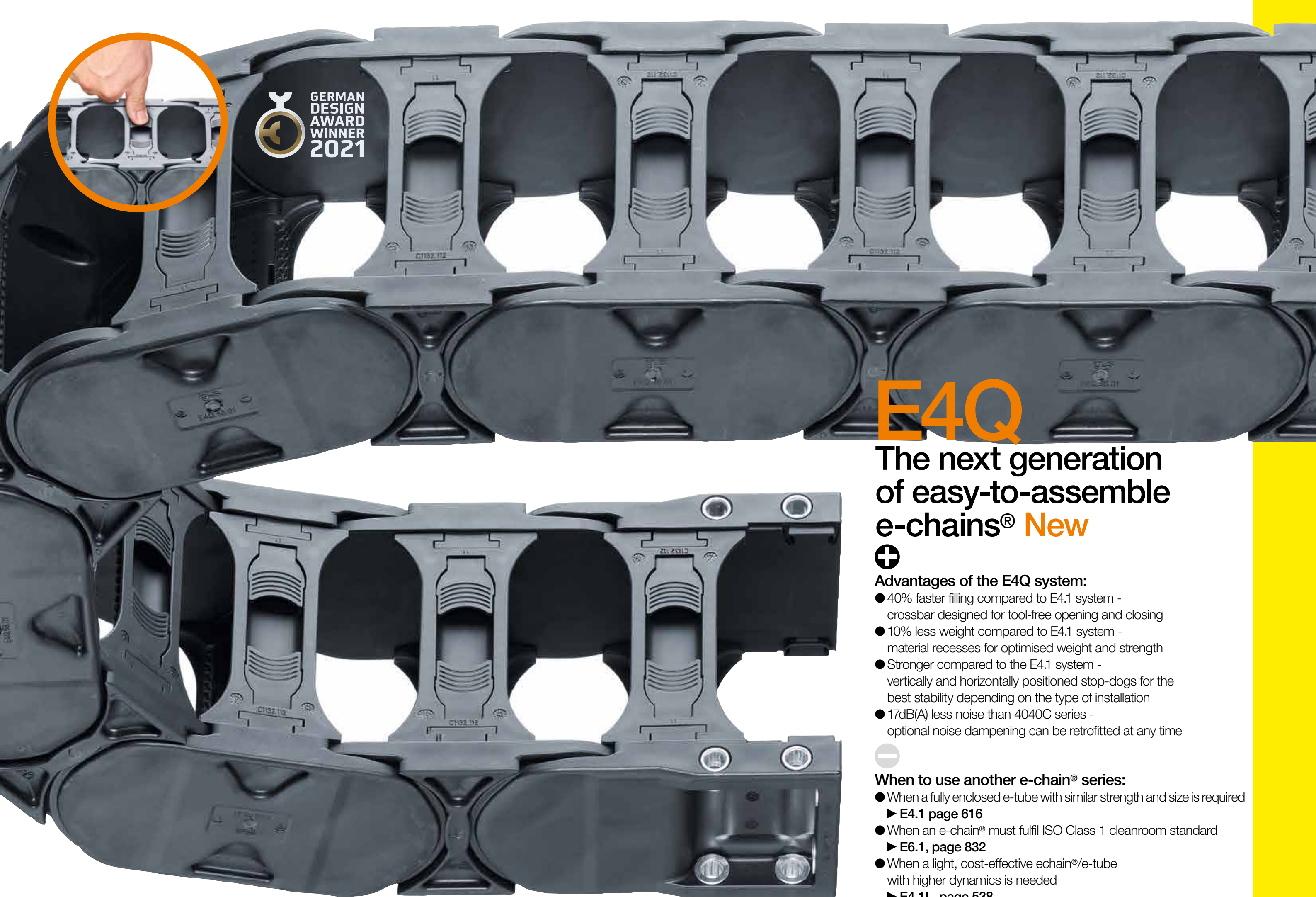




GERMAN
DESIGN
AWARD
WINNER
2021

E4Q

The next generation of easy-to-assemble e-chains® **New**



Advantages of the E4Q system:

- 40% faster filling compared to E4.1 system - crossbar designed for tool-free opening and closing
- 10% less weight compared to E4.1 system - material recesses for optimised weight and strength
- Stronger compared to the E4.1 system - vertically and horizontally positioned stop-dogs for the best stability depending on the type of installation
- 17dB(A) less noise than 4040C series - optional noise dampening can be retrofitted at any time



When to use another e-chain® series:

- When a fully enclosed e-tube with similar strength and size is required
▶ E4.1 page 616
- When an e-chain® must fulfil ISO Class 1 cleanroom standard
▶ E6.1, page 832
- When a light, cost-effective echain®/e-tube with higher dynamics is needed
▶ E4.1L, page 538

Attachment
from any side:
with KMA mounting
brackets

40% faster filling¹⁾:
crossbar designed
for tool-free opening
and closing

15% higher pull-
out strength of the
crossbars¹⁾:
strong connection
to the e-chain®

10% less weight¹⁾:
material recesses
for optimised weight
and strength

More strength¹⁾:
vertically and
horizontally positioned
stop-dogs for the best
stability depending on
the type of installation

17dB(A) less noise²⁾:
optional noise dampening,
can be retrofitted,
upon request

1) Compared to E4.1 system
2) Compared to 4040C series

The next generation of easy-to- assemble e-chains® - E4Q

Easy opening and closing, without tools

The latest E4Q e-chains® generation combines proven design features of the 12-year old, E4.1 e-chain® standard with new organic design and a novel opening mechanism. This gives the E4Q an even longer service life and significantly improved ease of installation.

- Tool-free opening and closing
- Sustainability - 10% less material means 10% less energy consumption during production
- Short cross-bar pickup for even easier filling of the e-chain®
- Optimised interior geometry for longer cable service life
- Novel integrated grid structure on crossbars for fixed interior separation with narrower separators
- Inner/outer link principle for straight run
- Undercut design ensures the best hold as well as high lateral and torsion strength

Typical industries and applications

- Machine tools ● Cranes ● Automation systems



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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e-chains® with crossbars every link
the all-rounder - and for particularly demanding applications
Please observe the guidelines for the e-chains® selection, further information ► From page 114

E4Q.34 ¹⁾ New	34	075 - 250	98 - 273	54	063 - 300	3.60	592
E4Q.44 ¹⁾ New	44	075 - 250	101 - 276	64	075 - 350	4.00	598
E4Q.58 New	58	100 - 362	134 - 397	84	135 - 500	5.00	604
E4Q.82 New	82	100 - 362	150 - 413	108	150 - 1,000	6.20	610



e-chains® with crossbars every 2nd link
the cost-effective, easy-to-install alternative for almost all applications
Please observe the guidelines for the e-chains® selection, further information ► From page 114

H4Q.34 ¹⁾ New	34	075 - 250	98 - 273	54	063 - 300	3.60	592
H4Q.44 ¹⁾ New	44	075 - 250	101 - 276	64	075 - 350	4.00	598
H4Q.58 New	58	100 - 362	134 - 397	84	135 - 500	5.00	604
H4Q.82 New	82	100 - 362	150 - 413	108	150 - 1,000	6.20	610

1) Available widths and radii available from spring 2021.

Available from stock. Ready to ship in 24 - 48hrs.*
*Average time before the ordered goods are dispatched.



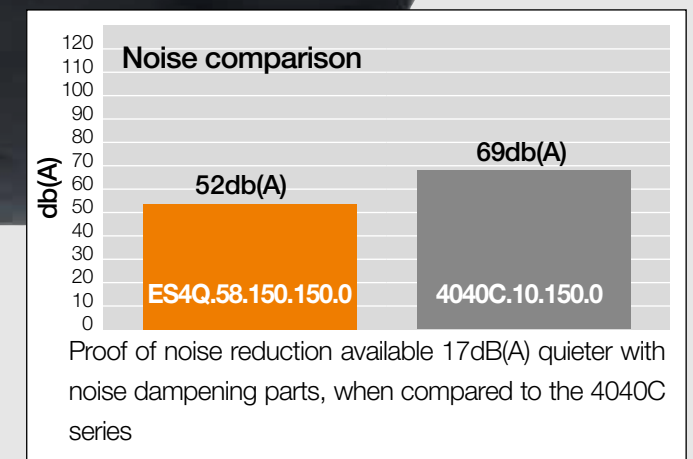
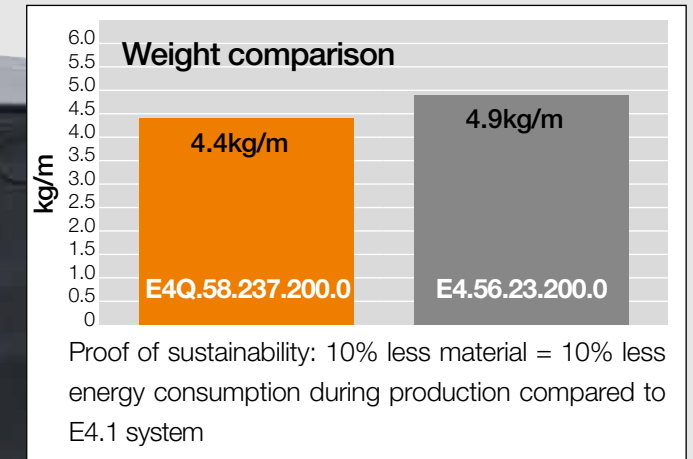
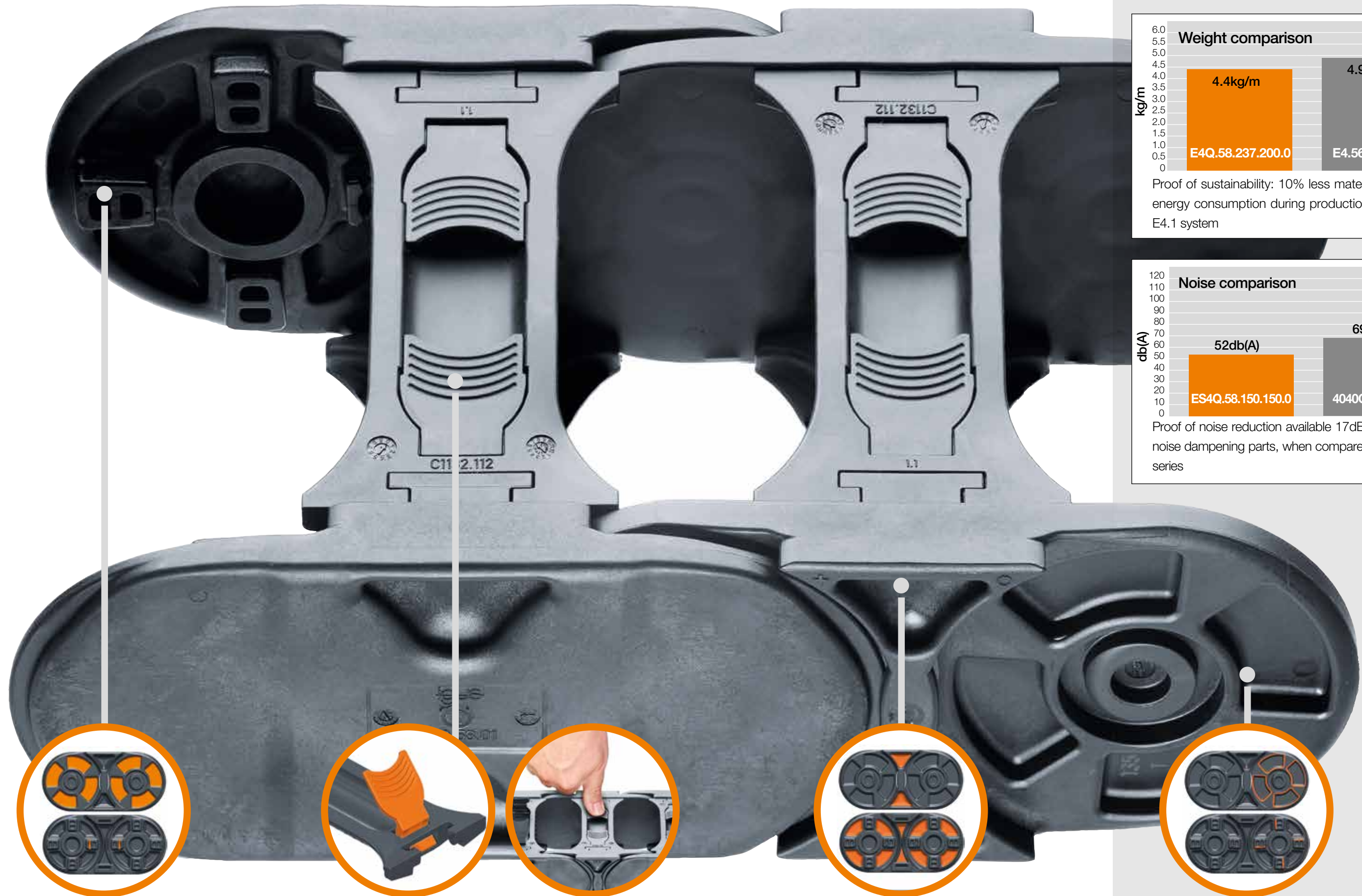
Easy handling - opening and closing of an e-chain® without tools, save up to 40% assembly time compared to E4.1 series

The E4Q innovation | Design principle

Open and close easily without tools ...

The E4Q innovation | Design principle | Proof

... simple handling



Optional noise dampening - new system for noise reduction. 17dB(A) quieter than 4040C series

Open and close the E4Q e-chain® easily without tools. 40% faster assembly or filling compared to E4.1 system

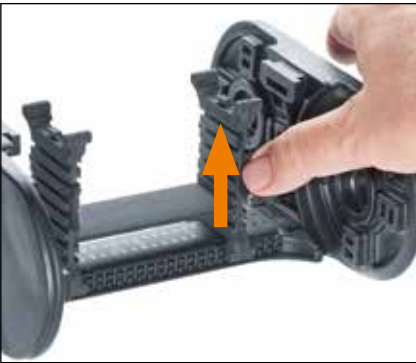
Lighter structure of the e-chain® links due to material saving. 10% less weight compared to E4.1 system.

More strength and a higher unsupported length compared to the E4.1 system due to vertical and horizontal stop-dogs

E4Q | Universal interior separation **New**
Particularly simplified assembly with the new universal separators



Complete flexibility, reliability and ease of assembly in one
The new universal system for modular shelving offers complete flexibility:
Depending on accessibility, choose the side from which you want to fit the shelf and whether it is easier to access the inner or outer radius of the e-chain® in order to release the crossbars. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. Thanks to positive-locking, assembly is possible with virtually no force. Locking is simple and fast but the shelves are strongly captive. To unlock, release the crossbar on the inner or outer radius, depending on accessibility. The new E4Q e-chains® can be opened quickly and without tools. After the crossbar has been released, the shelf can be unlocked by means of the slider and then simply pulled out.



