



E6.1

clean-
room

Dynamic,
quiet, light and
cleanroom suitable

Advantages of the E6.1 system:

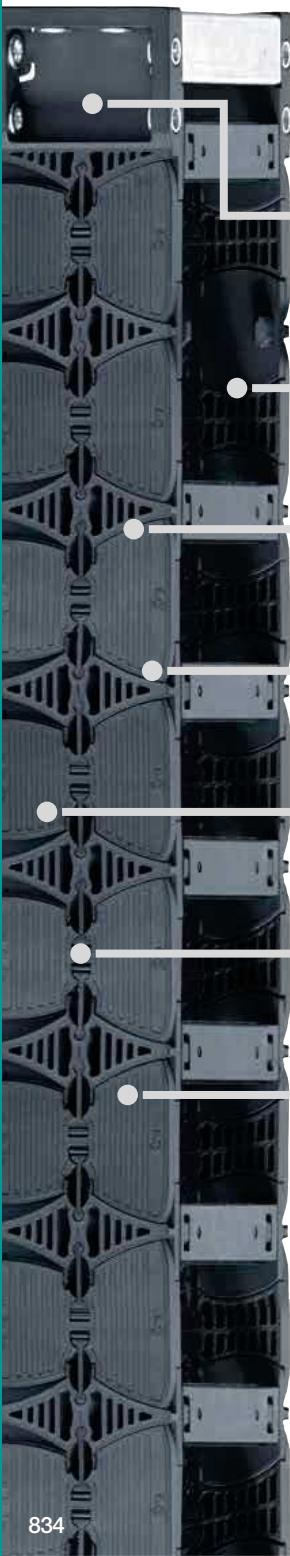
- Extremely quiet, low-vibration e-chain®
- For very high speeds and accelerations
- Ideal ratio of internal and external dimensions with thinner outer links and optimised crossbar geometry
- High push/pull forces
- Small bend radii
- Low noise 32dB(A)¹⁾ - extremely low noise and vibration
- Suitable for cleanrooms according to IPA cleanroom Class 1²⁾

1) Extremely low-noise - tested at the igus® lab Series E61.29.070.055.0

2) Cleanroom - E61.29.50.075.0 series

When to use another e-chain® series:

- For side-mounted applications
 - ▶ E6, page 870 ▶ E2/000, page 374
- When a Reverse Bend Radius **RBR** is required
 - ▶ E2/000, page 374
- For longer unsupported lengths
 - ▶ E2/000, page 374
- For long travels
 - ▶ E2/000, page 374
- When an enclosed e-chain® for smooth running is required
 - ▶ R6, page 870
 - ▶ e-skin® corrugated tube SK / SKS / SKY, page 812



Attachment from any side with KMA mounting brackets

Fast assembly: crossbars removable along the inner and outer radius

Low noise from 32dB(A)¹⁾: small pitch for low noise, smooth running

Dynamic: high speeds and accelerations

Long service life: low vibration, high strength

IPA cleanroom Class 1²⁾: virtually no wear or abrasion

Modular design: can be easily lengthened and shortened



Series E61.29 special feature: crossbar openable along inner and outer radius, from both sides

Dynamic, quiet, light and cleanroom suitable - E6.1

The E6.1 series is a development of the E6 series. It incorporates all the advantages of the E6 such as strength, cleanroom-compatibility and low weight in addition to even quieter operation at higher maximum speeds. In addition, its accessibility to the interior and the assembly and handling have been improved.

- Quiet - from a noise level of 32dB(A)¹⁾
- Weight savings approx. 30% compared to the E6 system
- Highly dynamic
- Extremely low vibration
- Cleanroom-compatible due to principle of low-abrasion for connectors, without pin and bore connection
- Virtually no polygon effect, smooth rolling operation
- Smooth interior design for a long lifetime for cables and hoses
- Crossbars removable along the inner and outer radius
- Option without camber (NC) simply by turning the inner link

1) Extremely low-noise - tested at the igus® lab Series E61.29.070.055.0

2) Cleanroom - E61.29.50.075.0 series

Typical industries and applications

- Semiconductor industry
- Studio equipment and camera tracking systems
- Printer/plotter industry
- In applications with extremely high accelerations
- When noise reduction and a low level of abrasion are important



32dB(A)¹⁾ - level determined at the igus® test-lab, $v = 1.0 \text{ m/s}$ unsupported, series E61.29.070.055.0

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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E61.29 29 **30 - 140** **44 - 154** 35 **055 - 150** ≈ 1.75 840



EF61.29* 29 **30 - 140** **44 - 154** 35 **055 - 150** ≈ 1.75 840
E61.35 35 **30 - 140** **46 - 156** 42 **055 - 150** ≈ 1.90 846
E61.40 40 **40 - 300** **56 - 316** 54 **063 - 200** ≈ 2.50 850
E61.52 52 **40 - 300** **64 - 324** 65 **075 - 200** ≈ 3.00 856
E61.62 62 **50 - 400** **82 - 432** 84 **115** ≈ 4.00 860
E61.80 80 **50 - 600** **78 - 628** 108 **150** ≈ 5.25 864

*EF61.29 series - available at an even lower price without the pivoting function of the crossbars



Available from stock. Ready to ship in 72hrs.*

*Average time before the ordered goods are dispatched.



Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 145

Next e-chain® generation for highest cleanroom suitability ISO cleanroom Class 1; C6

- Optimised design without any measurable abrasion
- Parts that contact the cables are made of tribologically optimised igulen CR1
- Samples available upon request ► Please consult igus®.

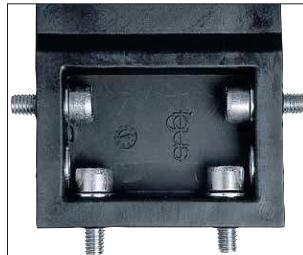




Lean separators enable extremely fast cable filling in several layers



Series E61.29 with openable mechanism,
openable on left or right



KMA mounting brackets with attachment
options from any side



Strain relief e.g. clamps, tiewrap plates,
nuggets, etc. ► From page 1392



Pivoting KMA mounting brackets - pivot
angle corresponds to the bend radius



Aluminium and steel support trays for support
of the lower run ► From page 1354



The interior of the E6.1 has been designed to be extremely cable-friendly to increase the service life of cables and hoses even more. The crossbars are very smooth and rounded as is the transition from e-chain® link to crossbar, and all markings have been moved outside of the e-chain® cross section.

Cleanroom qualification of igus® system E6.1 e-chains®

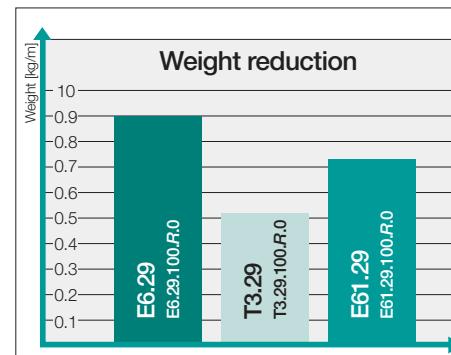
By using a special material, the already low abrasion behaviour of the e-chain® can be reduced even further. In many applications where cumbersome special solutions are required, a simple standard e-chain® can be used instead. IPA tests confirm that the standard e-chains® from igus® meet the requirements in cleanrooms and have been "Tested and certified as very good!". Cleanroom applications demand very high wear resistance of moving parts. e-chains®, for example, must be very wear-resistant, in order to meet the normal requirements for such a sensitive environment.



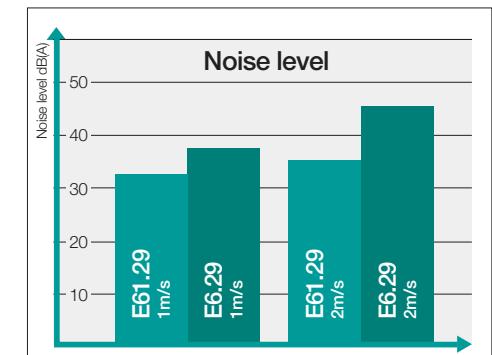
IPA Qualification Certificate²⁾ - Report IG 1303-640-1:
ISO Class 1, according to DIN EN ISO 14644-1 for system
E6.1, series E61.29.50.075.0 at $v = 0.5\text{m/s}$, 1m/s , 2m/s

 Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 145

System E6.1 tests in the igus® lab



The E6.1 generation can take up higher accelerations, due to a weight reduction, making it a highly dynamic yet still extremely quiet e-chain®



The results of the E6.1.29 series noise-measurement tests in the igus® test laboratory showed noise levels below the already very low values for the E6.29 series. 32dB(A) - level determined at the igus® test-lab, $v = 1.0\text{m/s}$ unsupported, series E61.29.070.055.0

Technical data

	Speed gliding ¹⁾ / acceleration gliding ¹⁾	upon request
	Speed FL_G / acceleration FL_G	$\leq 20 \text{ [m/s]} / \leq 200 \text{ [m/s}^2]$
	Speed FL_B / acceleration FL_B	$\leq 3 \text{ [m/s]} / \leq 6 \text{ [m/s}^2]$
	e-chain® link material, igumid G - permitted temperature °C	upon request
	Scalable crossbar material, igumid TE - permitted temperature °C	upon request
	Flammability class, igumid G	VDE 0304 IIC UL94-HB

 FL_G = unsupported with straight upper run  FL_B = unsupported with permitted sag

1) If a gliding application is required for a long travel, please consult igus®.

