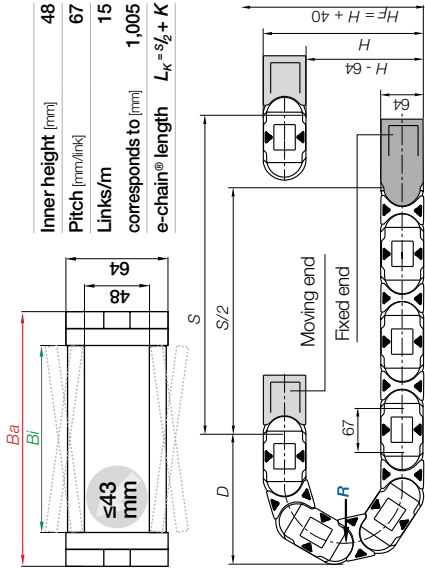
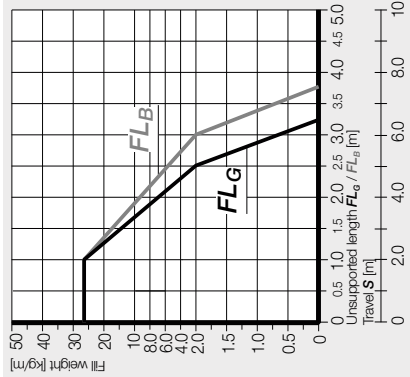




inner and outer radius, from both sides)
and outer radius, from both sides)



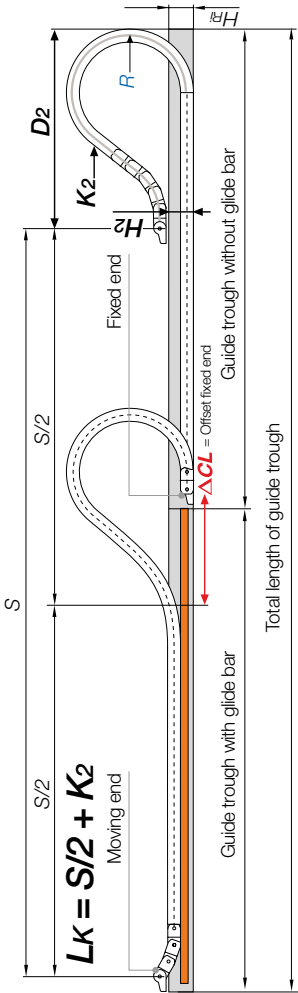
Part No.	Bi	Ba	E4.48L	R4.48L
e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
R.0	R4.48L 225.R.0	225 245	≈ 2.24	≈ 2.97
R.0	237 257		≈ 2.30	—
R.0	R4.48L 250.R.0	250 270	≈ 2.35	≈ 3.08
R.0	262 282		≈ 2.39	—
R.0**	275 295		≈ 2.45	—
R.0**	287 307		≈ 2.51	—
R.0	R4.48L 300.R.0**	300 320	≈ 2.56	≈ 3.42
R.0**	312 332		≈ 2.60	—
R.0**	325 345		≈ 2.66	—
R.0**	337 357		≈ 2.72	—
R.0**	350 370		≈ 2.74	—
R.0**	362 382		≈ 2.77	—
R.0**	375 395		≈ 2.81	—
R.0**	387 407		≈ 2.90	—
R.0**	400 420		≈ 2.96	—

R	075 ¹⁾	100 ¹⁾	125	150	175	200	250	300	350
H	214	264	314	364	414	464	564	664	764
D	208	233	258	283	308	333	383	433	483
K	370	450	530	610	685	765	920	1,080	1,235

The required clearance height: $H_f = H + 40\text{mm}$ (with 2.5kg/m fill weight)

