

# E4/4 rol e-chain®

Travel lengths up to 800m,  
rolling instead of gliding



#### Advantages E4/4 rol e-chain®

- Special solution for long travels
- 75% less drive power to move the e-chain®
- Travel lengths up to 800m with E4/4 rol e-chain® possible
- Speeds up to 6m/s possible
- Various roller types for optimum application adaption
- Can be used in dirty environments



#### When to use another e-chain® series:

- If a cost-effective rol e-chain with a travel of up to 150m is required, for medium load requirements
  - ▶ E2/000 rol e-chain® page 1258
- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%
  - ▶ P4/P4.1 systems, page 1232
- When you want a self-guiding e-chain system® without any guide troughs
  - ▶ autoglide, page 1264



Attachment from any side: with KMA mounting brackets

High strength: due to undercut design

Long service life: high-strength rollers, quiet design, stainless steel ball bearings

High push/pull forces: large pin/bore connection

Fast filling: lids open on both sides, flip open along the outer radius

## Travel lengths up to 800m, rolling instead of gliding - E4/4 rol e-chain®



Conventional design e-chains® are used gliding for long travels. The technical limits of this operating mode were the reason for development of the igus® E4/4 rol-e chain®. The demands have increased steadily in recent years. Travel lengths of 800 metres now pose new challenges in cranes along with high travel speeds and low noise with high cable loads.

- Reduction of drive power needed to move the e-chain®
- Travels up to 800m possible
- Speeds up to 6m/s possible
- Various roller types for optimum application adaption
- Can be used in dirty environments
- Available as ready-to-fit harnessed system with guarantee

### Typical industries and applications

- Crane facilities
- Bulk handling/material handling
- Mining/construction machinery
- Displacement systems

### Technical data

 Speed rolling	≤ 10 [m/s]
Acceleration rolling	≤ 50 [m/s <sup>2</sup> ]
 igumid G material, permitted temperature °C	-40°C / +120°C
 Flammability class, igumid G	VDE 0304 IIC UL94-HB

Series Part No.	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]	Travel ≤ [m]	Page
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**e-chains® with crossbars every link**  
the all-rounder - also for particularly demanding applications

2828R	32	50 - 400	74 - 424	54	125 - 300	250	1246
3838R	42	50 - 400	77 - 427	64	150 - 350	330	1248
4040R	56	50 - 600	86 - 636	84	200 - 400	500	1250
5050R	80	50 - 600	100 - 650	108	250 - 500	600	1254



**e-tubes**  
fully enclosed, excellent cable protection

7728R	32	50 - 300	74 - 324	54	150 - 300	250	1246
7838R	42	50 - 300	77 - 327	64	200 - 350	330	1248
8840R	56	75 - 462	111 - 499	84	300 - 400	500	1250
9850R	80	75 - 462	125 - 513	108	300 - 500	600	1254



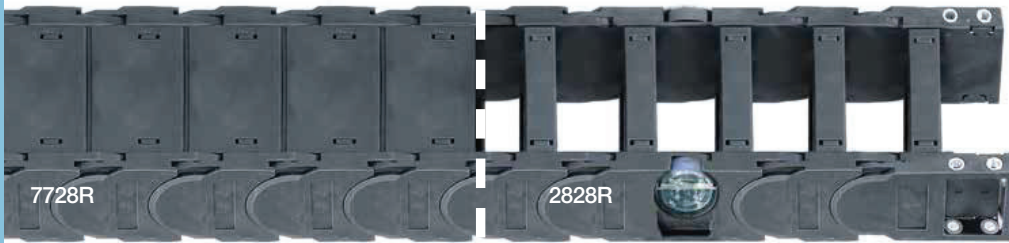
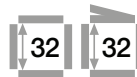
**Heavy-duty e-chain® with crossbars every link**  
for very long travels with very heavy fill weights