Installation types, maximum travels

Series	Unsupported	Gliding ¹⁾	Vertical hanging	Vertical standing	Side mounted unsupported
EF61.29/E61.29	$\leq 3.50\text{m}$	upon request	$\leq 25\text{m}$	$\leq 2.0\text{m}$	upon request
E61.35	$\leq 3.80\text{m}$	upon request	$\leq 30\text{m}$	$\leq 2.0\text{m}$	upon request
E61.40	$\leq 5.00\text{m}$	upon request	$\leq 30\text{m}$	$\leq 2.0\text{m}$	upon request
E61.52	$\leq 6.00\text{m}$	upon request	$\leq 50\text{m}$	$\leq 2.0\text{m}$	upon request
E61.62	$\leq 8.00\text{m}$	upon request	$\leq 60\text{m}$	$\leq 3.0\text{m}$	upon request
E61.80	$\leq 10.0\text{m}$	upon request	$\leq 60\text{m}$	$\leq 4.0\text{m}$	upon request

1) If a gliding application is required for a long travel, please consult igus®.

Options with order keys | Examples based on series E61.52



Standard

Simply turn outer side link, no additional rework

Part No.
Standard



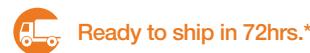
Part No.
NC version



E61.52.100.R.0



E61.52.100.R.0.NC



Ready to ship in 72hrs.*

Ready to ship in 72hrs.*

*Average time before the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series E61.52



Order example for complete e-chain® (1.0m),
colour black, with mounting brackets and interior separation:

e-chain® (1.0m) Please indicate e-chain® length or number of links: 1.0m or 34 links E61.52.100.075.0

+ Mounting brackets KMA pivoting - 1 set E61.520.100.12

Interior separation with 2 separators assembled every 2nd link 2 x E6.52.1.1

Order text: 1m E61.52.100.075.0 + E61.520.100.12 + 2 x E6.52.1.1



Order key

Crossbars removable

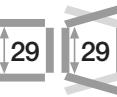
E61.52.100.075.0

Order index for colour options

Colour	Order index	Colour	Order index		
■ Black	Standard	.0	■ Orange	Special colour	.2
■ Silver-grey	Special colour	.31	■ Yellow	Special colour	.4
□ White	Special colour	.1	■ Light grey	Special colour	.14
□ Grey-white	Special colour	.1S			

Black e-chains® ready to ship in 72hrs.*

Above special colours upon request.



EF61.29 | Crossbars removable along the inner and outer radius
E61.29 | Crossbars openable along the inner and outer radius, from both sides

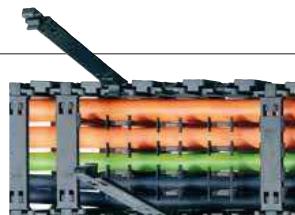
Part No.	Part No. Openable from both sides	<i>Bi</i>	<i>Ba</i>	EF61.29	E61.29
Crossbars removable		[mm]	[mm]	[kg/m]	[kg/m]
EF61.29. 030.R.0	E61.29. 030.R.0	30	44	≈ 0.558	≈ 0.558
EF61.29. 040.R.0	E61.29. 040.R.0	40	54	≈ 0.583	≈ 0.583
EF61.29. 050.R.0	E61.29. 050.R.0	50	64	≈ 0.608	≈ 0.608
EF61.29. 060.R.0	E61.29. 060.R.0	60	74	≈ 0.633	≈ 0.633
EF61.29. 070.R.0	E61.29. 070.R.0	70	84	≈ 0.657	≈ 0.657
EF61.29. 080.R.0	E61.29. 080.R.0	80	94	≈ 0.682	≈ 0.682

Part No.	Part No. Openable from both sides	<i>Bi</i>	<i>Ba</i>	EF61.29	E61.29
Crossbars removable		[mm]	[mm]	[kg/m]	[kg/m]
EF61.29. 090.R.0	E61.29. 090.R.0	90	104	≈ 0.707	≈ 0.707
EF61.29. 100.R.0	E61.29. 100.R.0	100	114	≈ 0.732	≈ 0.732
EF61.29. 110.R.0	E61.29. 110.R.0	110	124	≈ 0.757	≈ 0.757
EF61.29. 120.R.0	E61.29. 120.R.0	120	134	≈ 0.782	≈ 0.782
EF61.29. 140.R.0	E61.29. 140.R.0	140	154	≈ 0.807	≈ 0.807

Available bend radii

R [mm] | 055 | 075 | 100 | 125 | 150 |

Complete Part No. with required radius (*R*). Example: EF61.29.050.100.0 / E61.29.050.100.0



Series E61.29 special feature: openable crossbars

Crossbar openable along inner and outer radius, from both sides

An assembly video is available online at ► www.igus.eu/E61_assembly

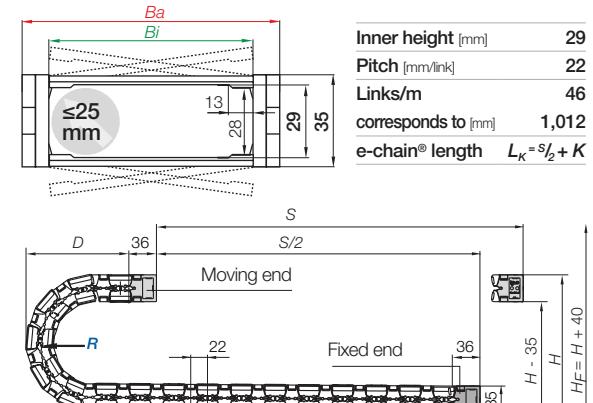
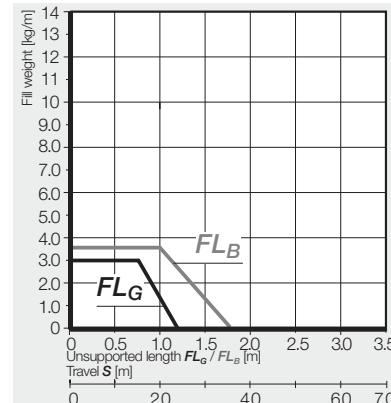


Cost-effective - Series EF61.29

- Series EF61.29 - 29mm inner height
- Available at an even lower price without the pivoting function of the crossbars
- Crossbars removable from both sides
- Otherwise, technically the same as the E61.29 series.

More information ► www.igus.eu/EF61.29

Unsupported applications | Short travels



The required clearance height: $H_f = H + 40\text{mm}$ (with 2.0kg/m fill weight)

If a gliding application is required for a long travel, please consult igus®.

Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

More information ► From page 1362

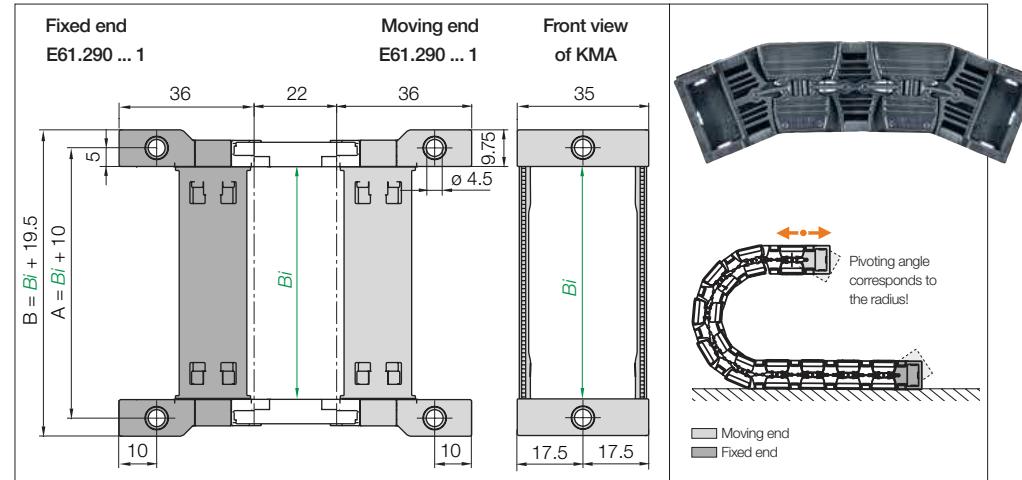


Steel support tray for support of the lower run

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

More information ► From page 1356





KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
030.	E61.290.030.12	40	49.5	30
040.	E61.290.040.12	50	59.5	40
050.	E61.290.050.12	60	69.5	50
060.	E61.290.060.12	70	79.5	60
070.	E61.290.070.12	80	89.5	70
080.	E61.290.080.12	90	99.5	80

(KMA = polymer metal mounting bracket) KMA mounting brackets are only available for an odd number of links.