Opening of the lock via integrated slider



Shelf can be used in several layers and securely locked



When the crossbar is inserted, the lock is automatically activated

E4Q | Interior separation options | Overview
The E4Q interior separation product range is constantly being expanded ...

Universal interior separation | For even more horizontal separation options



Series	Universal middle plate ¹⁾	Universal side plate ¹⁾	Universal separator ¹⁾	Shelves ¹⁾ lockable (XXX = mm)
E4Q.34 / H4Q.34	34.21	34.22	34.23	S428.XXX
E4Q.44 / H4Q.44	44.21	44.22	44.23	S428.XXX
E4Q.58 / H4Q.58	58.21	58.22	58.23	S428.XXX
E4Q.82 / H4Q.82	82.21	82.22	82.23	S428.XXX

¹⁾ Available from spring 2021.

Standard interior separations | Lean separators



Series	Standard separator	Notch separator	Lean notch separator*	Shelves, lockable (X = mm)
E4Q.34 / H4Q.34	34.1 ¹⁾	34.5 ²⁾	34.15 ²⁾	3200.X
E4Q.44 / H4Q.44	44.1 ¹⁾	44.5 ²⁾	44.15 ²⁾	3200.X
E4Q.58 / H4Q.58	58.1	58.5 ²⁾	58.15	520.X
E4Q.82 / H4Q.82	82.1	82.5	82.15	520.X

¹⁾ Available from spring 2021. ²⁾ Available upon request. Please consult igus® for delivery time.

***Note:** Please combine a maximum of four lean notch separators with one shelf. Not suitable for side-mounted e-chains®!



Open and close the e-chain® easily without tools



Four stop-dogs for maximum strength in any installation orientation



Less material used where it does not add to the strength



Optional noise dampeners for even quieter operation



KMA mounting brackets with attachment options from any side



Notches in the crossbar for secure grip of the separators



Particularly simplified assembly with the new universal separators



Standard interior separation from the proven E4 modular system available from stock



Lean separators enable extremely fast cable filling in several layers



Strain relief e.g. clamps, tie-wrap plates, nuggets, etc. ► From page 1392



Aluminium and steel support tray for support of the lower run ► From page 1362



Super-aluminium trough with low wear glide bar for some series, available from stock ► From page 1298

Technical data

	Speed gliding / acceleration gliding	≤ 10 [m/s] / ≤ 50 [m/s²]
	Speed FL_G / acceleration FL_G	≤ 20 [m/s] / ≤ 200 [m/s²]
	Speed FL_B / acceleration FL_B	≤ 3 [m/s] / ≤ 6 [m/s²]
	Material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid G	VDE 0304 IIC UL94-HB
■ FL_G = unsupported with straight upper run ■ FL_B = unsupported with permitted sag		

Installation types, maximum travels

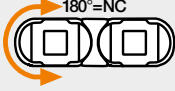
Series	Unsupported	Gliding ¹⁾	Vertical hanging	Vertical standing	Side mounted unsupported
E4Q.34 / H4Q.34	≤ 7.2m	≤ 200m	≤ 80m	≤ 5.0m	≤ 1.5m
E4Q.44 / H4Q.44	≤ 8.0m	≤ 300m	≤ 100m	≤ 6.0m	≤ 2.0m
E4Q.58 / H4Q.58	≤ 10.0m	≤ 400m	≤ 100m	≤ 6.0m	≤ 2.5m
E4Q.82 / H4Q.82	≤ 12.4m	≤ 400m	≤ 120m	≤ 6.0m	≤ 3.0m

E4Q e-chain® sample request

Are you interested in our new E4Q energy chain? Order your free sample and see the innovative properties for yourself.
Request a sample here ► www.igus.eu/innovation



Options with order keys | Examples based on series E4Q.58/H4Q.58

	Standard	Optional noise dampers	Simply turn outer side link, no additional rework	Reverse Bend Radius (RBR) for circular movements
	Part No. Standard	Part No. Low noise (with pads)	Part No. NC version	Part No. RBR
				
	E4Q.58.150.R.0 e-chain® with crossbars every link	ES4Q.58.150.R.0 e-chain® with crossbars every link	E4Q.58.150.R.0.NC e-chain® with crossbars every link	— RBR is not possible
	H4Q.58.150.R.0 e-chain® with crossbars every 2 nd link	HS4Q.58.150.R.0 e-chain® with crossbars every 2 nd link	H4Q.58.150.R.0.NC e-chain® with crossbars every 2 nd link	— RBR is not possible
	Ready to ship in 24 - 48hrs.*	Delivery time upon request	Ready to ship in 24 - 48hrs.*	

Unsupported lengths +25% possible	ESD - electrically conductive material
Part No. XXL material	Part No. igumid ESD
	
E4Q.58.150.R.0.XXL e-chain® with crossbars every link ¹⁾	E4Q.58.150.R.0.ESD e-chain® with crossbars every link
H4Q.58.150.R.0.XXL e-chain® with crossbars every 2 nd link ¹⁾	H4Q.58.150.R.0.ESD e-chain® with crossbars every 2 nd link
Ready to ship in 12 business days*	Delivery time upon request

*Average time before the ordered goods are dispatched.
¹⁾ Side-bands made from XXL material ²⁾ Available upon request. Delivery time upon request

Order example | Examples based on series E4Q.58

	Order example for complete e-chain® (3.0m), colour black, with mounting brackets and interior separation:		
e-chain® (3.0m)	Please indicate e-chain® length or number of links: 3.0m or 33 links	E4Q.58.150.R.0	
+ Mounting brackets	1 set (with odd number of links and integrated C-profiles)	E4Q.582.150.1.12.C	
Interior separation	with 2 separators assembled every 2 nd link	2 x 58.1.1	
Order text:	3m E4Q.58.150.300.0 + E4Q.582.150.1.12.C + 2 x 58.1.1		

Order key and colour examples | Examples based on series E4Q.58/H4Q.58



Order key

e-chain® with crossbars every link

E4Q.58.150.300.0

e-chain® with crossbars every 2nd link

H4Q.58.150.300.0

Series / Type

Inner height

Width index (depends on *B*)

Bend radius *R*

Colour index (standard black)



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 24 - 48hrs.*

Above special colours upon request.



Series E4Q.34 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.34 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.34 [kg/m]	H4Q.34 [kg/m]
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 075.R.0	75	98	≈ 1.61	1.43
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 087.R.0	87	111	≈ 1.65	≈ 1.45
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 100.R.0	100	123	≈ 1.70	≈ 1.47
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 108.R.0	108	131	≈ 1.73	≈ 1.49
E4Q.34.* H4Q.34.* 112.R.0	112	136	≈ 1.74	≈ 1.49
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 125.R.0	125	148	≈ 1.79	≈ 1.52
E4Q.34.* H4Q.34.* 137.R.0	137	161	≈ 1.83	≈ 1.54
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 150.R.0	150	173	≈ 1.96	≈ 1.60
E4Q.34.* H4Q.34.* 162.R.0	162	186	≈ 2.00	≈ 1.63
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 168.R.0	168	191	≈ 2.03	≈ 1.64
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 175.R.0	175	198	≈ 2.06	≈ 1.65
E4Q.34.* H4Q.34.* 187.R.0	187	211	≈ 2.10	≈ 1.67
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 200.R.0	200	223	≈ 2.15	≈ 1.70
E4Q.34.* H4Q.34.* 212.R.0	212	236	≈ 2.19	≈ 1.72
E4Q.34.* H4Q.34.* 225.R.0	225	248	≈ 2.24	≈ 1.74

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.34 [kg/m]	H4Q.34 [kg/m]
E4Q.34.* H4Q.34.* 237.R.0	237	261	≈ 2.28	≈ 1.76
E4Q.34. ¹⁾ H4Q.34. ¹⁾ 250.R.0	250	273	≈ 2.32	≈ 1.78
E4Q.34.* H4Q.34.* 262.R.0	262	286	≈ 2.36	≈ 1.81
E4Q.34.* H4Q.34.* 275.R.0	275	298	≈ 2.41	≈ 1.83
E4Q.34.* H4Q.34.* 287.R.0	287	311	≈ 2.46	≈ 1.85
E4Q.34.* H4Q.34.* 300.R.0	300	323	≈ 2.51	≈ 1.88
E4Q.34.* H4Q.34.* 312.R.0	312	336	≈ 2.55	≈ 1.90
E4Q.34.* H4Q.34.* 325.R.0	325	348	≈ 2.60	≈ 1.92
E4Q.34.* H4Q.34.* 337.R.0	337	361	≈ 2.64	≈ 1.94
E4Q.34.* H4Q.34.* 350.R.0	350	373	≈ 2.69	≈ 1.97
E4Q.34.* H4Q.34.* 362.R.0	362	386	≈ 2.73	≈ 1.99
E4Q.34.* H4Q.34.* 375.R.0	375	398	≈ 2.78	≈ 2.01
E4Q.34.* H4Q.34.* 387.R.0	387	411	≈ 2.82	≈ 2.03
E4Q.34.* H4Q.34.* 400.R.0	400	423	≈ 2.90	≈ 2.08

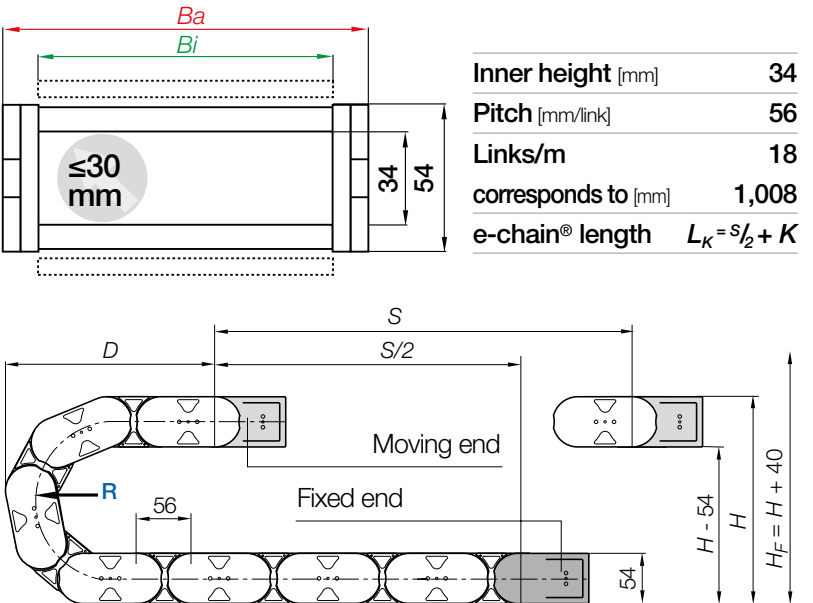
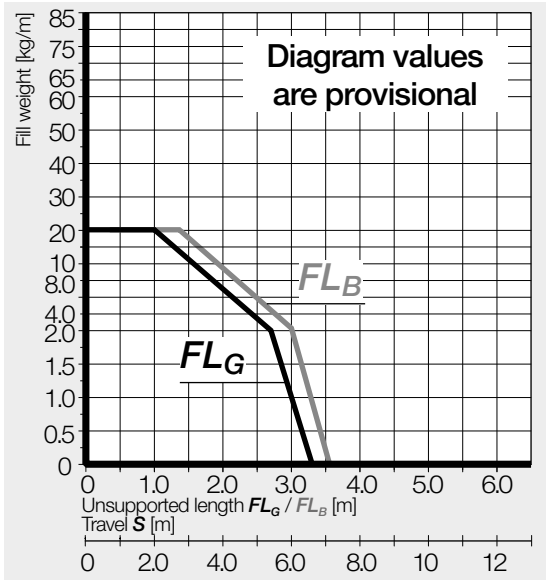
*Width available upon request. Available upon request. 1) Width available from spring 2021. 2) Radius available from spring 2021.

Available bend radii

R [mm] | 063²⁾ | 075²⁾ | 100²⁾ | 125²⁾ | 150²⁾ | 175²⁾ | 200²⁾ | 220²⁾ | 250²⁾ | 300²⁾ |

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

E4Q.34.150.150.0 = crossbars every link / E4Q.34.150.150.0 = crossbars every 2nd link

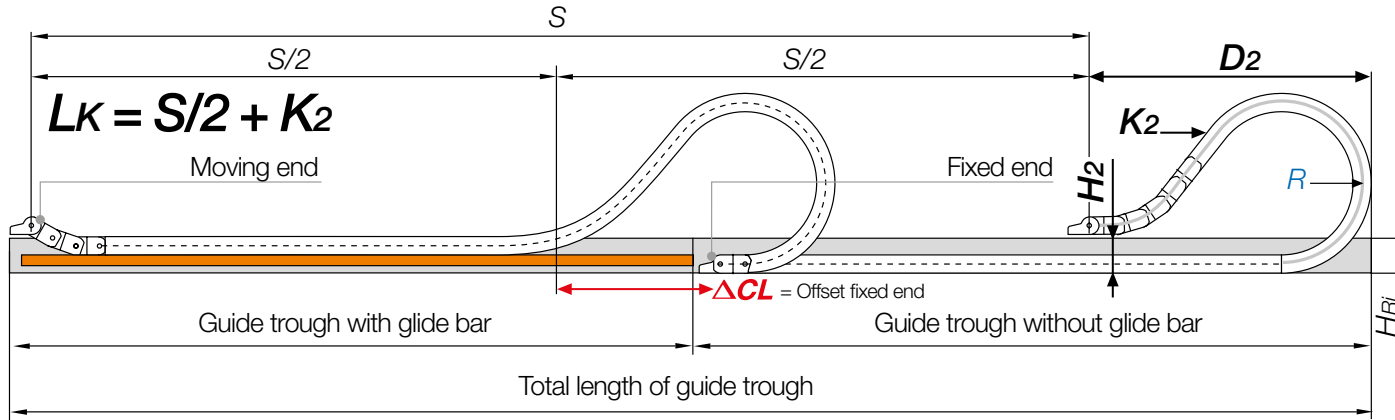


R	063 ²⁾	075 ²⁾	100 ²⁾	125 ²⁾	150 ²⁾	175 ²⁾	200 ²⁾	220 ²⁾	250 ²⁾	300 ²⁾
H + ²⁰ 0	180	204	254	304	354	404	454	494	554	654
D	174	186	211	236	261	286	311	331	361	411
K	310	350	430	505	585	665	745	805	900	1,055

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

2) Radius available from spring 2021.

