
- 5 Lateral glide surfaces for side-mounted operation
- 6 Universal KMA mounting brackets with attachment capability on all sides
- 7 Space-efficient with optimized ratio of inner dimension to outer dimension



Order example complete E-Tube

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

1 m 157.088.100.0



E-Tube

with 2 separators 1586.01 assembled every 2nd link



Interior separation

1 set 15800.088.12



Mounting bracket

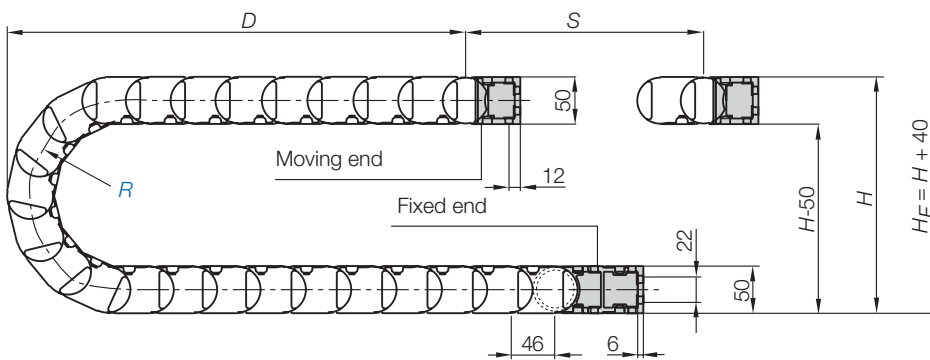
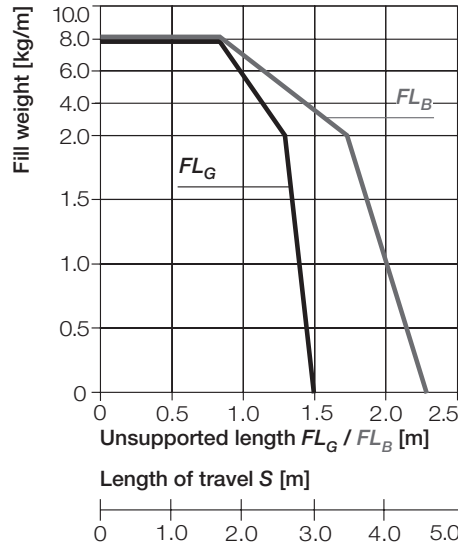
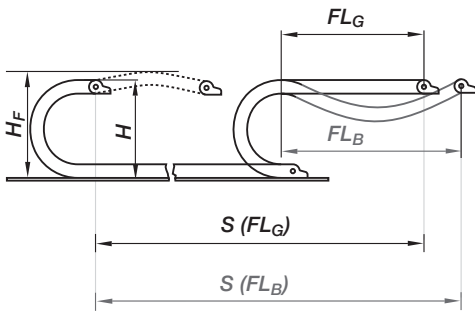
Installation Dimensions and Technical Data

Unsupported length

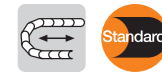
FL_G = with straight upper run

FL_B = with permitted sag

Further information ► **Design, chapter 1**



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



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 (1012 mm) Chain length = $S/2 + K$

R	100	125	150	175	200	250
H	250	300	350	400	450	550
D	175	200	225	250	275	325
K	410	485	565	645	725	880

The required clearance height:
 $H_F = H + 40$ mm
(with 1,0 kg/m fill weight)

Speed / acceleration FL_G	max. 10 [m/s] / max. 100 [m/s ²]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s ²]
Gliding speed / acceleration (maximum)	max. 0,5 [m/s] / max. 5 [m/s ²]
Material - permitted temperature °C	igumid G / -40° up to +130° C
Flammability class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties

► **chapter 1**



E2 E-Tubes Type R
Inner height: 40 mm

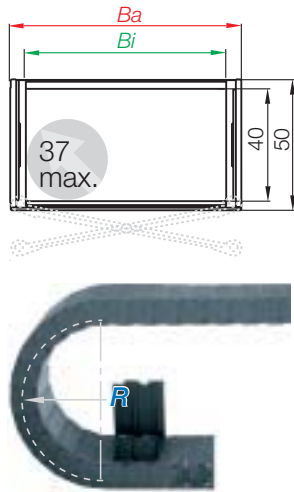
Phone +49- (0) 22 03-96 49-800
Fax +49- (0) 22 03-96 49-222