1) Radius not available for e-tubes

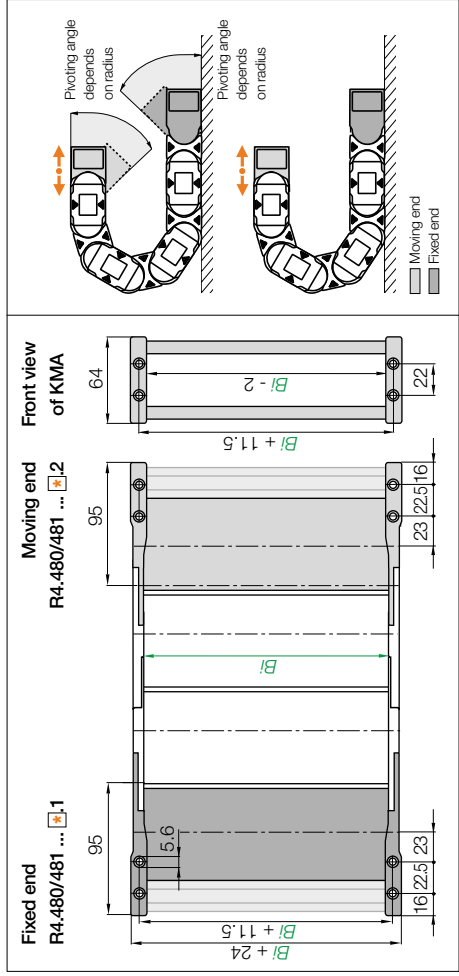
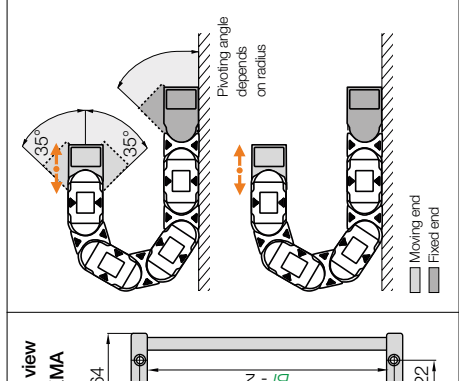
Gliding applications | For travel lengths from 10m to max. 100m



Note: We recommend the project planning of such a system to be carried out by igus®.
In case of travels between 5 and 10m we recommend an e-chain® with a longer unsupported length.

R	075 ¹⁾	100 ¹⁾	125	150	175	200	250	300 ²⁾	350 ²⁾
H ₂	214	264	106	106	106	106	106	—	—
D ₂	208	233	475	570	670	780	1,030	—	—
K ₂	370	450	804	938	1,139	1,340	1,675	—	—
ΔCL	—	—	230	300	380	460	660	—	—

1) Radius not available for e-tubes 2) Radius not suitable for long travel applications. Please consult igus®.



gliding applications and standing applications

Part No. full set	Part No. full set	Bi [mm]
KMA pivoting	KMA locking	
4.480.225 12 C	E4.481.225 12 C	225
4.480.237 12 C	E4.481.237 12 C	237
4.480.250 12 C	E4.481.250 12 C	250
4.480.262 12 C	E4.481.262 12 C	262
4.480.275 12 C*	E4.481.275 12 C*	275
4.480.287 12 C*	E4.481.287 12 C*	287
4.480.300 12 C	E4.481.300 12 C	300
4.480.312 12 C*	E4.481.312 12 C*	312
4.480.325 12 C*	E4.481.325 12 C*	325
4.480.337 12 C*	E4.481.337 12 C*	337
4.480.350 12 C*	E4.481.350 12 C*	350
4.480.362 12 C*	E4.481.362 12 C*	362
4.480.375 12 C*	E4.481.375 12 C*	375
4.480.387 12 C*	E4.481.387 12 C*	387
4.480.400 12 C*	E4.481.400 12 C*	400

o.z. LIN-TECH HENNlich s.r.o.
Českolipská 9, 412 01 Litoměřice

Telefon: +420 416 711 333
E-mail: lin-tech@hennlich.cz

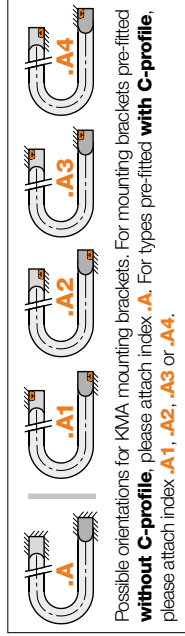
www.hennlich.cz/lin-tech

KMA pivoting | Recommended for unsupported and gliding applications KMA locking | Recommended for vertical hanging and standing applications

Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]	Width index	Part No. full set KMA pivoting	Part No. full set KMA locking	Bi [mm]
050.	R4.480.050 12 C	R4.481.050 12 C	050	150.	R4.480.150 12 C	R4.481.150 12 C	150
062.	R4.480.062 12 C	R4.481.062 12 C	062	175.	R4.480.175 12 C	R4.481.175 12 C	175
075.	R4.480.075 12 C	R4.481.075 12 C	075	200.	R4.480.200 12 C	R4.481.200 12 C	200
087.	R4.480.087 12 C*	R4.481.087 12 C*	087	225.	R4.480.225 12 C*	R4.481.225 12 C*	225
100.	R4.480.100 12 C	R4.481.100 12 C	100	250.	R4.480.250 12 C	R4.481.250 12 C	250
112.	R4.480.112 12 C	R4.481.112 12 C	112	300.	R4.480.300 12 C*	R4.481.300 12 C*	300
125.	R4.480.125 12 C	R4.481.125 12 C	125				

(KMA = polymer metal mounting bracket) For the C-profile option please add index **C**
*Width available upon request. Delivery time upon request.