Gliding applications | For travel lengths from 10m to max. 200m

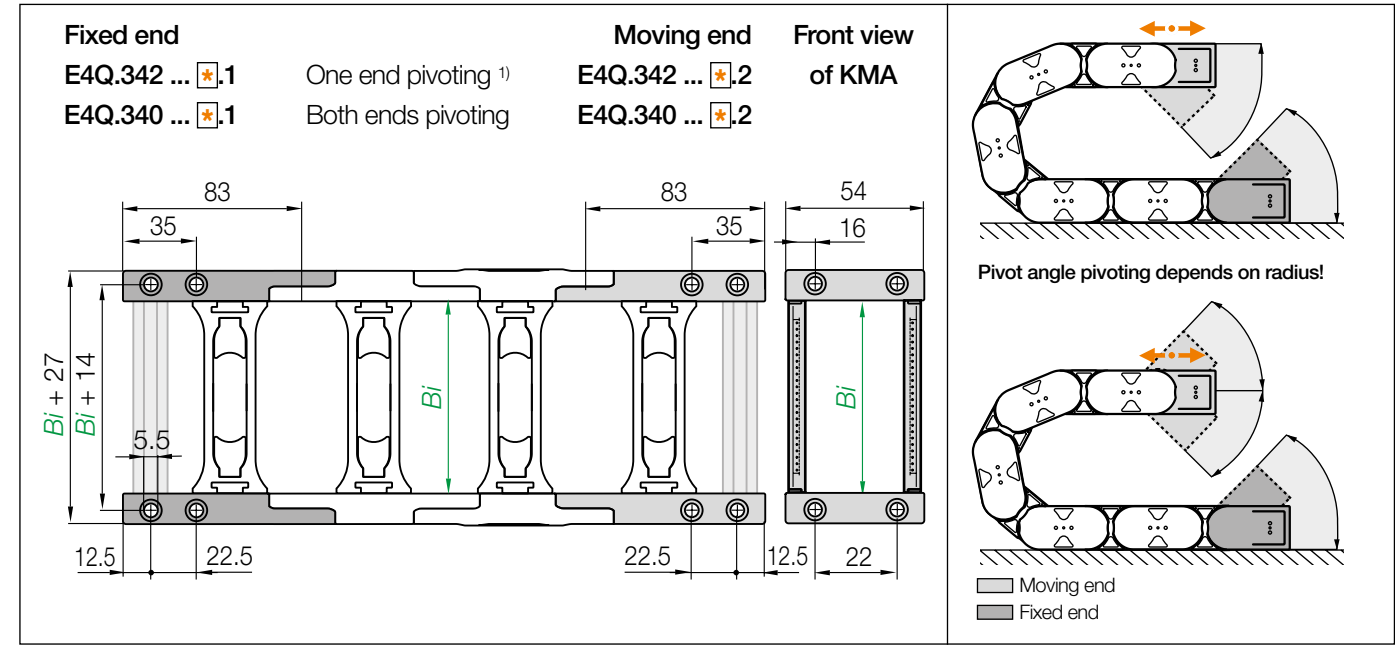


Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 7 and 10m we recommend an e-chain® with a longer unsupported length.

R	063 ²⁾	075 ²⁾	100 ²⁾	125 ²⁾	150 ²⁾	175 ²⁾	200 ²⁾	220 ²⁾	250 ²⁾	300 ²⁾
H ₂	126	150	166	166	166	166	166	166	166	166
D ₂ + ²⁵	146	158	370	470	500	655	770	900	930	1,100
K ₂	310	350	616	784	896	1,120	1,288	1,456	1,568	1,904
ΔCL	–	–	160	210	240	370	460	540	570	690

2) Radius available from spring 2021.

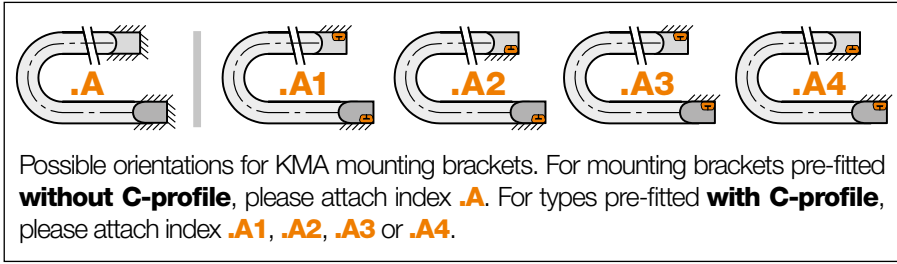
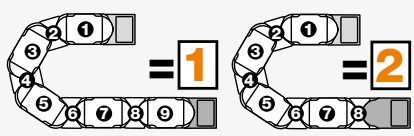


One end pivoting ¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Part No. KMA full set			
Width index	One end pivoting ¹⁾	Both ends pivoting	Bi [mm]
075. ▶	E4Q.342.075 .12.C ²⁾	E4Q.340.075 .12.C ²⁾	75
087. ▶	E4Q.342.087 .12.C ²⁾	E4Q.340.087 .12.C ²⁾	87
100. ▶	E4Q.342.100 .12.C ²⁾	E4Q.340.100 .12.C ²⁾	100
108. ▶	E4Q.342.108 .12.C ²⁾	E4Q.340.108 .12.C ²⁾	108
112. ▶	E4Q.342.112 .12.C ^{**}	E4Q.340.112 .12.C ^{**}	112
125. ▶	E4Q.342.125 .12.C ²⁾	E4Q.340.125 .12.C ²⁾	125
137. ▶	E4Q.342.137 .12.C ^{**}	E4Q.340.137 .12.C ^{**}	137
150. ▶	E4Q.342.150 .12.C ²⁾	E4Q.340.150 .12.C ²⁾	150
162. ▶	E4Q.342.162 .12.C ^{**}	E4Q.340.162 .12.C ^{**}	162
168. ▶	E4Q.342.168 .12.C ²⁾	E4Q.340.168 .12.C ²⁾	168
175. ▶	E4Q.342.175 .12.C ²⁾	E4Q.340.175 .12.C ²⁾	175
187. ▶	E4Q.342.187 .12.C ^{**}	E4Q.340.187 .12.C ^{**}	187
200. ▶	E4Q.342.200 .12.C ²⁾	E4Q.340.200 .12.C ²⁾	200
212. ▶	E4Q.342.212 .12.C ^{**}	E4Q.340.212 .12.C ^{**}	212
225. ▶	E4Q.342.225 .12.C ^{**}	E4Q.340.225 .12.C ^{**}	225

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index **.C**.
2) Width available from spring 2021. ^{**}Width available upon request. Please consult igus® for delivery time. (KMA = polymer metal mounting bracket)

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.



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**.

E4Q.342.150 .12.C .A2

Order example
.A... to indicate option with brackets pre-fitted
C-profile option
Full set, one end pivoting
Even numbers of links
Width index
Series



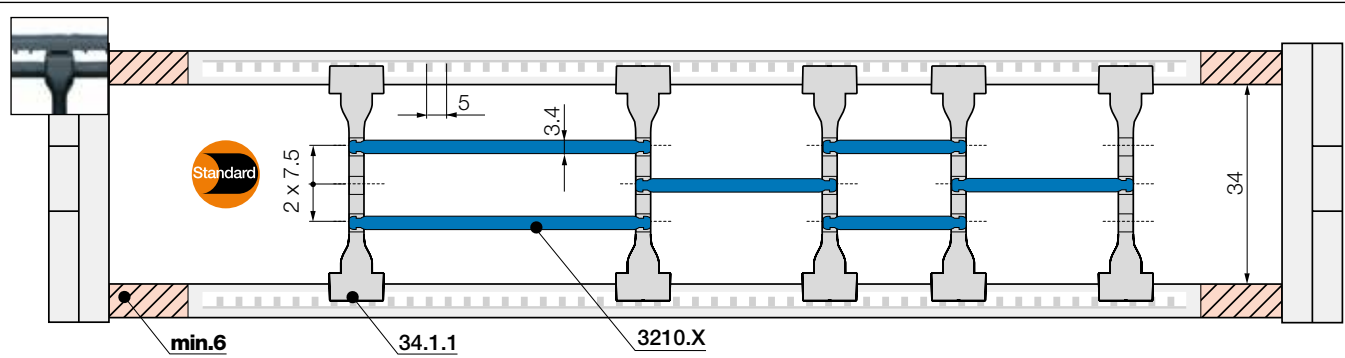
Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

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**



The new E4Q combines innovative design with a new level of strength and robustness

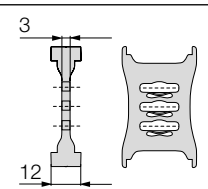


Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!



Standard separator, wide base

unassembled	34.1
assembled	34.1.1



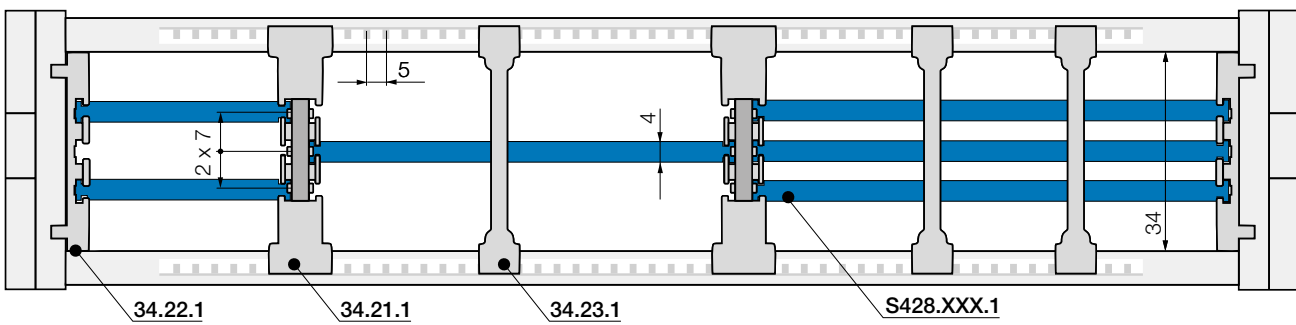
Shelf, lockable

unassembled	3200.X
assembled	3210.X

Standard - for any application
Separator with a wide base for maximum holding force.

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
	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			

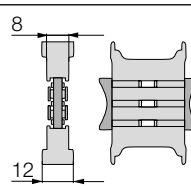


No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



Universal middle plate

unassembled	34.21
assembled	34.21.1



Universal side plate

unassembled	34.22
assembled	34.22.1

Universal middle plates
The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.

Universal side plates
Allow modular shelving right up to the side links. Shelves can be inserted from both sides.

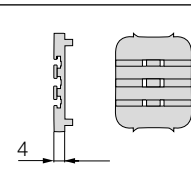
Separators for universal interior separation
For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.

Shelves for universal interior separation
Shelves of various widths can be arranged in steps of 7mm.



Universal side plate

unassembled	34.22
assembled	34.22.1



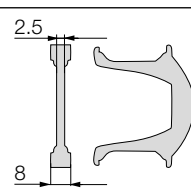
Separator

unassembled	34.23
assembled	34.23.1



Separator

unassembled	34.23
assembled	34.23.1



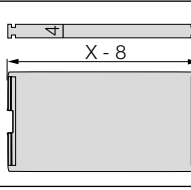
Shelf

unassembled	S428.XXX
assembled	S428.XXX.1



Shelf

unassembled	S428.XXX
assembled	S428.XXX.1



Shelf

unassembled	S428.XXX
assembled	S428.XXX.1

Shelves Width = XXX [mm]	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled
	018*	S428.018	S428.018.1	050 ¹⁾	S428.050	S428.050.1	108*	S428.108	S428.108.1
	023*	S428.023	S428.023.1	054*	S428.054	S428.054.1	125*	S428.125	S428.125.1
	025*	S428.025	S428.025.1	062 ¹⁾	S428.062	S428.062.1	150*	S428.150	S428.150.1
	028*	S428.028	S428.028.1	075 ¹⁾	S428.075	S428.075.1	175*	S428.175	S428.175.1
	033*	S428.033	S428.033.1	087*	S428.087	S428.087.1	200*	S428.200	S428.200.1
	043*	S428.043	S428.043.1	100 ¹⁾	S428.100	S428.100.1	208*	S428.208	S428.208.1

*Width available upon request. Please consult igus® for delivery time. 1) Width available from spring 2021.



Series E4Q.44 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.44 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.44 [kg/m]	H4Q.44 [kg/m]
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 075.R.0	75	101	≈ 1.61	1.43
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 087.R.0	87	114	≈ 1.65	≈ 1.45
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 100.R.0	100	126	≈ 1.70	≈ 1.47
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 108.R.0	108	134	≈ 1.73	≈ 1.49
E4Q.44.* H4Q.44.* 112.R.0	112	139	≈ 1.74	≈ 1.49
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 125.R.0	125	151	≈ 1.79	≈ 1.52
E4Q.44.* H4Q.44.* 137.R.0	137	164	≈ 1.83	≈ 1.54
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 150.R.0	150	176	≈ 1.96	≈ 1.60
E4Q.44.* H4Q.44.* 162.R.0	162	189	≈ 2.00	≈ 1.63
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 168.R.0	168	194	≈ 2.03	≈ 1.64
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 175.R.0	175	201	≈ 2.06	≈ 1.65
E4Q.44.* H4Q.44.* 187.R.0	187	214	≈ 2.10	≈ 1.67
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 200.R.0	200	226	≈ 2.15	≈ 1.70
E4Q.44.* H4Q.44.* 212.R.0	212	239	≈ 2.19	≈ 1.72
E4Q.44.* H4Q.44.* 225.R.0	225	251	≈ 2.24	≈ 1.74

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.44 [kg/m]	H4Q.44 [kg/m]
E4Q.44.* H4Q.44.* 237.R.0	237	264	≈ 2.28	≈ 1.76
E4Q.44. ¹⁾ H4Q.44. ¹⁾ 250.R.0	250	276	≈ 2.32	≈ 1.78
E4Q.44.* H4Q.44.* 262.R.0	262	289	≈ 2.36	≈ 1.81
E4Q.44.* H4Q.44.* 275.R.0	275	301	≈ 2.41	≈ 1.83
E4Q.44.* H4Q.44.* 287.R.0	287	314	≈ 2.46	≈ 1.85
E4Q.44.* H4Q.44.* 300.R.0	300	326	≈ 2.51	≈ 1.88
E4Q.44.* H4Q.44.* 312.R.0	312	339	≈ 2.55	≈ 1.90
E4Q.44.* H4Q.44.* 325.R.0	325	351	≈ 2.60	≈ 1.92
E4Q.44.* H4Q.44.* 337.R.0	337	364	≈ 2.64	≈ 1.94
E4Q.44.* H4Q.44.* 350.R.0	350	376	≈ 2.69	≈ 1.97
E4Q.44.* H4Q.44.* 362.R.0	362	389	≈ 2.73	≈ 1.99
E4Q.44.* H4Q.44.* 375.R.0	375	401	≈ 2.78	≈ 2.01
E4Q.44.* H4Q.44.* 387.R.0	387	414	≈ 2.82	≈ 2.03
E4Q.44.* H4Q.44.* 400.R.0	400	426	≈ 2.90	≈ 2.08

*Width available upon request. Available upon request. 1) Width available from spring 2021. 2) Radius available from spring 2021.

