

Extremely low noise and vibration

80



e-chains® | Series E6.80 | Crossbars removable along the inner and outer radius

Part No.	Bi	Ba	E6.80	Part No.	Bi	Ba	E6.80
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
E6.80. 05. R.0	50	100	5.21	E6.80. 31. R.0	312	362	6.45
E6.80. 06. R.0	65	115	5.28	E6.80. 32. R.0	325	375	6.51
E6.80. 07. R.0	75	125	5.33	E6.80. 33. R.0	337	387	6.57
E6.80. 08. R.0	87	137	5.38	E6.80. 35. R.0	350	400	6.63
E6.80. 10. R.0	100	150	5.45	E6.80. 36. R.0	362	412	6.69
E6.80. 11. R.0	112	162	5.50	E6.80. 37. R.0	375	425	6.75
E6.80. 12. R.0	125	175	5.57	E6.80. 38. R.0	387	437	6.80
E6.80. 13. R.0	137	187	5.62	E6.80. 40. R.0	400	450	6.88
E6.80. 15. R.0	150	200	5.68	E6.80. 41. R.0	412	462	6.92
E6.80. 16. R.0	162	212	5.74	E6.80. 42. R.0	425	475	6.99
E6.80. 17. R.0	175	225	5.80	E6.80. 43. R.0	437	487	7.04
E6.80. 18. R.0	187	237	5.86	E6.80. 45. R.0	450	500	7.10
E6.80. 20. R.0	200	250	5.92	E6.80. 46. R.0	462	512	7.16
E6.80. 21. R.0	212	262	5.98	E6.80. 47. R.0	475	525	7.22
E6.80. 22. R.0	225	275	6.04	E6.80. 48. R.0	487	537	7.28
E6.80. 23. R.0	237	287	6.10	E6.80. 50. R.0	500	550	7.34
E6.80. 25. R.0	250	300	6.16	E6.80. 51. R.0	512	562	7.40
E6.80. 26. R.0	262	312	6.21	E6.80. 52. R.0	525	575	7.46
E6.80. 27. R.0	275	325	6.28	E6.80. 53. R.0	537	587	7.52
E6.80. 28. R.0	287	337	6.33	E6.80. 55. R.0	550	600	7.58
E6.80. 30. R.0	300	350	6.39	E6.80. 60. R.0	600	650	7.81

Available bend radii

R [mm] | 150 | 200 | 250 | 300 | 350 | 400 | 450 |

Complete Part No. with required radius (R). Example: E6.80.10.300.0



Installation note - system E6

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/E6_assembly

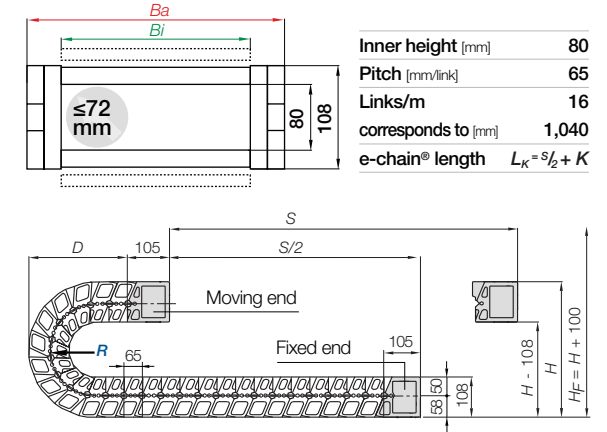
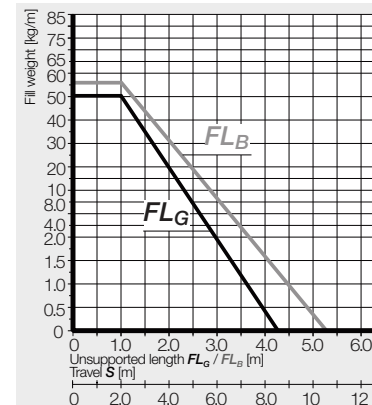
Unsupported applications | Short travels



