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. e-chains®	Bi [mm]	Ba [mm]	E61.80 [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

Part No. e-chains®	Bi [mm]	Ba [mm]	E61.80 [kg/m]
E61.80. 31. R.0	312	362	≈ 4.185
E61.80. 32. R.0	325	375	≈ 4,249
E61.80. 33. R.0	337	387	≈ 4.307
E61.80. 35. R.0	350	400	≈ 4.371
E61.80. 36. R.0	362	412	≈ 4.429
E61.80. 37. R.0	375	425	≈ 4.493
E61.80. 38. R.0	387	437	≈ 4.551
E61.80. 40. R.0	400	450	≈ 4.615
E61.80. 41. R.0	412	462	≈ 4.673
E61.80. 42. R.0	425	475	≈ 4.737
E61.80. 43. R.0	437	487	≈ 4.787
E61.80. 45. R.0	450	500	≈ 4.847
E61.80. 46. R.0	462	512	≈ 4.907
E61.80. 47. R.0	475	525	≈ 4.967
E61.80. 48. R.0	487	537	≈ 5.027
E61.80. 50. R.0	500	550	≈ 5.087
E61.80. 51. R.0	512	562	≈ 5.147
E61.80. 52. R.0	525	575	≈ 5.207
E61.80. 53. R.0	537	587	≈ 5.267
E61.80. 55. R.0	550	600	≈ 5.327
E61.80. 60. R.0	600	650	≈ 5.557

Available bend radii

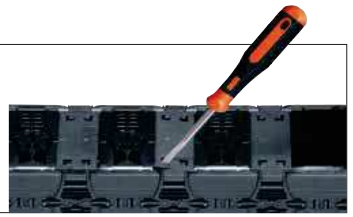
R [mm] | 150 |

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.

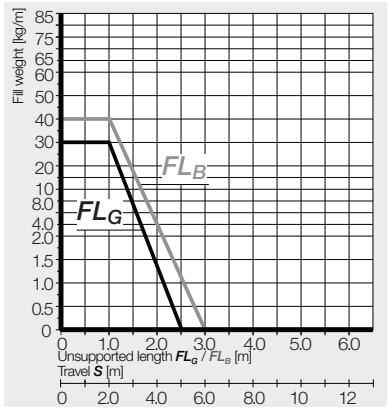
An assembly video is available online at ▶ www.igus.eu/E61_assembly

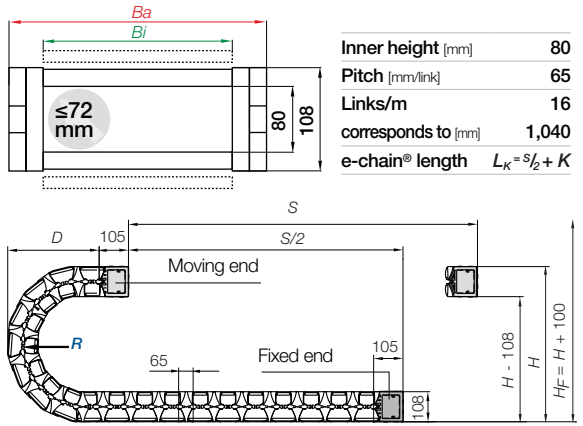


E6.1 | Series E61.80 | Installation dimensions

Unsupported applications | Short travels

▶ 1392





Inner height [mm]	80
Pitch [mm/link]	65
Links/m	16
corresponds to [mm]	1,040
e-chain® length	$L_K = S/2 + K$

R	150
H	508
D	301.5
K	605

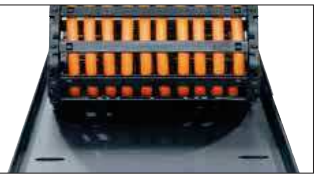
The required clearance height: $H_F = H + 80$mm (with 5.0kg/m fill weight)

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

Steel support tray for support of the lower run

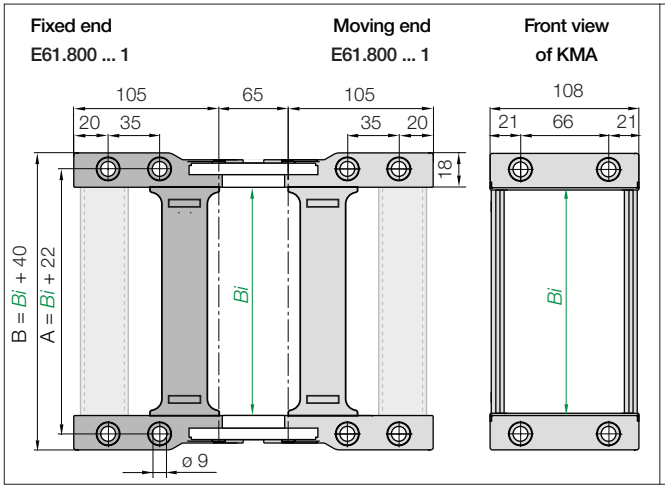
- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