Available bend radii

R [mm] | 075²⁾ | 100²⁾ | 115²⁾ | 125²⁾ | 150²⁾ | 160²⁾ | 175²⁾ | 200²⁾ | 250²⁾ | 300²⁾ | 350²⁾ |

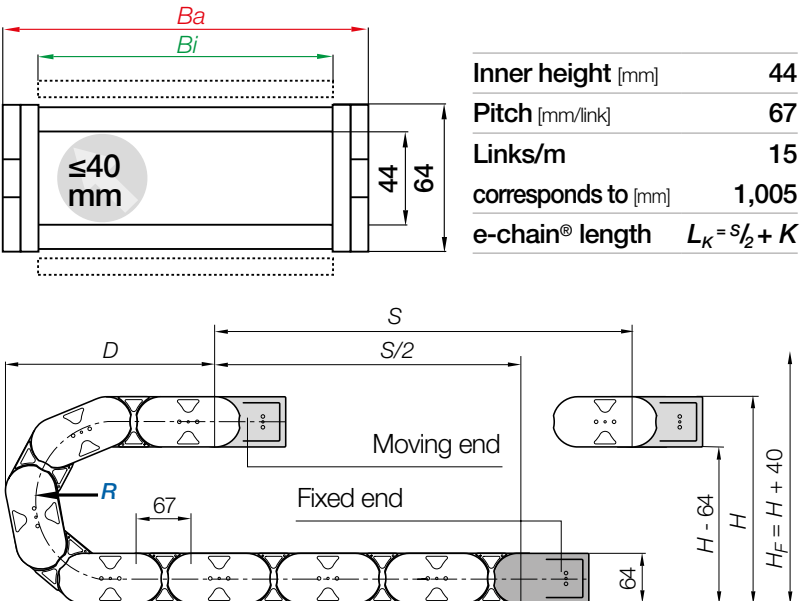
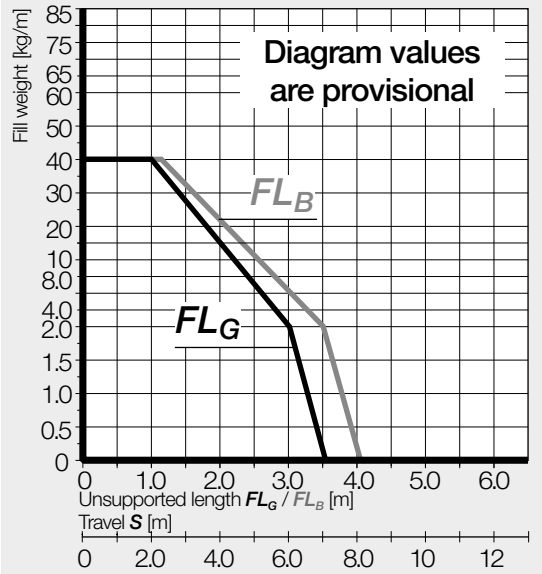
Complete Part No. with required radius (R). Example:

E4Q.44.150.150.0 = crossbars every link / E4Q.44.150.150.0 = crossbars every 2nd link

► 1392

► 1320

E4Q.44
H4Q.44

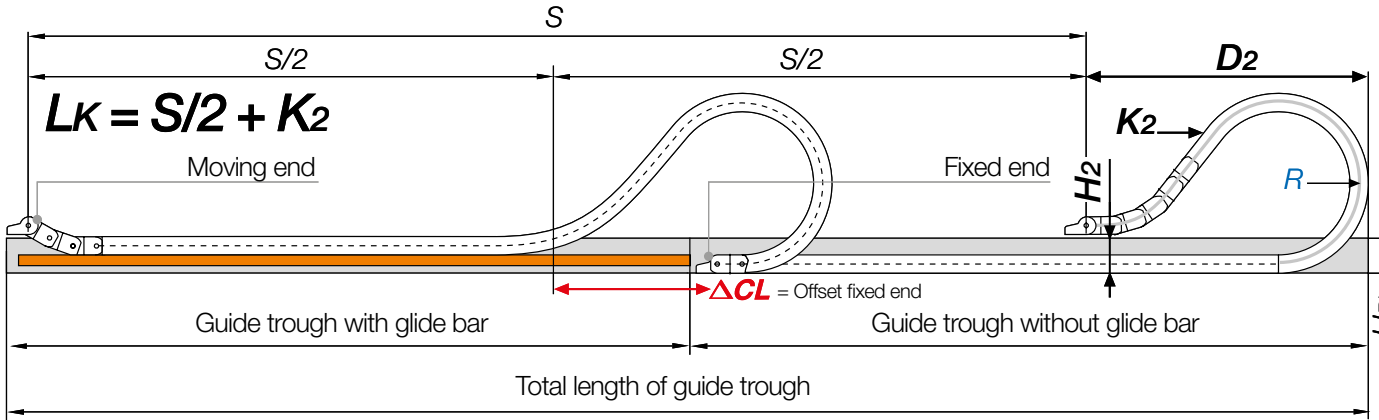


R	075 ²⁾	100 ²⁾	115 ²⁾	125 ²⁾	150 ²⁾	160 ²⁾	175 ²⁾	200 ²⁾	250 ²⁾	300 ²⁾	350 ²⁾
H ₂₅ ⁻⁰	214	264	294	314	364	384	414	464	564	664	764
D	208	233	248	258	283	293	308	333	383	433	483
K	370	450	500	530	610	640	685	765	920	1,080	1,235

The required clearance height: $H_F = H + 40\text{mm}$ (with 3.0kg/m fill weight)

2) Radius available from spring 2021.

Gliding applications | For travel lengths from 12m to max. 300m

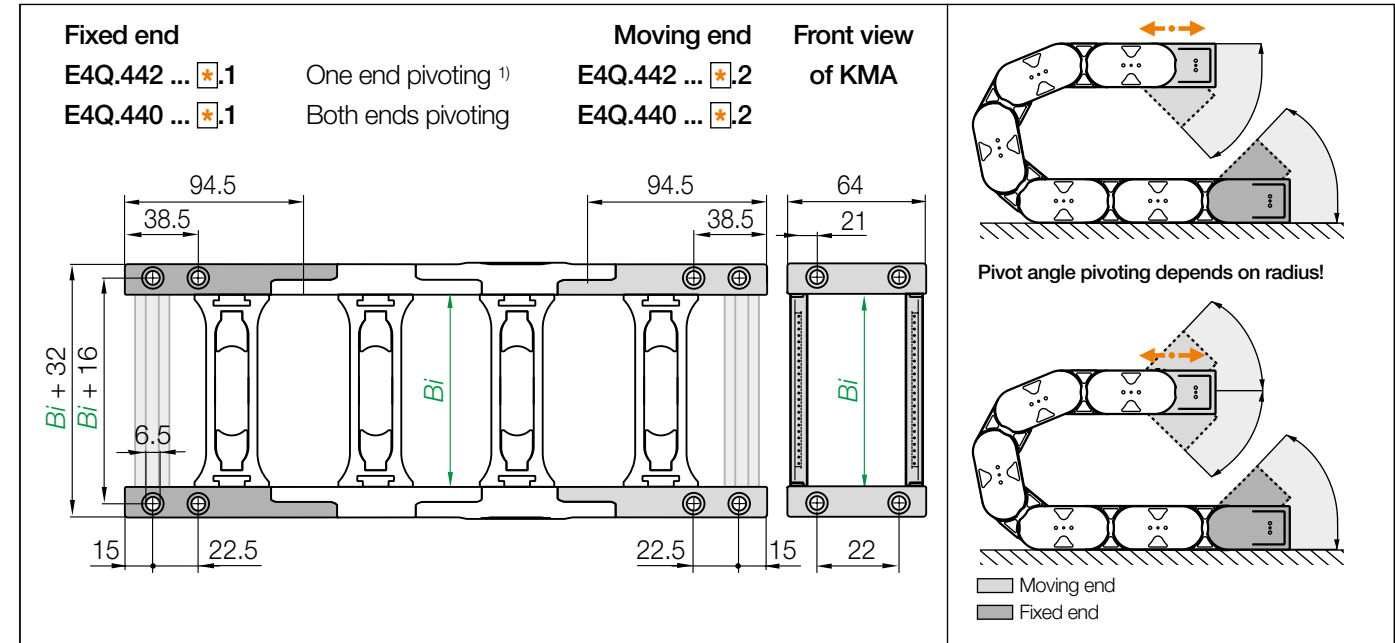


Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 8 and 12m we recommend an e-chain® with a longer unsupported length.

R	075 ²⁾	100 ²⁾	115 ²⁾	125 ²⁾	150 ²⁾	160 ²⁾	175 ²⁾	200 ²⁾	250 ²⁾	300 ²⁾	350 ²⁾
H ₂	150	186	186	186	186	186	186	186	186	186	186
D ₂₅ ⁺²⁵	174	390	435	475	570	620	675	780	1,030	1,150	1,500
K ₂	370	603	737	804	938	1,072	1,139	1,340	1,675	1,943	2,412
ΔCL	–	170	200	230	300	340	380	460	660	730	1,030

2) Radius available from spring 2021.



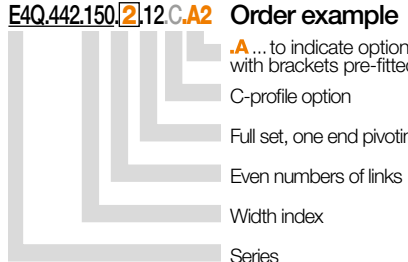
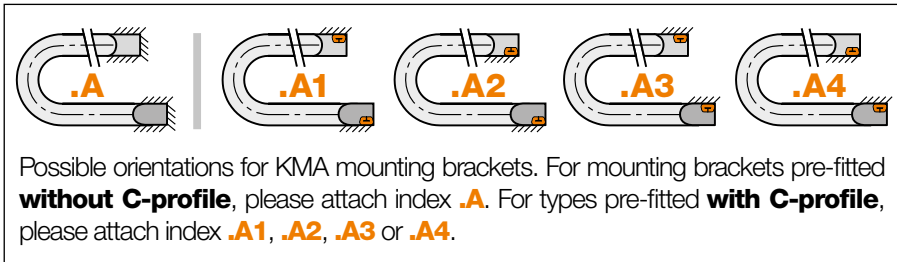
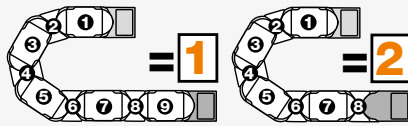
One end pivoting ¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Part No. KMA full set			
Width index	One end pivoting ¹⁾	Both ends pivoting	B_i [mm]
075. ▶	E4Q.442.075 .12.C ²⁾	E4Q.440.075 .12.C ²⁾	75
087. ▶	E4Q.442.087 .12.C ²⁾	E4Q.440.087 .12.C ²⁾	87
100. ▶	E4Q.442.100 .12.C ²⁾	E4Q.440.100 .12.C ²⁾	100
108. ▶	E4Q.442.108 .12.C ²⁾	E4Q.440.108 .12.C ²⁾	108
112. ▶	E4Q.442.112 .12.C ^{**}	E4Q.440.112 .12.C ^{**}	112
125. ▶	E4Q.442.125 .12.C ²⁾	E4Q.440.125 .12.C ²⁾	125
137. ▶	E4Q.442.137 .12.C ^{**}	E4Q.440.137 .12.C ^{**}	137
150. ▶	E4Q.442.150 .12.C ²⁾	E4Q.440.150 .12.C ²⁾	150
162. ▶	E4Q.442.162 .12.C ^{**}	E4Q.440.162 .12.C ^{**}	162
168. ▶	E4Q.442.168 .12.C ²⁾	E4Q.440.168 .12.C ²⁾	168
175. ▶	E4Q.442.175 .12.C ²⁾	E4Q.440.175 .12.C ²⁾	175
187. ▶	E4Q.442.187 .12.C ^{**}	E4Q.440.187 .12.C ^{**}	187
200. ▶	E4Q.442.200 .12.C ²⁾	E4Q.440.200 .12.C ²⁾	200
212. ▶	E4Q.442.212 .12.C ^{**}	E4Q.440.212 .12.C ^{**}	212
225. ▶	E4Q.442.225 .12.C ^{**}	E4Q.440.225 .12.C ^{**}	225

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index **.C**.

2) Width available from spring 2021. ^{**}Width available upon request. Please consult igus® for delivery time. (KMA = polymer metal mounting bracket)

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.