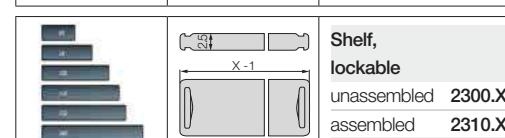
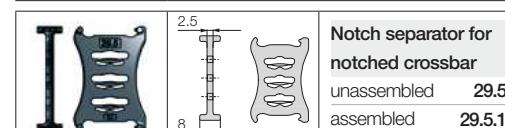
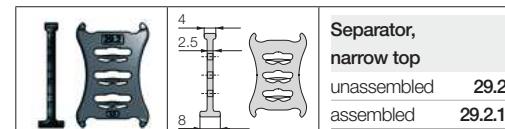
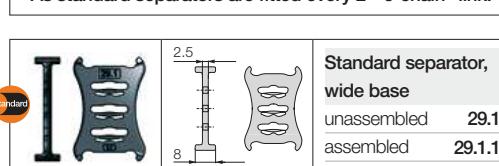
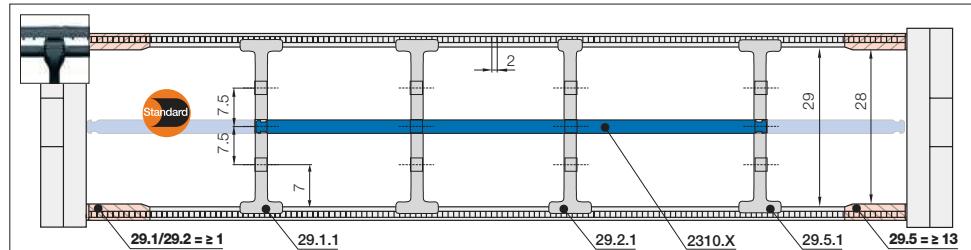


The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index **A**.

E61.290.050.12.A Order example



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



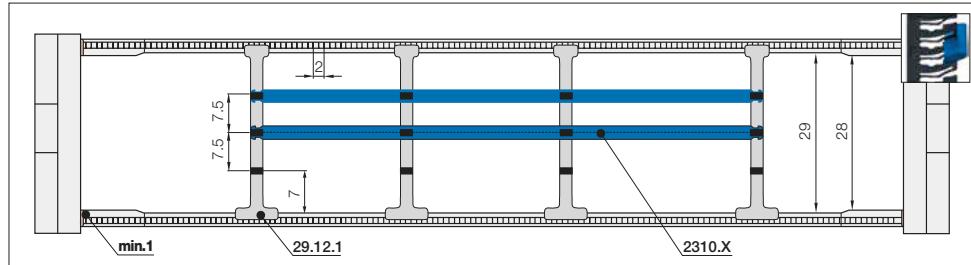
Shelves	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
Width = X [mm]									
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.087	2310.087	
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	2310.090	
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100	
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103	
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110	
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120	
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125	

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
- Part No. E6.35.02.Z - more information ► From page 1428

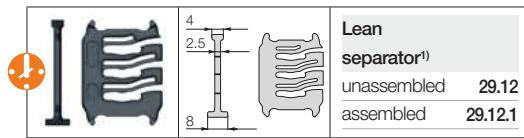


Interior separation | To allow faster filling



Note: Please be aware of the minimum lateral gap to the side links! e-chain®: =1mm

As standard separators are fitted every 2nd e-chain® link!



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 interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab



Cleanroom suitable E6.1 series as a harnessed readychain® system for the semiconductor industry

E6.1 | Series E61.35 | Product range

Dynamic, quiet, light and cleanroom suitable

35



e-chains® | Series E61.35 | Crossbars removable along the inner and outer radius

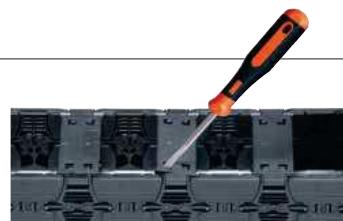
Part No.	<i>Bi</i>	<i>Ba</i>	E61.35
e-chains®	[mm]	[mm]	[kg/m]
E61.35. 030.R.0	30	46	≈ 0.653
E61.35. 040.R.0	40	56	≈ 0.675
E61.35. 050.R.0	50	66	≈ 0.696
E61.35. 060.R.0	60	76	≈ 0.718
E61.35. 070.R.0	70	86	≈ 0.739
E61.35. 080.R.0	80	96	≈ 0.761

Part No.	<i>Bi</i>	<i>Ba</i>	E61.35
e-chains®	[mm]	[mm]	[kg/m]
E61.35. 090.R.0	90	106	≈ 0.783
E61.35. 100.R.0	100	116	≈ 0.804
E61.35. 110.R.0	110	126	≈ 0.826
E61.35. 120.R.0	120	136	≈ 0.848
E61.35. 140.R.0	140	156	≈ 0.891

Available bend radii

R [mm] | 055 | 075 | 100 | 125 | 150 |

Complete Part No. with required radius (*R*). Example: E61.35.100.100.0



Installation note - system E6.1

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

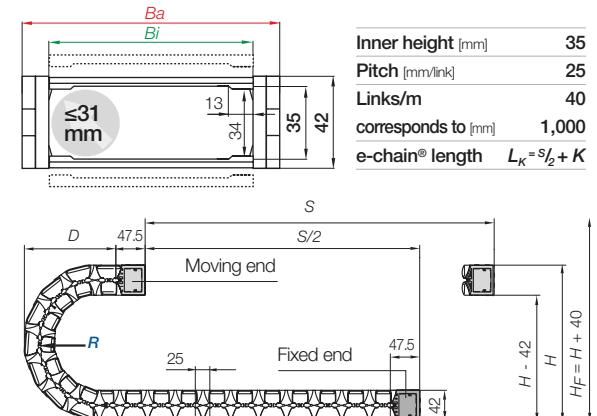
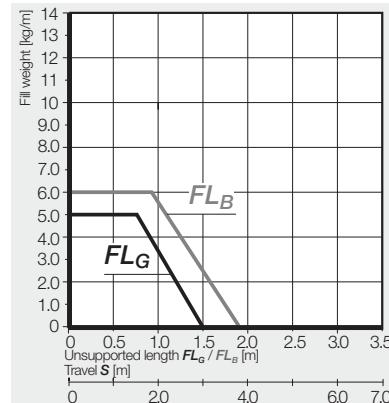
An assembly video is available online at ► www.igus.eu/E61_assembly

E6.1 | Series E61.35 | Installation dimensions

Unsupported applications | Short travels



E61.35



<i>R</i>	055	075	100	125	150
<i>H</i>	192	232	282	332	382
<i>D</i>	113.5	133.5	158.5	183.5	208.5
<i>K</i>	225	290	365	445	525

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

If a gliding application is required for a long travel, please consult igus®.

Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

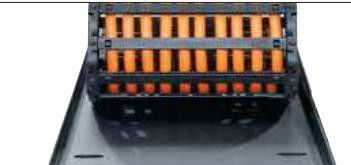
More information ► From page 1362



Steel support tray for support of the lower run

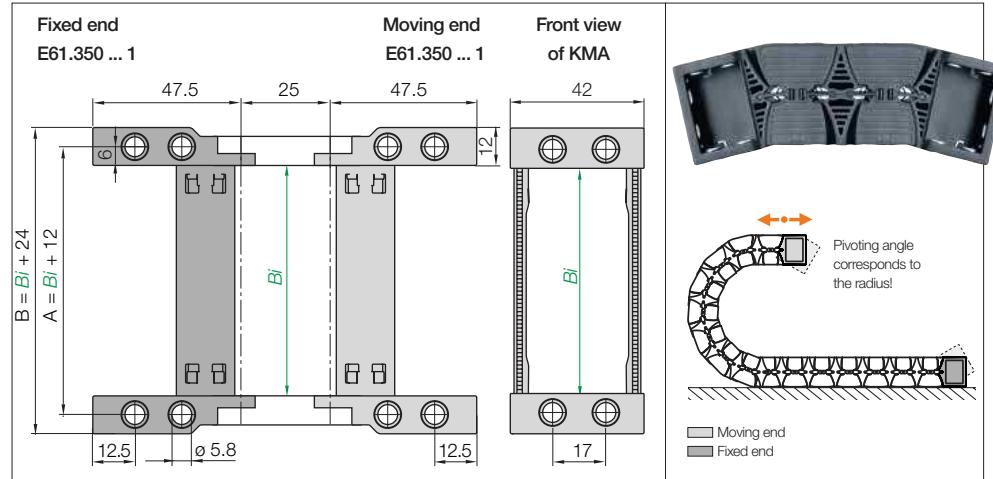
- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1356



E61 | Series E61.35 | Accessories

KMA mounting brackets | Attachment from any side | Pivoting

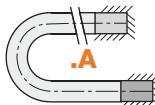


KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
030. ►	E61.350.030.12	42	54	30
040. ►	E61.350.040.12	52	64	40
050. ►	E61.350.050.12	62	74	50
060. ►	E61.350.060.12	72	84	60
070. ►	E61.350.070.12	82	94	70
080. ►	E61.350.080.12	92	104	80

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
090. ►	E61.350.090.12	102	114	90
100. ►	E61.350.100.12	112	124	100
110. ►	E61.350.110.12	122	134	110
120. ►	E61.350.120.12	132	144	120
140. ►	E61.350.140.12	152	164	140

(KMA = polymer metal mounting bracket) KMA mounting brackets are only available for an odd number of links.