Note: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



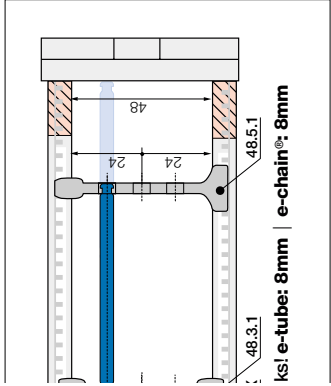
Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392



eu/R4.48L

igus 3D CAD, configurators, service life calculation and more ▶ www.igus.eu/E4.1L

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ard - for any application

or with a wide base for maximum holding force.

en faster installation

one side for high holding force, narrow on opposite
easy cable fitting.

all cables

or with a narrow base for a large number of small
side by side. Saves space.

securely in preset increments

separator for exact positioning.
needed for side-mounted applications.

ntal separation

h shelf locks securely into separators at both ends,
fixed width. Can be used as full-width or partial shelf.

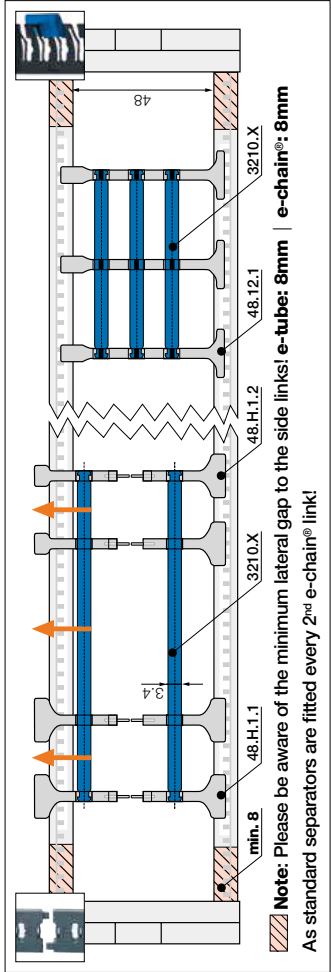
assembled	X (mm)	unassembled	assembled
3210.125	225	3200.225	3210.225
3210.150	250	3200.250	3210.250
3210.175			
3210.200			

eu/R4.48L



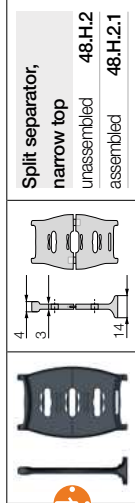
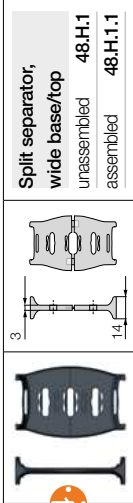
igus 3D CAD, configurators, service life calculation and more ► www.igus.eu/E4.1L

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Split separators

In order to fill e-chains® more easily and effectively, these
separators can be split in the middle. This allows easier
access to middle shelf partitions. Fast assembly and easy
retrofit. 2 types available: with wide or narrow top.



Lean separators¹⁾

For quick fitting of shelves in several layers.

**1) Note: Please combine maximum 4 lean separators with one
shelf. Not suitable for side-mounted e-chains®!**



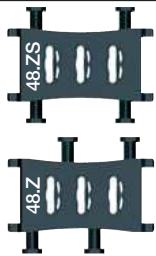
With the lean separator you can quickly insert several layers
of cables into the e-chain® and reduce the installation time by
up to 50% ²⁾.

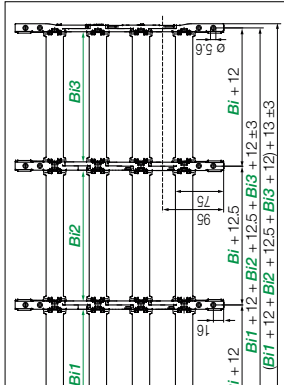
²⁾ Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted
with 12 cables in the igus® readychain® factory

Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

2 versions: Part No. 48.Z / Part No. 48.ZS - more information ► Form page 1424





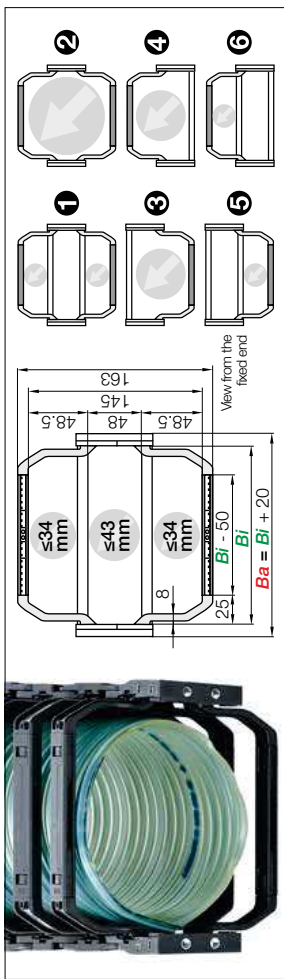
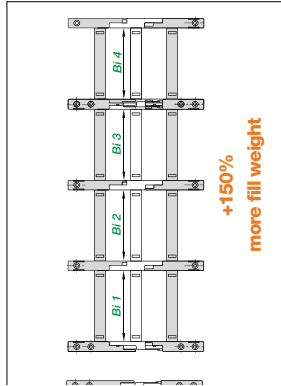
2.0m with 50% more fill weight

is of 2.0m and more

er

Part No.	Extension link as an individual part
E4.48ML _R .	
example: E4.48L	175/175/175.150.0

example: E4.48L175/175/175.150.0



Extender crossbars with flexible width | Safe guiding for large hoses

- For guiding and protecting large hoses
- With mounting for noise dampers
- Cable-friendly design, high crossbar holding force
- The openable extender crossbars can be fitted in different ways and combinations
- Optionally openable along the inner or outer radius

Part No.	Hose	Part No.
$\varnothing \leq$ [mm]		
E-chain® with extender crossbar		
1 Extender crossbar and standard crossbar alternating along the inner and outer radius ¹⁾	34	E4.48L.XXXHB48.R.0
2 Extender crossbar on both sides along the inner and outer radius ²⁾	130	E4.48L.XXXB48.R.0
3 Extender crossbar along the outer radius ³⁾	85	E4.48L.XXXBE48.R.0
4 Extender crossbar along the inner radius ²⁾	85	E4.48L.XXXBZ48.R.0
5 Extender crossbar and standard crossbar alternating along the outer radius ³⁾	34	E4.48L.XXXHBE48.R.0
6 Extender crossbar and standard crossbar alternating along inner radius ¹⁾	34	E4.48L.XXXHBZ48.R.0

1) Minimum bend radius: **R 125** 2) Minimum bend radius: **R 150** 3) Minimum bend radius: **R 075** *Width available upon request. Delivery time upon request

BI [mm] Available inner widths

100	105	112	125	137	150	162	175	187	200	212	225	237	250	262	275	287	300	312	325	337	350	362	375	387	400
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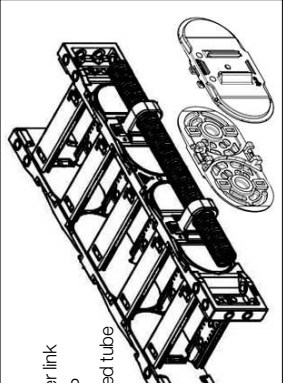
Complete Part No. with the width index **XXX** of **Bi** and the minimum bend radius (**R**). Example:

E4.48L: 100B48.150.0 = $Bi/100$ / extender crossbar on both sides along inner and outer

E4.48L, 100B48.150.0 = $B_i 100$ / extender crossbar on both sides along inner and outer radius / bend radius (R) 150



The E4.1L can be fitted with operable extender crossbars, which increase the size of the interior of the e-chain®. Crossbars can be fitted in various ways: from one or both sides, alternating with standard crossbars and or any combination



the e-chain®
widths 7, 10, 12, 17, 23, 29, 36mm

If screws or tools
JP support and the hose are ordered separately

both ends*	For corrugated tube nominal diameter	
	Ø [mm]	
TUB.R.0	07 / 10 / 12 / 17 / 23 / 29 / 36	

s (R), Example:
nk

h safety clip



PMAClip support - one-piece
construction with safety clip,
suitable for corrugated tubes

H	E	M
mm	mm	mm
13.5	40.5	M4
15.5	47.5	M5
16.5	54.5	M5
20.0	68.0	M6
24.0	85.0	M6
27.0	99.0	M6
31.0	119.0	M6

eu/R4.48L



igus 3D CAD, configurators, service life calculation and more ► www.igus.eu/E4.1L



Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1356



CFU strain relief with innovative honeycomb design

- Fast filling, operable from both sides for assembly in seconds
- Flexible honeycomb design for increased holding force
- Tribologically optimised honeycomb design for the best hold
- Universal use, compact, space-saving design

More information ► Page 1424



Due to the modular design, the E4.1L system can be adapted to almost any application. As an open version for cable guidance, with extender crossbars for large hoses, or enclosed chip-resistant tube complete with guide trough - just three of many options