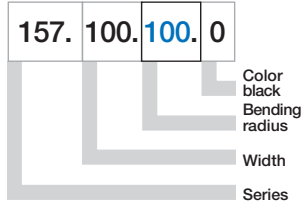
upon request



► page 6.3



Part No. structure



Series R157 - hinged, snap-open on both sides of the inner radius

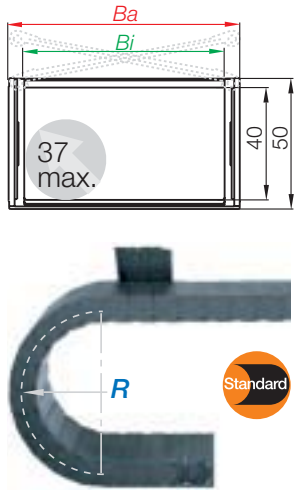
Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii					Weight [kg/m]
157.040.□.0*	40	56	100	125	150	175	200	250	≈ 1,21
157.050.□.0	50	66	100	125	150	175	200	250	≈ 1,30
157.075.□.0	75	91	100	125	150	175	200	250	≈ 1,50
157.088.□.0	88	104	100	125	150	175	200	250	≈ 1,57
157.090.□.0**	88	104	100	125	150	175	200	250	≈ 1,63
157.100.□.0	100	116	100	125	150	175	200	250	≈ 1,71
157.125.□.0	125	141	100	125	150	175	200	250	≈ 1,92
157.135.□.0	135	150	100	125	150	175	200	250	≈ 2,10
157.150.□.0	150	166	100	125	150	175	200	250	≈ 2,13
157.175.□.0	175	191	100	125	150	175	200	250	≈ 2,34
157.200.□.0	200	216	100	125	150	175	200	250	≈ 2,55

* Lid removable only, not hinged

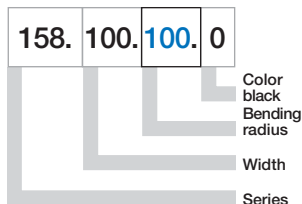
** Same dimensions as 157.088 - less recent design, no hinged option

Supplement Part No. with required radius. Example: 157.100.100.0

0 = standard color, other colors ▶ chapter 1 · Pitch = 46 mm/link - Links/m = 22



Part No. structure



Series R158 - hinged, snap-open on both sides of the outer radius

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii					Weight [kg/m]
158.040.□.0*	40	56	100	125	150	175	200	250	≈ 1,21
158.050.□.0	50	66	100	125	150	175	200	250	≈ 1,30
158.075.□.0***	75	91	100	125	150	175	200	250	≈ 1,50
158.088.□.0	88	104	100	125	150	175	200	250	≈ 1,57
158.090.□.0**	88	104	100	125	150	175	200	250	≈ 1,63
158.100.□.0	100	116	100	125	150	175	200	250	≈ 1,71
158.125.□.0***	125	141	100	125	150	175	200	250	≈ 1,92
158.135.□.0	135	150	100	125	150	175	200	250	≈ 2,10
158.150.□.0	150	166	100	125	150	175	200	250	≈ 2,13
158.175.□.0***	175	191	100	125	150	175	200	250	≈ 2,34
158.200.□.0	200	216	100	125	150	175	200	250	≈ 2,55

* Lid removable only, not hinged

** Same dimensions as 158.088 - less recent design, no hinged option

*** upon request

Supplement Part No. with required radius. Example: 158.100.100.0

0 = standard color, other colors ▶ chapter 1 · Pitch = 46 mm/link - Links/m = 22

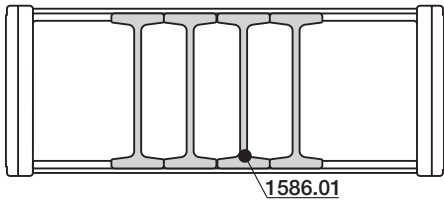
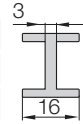


Series R157 · R158 - Interior Separation

Option 1: Vertical Separators

- Vertical Separators are used if a vertical subdivision of the E-Chain® interior is required
- Standard subdivision with Vertical Separator 1586.01
- By standard Vertical Separators are assembled every other chain link.