The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index **A**.

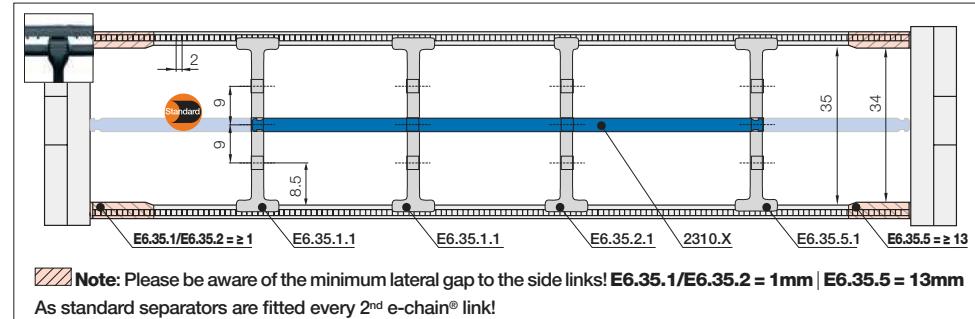
Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1392

E61.350.100.12.A Order example



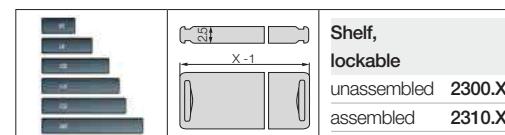
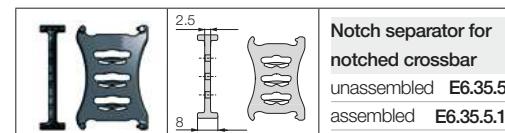
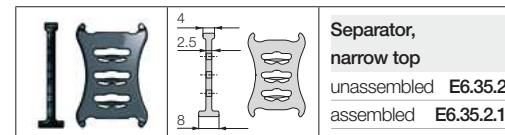
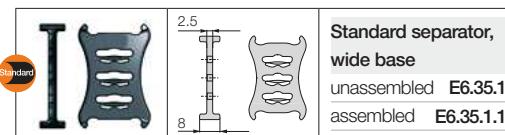
E61 | Series E61.35 | Accessories

Interior separation | Increase cable service life



Standard - for any application

Separator with a wide base for maximum holding force.



For even faster installation

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

Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

Horizontal separation

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

Shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.087	2310.087	
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	2310.090	
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100	
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103	
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110	
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120	
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125	

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

Part No. E6.35.02.Z - more information ► From page 1428



E6.1 | Series E61.40 | Product range

Dynamic, quiet, light and cleanroom suitable

40



e-chains® | Series E61.40 | Crossbars removable along the inner and outer radius

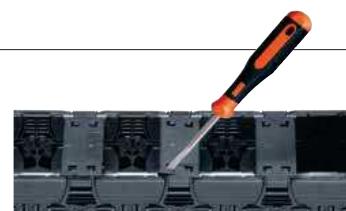
Part No.	<i>Bi</i>	<i>Ba</i>	E61.40
e-chains®	[mm]	[mm]	[kg/m]
E61.40. 040 R.0	40	56	≈ 0.913
E61.40. 050 R.0	50	66	≈ 0.950
E61.40. 052 R.0	52	68	≈ 0.957
E61.40. 062 R.0	62	78	≈ 0.994
E61.40. 070 R.0	70	86	≈ 1.023
E61.40. 075 R.0	75	91	≈ 1.042
E61.40. 087 R.0	87	103	≈ 1.086
E61.40. 100 R.0	100	116	≈ 1.134

Part No.	<i>Bi</i>	<i>Ba</i>	E61.40
e-chains®	[mm]	[mm]	[kg/m]
E61.40. 125 R.0	125	141	≈ 1.226
E61.40. 150 R.0	150	166	≈ 1.318
E61.40. 175 R.0	175	191	≈ 1.410
E61.40. 200 R.0	200	216	≈ 1.502
E61.40. 225 R.0	225	241	≈ 1.595
E61.40. 250 R.0	250	266	≈ 1.687
E61.40. 275 R.0	275	291	≈ 1.779
E61.40. 300 R.0	300	316	≈ 1.871

Available bend radii

R [mm] | 063 | 075 | 100 | 125 | 150 | 200 |

Complete Part No. with required radius (*R*). Example E61.40.100.100.0



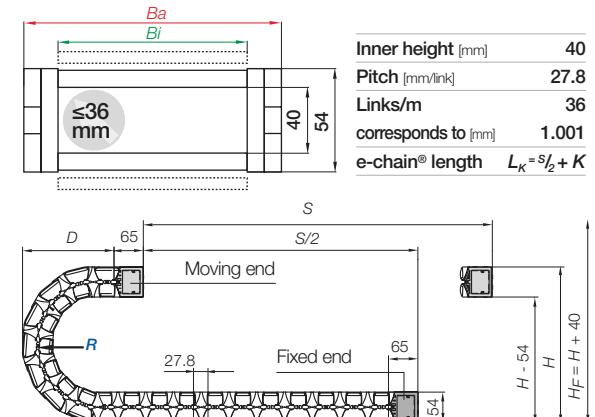
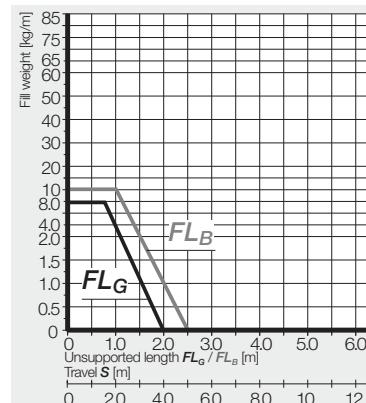
Installation note - system E6.1

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► www.igus.eu/E61_assembly

E6.1 | Series E61.40 | Installation dimensions

Unsupported applications | Short travels



<i>R</i>	063	075	100	125	150	200
<i>H</i>	220	244	294	344	394	494
<i>D</i>	132	144	169	194	219	269
<i>K</i>	255	295	370	450	530	685

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

If a gliding application is required for a long travel, please consult igus®.

Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-chain®
- Open design - dirt and debris fall through

More information ► From page 1362



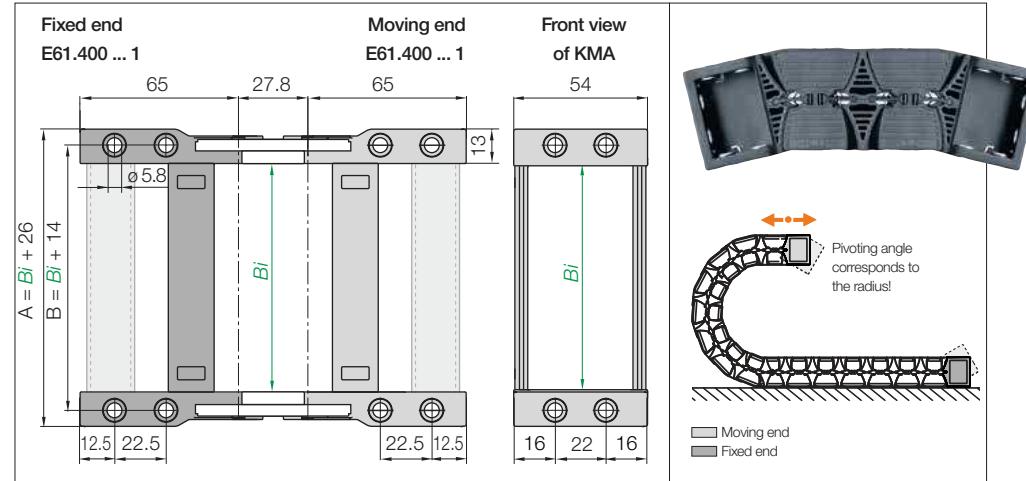
Steel support tray for support of the lower run