4040RHD	56	50 - 600	104 - 654	84	200 - 400	600	1252
5050RHD	80	50 - 600	110 - 660	108	250 - 500	800	1256

 **Systems of this type should be designed in conjunction with our engineering team.**  
Please contact us at ► [www.igus.eu/contact](http://www.igus.eu/contact)

 **Available from stock. Ready to ship in 5 - 7 days\***  
\*Average time before the ordered goods are dispatched.

Rolling instead of gliding, travel lengths up to 250m



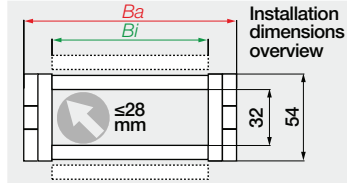
e-chains® | Series 2828R | Crossbars every link (crossbars removable along the inner and outer radius)  
e-tubes | Series 7728R | Fully enclosed (lids openable along the outer radius, from one side)

Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	2828R	7728R	Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	2828R	7728R
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
2828R. 7728R. 05.	50	74	≈ 1.73	≈ 2.63	2828R. - 212.	212	237	≈ 2.87	-
2828R. - 06.	68	92	≈ 1.79	-	2828R. - 23.	225	249	≈ 2.92	-
2828R. 7728R. 07.	75	99	≈ 1.84	≈ 2.75	2828R. - 237.	237	262	≈ 3.05	-
2828R. - 087.	87	111	≈ 1.93	-	2828R. 7728R. 25.	250	274	≈ 3.10	≈ 4.04
2828R. - 097.	97	120	≈ 1.99	-	2828R. - 262.	262	286	≈ 3.19	-
2828R. 7728R. 10.	100	124	≈ 2.02	≈ 2.83	2828R. - 28.	275	299	≈ 3.28	-
2828R. 7728R. 11.	108	132	≈ 2.08	≈ 2.94	2828R. - 29.	287	312	≈ 3.37	-
2828R. - 112.	112	137	≈ 2.15	-	2828R. 7728R. 30.	300	324	≈ 3.46	≈ 4.43
2828R. 7728R. 12.	125	149	≈ 2.20	≈ 3.03	2828R. - 312.	312	337	≈ 3.59	-
2828R. - 137.	137	162	≈ 2.29	-	2828R. - 325.	325	349	≈ 3.68	-
2828R. 7728R. 15.	150	174	≈ 2.38	≈ 3.19	2828R. - 337.	337	362	≈ 3.77	-
2828R. - 162.	162	187	≈ 2.44	-	2828R. - 350.	350	374	≈ 3.86	-
2828R. 7728R. 17.	168	192	≈ 2.51	≈ 3.39	2828R. - 362.	362	387	≈ 3.95	-
2828R. - 18.	175	199	≈ 2.56	-	2828R. - 375.	375	399	≈ 4.04	-
2828R. - 187.	187	212	≈ 2.65	-	2828R. - 387.	387	412	≈ 4.11	-
2828R. 7728R. 20.	200	224	≈ 2.74	≈ 3.59	2828R. - 400.	400	424	≈ 4.18	-

\*Radius not available for e-tubes 1) Lid removable only, no hinged option

Available bend radii *R* [mm] | 125\* | 150 | 175 | 200 | 220 | 250 | 300 |

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain® 32mm
	Pitch per e-chain® link 56mm
	Links per metre 18 pieces

	Outer height e-chain® 54mm
	Max. cable diameter Max. ø 28mm
	15 links correspond to 1,008mm

Mounting brackets



Pivoting KMA mounting bracket with attachment from any side

Interior separation



Cable-friendly interior separations available

Guide troughs



Heavy-duty aluminium SuperTrough for high load applications



Steel guide trough, tough for heavy-duty applications



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Rolling instead of gliding, travel lengths up to 330m