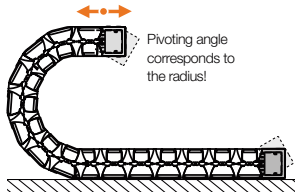
More information ▶ From page 1356



E6.1 | Series E61.80 | Accessories

KMA mounting brackets | Attachment from any side | Pivoting

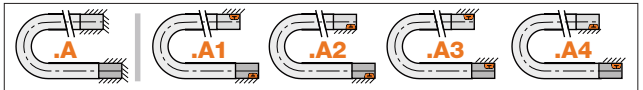




KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
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
31.	E61.800.31.12.C	334	352	312
32.	E61.800.32.12.C	347	365	325
33.	E61.800.33.12.C	359	377	337
35.	E61.800.35.12.C	372	390	350
36.	E61.800.36.12.C	384	402	362
37.	E61.800.37.12.C	397	415	375
38.	E61.800.38.12.C	409	427	387
40.	E61.800.40.12.C	422	440	400
41.	E61.800.41.12.C	434	452	412
42.	E61.800.42.12.C	447	465	425
43.	E61.800.43.12.C	459	477	437
45.	E61.800.45.12.C	472	490	450
46.	E61.800.46.12.C	484	502	462
47.	E61.800.47.12.C	497	515	475
48.	E61.800.48.12.C	509	527	487
50.	E61.800.50.12.C	522	540	500
51.	E61.800.51.12.C	534	552	512
52.	E61.800.52.12.C	547	565	525
53.	E61.800.53.12.C	559	577	537
55.	E61.800.55.12.C	572	590	550
60.	E61.800.60.12.C	622	640	600

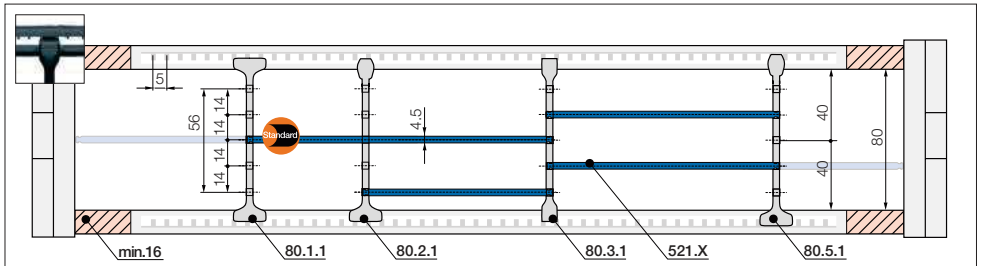
(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**. **KMA mounting brackets are only available for an odd number of links.**



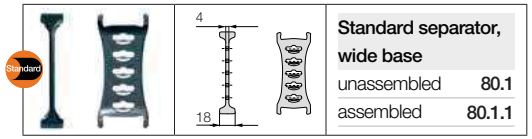
Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A** . For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

Interior separation | Increase cable service life

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



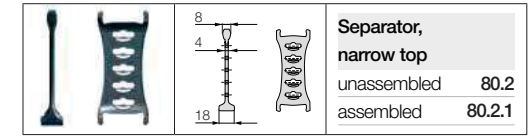
Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: =16mm**
As standard separators are fitted every 2nd e-chain® link!



Standard separator, wide base
unassembled 80.1
assembled 80.1.1

Standard - for any application

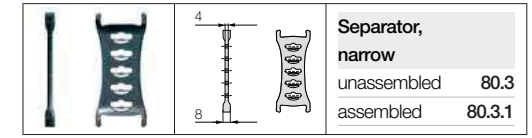
Separator with a wide base for maximum holding force.



Separator, narrow top
unassembled 80.2
assembled 80.2.1

For even faster installation

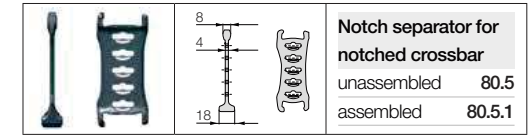
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.



Separator, narrow
unassembled 80.3
assembled 80.3.1

For a large number of thin cables

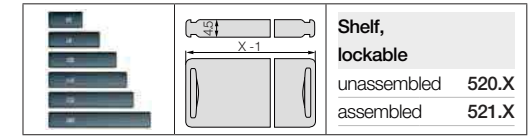
Separator with a narrow base for a large number of thin cables side by side. Saves space.



Notch separator for notched crossbar
unassembled 80.5
assembled 80.5.1

Locks securely in preset increments

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



Shelf, lockable
unassembled 520.X
assembled 521.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	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