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

More information ► From page 1356



KMA mounting brackets | Attachment from any side | Pivoting



KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
040.	E61.400.040.12.C	54	66	40
050.	E61.400.050.12.C	64	76	50
052.	E61.400.052.12.C	66	78	52
062.	E61.400.062.12.C	76	88	62
070.	E61.400.070.12.C	84	96	70
075.	E61.400.075.12.C	89	101	75
087.	E61.400.087.12.C	101	113	87
100.	E61.400.100.12.C	114	126	100

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
125.	E61.400.125.12.C	139	151	125
150.	E61.400.150.12.C	164	176	150
175.	E61.400.175.12.C	189	201	175
200.	E61.400.200.12.C	214	226	200
225.	E61.400.225.12.C	239	251	225
250.	E61.400.250.12.C	264	276	250
275.	E61.400.275.12.C	289	301	275
300.	E61.400.300.12.C	314	326	300

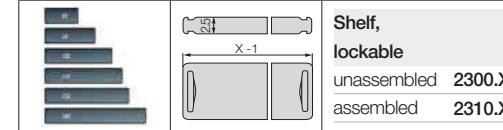
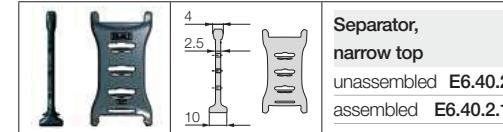
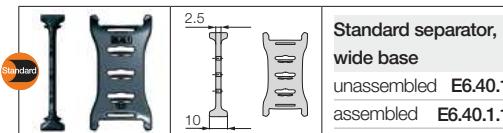
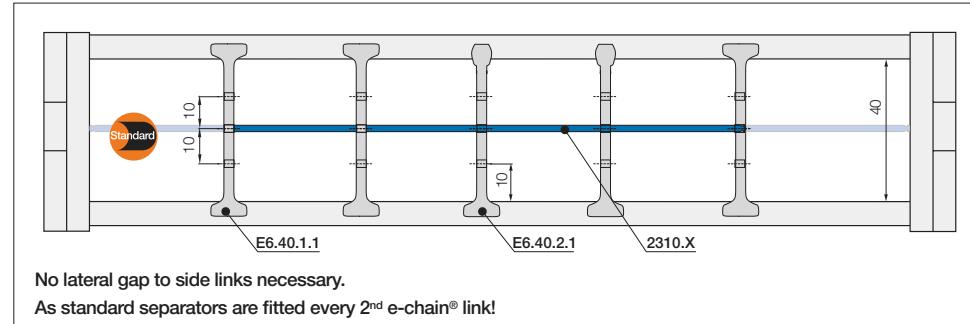
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.



Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1, .A2, .A3 or .A4**.

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

Interior separation | Increase cable service life



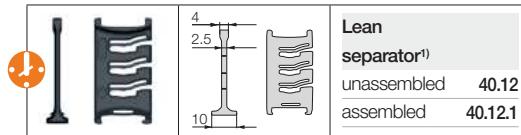
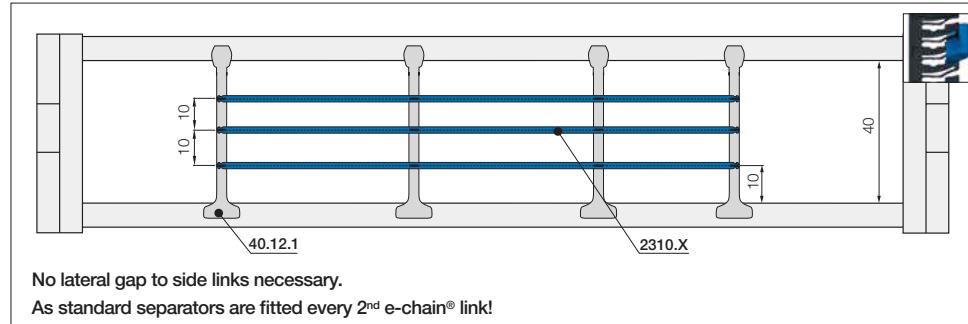
Shelves	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
	015	2300.015	2310.015	060	2300.060	2310.060	087	2300.087	2310.087
	025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	2310.090
	030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100
	038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103
	040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110
	050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120
	057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125

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
- Part No. E6.40.02.Z - more information ► From page 1428



Interior separation | To allow faster filling



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 interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab



Very small bend radii are possible with chainflex® CF98 control cable in this E6.1 readychain® system. It offers smooth operation and is suitable for cleanrooms

E6.1 | Series E61.52 | Product range

Dynamic, quiet, light and cleanroom suitable

52



e-chains® | Series E61.52 | Crossbars removable along the inner and outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	E61.52
e-chains®	[mm]	[mm]	[kg/m]
E61.52. 040 R.0	40	64	≈ 1.679
E61.52. 050 R.0	50	74	≈ 1.724
E61.52. 052 R.0	52	76	≈ 1.733
E61.52. 062 R.0	62.5	86.5	≈ 1.780
E61.52. 070 R.0	70	94	≈ 1.814
E61.52. 075 R.0	75	99	≈ 1.836
E61.52. 087 R.0	87.5	111.5	≈ 1.892
E61.52. 100 R.0	100	124	≈ 1.948

Part No.	<i>Bi</i>	<i>Ba</i>	E61.52
e-chains®	[mm]	[mm]	[kg/m]
E61.52. 125 R.0	125	149	≈ 2.060
E61.52. 150 R.0	150	174	≈ 2.172
E61.52. 175 R.0	175	199	≈ 2.283
E61.52. 200 R.0	200	224	≈ 2.395
E61.52. 225 R.0	225	249	≈ 2.507
E61.52. 250 R.0	250	274	≈ 2.619
E61.52. 275 R.0	275	299	≈ 2.731
E61.52. 300 R.0	300	324	≈ 2.843

Available bend radii

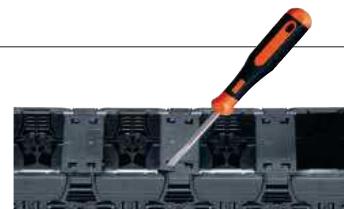
R [mm] | 075 | 100 | 125 | 150 | 175 | 200 |

Complete Part No. with required radius (*R*). Example: E61.52.100.100.0

Installation note - system E6.1

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► www.igus.eu/E61_assembly

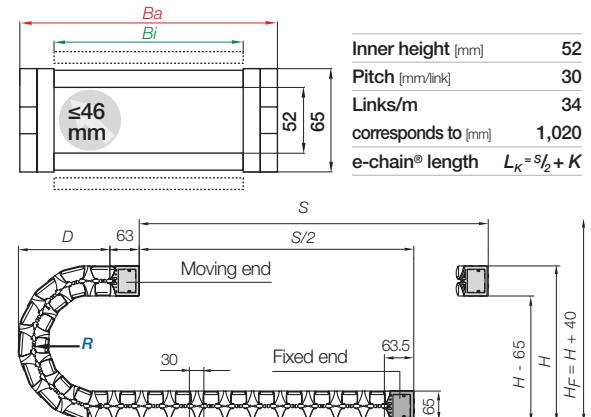
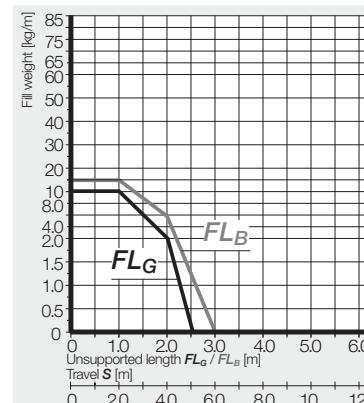


E6.1 | Series E61.52 | Installation dimensions

Unsupported applications | Short travels



► 1392



<i>R</i>	075	100	125	150	175	200
<i>H</i>	265	315	365	415	465	515
<i>D</i>	153	178	203	228	253	278
<i>K</i>	300	375	455	535	610	690

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)



If a gliding application is required for a long travel, please consult igus®.