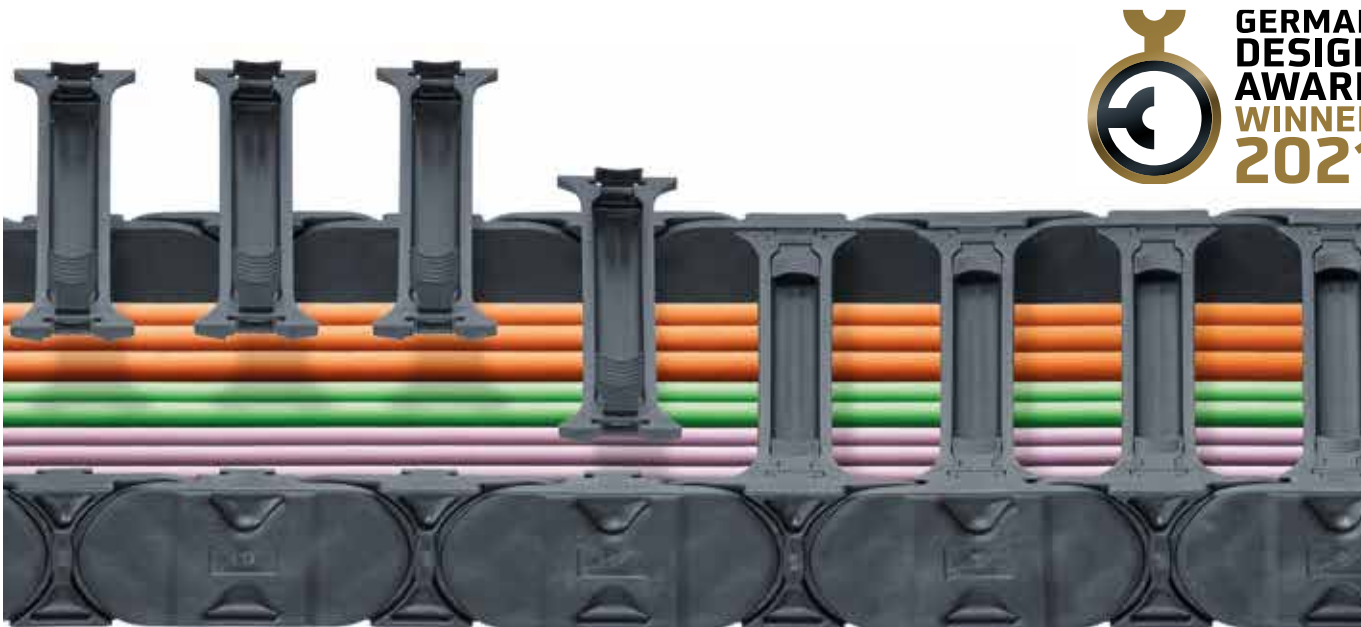


Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

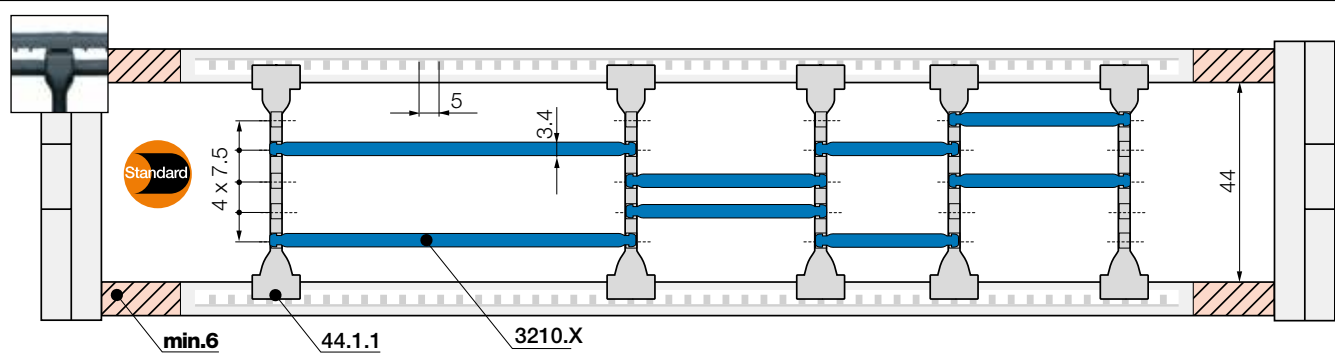
Steel support tray for support of the lower run

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

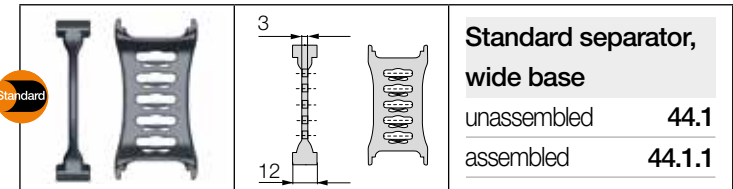
More information ▶ From page 1356



The new E4Q combines ease of installation with a new level of strength and stability

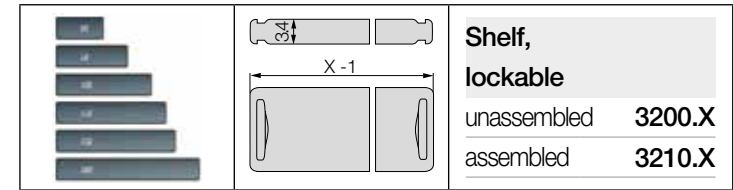


Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!



**Standard separator,
wide base**
unassembled **44.1**
assembled **44.1.1**

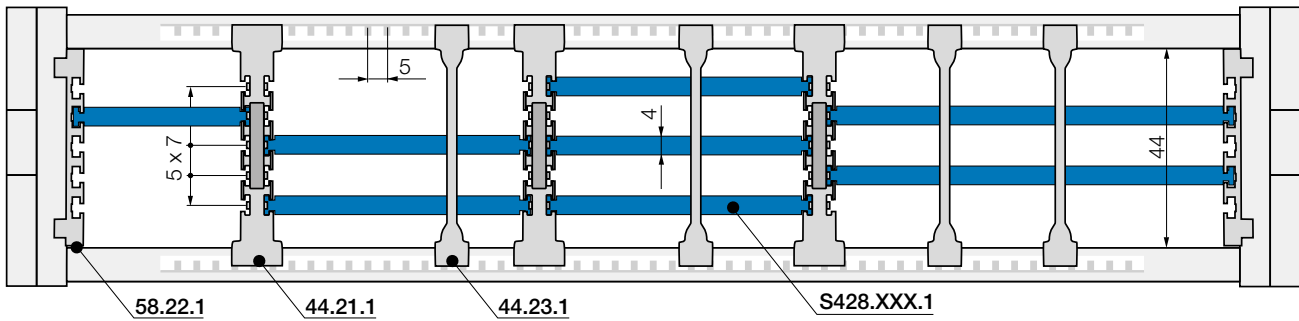
Standard - for any application
Separator with a wide base for maximum holding force.



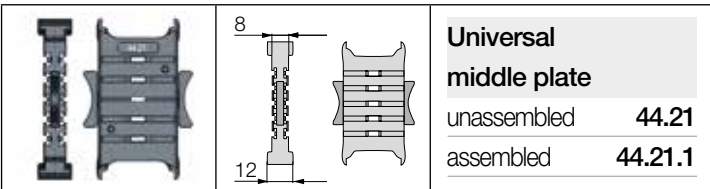
**Shelf,
lockable**
unassembled **3200.X**
assembled **3210.X**

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
	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			

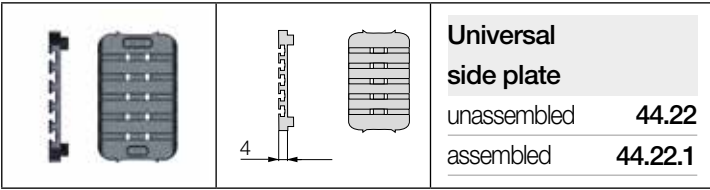


No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



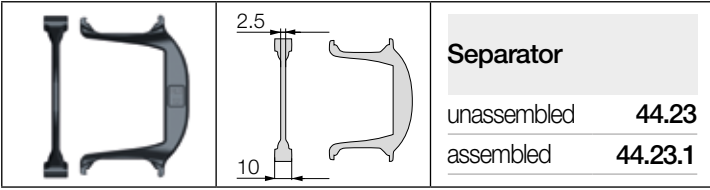
**Universal
middle plate**
unassembled **44.21**
assembled **44.21.1**

Universal middle plates
The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.



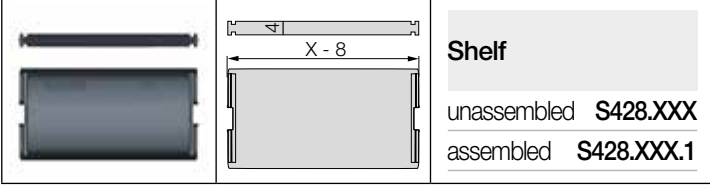
**Universal
side plate**
unassembled **44.22**
assembled **44.22.1**

Universal side plates
Allow modular shelving right up to the side links. Shelves can be inserted from both sides.



Separator
unassembled **44.23**
assembled **44.23.1**

Separators for universal interior separation
For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Shelf
unassembled **S428.XXX**
assembled **S428.XXX.1**

Shelves for universal interior separation
Shelves of various widths can be arranged in steps of 7mm.

Shelves Width = XXX [mm]	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled
	018*	S428.018	S428.018.1	050 ¹⁾	S428.050	S428.050.1	108*	S428.108	S428.108.1
	023*	S428.023	S428.023.1	054*	S428.054	S428.054.1	125*	S428.125	S428.125.1
	025*	S428.025	S428.025.1	062 ¹⁾	S428.062	S428.062.1	150*	S428.150	S428.150.1
	028*	S428.028	S428.028.1	075 ¹⁾	S428.075	S428.075.1	175*	S428.175	S428.175.1
	033*	S428.033	S428.033.1	087*	S428.087	S428.087.1	200*	S428.200	S428.200.1
	043*	S428.043	S428.043.1	100 ¹⁾	S428.100	S428.100.1	208*	S428.208	S428.208.1

*Width available upon request. Please consult igus® for delivery time. 1) Width available from spring 2021.



Series E4Q.58 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.58 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.58 [kg/m]	H4Q.58 [kg/m]
E4Q.58. H4Q.58. 100.R.0	100	134	≈ 3.66	≈ 3.31
E4Q.58. H4Q.58. 112.R.0	112	147	≈ 3.72	≈ 3.34
E4Q.58. H4Q.58. 125.R.0	125	159	≈ 3.75	≈ 3.36
E4Q.58.* H4Q.58.* 137.R.0	137	172	≈ 3.80	≈ 3.39
E4Q.58. H4Q.58. 150.R.0	150	184	≈ 3.89	≈ 3.43
E4Q.58. H4Q.58. 162.R.0	162	197	≈ 3.95	≈ 3.46
E4Q.58. H4Q.58. 175.R.0	175	209	≈ 3.98	≈ 3.48
E4Q.58.* H4Q.58.* 187.R.0	187	222	≈ 4.02	≈ 3.50
E4Q.58. H4Q.58. 200.R.0	200	234	≈ 4.14	≈ 3.55
E4Q.58. H4Q.58. 212.R.0	212	247	≈ 4.19	≈ 3.58
E4Q.58.* H4Q.58.* 225.R.0	225	259	≈ 4.21	≈ 3.59
E4Q.58. H4Q.58. 237.R.0	237	272	≈ 4.24	≈ 3.61
E4Q.58. H4Q.58. 250.R.0	250	284	≈ 4.30	≈ 3.63
E4Q.58. H4Q.58. 262.R.0	262	297	≈ 4.33	≈ 3.65
E4Q.58. H4Q.58. 275.R.0	275	309	≈ 4.41	≈ 3.69
E4Q.58.* H4Q.58.* 287.R.0	287	322	≈ 4.44	≈ 3.71
E4Q.58. H4Q.58. 300.R.0	300	334	≈ 4.52	≈ 3.74
E4Q.58.* H4Q.58.* 312.R.0	312	347	≈ 4.57	≈ 3.77
E4Q.58.* H4Q.58.* 325.R.0	325	359	≈ 4.63	≈ 3.80
E4Q.58. H4Q.58. 337.R.0	337	372	≈ 4.68	≈ 3.82
E4Q.58.* H4Q.58.* 350.R.0	350	384	≈ 4.73	≈ 3.85

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.58 [kg/m]	H4Q.58 [kg/m]
E4Q.58. H4Q.58. 362.R.0	362	397	≈ 4.79	≈ 3.88
E4Q.58.* H4Q.58.* 375.R.0	375	409	≈ 4.84	≈ 3.90
E4Q.58.* H4Q.58.* 387.R.0	387	422	≈ 4.90	≈ 3.93
E4Q.58.* H4Q.58.* 400.R.0	400	434	≈ 4.95	≈ 3.96
E4Q.58.* H4Q.58.* 412.R.0	412	447	≈ 5.01	≈ 3.99
E4Q.58.* H4Q.58.* 425.R.0	425	459	≈ 5.07	≈ 4.02
E4Q.58.* H4Q.58.* 437.R.0	437	472	≈ 5.12	≈ 4.04
E4Q.58.* H4Q.58.* 450.R.0	450	484	≈ 5.17	≈ 4.07
E4Q.58.* H4Q.58.* 462.R.0	462	497	≈ 5.22	≈ 4.10
E4Q.58.* H4Q.58.* 475.R.0	475	509	≈ 5.28	≈ 4.12
E4Q.58.* H4Q.58.* 487.R.0	487	522	≈ 5.34	≈ 4.15
E4Q.58.* H4Q.58.* 500.R.0	500	534	≈ 5.39	≈ 4.18
E4Q.58.* H4Q.58.* 512.R.0	512	547	≈ 5.44	≈ 4.21
E4Q.58.* H4Q.58.* 525.R.0	525	559	≈ 5.50	≈ 4.23
E4Q.58.* H4Q.58.* 537.R.0	537	572	≈ 5.55	≈ 4.26
E4Q.58.* H4Q.58.* 550.R.0	550	584	≈ 5.61	≈ 4.29
E4Q.58.* H4Q.58.* 562.R.0	562	597	≈ 5.65	≈ 4.31
E4Q.58.* H4Q.58.* 575.R.0	575	609	≈ 5.70	≈ 4.33
E4Q.58.* H4Q.58.* 587.R.0	587	622	≈ 5.74	≈ 4.35
E4Q.58.* H4Q.58.* 600.R.0	600	634	≈ 5.81	≈ 4.39

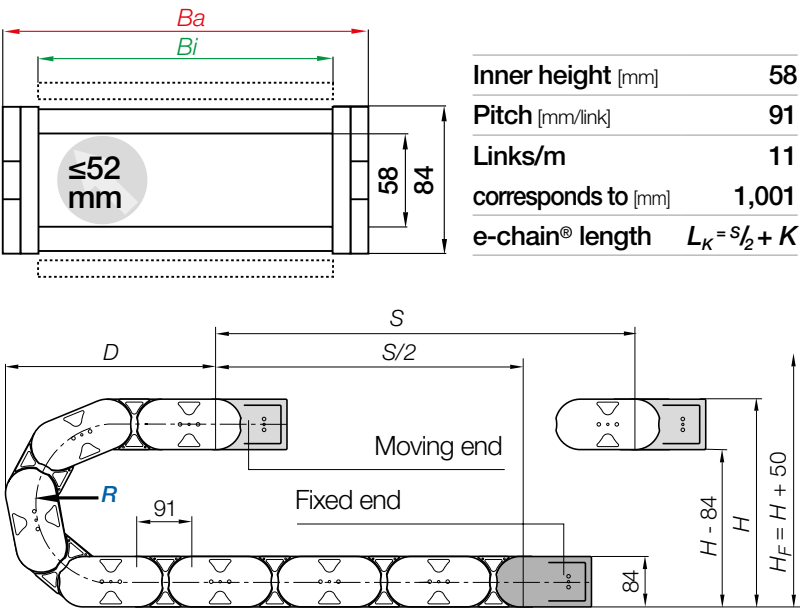
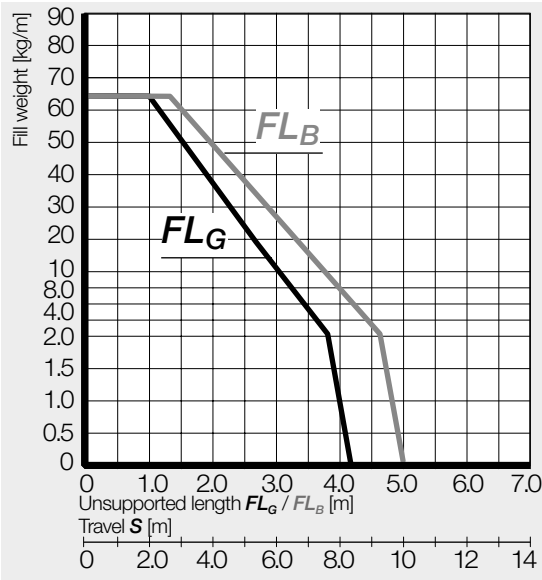
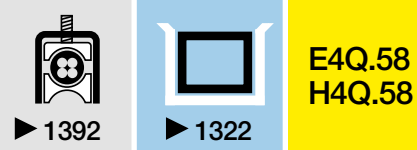
*Width available upon request. Please consult igus® for delivery time.