► 1392



► 1324



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

	150	200	250	300	350	400	450
R	150	200	250	300	350	400	450
H	516	616	716	816	916	1,016	1,116
D	306	356	406	456	506	556	606
K	605	760	920	1,075	1,230	1,390	1,545

The required clearance height: $H_F = H + 100$ mm (with 5.0kg/m fill weight)



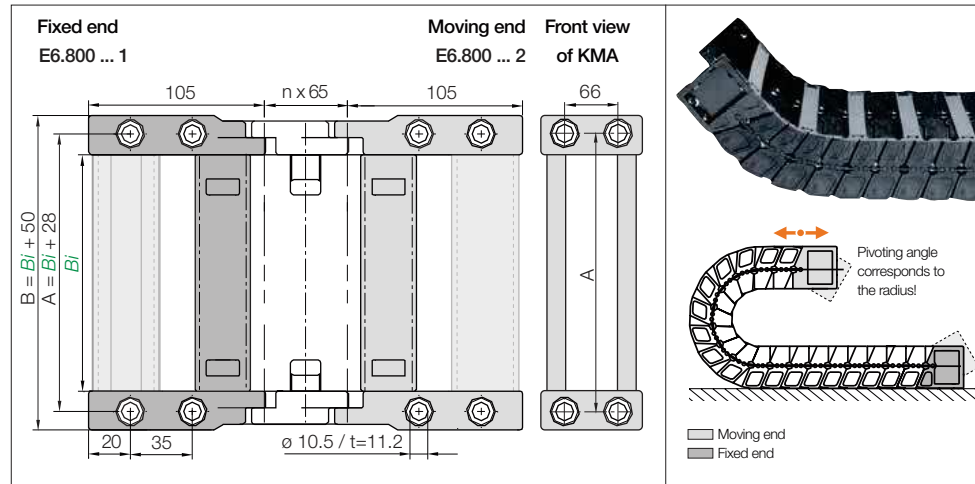
If a gliding application is required for a long travel, please consult igus®.