Steel support tray for support of the lower run

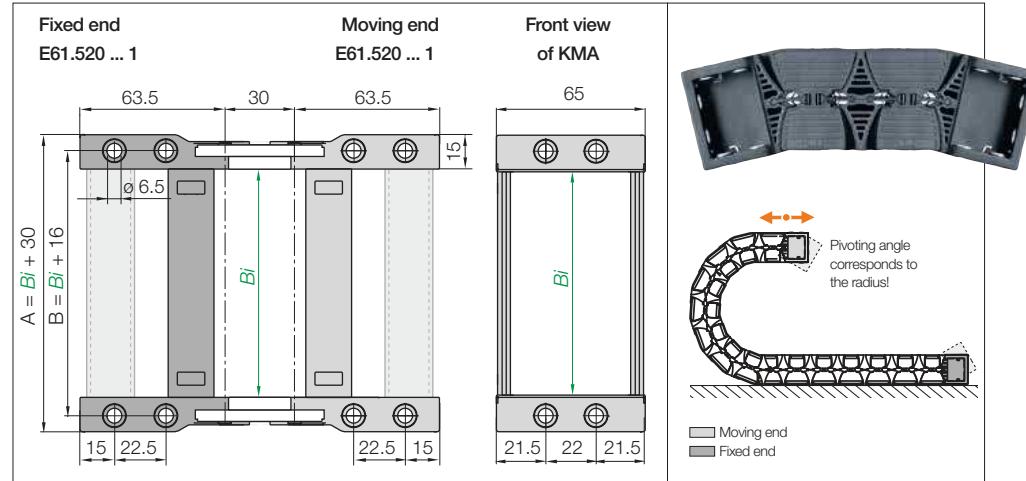
- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1356



E6.1 | Series E61.52 | Accessories

KMA mounting brackets | Attachment from any side | Pivoting

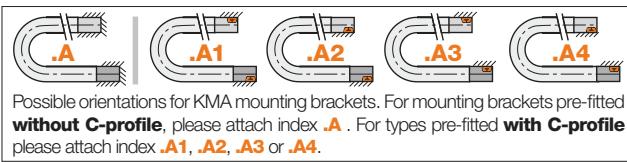


KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
040. ►	E61.520.040.12.C	70	56	40
050. ►	E61.520.050.12.C	80	66	50
052. ►	E61.520.052.12.C	82	68	52
062. ►	E61.520.062.12.C	92.5	78.5	62.5
070. ►	E61.520.070.12.C	100	86	70
075. ►	E61.520.075.12.C	105	91	75
087. ►	E61.520.087.12.C	117.5	103.5	87.5
100. ►	E61.520.100.12.C	130	116	100

Width index	Part No. Full set	A	B	Bi
KMA pivoting				
125. ►	E61.520.125.12.C	155	141	125
150. ►	E61.520.150.12.C	180	166	150
175. ►	E61.520.175.12.C	205	191	175
200. ►	E61.520.200.12.C	230	216	200
225. ►	E61.520.225.12.C	255	241	225
250. ►	E61.520.250.12.C	280	266	250
275. ►	E61.520.275.12.C	300	291	275
300. ►	E61.520.300.12.C	330	316	300

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.

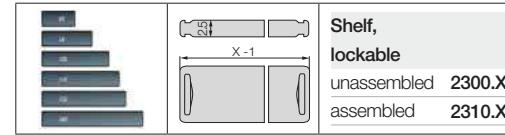
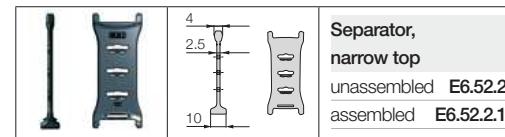
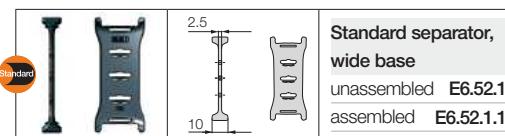
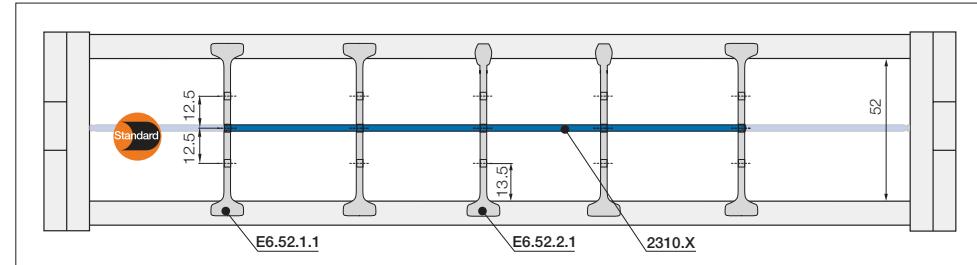


Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1, .A2, .A3 or .A4**.

 **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

E6.1 | Series E61.52 | Accessories

Interior separation | Increase cable service life



Shelves	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
Width = X [mm]				015	2300.015	2310.015	060	2300.060	2310.060
				025	2300.025	2310.025	062	2300.062	2310.062
				030	2300.030	2310.030	065	2300.065	2310.065
				038	2300.038	2310.038	070	2300.070	2310.070
				040	2300.040	2310.040	075	2300.075	2310.075
				050	2300.050	2310.050	077	2300.077	2310.077
				057	2300.057	2310.057	080	2300.080	2310.080

Standard - for any application

Separator with a wide base for maximum holding force.

For even faster installation

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

Horizontal separation

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

E6.1 | Series E61.62 | Product range

Dynamic, quiet, light and cleanroom suitable

62

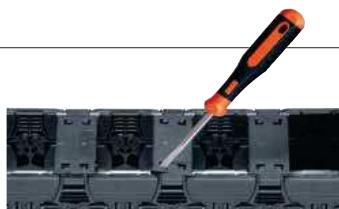


e-chains® | Series E61.62 | Crossbars removable along the inner and outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	E61.62
e-chains®	[mm]	[mm]	[kg/m]
E61.62. 05. R.0	50	82	≈ 2.514
E61.62. 06. R.0	68	100	≈ 2.577
E61.62. 07. R.0	75	107	≈ 2.601
E61.62. 087.R.0	87	119	≈ 2.642
E61.62. 097.R.0	97	129	≈ 2.673
E61.62. 10. R.0	100	132	≈ 2.687
E61.62. 11. R.0	108	140	≈ 2.715
E61.62. 112.R.0	112	144	≈ 2.729
E61.62. 12. R.0	125	157	≈ 2.774
E61.62. 137.R.0	137	169	≈ 2.816
E61.62. 15. R.0	150	182	≈ 2.861
E61.62. 162.R.0	162	194	≈ 2.902
E61.62. 17. R.0	168	200	≈ 2.923
E61.62. 18. R.0	175	207	≈ 2.947
E61.62. 187.R.0	187	219	≈ 2.989
E61.62. 20. R.0	200	232	≈ 3.034

Part No.	<i>Bi</i>	<i>Ba</i>	E61.62
e-chains®	[mm]	[mm]	[kg/m]
E61.62. 212.R.0	212	244	≈ 3.076
E61.62. 23. R.0	225	257	≈ 3.121
E61.62. 237.R.0	237	269	≈ 3.162
E61.62. 25. R.0	250	282	≈ 3.207
E61.62. 262.R.0	262	294	≈ 3.249
E61.62. 28. R.0	275	307	≈ 3.294
E61.62. 29. R.0	287	319	≈ 3.336
E61.62. 30. R.0	300	332	≈ 3.381
E61.62. 312.R.0	312	344	≈ 3.422
E61.62. 325.R.0	325	357	≈ 3.467
E61.62. 337.R.0	337	369	≈ 3.509
E61.62. 350.R.0	350	382	≈ 3.554
E61.62. 362.R.0	362	394	≈ 3.596
E61.62. 375.R.0	375	407	≈ 3.641
E61.62. 387.R.0	387	419	≈ 3.682
E61.62. 400.R.0	400	432	≈ 3.782

Available bend radii

R [mm] | 115 |Complete Part No. with required radius (*R*). Example: E61.62.100.115.0

Installation note - system E6.1

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

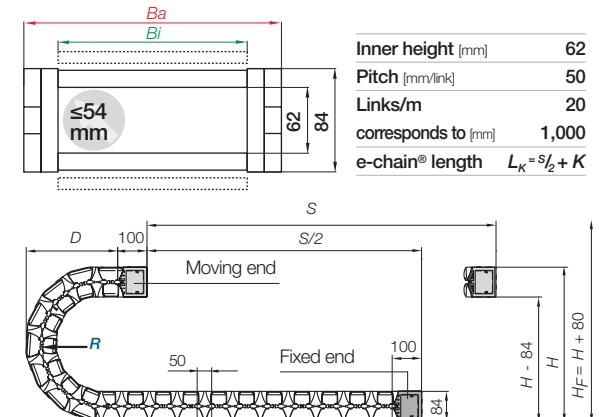
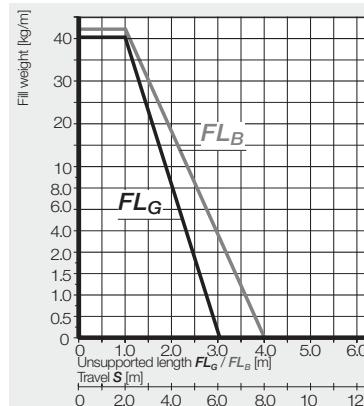
An assembly video is available online at ► www.igus.eu/E61_assembly

E6.1 | Series E61.62 | Installation dimensions

Unsupported applications | Short travels



► 1392

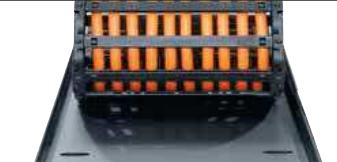
*R* 115*H* 384*D* 232*K* 465The required clearance height: $H_F = H + 80\text{mm}$ (with 2.0kg/m fill weight)

If a gliding application is required for a long travel, please consult igus®.

