E4.1 | Series E4.21 | Product range

Strong due to undercut design, small inner height





e-chains® | Series E4.21 | Crossbars every link (crossbars removable along the inner and outer radius)

Part No.	Bi	Ва	E4.21	Part No.	Bi	Ва	E4.21
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
E4.21.030.R.0 [△]	30	44	≈ 0.60	E4.21.090.R.0	90	104	≈ 0.82
E4.21.040.R.0 ⁴	40	54	≈ 0.64	E4.21.100.R.0	100	114	≈ 0.85
E4.21.050.R.0 ⁴	50	64	≈ 0.67	E4.21.110.R.0	110	124	≈ 0.89
E4.21.060.R.0 [△]	60	74	≈ 0.71	E4.21.120.R.0	120	134	≈ 0.92
E4.21.070.R.0 [▲]	70	84	≈ 0.74	E4.21.140.R.0	140	154	≈ 0.99
E4.21.080. <i>R</i> .0 [▲]	80	94	≈ 0.78				

▲ ESD version (Electro Static Discharge) available from stock. More information ▶ From page 142

Available bend radii

R [mm] | 038 | 048[®] | 063 | 075 | 100 | 150 | 200 |

Complete Part No. with required radius (R). Example: E4.21.120.100.0 = crossbars every link

ESD - many sizes from stock

- Standardised product made from igumid ESD
- ESD material tested for over 10 million cycles for the toughest requirements
- Short delivery times including mounting brackets and interior separation; 24hrs, from stock

More information and the complete product range

► From page 142 or at ► www.igus.co.uk/esd



Rotating energy supply systems with Reverse Bend Radius (RBR) - some radii available from stock

- Maximum rotation angle in minimal installation space
- Minimal friction forces and maximum service life
- Short delivery times, from stock

More information and the complete product range ▶ From page 130

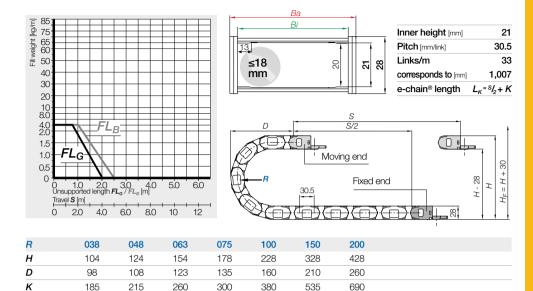


E4.1 | Series E4.21 | Installation dimensions



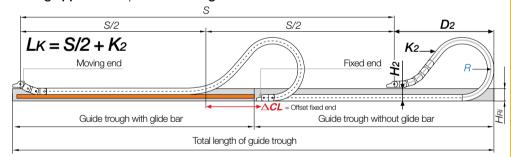


Unsupported applications | Short travels



Gliding applications | For travel lengths from 10m to max. 120m

The required clearance height: $H_E = H + 30$ mm (with 1.5kg/m fill weight)



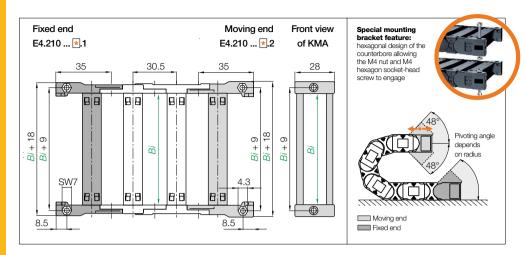
Note: We recommend the project planning of such a system to be carried out by igus®.

In case of travels between 4 and 10m we recommend an e-chain® with a longer unsupported length.

R	038	048	063	075	100	150	200	
H_2	76	96	126	152	135	135	135	
D_2	85	95	110	120	430	580	730	
K ₂	185	215	260	300	640.5	945.5	1250.5	
ΔCL	-	-	_	_	270	370	470	

E4.1 | Series E4.21 | Accessories

KMA mounting brackets | Pivoting



KMA pivoting | Recommended for unsupported and gliding applications

Width	Part No. full set	Bi	Width	Part No. full set	Bi
index	KMA pivoting	[mm]	index	KMA pivoting	[mm]
030. ▶	E4.210.030.*.12	30	090.	E4.210.090.*.12	90
040.	E4.210.040.*.12	40	100. ▶	E4.210.100.*.12	100
050.	E4.210.050.*.12	50	110.	E4.210.110.*.12	110
060.	E4.210.060.*.12	60	120. ▶	E4.210.120.*.12	120
070.	E4.210.070.*.12	70	140.	E4.210.140.*.12	140
080. ▶	E4.210.080.*.12	80			
(KMA = poly	mer 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.





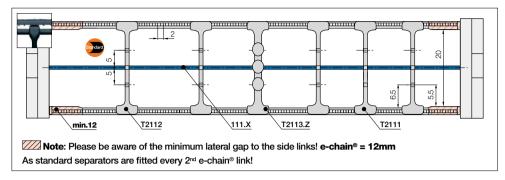
The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index .A.

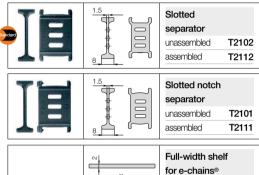


Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

E4.1 | Series E4.21 | Accessories

Interior separation





Slotted separator*

For a vertical subdivision. The slot allows basic vertical/ horizontal shelving arrangements.

Slotted notch separator*

Can be locked/fixed securely due to special recesses on the crossbars of the e-chain®. The separator cannot slide sideways during operation.

Full-width shelf

This option is for applications with many small cables with similar diameters. For full-width separation.

*Note: not suitable for Bi 030

Full-width shelves Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
030	110.30	111.30	070	110.70	111.70	110	110.110	111.110
040	110.40	111.40	080	110.80	111.80	120	110.120	111.120
050	110.50	111.50	090	110.90	111.90			
060	110.60	111.60	100	110.100	111.100			

110.X

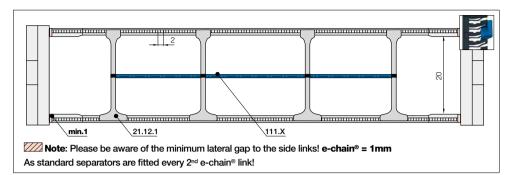
111.X

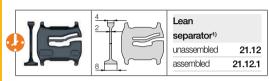
unassembled

assembled

E4.1 | Series E4.21 | Accessories

Interior separation | To allow faster filling





Lean separators1)

For guick fitting of shelves in several layers.

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

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

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



E4.1 | Series E4.21 | Further accessories

Aluminium support trav

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

More information ▶ From page 1362



Reduce assembly time - E4 e-chain® opener

- e-chain® opener tools for easy opening and closing of e-chains®
- Simple opening and closing of e-chain® crossbars
- Also for use in hard to reach locations
- Significant assembly time reduction

More information ▶ www.igus.co.uk/E4savetime



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. T2103.Z - more information ▶ From page 1424





Many e-chains® are used in this customised CNC-machine for the woodworking industry