Available bend radii

R [mm] | 135 | 150 | 175 | 200 | 240 | 250 | 300 | 350 | 400 | 450 | 500 |

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

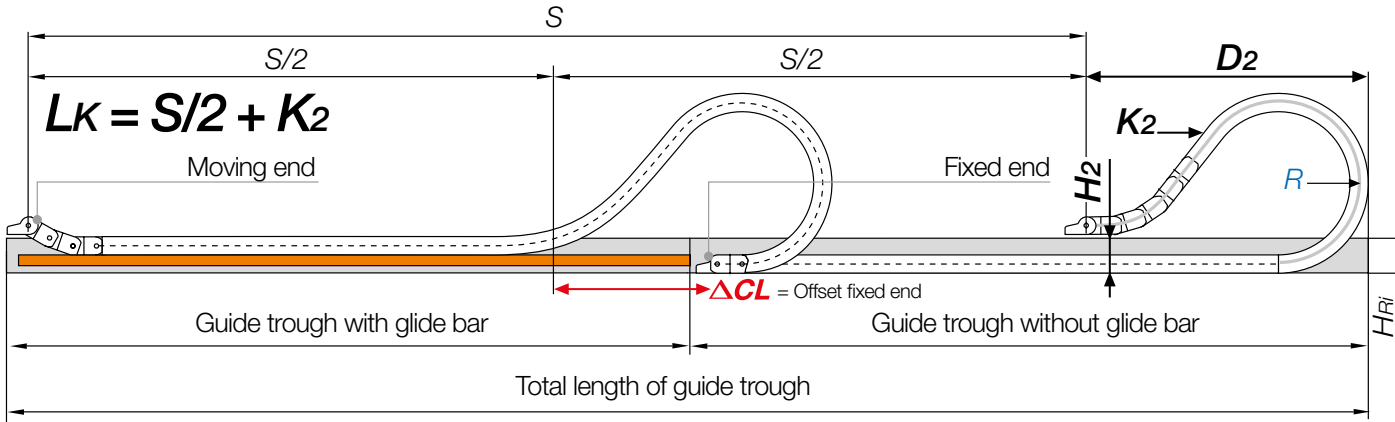
E4Q.58.100.135.0 = crossbars every link / E4Q.58.100.135.0 = crossbars every 2nd link



R	135	150	175	200	240	250	300	350	400	450	500
H ₂₅ ⁰	354	384	434	484	564	584	684	784	884	984	1084
D	314	329	354	379	419	429	479	529	579	629	679
K	610	655	735	815	940	970	1,125	1,285	1,440	1,600	1,755

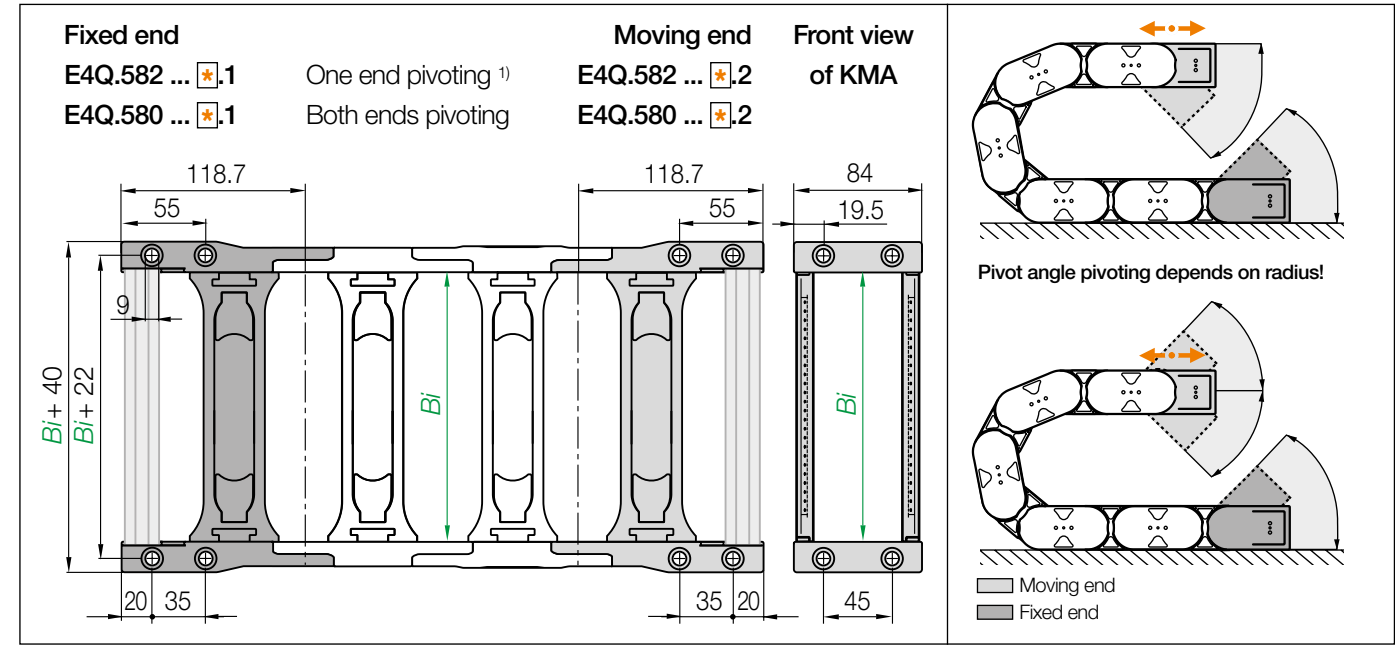
The required clearance height: $H_F = H + 50\text{mm}$ (with 3.0kg/m fill weight)

Gliding applications | For travel lengths from 12m to max. 400m



Note: We recommend the project planning of such a system to be carried out by igus®.
In case of travels between 10 and 12m we recommend an e-chain® with a longer unsupported length.

R	135	150	175	200	240	250	300	350	400	450	500
H ₂	270	266	266	266	266	266	266	266	266	266	266
D ₂₅ ⁺	268	450	580	710	900	980	1,180	1,440	1,530	1,700	1,850
K ₂	610	819	1,092	1,274	1,547	1,638	2,002	2,275	2,548	2,912	3,276
ΔCL	–	159	259	359	509	559	709	909	959	1,059	1,159



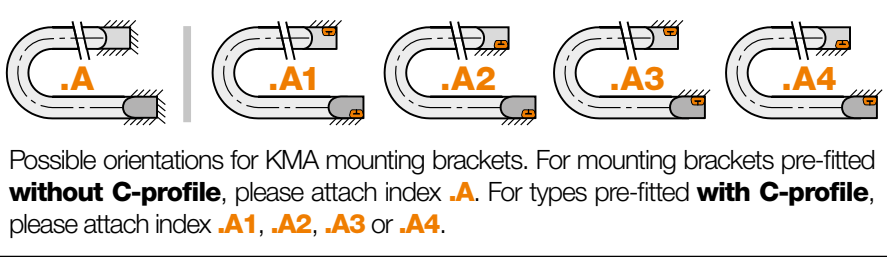
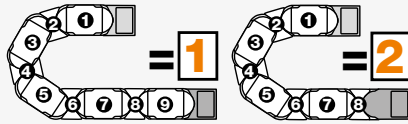
One end pivoting ¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Part No. KMA full set			
Width index	One end pivoting ¹⁾	Both ends pivoting	<i>Bi</i> [mm]
100. ▶	E4Q.582.100 .12.C	E4Q.580.100 .12.C	100
112. ▶	E4Q.582.112 .12.C	E4Q.580.112 .12.C	112
125. ▶	E4Q.582.125 .12.C	E4Q.580.125 .12.C	125
137. ▶	E4Q.582.137 .12.C**	E4Q.580.137 .12.C**	137
150. ▶	E4Q.582.150 .12.C	E4Q.580.150 .12.C	150
162. ▶	E4Q.582.162 .12.C	E4Q.580.162 .12.C	162
175. ▶	E4Q.582.175 .12.C	E4Q.580.175 .12.C	175
187. ▶	E4Q.582.187 .12.C**	E4Q.580.187 .12.C**	187
200. ▶	E4Q.582.200 .12.C	E4Q.580.200 .12.C	200
212. ▶	E4Q.582.212 .12.C	E4Q.580.212 .12.C	212
225. ▶	E4Q.582.225 .12.C**	E4Q.580.225 .12.C**	225
237. ▶	E4Q.582.237 .12.C	E4Q.580.237 .12.C	237
250. ▶	E4Q.582.250 .12.C	E4Q.580.250 .12.C	250
262. ▶	E4Q.582.262 .12.C	E4Q.580.262 .12.C	262
275. ▶	E4Q.582.275 .12.C	E4Q.580.275 .12.C	275
287. ▶	E4Q.582.287 .12.C**	E4Q.580.287 .12.C**	287
300. ▶	E4Q.582.300 .12.C	E4Q.580.300 .12.C	300
312. ▶	E4Q.582.312 .12.C**	E4Q.580.312 .12.C**	312
325. ▶	E4Q.582.325 .12.C**	E4Q.580.325 .12.C**	325
337. ▶	E4Q.582.337 .12.C	E4Q.580.337 .12.C	337
350. ▶	E4Q.582.350 .12.C**	E4Q.580.350 .12.C**	350

1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index **.C**.

**Width available upon request. Please consult igus® for delivery time. (KMA = polymer metal mounting bracket)

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.



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**.

E4Q.582.125 .12.C **.A2** Order example
.A... to indicate option with brackets pre-fitted
C-profile option
Full set, one end pivoting
Even numbers of links
Width index
Series

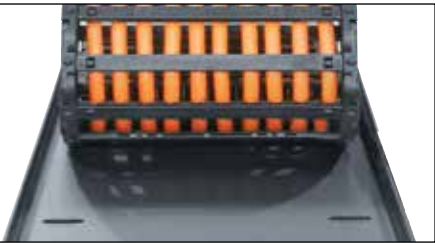


Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

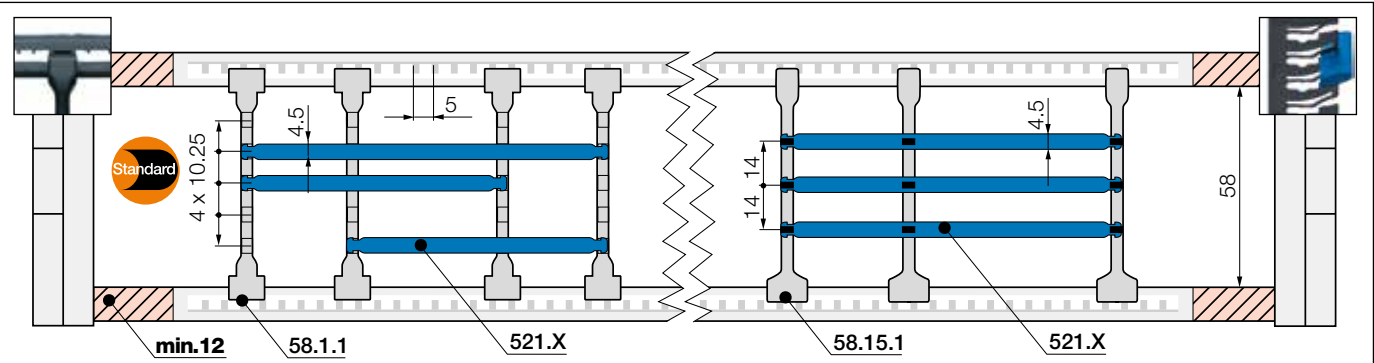
Steel support tray for support of the lower run

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

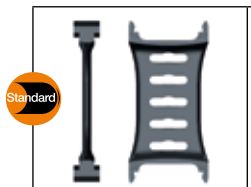
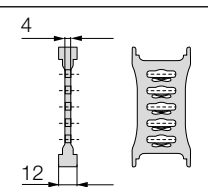
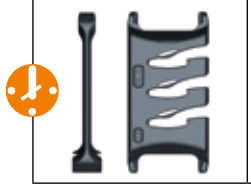
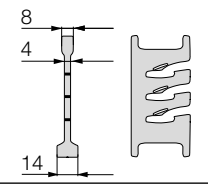
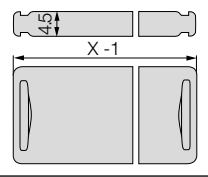
More information ▶ From page 1356



More strength with less weight. Tested at the igus® lab



Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: 12mm**
As standard separators are fitted every 2nd e-chain® link!

		Standard separator, wide base unassembled 58.1 assembled 58.1.1
		Lean notch separator¹⁾ unassembled 58.15 assembled 58.15.1
		Shelf, lockable unassembled 520.X assembled 521.X

Standard - for any application
Separator with a wide base for maximum holding force.

Lean notch separators¹⁾
For quick fitting of shelves in several layers. Snaps securely into the crossbar in 5mm steps to be positioned securely.
1) Note: Please combine maximum 4 lean separators with one shelf.
Not suitable for side-mounted e-chains®!