Steel support tray for support of the lower run

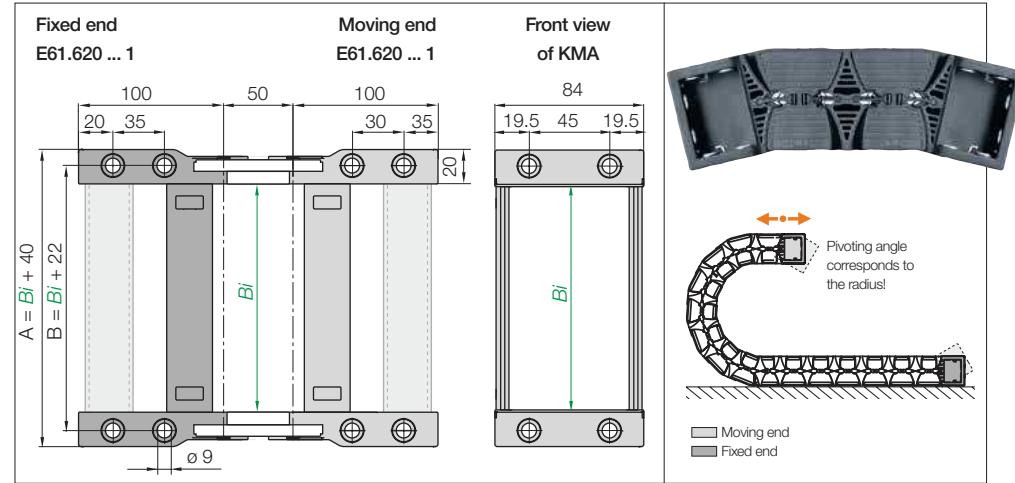
- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1356



E61.1 | Series E61.62 | Accessories

KMA mounting brackets | Attachment from any side | Pivoting



KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A [mm]	B [mm]	Bi [mm]	Width index	Part No. Full set	A [mm]	B [mm]	Bi [mm]
05. ▶	E61.620.05. 12.C	90	72	50	212. ▶	E61.620.212.12.C	252	234	212
06. ▶	E61.620.06. 12.C	108	90	68	23. ▶	E61.620.23. 12.C	265	247	225
07. ▶	E61.620.07. 12.C	115	97	75	237. ▶	E61.620.237.12.C	277	259	237
087. ▶	E61.620.087.12.C	127	109	87	25. ▶	E61.620.25. 12.C	290	272	250
097. ▶	E61.620.097.12.C	137	119	97	262. ▶	E61.620.262.12.C	302	284	262
10. ▶	E61.620.10. 12.C	140	122	100	28. ▶	E61.620.28. 12.C	315	297	275
11. ▶	E61.620.11. 12.C	148	130	108	29. ▶	E61.620.29. 12.C	327	309	287
112. ▶	E61.620.112.12.C	152	134	112	30. ▶	E61.620.30. 12.C	340	322	300
12. ▶	E61.620.12. 12.C	165	147	125	312 ▶	E61.620.312.12.C	352	334	312
137. ▶	E61.620.137.12.C	177	159	137	325. ▶	E61.620.325.12.C	365	347	325
15. ▶	E61.620.15. 12.C	190	172	150	337. ▶	E61.620.337.12.C	377	359	337
162. ▶	E61.620.162.12.C	202	184	162	350. ▶	E61.620.350.12.C	390	372	350
17. ▶	E61.620.17. 12.C	208	190	168	362 ▶	E61.620.362.12.C	402	384	362
18. ▶	E61.620.18. 12.C	215	197	175	375. ▶	E61.620.375.12.C	415	397	375
187. ▶	E61.620.187.12.C	227	209	187	387. ▶	E61.620.387.12.C	427	409	387
20. ▶	E61.620.20. 12.C	240	222	200	400. ▶	E61.620.400.12.C	440	422	400

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.



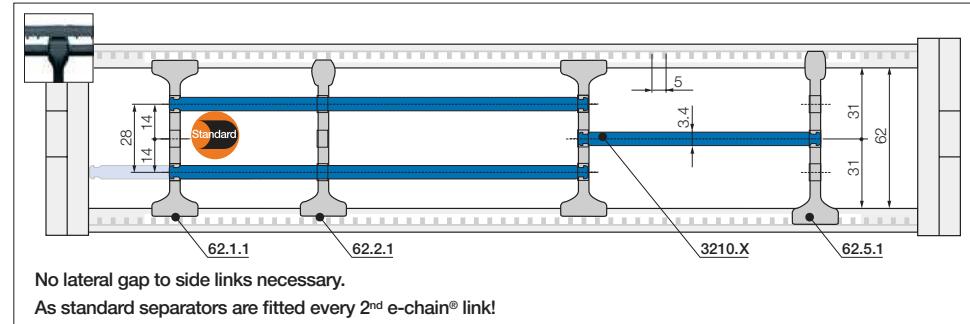
Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1, .A2, .A3 or .A4**.



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

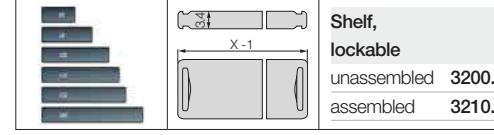
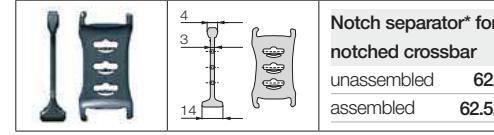
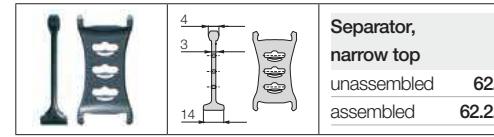
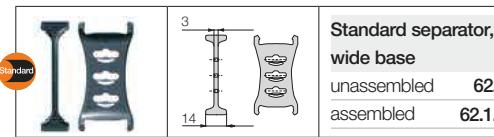
E61.1 | Series E61.62 | Accessories

Interior separation | Increase cable service life

Previous generation of interior separation with other options ► www.igus.eu/E61.62

Standard - for any application

Separator with a wide base for maximum holding force.



X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
100	3200.100	3210.100	175	3200.175	3210.175			
115	3200.115	3210.115	200	3200.200	3210.200			

Horizontal separation

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

E6.1 | Series E61.80 | Product range

Dynamic, quiet, light and cleanroom suitable

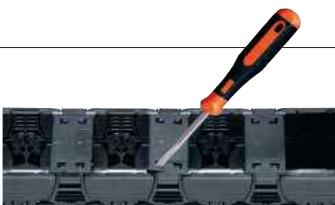
80



e-chains® | Series E61.80 | Crossbars removable along the inner and outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	E61.80
e-chains®	[mm]	[mm]	[kg/m]
E61.80. 05. R.0	50	100	≈ 2.906
E61.80. 06. R.0	65	115	≈ 2.979
E61.80. 07. R.0	75	125	≈ 3.028
E61.80. 08. R.0	87	137	≈ 3.089
E61.80. 10. R.0	100	150	≈ 3.150
E61.80. 11. R.0	112	162	≈ 3.209
E61.80. 12. R.0	125	175	≈ 3.272
E61.80. 13. R.0	137	187	≈ 3.331
E61.80. 15. R.0	150	200	≈ 3.394
E61.80. 16. R.0	162	212	≈ 3.453
E61.80. 17. R.0	175	225	≈ 3.516
E61.80. 18. R.0	187	237	≈ 3.575
E61.80. 20. R.0	200	250	≈ 3.638
E61.80. 21. R.0	212	262	≈ 3.697
E61.80. 22. R.0	225	275	≈ 3.760
E61.80. 23. R.0	237	287	≈ 3.819
E61.80. 25. R.0	250	300	≈ 3.882
E61.80. 26. R.0	262	312	≈ 3.941
E61.80. 27. R.0	275	325	≈ 4.004
E61.80. 28. R.0	287	337	≈ 4.063
E61.80. 30. R.0	300	350	≈ 4.127

Available bend radii

R [mm] | 150 |Complete Part No. with required radius (*R*). Example: E61.80.100.150.0