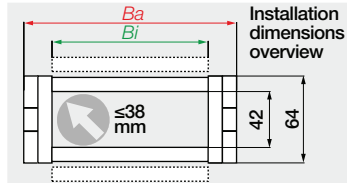
e-chains® | Series 3838R | Crossbars every link (crossbars removable along the inner and outer radius)  
e-tubes | Series 7838R | Fully enclosed (lids openable along the outer radius, from one side)

Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	3838R	7838R	Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	3838R	7838R	
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	
3838R. 7838R. 05.	50	77	≈ 2.06	≈ 2.25	3838R. -	212.	212	240	≈ 2.84	-
3838R. -	06.	68	≈ 2.09	-	3838R. -	23.	225	252	≈ 2.92	-
3838R. 7838R. 07.	75	102	≈ 2.12	≈ 2.38	3838R. -	237.	237	265	≈ 2.96	-
3838R. -	087.	87	≈ 2.18	-	3838R. 7838R. 25.	250	277	≈ 3.05	≈ 4.33	-
3838R. -	097.	97	≈ 2.23	-	3838R. -	262.	262	290	≈ 3.06	-
3838R. 7838R. 10.	100	127	≈ 2.25	≈ 2.60	3838R. -	28.	275	302	≈ 3.17	-
3838R. 7838R. 11.	108	135	≈ 2.30	≈ 2.65	3838R. -	29.	287	315	≈ 3.19	-
3838R. -	112.	112	≈ 2.30	-	3838R. 7838R. 30.	300	327	≈ 3.32	≈ 4.89	-
3838R. 7838R. 12.	125	152	≈ 2.40	≈ 2.81	3838R. -	312.	312	340	≈ 3.34	-
3838R. -	137.	137	≈ 2.44	-	3838R. -	325.	325	352	≈ 3.41	-
3838R. 7838R. 15.	150	177	≈ 2.53	≈ 3.07	3838R. -	337.	337	365	≈ 3.46	-
3838R. -	162.	162	≈ 2.55	-	3838R. -	350.	350	377	≈ 3.68	-
3838R. 7838R. 17.	168	195	≈ 2.62	≈ 3.24	3838R. -	362.	362	390	≈ 3.74	-
3838R. -	18.	175	≈ 2.62	-	3838R. -	375.	375	402	≈ 3.79	-
3838R. -	187.	187	≈ 2.69	-	3838R. -	387.	387	415	≈ 3.85	-
3838R. 7838R. 20.	200	227	≈ 2.77	≈ 3.53	3838R. -	400.	400	427	≈ 3.90	-

\*Radius not available for e-tubes 1) Lid removable only, no hinged option

Available bend radii *R* [mm] | 150\* | 170\* | 200 | 215 | 250 | 300 | 350 |

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain® 42mm		Outer height e-chain® 64mm
	Pitch per e-chain® link 67mm		Max. cable diameter Max. ø 38mm
	Links per metre 15 pieces		15 links correspond to 1,005mm

Mounting brackets



Pivoting KMA mounting bracket with attachment from any side

Interior separation



Cable-friendly interior separations available

Guide troughs



Heavy-duty aluminium SuperTrough for high load applications



Steel guide trough, tough for heavy-duty applications



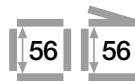
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A heavily dust-filled, warm and humid climate pose a great challenge to the components used in this waste bunker.

Rolling instead of gliding, travel lengths up to 500m



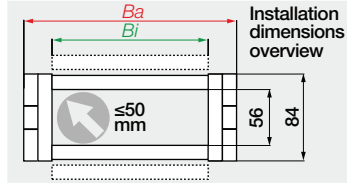
e-chains® | Series 4040R | Crossbars every link (crossbars removable along the inner and outer radius)  
e-tubes | Series 8840R | Fully enclosed (lids openable along the outer radius, from one side)

Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	4040R	8840R	Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	4040R	8840R
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
4040R. - 05.	50	86	≈ 3.65	-	4040R. - 31.	312	349	≈ 5.58	-
4040R. - 06.	65	101	≈ 3.67	-	4040R. - 32.	325	361	≈ 5.63	-
4040R. 8840R. 1)07.	75	111	≈ 3.78	≈ 4.24	4040R. - 33.	337	374	≈ 5.81	-
4040R. - 08.	87	123	≈ 3.83	-	4040R. 8840R. 35.	350	386	≈ 5.96	≈ 8.02
4040R. 8840R. 10.	100	136	≈ 3.96	≈ 4.52	4040R. - 36.	362	399	≈ 5.96	-
4040R. - 11.	112	149	≈ 4.09	-	4040R. - 37.	375	411	≈ 5.98	-
4040R. 8840R. 12.	125	161	≈ 4.16	≈ 4.88	4040R. - 38.	387	424	≈ 6.07	-
4040R. - 13.	137	174	≈ 4.29	-	4040R. 8840R. 40.	400	436	≈ 6.27	≈ 8.98
4040R. 8840R. 15.	150	186	≈ 4.36	≈ 5.31	4040R. - 41.	412	449	≈ 6.42	-
4040R. - 16.	162	199	≈ 4.47	-	4040R. - 42.	425	461	≈ 6.58	-
4040R. 8840R. 17.	175	211	≈ 4.58	≈ 5.56	4040R. - 43.	437	474	≈ 6.64	-
4040R. - 18.	187	224	≈ 4.69	-	4040R. - 45.	450	486	≈ 6.71	-
4040R. 8840R. 20.	200	236	≈ 4.71	≈ 5.89	4040R. 8840R. 46.	462	499	≈ 6.73	≈ 9.44
4040R. - 21.	212	249	≈ 4.82	-	4040R. - 47.	475	511	≈ 6.86	-
4040R. - 22.	225	261	≈ 4.88	-	4040R. - 48.	487	524	≈ 6.88	-
4040R. - 23.	237	274	≈ 5.02	-	4040R. - 50.	500	536	≈ 7.00	-
4040R. 8840R. 25.	250	286	≈ 5.10	≈ 6.61	4040R. - 51.	512	549	≈ 7.02	-
4040R. - 26.	262	299	≈ 5.19	-	4040R. - 52.	525	561	≈ 7.06	-
4040R. 8840R. 27.	275	311	≈ 5.30	≈ 6.89	4040R. - 53.	537	574	≈ 7.22	-
4040R. - 28.	287	324	≈ 5.32	-	4040R. - 55.	550	586	≈ 7.70	-
4040R. 8840R. 30.	300	336	≈ 5.54	≈ 7.27	4040R. - 60.	600	636	≈ 7.90	-

\*Radius not available for e-tubes 1) Lid removable only, no hinged option

Available bend radii *R* [mm] | 200\* | 250\* | 300 | 350 | 400 |

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain® 56mm		Outer height e-chain® 84mm
	Pitch per e-chain® link 91mm		Max. cable diameter Max. ø 50mm
	Links per metre 11 pieces		11 links correspond to 1,001mm

Mounting brackets	Interior separation	Extension links	Guide troughs
Pivoting KMA mounting bracket with attachment from any side	Cable-friendly interior separations available	Cable-friendly interior separations available	Heavy-duty aluminium SuperTrough for high load applications Steel guide trough, tough for heavy-duty applications

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igus® E4/4 rol e-chain® saves drive power on long travels. Safely guided in igus® guide troughs