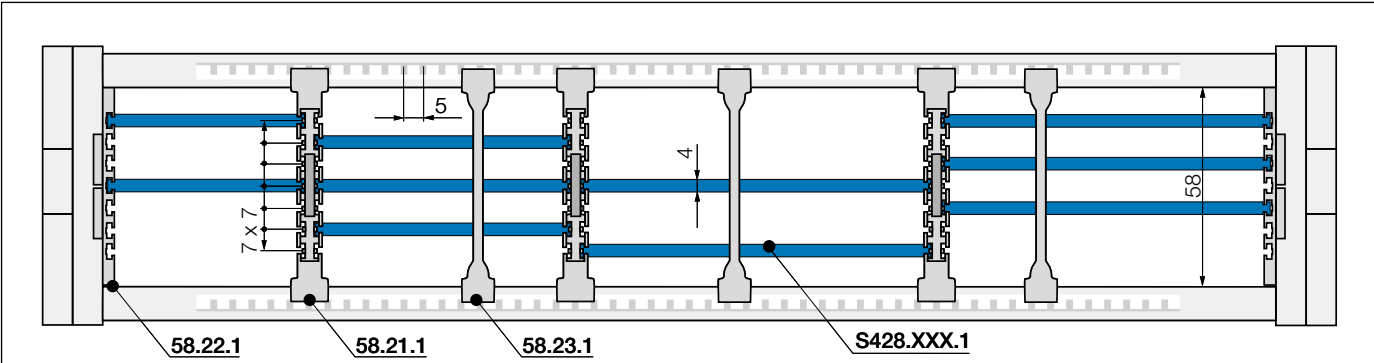
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
Width = X [mm]	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	520.375
	100	520.100	521.100	225	520.225	521.225	387	520.387	520.387
	125	520.125	521.125	250	520.250	521.250	450	520.450	521.450

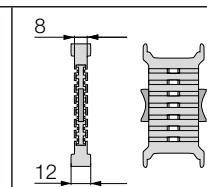
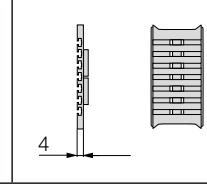
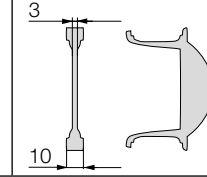
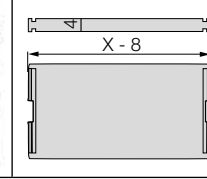
Lean notch separator design principle | For even faster filling

With the lean notch 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



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

		Universal middle plate unassembled 58.21 assembled 58.21.1
		Universal side plate unassembled 58.22 assembled 58.22.1
		Separator unassembled 58.23 assembled 58.23.1
		Shelf unassembled S428.XXX assembled S428.XXX.1

Universal middle plates
The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.

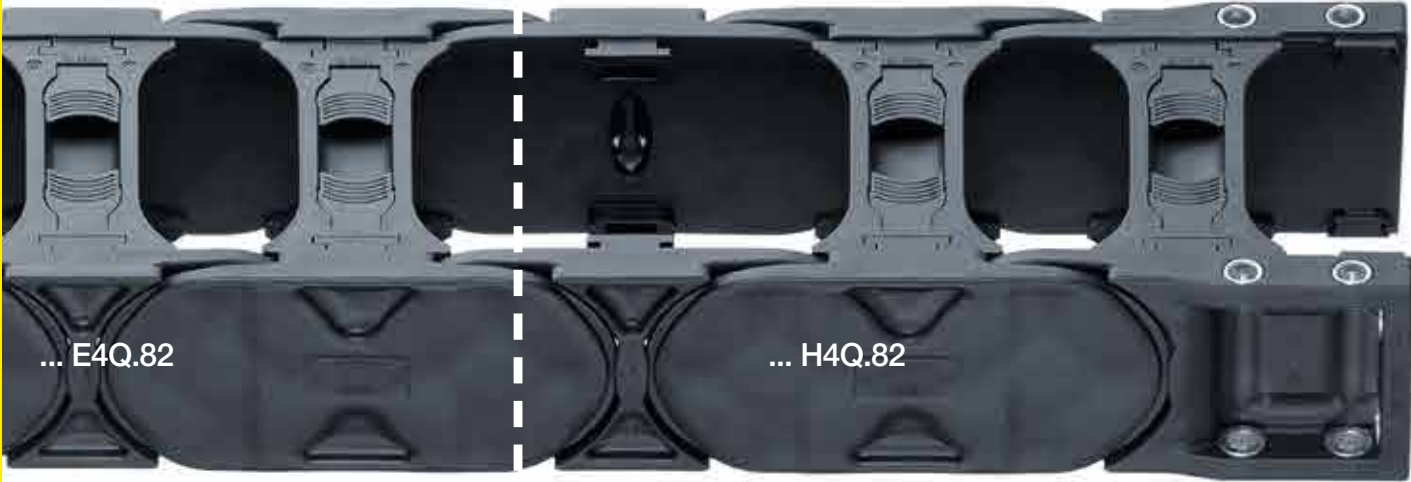
Universal side plates
Allow modular shelving right up to the side links. Shelves can be inserted from both sides.

Separators for universal interior separation
For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.

Shelves for universal interior separation
Shelves of various widths can be arranged in steps of 7mm.

Shelves	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled
Width = XXX [mm]	018*	S428.018	S428.018.1	050 ¹⁾	S428.050	S428.050.1	108*	S428.108	S428.108.1
	023*	S428.023	S428.023.1	054*	S428.054	S428.054.1	125*	S428.125	S428.125.1
	025*	S428.025	S428.025.1	062 ¹⁾	S428.062	S428.062.1	150*	S428.150	S428.150.1
	028*	S428.028	S428.028.1	075 ¹⁾	S428.075	S428.075.1	175*	S428.175	S428.175.1
	033*	S428.033	S428.033.1	087*	S428.087	S428.087.1	200*	S428.200	S428.200.1
	043*	S428.043	S428.043.1	100 ¹⁾	S428.100	S428.100.1	208*	S428.208	S428.208.1

*Width available upon request. Please consult igus® for delivery time. 1) Width available from spring 2021.



Series E4Q.82 | Crossbars every link (crossbars removable along the inner and outer radius)
Series H4Q.82 | Crossbars every 2nd link (crossbars removable along the inner and outer radius)

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.82 [kg/m]	H4Q.82 [kg/m]
E4Q.82. H4Q.82. 100.R.0	100	150	≈ 6.05	≈ 5.77
E4Q.82. H4Q.82. 112.R.0	112	163	≈ 6.10	≈ 5.79
E4Q.82. H4Q.82. 125.R.0	125	175	≈ 6.12	≈ 5.81
E4Q.82.* H4Q.82.* 137.R.0	137	188	≈ 6.17	≈ 5.83
E4Q.82. H4Q.82. 150.R.0	150	200	≈ 6.24	≈ 5.87
E4Q.82. H4Q.82. 162.R.0	162	213	≈ 6.29	≈ 5.89
E4Q.82. H4Q.82. 175.R.0	175	225	≈ 6.32	≈ 5.90
E4Q.82.* H4Q.82.* 187.R.0	187	238	≈ 6.35	≈ 5.92
E4Q.82. H4Q.82. 200.R.0	200	250	≈ 6.44	≈ 5.97
E4Q.82. H4Q.82. 212.R.0	212	263	≈ 6.49	≈ 5.99
E4Q.82.* H4Q.82.* 225.R.0	225	275	≈ 6.50	≈ 6.00
E4Q.82. H4Q.82. 237.R.0	237	288	≈ 6.53	≈ 6.01
E4Q.82. H4Q.82. 250.R.0	250	300	≈ 6.57	≈ 6.03
E4Q.82. H4Q.82. 262.R.0	262	313	≈ 6.62	≈ 6.05
E4Q.82. H4Q.82. 275.R.0	275	325	≈ 6.66	≈ 6.08
E4Q.82.* H4Q.82.* 287.R.0	287	338	≈ 6.71	≈ 6.10
E4Q.82. H4Q.82. 300.R.0	300	350	≈ 6.75	≈ 6.12
E4Q.82.* H4Q.82.* 312.R.0	312	363	≈ 6.80	≈ 6.14
E4Q.82.* H4Q.82.* 325.R.0	325	375	≈ 6.84	≈ 6.17
E4Q.82. H4Q.82. 337.R.0	337	388	≈ 6.89	≈ 6.19
E4Q.82.* H4Q.82.* 350.R.0	350	400	≈ 6.93	≈ 6.21

Part No. e-chains®	Bi [mm]	Ba [mm]	E4Q.82 [kg/m]	H4Q.82 [kg/m]
E4Q.82. H4Q.82. 362.R.0	362	413	≈ 6.97	≈ 6.23
E4Q.82.* H4Q.82.* 375.R.0	375	425	≈ 7.02	≈ 6.25
E4Q.82.* H4Q.82.* 387.R.0	387	438	≈ 7.07	≈ 6.28
E4Q.82.* H4Q.82.* 400.R.0	400	450	≈ 7.11	≈ 6.30
E4Q.82.* H4Q.82.* 412.R.0	412	463	≈ 7.15	≈ 6.32
E4Q.82.* H4Q.82.* 425.R.0	425	475	≈ 7.20	≈ 6.35
E4Q.82.* H4Q.82.* 437.R.0	437	488	≈ 7.24	≈ 6.37
E4Q.82.* H4Q.82.* 450.R.0	450	500	≈ 7.29	≈ 6.39
E4Q.82.* H4Q.82.* 462.R.0	462	513	≈ 7.33	≈ 6.41
E4Q.82.* H4Q.82.* 475.R.0	475	525	≈ 7.38	≈ 6.43
E4Q.82.* H4Q.82.* 487.R.0	487	538	≈ 7.42	≈ 6.46
E4Q.82.* H4Q.82.* 500.R.0	500	550	≈ 7.47	≈ 6.48
E4Q.82.* H4Q.82.* 512.R.0	512	563	≈ 7.51	≈ 6.50
E4Q.82.* H4Q.82.* 525.R.0	525	575	≈ 7.56	≈ 6.52
E4Q.82.* H4Q.82.* 537.R.0	537	588	≈ 7.60	≈ 6.54
E4Q.82.* H4Q.82.* 550.R.0	550	600	≈ 7.65	≈ 6.57
E4Q.82.* H4Q.82.* 562.R.0	562	613	≈ 7.68	≈ 6.59
E4Q.82.* H4Q.82.* 575.R.0	575	625	≈ 7.72	≈ 6.60
E4Q.82.* H4Q.82.* 587.R.0	587	638	≈ 7.68	≈ 6.59
E4Q.82.* H4Q.82.* 600.R.0	600	650	≈ 7.74	≈ 6.61

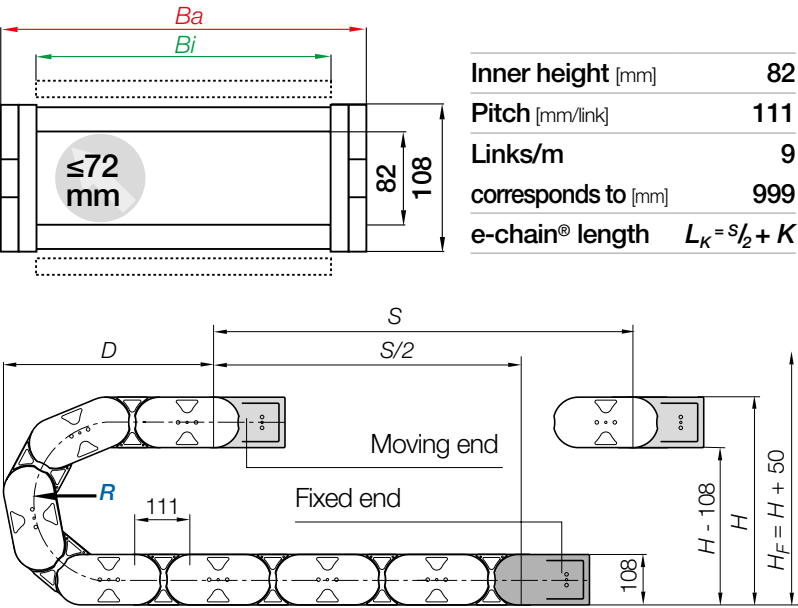
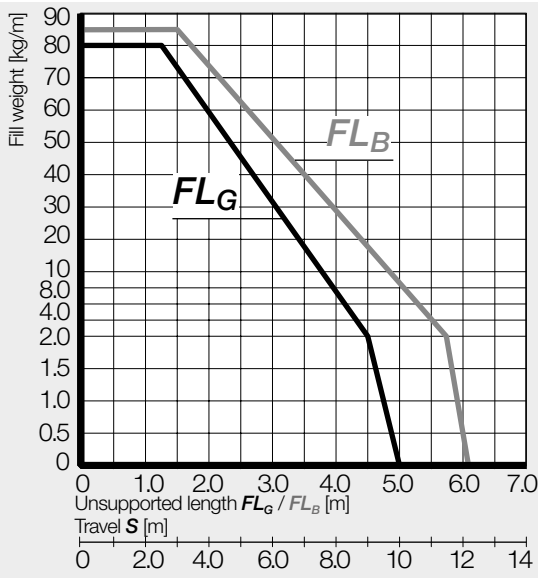
*Width available upon request. Please consult igus® for delivery time.