Installation note - system E6.1

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

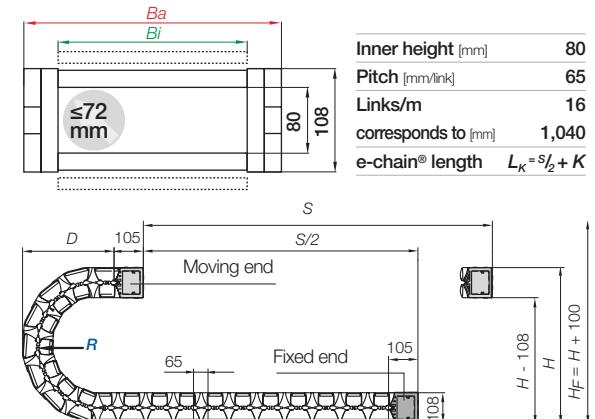
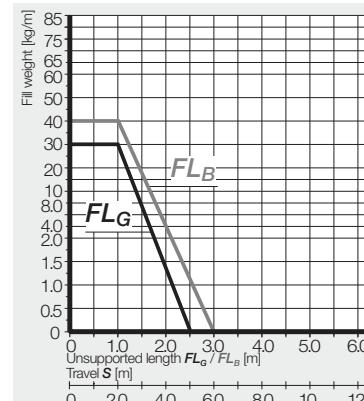
An assembly video is available online at ► www.igus.eu/E61_assembly

E6.1 | Series E61.80 | Installation dimensions

Unsupported applications | Short travels



► 1392

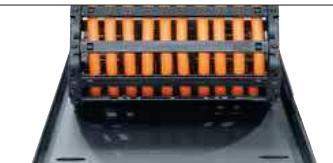
*R* 150*H* 508*D* 301.5*K* 605The required clearance height: $H_F = H + 80\text{ mm}$ (with 5.0kg/m fill weight)

If a gliding application is required for a long travel, please consult igus®.

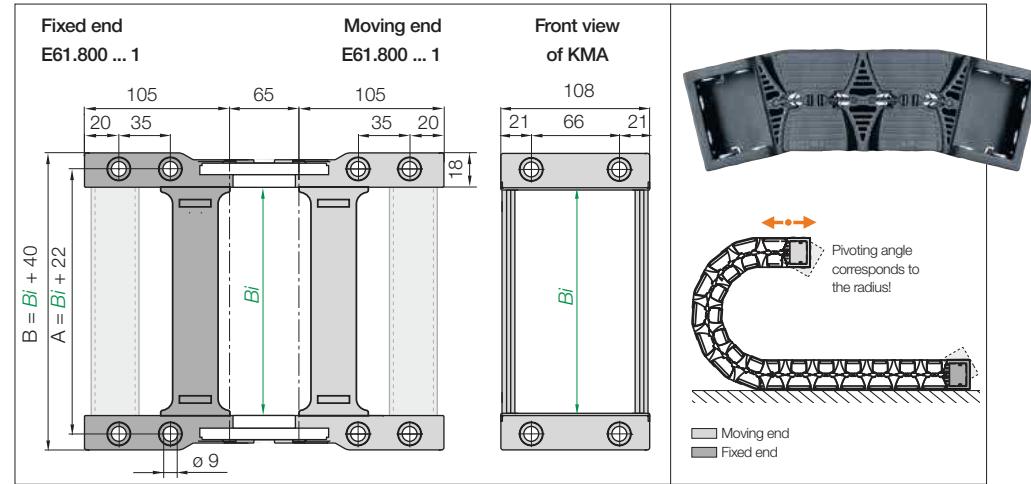
Steel support tray for support of the lower run

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

More information ► From page 1356



KMA mounting brackets | Attachment from any side | Pivoting



KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set	A [mm]	B [mm]	Bi [mm]
KMA pivoting				
05.	E61.800.05.12.C	72	90	50
06.	E61.800.06.12.C	87	105	65
07.	E61.800.07.12.C	97	115	75
08.	E61.800.08.12.C	109	127	87
10.	E61.800.10.12.C	122	140	100
11.	E61.800.11.12.C	134	152	112
12.	E61.800.12.12.C	147	165	125
13.	E61.800.13.12.C	159	177	137
15.	E61.800.15.12.C	172	190	150
16.	E61.800.16.12.C	184	202	162
17.	E61.800.17.12.C	197	215	175
18.	E61.800.18.12.C	209	227	187
20.	E61.800.20.12.C	222	240	200
21.	E61.800.21.12.C	234	252	212
22.	E61.800.22.12.C	247	265	225
23.	E61.800.23.12.C	259	277	237
25.	E61.800.25.12.C	272	290	250
26.	E61.800.26.12.C	284	302	262
27.	E61.800.27.12.C	297	315	275
28.	E61.800.28.12.C	309	327	287
30.	E61.800.30.12.C	322	340	300

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.

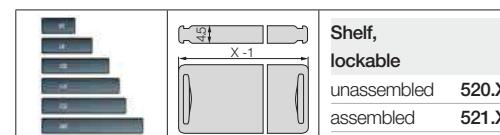
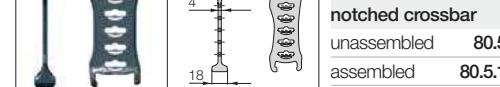
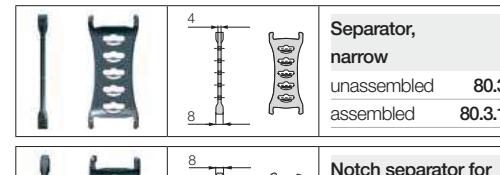
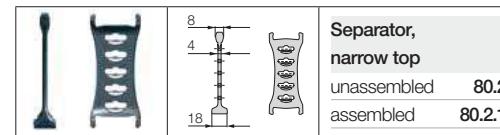
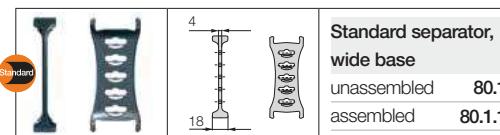
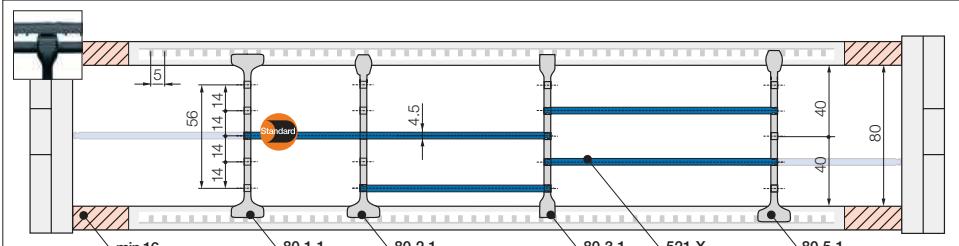


Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1, .A2, .A3 or .A4**.



Interior separation | Increase cable service life

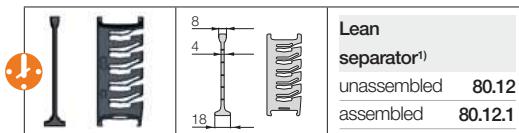
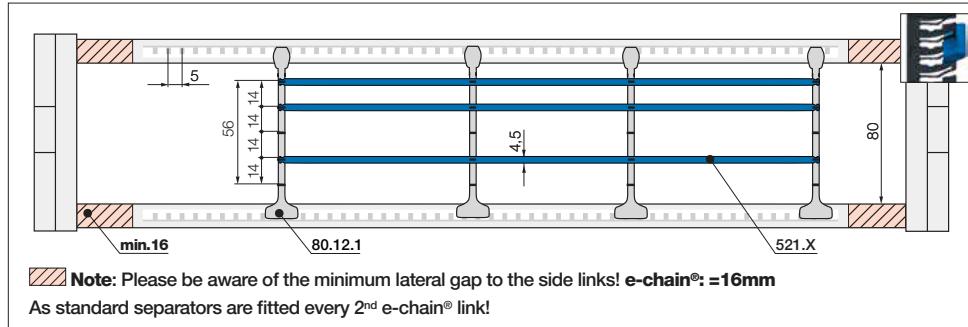
Previous generation of interior separation with other options ► www.igus.eu/E61.80



Shelves Width = X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	520.050	521.050	150	520.150	521.150	300	520.300	521.300
065	520.065	521.065	175	520.175	521.175	350	520.350	521.350
075	520.075	521.075	200	520.200	521.200	375	520.375	521.375
100	520.100	521.100	225	520.225	521.225	387	520.387	521.387
125	520.125	521.125	250	520.250	521.250	450	520.450	521.450

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

Interior separation | To allow faster filling



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 interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab



Fully harnessed e-chain systems® to your requirements. E6.1 e-chain® system and chainflex® cables both cleanroom suitable in the semiconductor industry