Vertical Separator	
unassembled	1585.01
assembled	1586.01



E2 E-Tubes Type R
Inner height: 40 mm

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



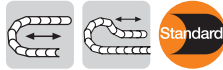
E2 E-Tubes mounted unsupported and on the side in a chip area



upon request



▶ page 6.3

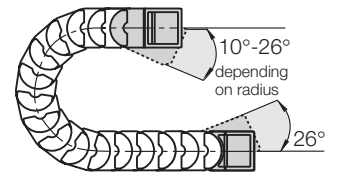


Option KMA* - pivoting, extended

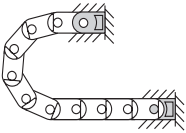
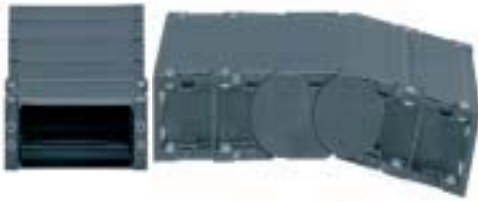
- Recommended for unsupported and gliding applications
- Extended, pivoting
- Easy to install
- Universal mountable with attachment capability on all sides
- Locked connection to E-Tube
- Long travels with lowered mounting height possible

*KMA = Polymer Metal Mounting Bracket

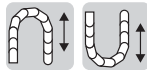
Moving end with bore
(outer link) 15800/15801 ...1



15800/15801...2 Fixed end
with pin (inner link)



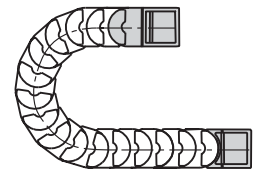
The attachment variants arising automatically by the choice of the KMA mounting bracket



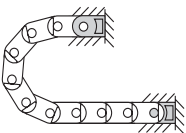
Option KMA - locking, extended

- Recommended for vertical hanging / standing applications
- Extended, locking
- Easy to install
- Flush mounting at both ends of the tube
- Universal mountable with attachment capability on all sides
- Corrosion-resistant

Moving end with bore
(outer link) 15800/15801 ...3



15800/15801...4 Fixed end
with pin (inner link)



The attachment variants arising automatically by the choice of the KMA mounting bracket

Dimensions and order configurations



Quickflange upon request

Part No. structure (pivoting)

15800.100.12.A



A... must be indicated on preassembled configurations

Full set pivoting = 12

Width

KMA for selected chain type

Full set, for both ends:

15800.100.12

Single-part order:

15800.100.1

Mounting bracket with bore

15800.100.2

Mounting bracket with pin

Part No. structure (locking)

15800.100.34.A

A... must be indicated on preassembled configurations

Full set locking = 34

Width

KMA for selected chain type

Full set, for both ends:

15800.100.34

Single-part order:

15800.100.3

Mounting bracket with bore

15800.100.4

Mounting bracket with pin

15800/15801...1 Standard! (pivoting)

15800/15801...3 (locking)

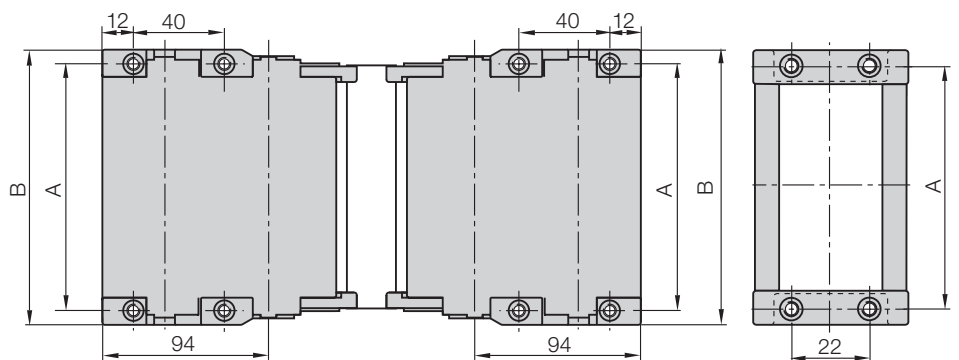
Moving end

Standard! (pivoting) 15800/15801...2

(locking) 15800/15801...4

Fixed end

Quickflange available upon request



For E-Chain®	Part No. full set	Dim. A [mm]	Dim. B [mm]
157-158.040	15801.040.	50	61
157-158.050	15800.050.	60	71
157-158.075	15800.075.	85	96
157-158.088	15800.088.	98	109
157-158.090	15801.090.	98	109
157-158.100	15800.100.	110	121
157-158.125	15800.125.	135	146
157-158.135	15800.135.	145	156
157-158.150	15800.150.	160	171
157-158.175	15800.175.	185	196
157-158.200	15800.200.	210	221

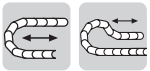
Please add the Part No. with the requested index - 12 for the pivoting configuration

e.g. 15800.100.12 or 34 for the locking configuration e.g. 15800.100.34

For the preassembled mode please add the index A e.g. 15800.100.12 A

The following parts are required for attachment of the mounting brackets:

- Socket head cap bolt M5 DIN 912-8.8 Length depends on the thickness of the attachment base
- Washer 5,3 DIN 125-ST ● Hexagon nut M5 DIN 934-8

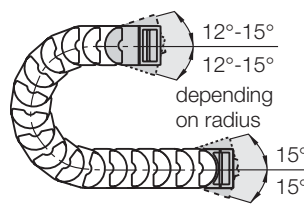


Option KMA* - pivoting, abbreviated

- Recommended for unsupported and gliding applications
- Abbreviated, pivoting
- Universal mountable with attachment capability on all sides
- Locked connection to E-Tube
- Corrosion-resistant
- Space-restricted
- Long travels with lowered mounting height possible

*KMA = Polymer Metal Mounting Bracket

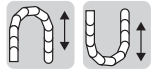
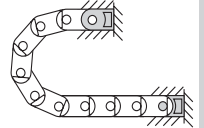
Moving end with bore
(outer link) 1580...1



1580...2 Fixed end
with pin (inner link)



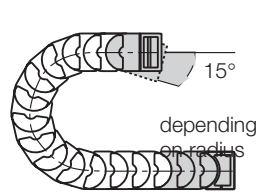
The attachment variants arising automatically by the choice of the KMA mounting bracket



Option KMA - locking, abbreviated

- Recommended for vertical hanging / standing applications
- Abbreviated, locking
- Flush mounting at both ends of the tube
- Corrosion-resistant
- Flush mounting, turned 90° at fixed end option

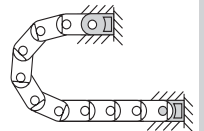
Moving end with bore
(outer link) 1585...1



1585...2 Fixed end
with pin (inner link)



The attachment variants arising automatically by the choice of the KMA mounting bracket



1580...1 (pivoting)

1585...1 (locking)

Moving end

(pivoting) 1580...2

(locking) 1585...2

Fixed end

Quickflange available
upon request

Dimensions and order configurations



Part No. structure (pivoting)

1580. 040. 12 A

A...must be indicated on preassembled configurations

Full set

Width

KMA pivoting for selected chain type

Full set, for both ends:

1580.040.12

Single-part order:

1580.040.1

Mounting bracket with bore

1580.040.2

Mounting bracket with pin

Part No. structure (locking)

1585. 040. 12 A

A...must be indicated on preassembled configurations

Full set

Width

KMA locking for selected chain type

Full set, for both ends:

1585.040.12

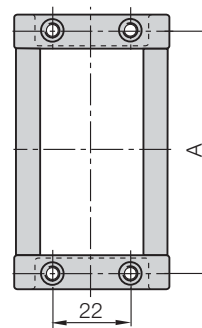
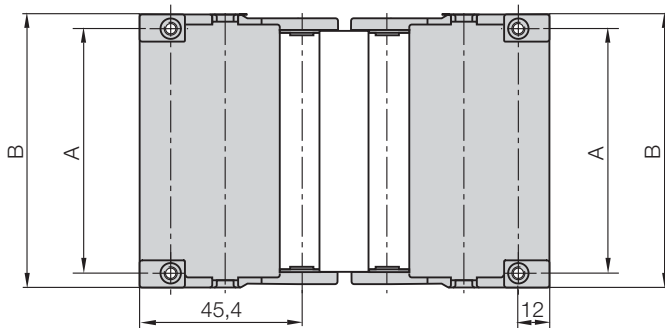
Single-part order:

1585.040.1

Mounting bracket with bore

1585.040.2

Mounting bracket with pin



For E-Chain®	Part No. full set	Dim. A [mm]	Dim. B [mm]
157-158.040	.040.12	50	61
157-158.050	.050.12	60	71
157-158.075	.075.12	85	96
157-158.088	.088.12	98	109
157-158.090	.090.12	98	109
157-158.100	.100.12	110	121
157-158.125	.125.12	135	146
157-158.135	.135.12	145	156
157-158.150	.150.12	160	171
157-158.175	.175.12	185	196
157-158.200	.200.12	210	221

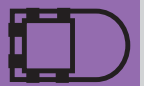
Please add the Part No. with the requested index - 1580 for the pivoting configuration

e.g. 1580.100.12 or 1585 for the locking configuration e.g. 1585.100.12

For the preassembled mode please add the index [A] e.g. 1580.100.12 [A]

The following parts are required for attachment of the mounting brackets:

- Socket head cap bolt M5 DIN 912-8.8 Length depends on the thickness of the attachment base
- Washer 5,3 DIN 125-ST ● Hexagon nut M5 DIN 934-8



upon request



▶ page 6.3