Available bend radii

R [mm] | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 1,000 |

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

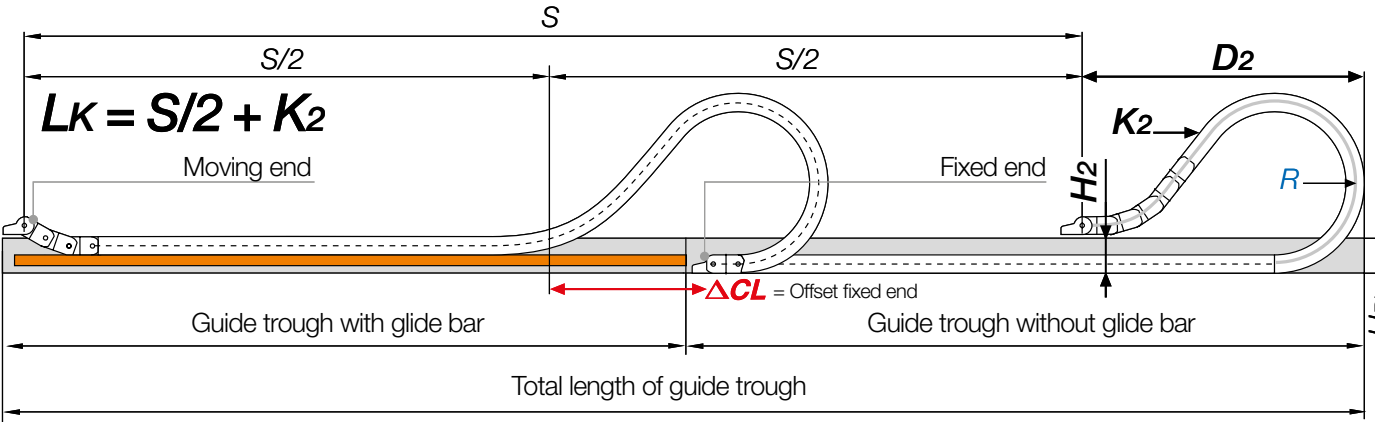
E4Q.82.125.150.0 = crossbars every link / E4Q.82.125.150.0 = crossbars every 2nd link



R	150	175	200	250	300	350	400	450	500	600	1,000
H	408	458	508	608	708	808	908	1,008	1108	1308	2,108
D	371	396	421	471	521	571	621	671	721	821	1,221
K	695	775	855	1,010	1,165	1,325	1,480	1,640	1,795	2,110	3,365

The required clearance height: $H_F = H + 50\text{mm}$ (with 3.0kg/m fill weight)

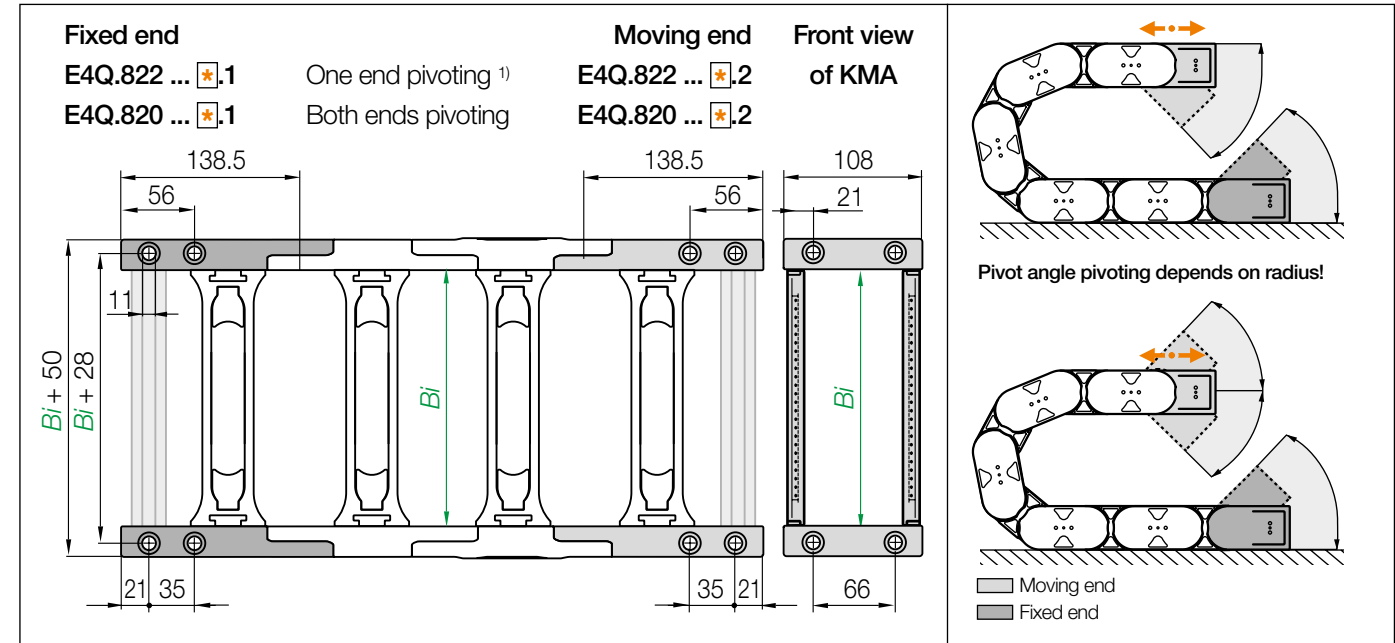
Gliding applications | For travel lengths from 12m to max. 400m



Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 10 and 12m we recommend an e-chain® with a longer unsupported length.

R	150	175	200	250	300	350	400	450	500	600	1,000
H ₂	242	242	242	242	242	242	242	242	242	242	–
D ₂	550	675	800	1,000	1,200	1,450	1,600	1850	2,100	2,500	–
K ₂	890	1,000	1,330	1,665	2,000	2,330	2,660	3000	3,440	4,100	–
ΔCL	189	289	389	539	689	889	989	1,189	1,389	1,689	–



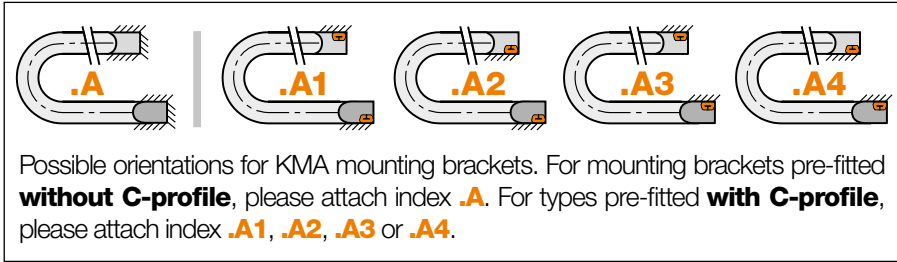
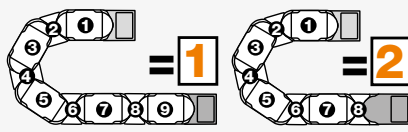
One end pivoting ¹⁾ | Recommended for unsupported, vertical hanging, standing applications
Both ends pivoting | Recommended for gliding applications

Part No. KMA full set			
Width index	One end pivoting ¹⁾	Both ends pivoting	Bi [mm]
100. ▶	E4Q.822.100. .12.C	E4Q.820.100. .12.C	100
112. ▶	E4Q.822.112. .12.C	E4Q.820.112. .12.C	112
125. ▶	E4Q.822.125. .12.C	E4Q.820.125. .12.C	125
137. ▶	E4Q.822.137. .12.C**	E4Q.820.137. .12.C**	137
150. ▶	E4Q.822.150. .12.C	E4Q.820.150. .12.C	150
162. ▶	E4Q.822.162. .12.C	E4Q.820.162. .12.C	162
175. ▶	E4Q.822.175. .12.C	E4Q.820.175. .12.C	175
187. ▶	E4Q.822.187. .12.C**	E4Q.820.187. .12.C**	187
200. ▶	E4Q.822.200. .12.C	E4Q.820.200. .12.C	200
212. ▶	E4Q.822.212. .12.C	E4Q.820.212. .12.C	212
225. ▶	E4Q.822.225. .12.C**	E4Q.820.225. .12.C**	225
237. ▶	E4Q.822.237. .12.C	E4Q.820.237. .12.C	237
250. ▶	E4Q.822.250. .12.C	E4Q.820.250. .12.C	250
262. ▶	E4Q.822.262. .12.C	E4Q.820.262. .12.C	262
275. ▶	E4Q.822.275. .12.C	E4Q.820.275. .12.C	275
287. ▶	E4Q.822.287. .12.C**	E4Q.820.287. .12.C**	287
300. ▶	E4Q.822.300. .12.C	E4Q.820.300. .12.C	300
312. ▶	E4Q.822.312. .12.C**	E4Q.820.312. .12.C**	312
325. ▶	E4Q.822.325. .12.C**	E4Q.820.325. .12.C**	325
337. ▶	E4Q.822.337. .12.C	E4Q.820.337. .12.C	337
350. ▶	E4Q.822.350. .12.C**	E4Q.820.350. .12.C**	350

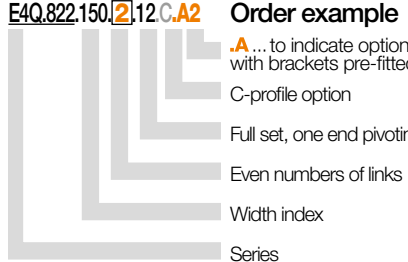
1) One end pivoting - standard for E4Q mounting brackets. For the C-profile option please add index **.C**.

**Width available upon request. Please consult igus® for delivery time. (KMA = polymer metal mounting bracket)

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.



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**.



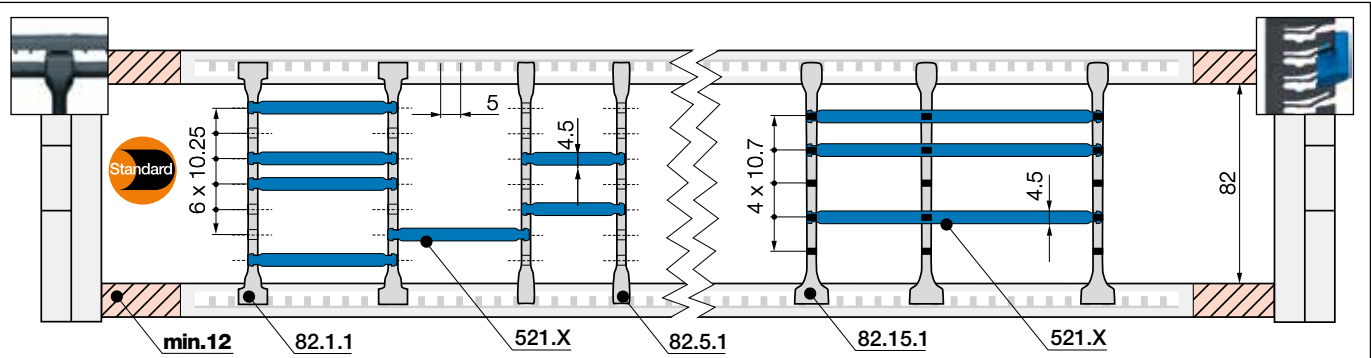
Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

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



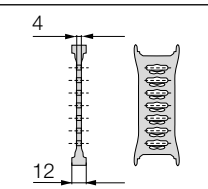


Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: 12mm**
As standard separators are fitted every 2nd e-chain® link!



Standard separator, wide base

unassembled	82.1
assembled	82.1.1



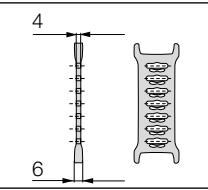
4
12

Standard - for any application
Separator with a wide base for maximum holding force.



Notch separator for notched crossbar

unassembled	82.5
assembled	82.5.1



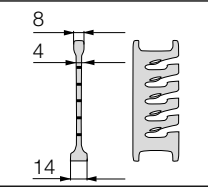
4
6

Locks securely in preset increments
Notch separator for exact positioning. Recommended for side-mounted applications.



Lean notch separator¹⁾

unassembled	82.15
assembled	82.15.1



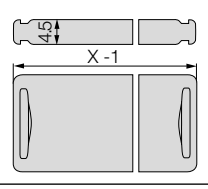
8
4
14

Lean notch separators¹⁾
For quick fitting of shelves in several layers. Snaps securely into the crossbar in 5mm steps to be positioned securely.
1) Note: Please combine maximum 4 lean separators with one shelf.
Not suitable for side-mounted e-chains®!



Shelf, lockable

unassembled	520.X
assembled	521.X



X - 1

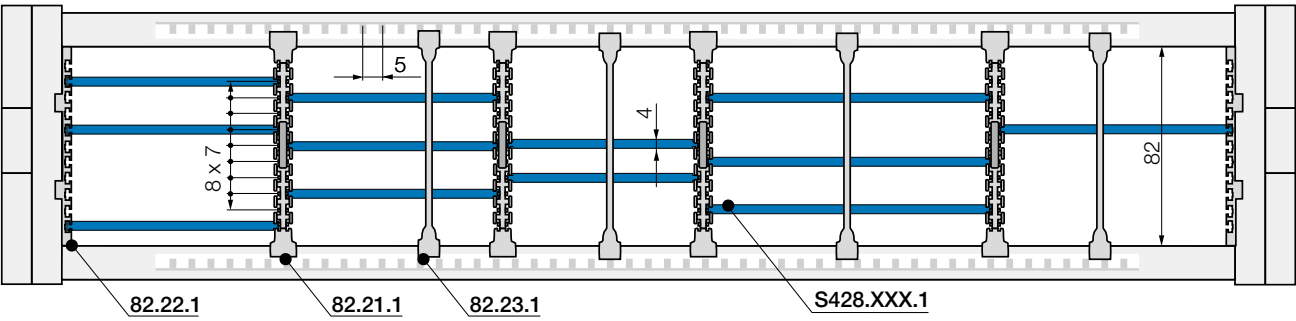
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves Width = X [mm]	X [mm]	unassembled		assembled		X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
	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

Lean notch separator design principle | For even faster filling

With the lean notch 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

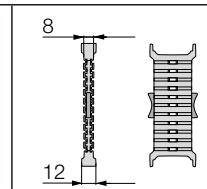


No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!



Universal middle plate

unassembled	82.21
assembled	82.21.1



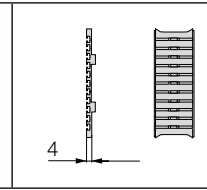
8
12

Universal middle plates
The shelves can be inserted from both sides. The shelves are locked in place by means of the integrated slider and additionally when the crossbar is fitted. For unlocking, the crossbar must be removed - on the inner or outer radius.



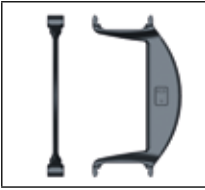
Universal side plate

unassembled	82.22
assembled	82.22.1



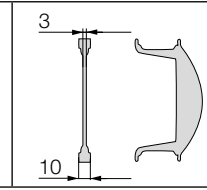
4

Universal side plates
Allow modular shelving right up to the side links. Shelves can be inserted from both sides.



Separator

unassembled	82.23
assembled	82.23.1



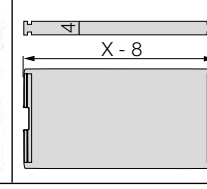
3
10

Separators for universal interior separation
For additional vertical partitioning of the shelf system. When using the separator, the shelves can only be removed in one direction.



Shelf

unassembled	S428.XXX
assembled	S428.XXX.1



X - 8

Shelves for universal interior separation
Shelves of various widths can be arranged in steps of 7mm.

Shelves Width = XXX [mm]	XXX [mm]	unassembled		assembled		XXX [mm]	unassembled	assembled	XXX [mm]	unassembled	assembled
	018*	S428.018		S428.018.1		050 ¹⁾	S428.050	S428.050.1	108*	S428.108	S428.108.1
	023*	S428.023		S428.023.1		054*	S428.054	S428.054.1	125*	S428.125	S428.125.1
	025*	S428.025		S428.025.1		062 ¹⁾	S428.062	S428.062.1	150*	S428.150	S428.150.1
	028*	S428.028		S428.028.1		075 ¹⁾	S428.075	S428.075.1	175*	S428.175	S428.175.1
	033*	S428.033		S428.033.1		087*	S428.087	S428.087.1	200*	S428.200	S428.200.1
	043*	S428.043		S428.043.1		100 ¹⁾	S428.100	S428.100.1	208*	S428.208	S428.208.1

*Width available upon request. Please consult igus® for delivery time. 1) Width available from spring 2021.