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

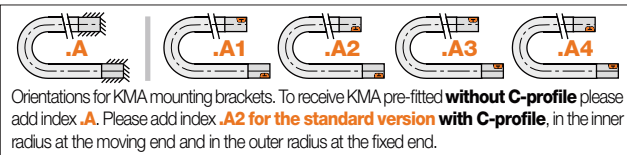




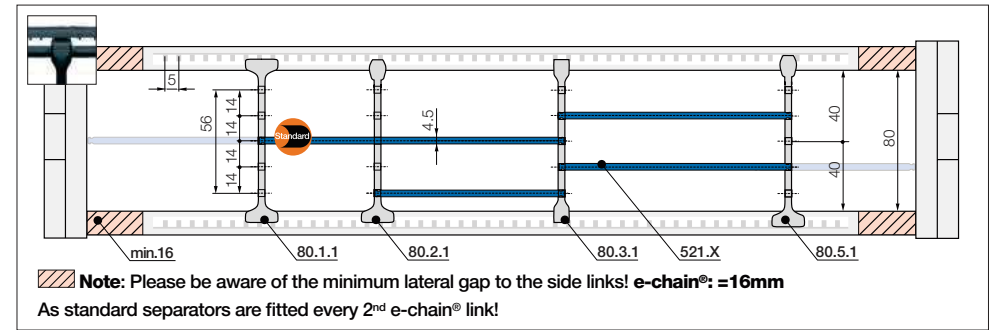
KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set KMA pivoting	A [mm]	B [mm]	B_i [mm]	Width index	Part No. Full set KMA pivoting	A [mm]	B [mm]	B_i [mm]
05.	E6.800.05.12.C	78	100	50	31.	E6.800.31.12.C	340	362	312
06.	E6.800.06.12.C	93	115	65	32.	E6.800.32.12.C	353	375	325
07.	E6.800.07.12.C	103	125	75	33.	E6.800.33.12.C	365	387	337
08.	E6.800.08.12.C	115	137	87	35.	E6.800.35.12.C	378	400	350
10.	E6.800.10.12.C	128	150	100	36.	E6.800.36.12.C	390	412	362
11.	E6.800.11.12.C	140	162	112	37.	E6.800.37.12.C	403	425	375
12.	E6.800.12.12.C	153	175	125	38.	E6.800.38.12.C	415	437	387
13.	E6.800.13.12.C	165	187	137	40.	E6.800.40.12.C	428	450	400
15.	E6.800.15.12.C	178	200	150	41.	E6.800.41.12.C	440	462	412
16.	E6.800.16.12.C	190	212	162	42.	E6.800.42.12.C	453	475	425
17.	E6.800.17.12.C	203	225	175	43.	E6.800.43.12.C	465	487	437
18.	E6.800.18.12.C	215	237	187	45.	E6.800.45.12.C	478	500	450
20.	E6.800.20.12.C	228	250	200	46.	E6.800.46.12.C	490	512	462
21.	E6.800.21.12.C	240	262	212	47.	E6.800.47.12.C	503	525	475
22.	E6.800.22.12.C	253	275	225	48.	E6.800.48.12.C	515	537	487
23.	E6.800.23.12.C	265	287	237	50.	E6.800.50.12.C	528	550	500
25.	E6.800.25.12.C	278	300	250	51.	E6.800.51.12.C	540	562	512
26.	E6.800.26.12.C	290	312	262	52.	E6.800.52.12.C	553	575	525
27.	E6.800.27.12.C	303	325	275	53.	E6.800.53.12.C	565	587	537
28.	E6.800.28.12.C	315	337	287	55.	E6.800.55.12.C	578	600	550
30.	E6.800.30.12.C	328	350	300	60.	E6.800.60.12.C	628	650	600

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



Previous generation of interior separation with other options ► www.igus.eu/E6.80



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.

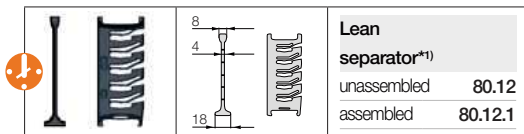
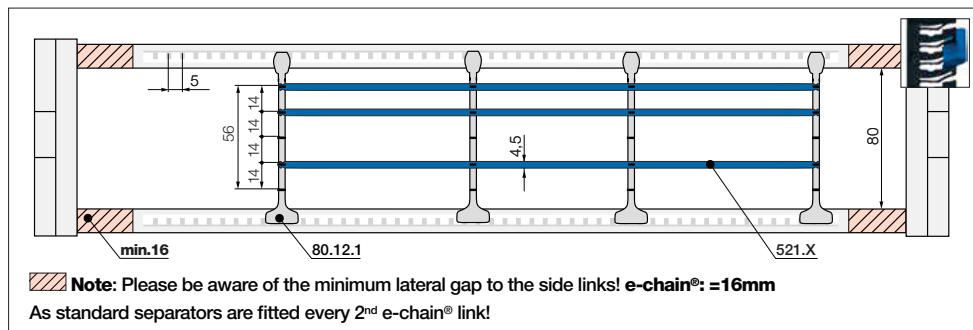
Shelf, lockable

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		X [mm] assembled		X [mm] unassembled		X [mm] assembled	
	unassembled	assembled	unassembled	assembled	unassembled	assembled	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



Lean separators*1)

For quick fitting of shelves in several layers. **1) Note:** Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains®!

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



igus® system E6 guiding an extraction hose - speed 8m/s, acceleration 78.5m/s²



An igus® e-chain® from the E6 range accelerates work processes in the wafer-handling application in chip production. The E6 easily supplies energy for wafer handling in chip production requiring acceleration rates of up to 4m/s² and speeds of up to 6m/s. Its low abrasion is especially important because a high degree of purity is critical in chip production. The E6 is cleanroom-compatible and has Fraunhofer IPA certification