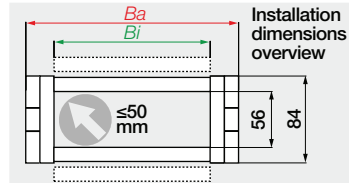
4040RHD

## e-chains® | Series 4040RHD | Crossbars every link (crossbars removable along the inner and outer radius)

Part No. e-chains®	Bi [mm]	Ba [mm]	4040RHD [kg/m]	Part No. e-chains®	Bi [mm]	Ba [mm]	4040RHD [kg/m]
4040RHD. 05.	50	104	≈ 5.03	4040RHD. 31.	312	366	≈ 6.94
4040RHD. 06.	65	119	≈ 5.12	4040RHD. 32.	325	379	≈ 7.05
4040RHD. 07.	75	129	≈ 5.19	4040RHD. 33.	337	391	≈ 7.17
4040RHD. 08.	87	141	≈ 5.27	4040RHD. 35.	350	404	≈ 7.37
4040RHD. 10.	100	154	≈ 5.36	4040RHD. 36.	362	416	≈ 7.28
4040RHD. 11.	112	166	≈ 5.48	4040RHD. 37.	375	429	≈ 7.38
4040RHD. 12.	125	179	≈ 5.56	4040RHD. 38.	387	441	≈ 7.49
4040RHD. 13.	137	191	≈ 5.69	4040RHD. 40.	400	454	≈ 7.76
4040RHD. 15.	150	204	≈ 5.73	4040RHD. 41.	412	466	≈ 7.68
4040RHD. 16.	162	216	≈ 5.84	4040RHD. 42.	425	479	≈ 7.98
4040RHD. 17.	175	229	≈ 5.97	4040RHD. 43.	437	491	≈ 7.82
4040RHD. 18.	187	241	≈ 6.09	4040RHD. 45.	450	504	≈ 8.15
4040RHD. 20.	200	254	≈ 6.14	4040RHD. 46.	462	516	≈ 8.10
4040RHD. 21.	212	266	≈ 6.21	4040RHD. 47.	475	529	≈ 8.14
4040RHD. 22.	225	279	≈ 6.28	4040RHD. 48.	487	541	≈ 8.39
4040RHD. 23.	237	291	≈ 6.39	4040RHD. 50.	500	554	≈ 8.48
4040RHD. 25.	250	304	≈ 6.50	4040RHD. 51.	512	566	≈ 8.40
4040RHD. 26.	262	316	≈ 6.59	4040RHD. 52.	525	579	≈ 8.57
4040RHD. 27.	275	329	≈ 6.70	4040RHD. 53.	537	591	≈ 8.66
4040RHD. 28.	287	341	≈ 6.75	4040RHD. 55.	550	604	≈ 9.08
4040RHD. 30.	300	354	≈ 6.91	4040RHD. 60.	600	654	≈ 9.31

Available bend radii R [mm] | 200 | 250 | 300 | 350 | 400 |

This type of system should be designed in conjunction with our engineering team.



Inner height e-chain®	Outer height e-chain®
56mm	84mm
Pitch per e-chain® link	Max. cable diameter
91mm	Max. ø 50mm
Links per metre	11 links correspond to
11 pieces	1,001mm

Inner height e-chain®	Outer height e-chain®
56mm	84mm
Pitch per e-chain® link	Max. cable diameter
91mm	Max. ø 50mm
Links per metre	11 links correspond to
11 pieces	1,001mm

## Mounting brackets



Tough steel mounting brackets for strong connection

## Interior separation



Cable-friendly interior separations available

## Guide troughs



Heavy-duty aluminium SuperTrough for high load applications



Steel guide trough, tough for heavy-duty applications



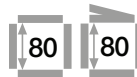
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Shipyard crane: travel 180m, weight 30kg/m: since installation in 2001, this igus® E4/4 rol e-chain® has run trouble-free in spite of severe weather conditions. Even a typhoon did not cause any operating problems



Rolling instead of gliding, travel lengths up to 600m



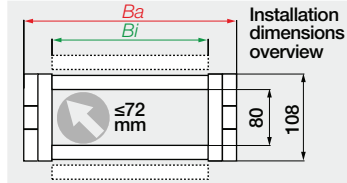
e-chains® | Series 5050R | Crossbars every link (crossbars removable along the inner and outer radius)  
e-tubes | Series 9850R | Fully enclosed (lids openable along the outer radius, from one side)

Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	5050R	9850R	Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	5050R	9850R
e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains® / e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
5050R. - 05.	50	100	≈ 5.62	-	5050R. - 31.	312	363	≈ 6.60	-
5050R. - 06.	65	115	≈ 5.68	-	5050R. - 32.	325	375	≈ 6.62	-
5050R. 9850R. 1) 07.	75	125	≈ 5.70	≈ 6.24	5050R. - 33.	337	388	≈ 6.71	-
5050R. - 08.	87	137	≈ 5.76	-	5050R. 9850R. 35.	350	400	≈ 6.79	≈ 10.02
5050R. 9850R. 10.	100	150	≈ 5.79	≈ 6.52	5050R. - 36.	362	413	≈ 6.80	-
5050R. - 11.	112	163	≈ 5.85	-	5050R. - 37.	375	425	≈ 6.80	-
5050R. 9850R. 12.	125	175	≈ 5.89	≈ 6.89	5050R. - 38.	387	438	≈ 6.84	-
5050R. - 13.	137	188	≈ 5.95	-	5050R. 9850R. 40.	400	450	≈ 6.94	≈ 10.98
5050R. 9850R. 15.	150	200	≈ 5.98	≈ 7.32	5050R. - 41.	412	463	≈ 7.02	-
5050R. - 16.	162	213	≈ 6.04	-	5050R. - 42.	425	475	≈ 7.10	-
5050R. 9850R. 17.	175	225	≈ 6.09	≈ 7.58	5050R. - 43.	437	488	≈ 7.13	-
5050R. - 18.	187	238	≈ 6.15	-	5050R. - 45.	450	500	≈ 7.16	-
5050R. 9850R. 20.	200	250	≈ 6.16	≈ 7.89	5050R. 9850R. 46.	462	513	≈ 7.17	≈ 11.44
5050R. - 21.	212	263	≈ 6.22	-	5050R. - 47.	475	525	≈ 7.24	-
5050R. - 22.	225	275	≈ 6.25	-	5050R. - 48.	487	538	≈ 7.26	-
5050R. - 23.	237	288	≈ 6.31	-	5050R. - 50.	500	550	≈ 7.30	-
5050R. 9850R. 25.	250	300	≈ 6.36	≈ 8.61	5050R. - 51.	512	563	≈ 7.32	-
5050R. - 26.	262	313	≈ 6.40	-	5050R. - 52.	525	575	≈ 7.34	-
5050R. 9850R. 27.	275	325	≈ 6.46	≈ 8.82	5050R. - 53.	537	588	≈ 7.41	-
5050R. - 28.	287	338	≈ 6.47	-	5050R. - 55.	550	600	≈ 7.66	-
5050R. 9850R. 30.	300	350	≈ 6.58	≈ 9.27	5050R. - 60.	600	650	≈ 7.76	-

\*Radius not available for e-tubes 1) Lid removable only, no hinged option

Available bend radii *R* [mm] | 250\* | 300 | 350 | 400 | 500 |

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain® 80mm		Outer height e-chain® 108mm
	Pitch per e-chain® link 91mm		Max. cable diameter Max. ø 72mm
	Links per metre 11 pieces		11 links correspond to 1,001mm

Mounting brackets	Interior separation	Extension links	Guide troughs	
Pivoting KMA mounting bracket with attachment from any side	Cable-friendly interior separations available	Cable-friendly interior separations available	Heavy-duty aluminium SuperTrough for high load applications	Steel guide trough, tough for heavy-duty applications

**i** All information on this page is for guidance only ...  
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Please contact us at ► [www.igus.eu/contact](http://www.igus.eu/contact)



Cross travel of 441.3m, implemented with igus® E4/4 rol e-chain® series 5050R



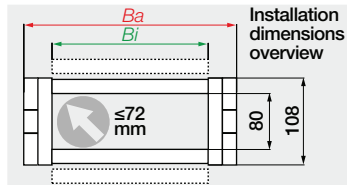
5050RHD

## e-chains® | Series 5050RHD | Crossbars every link (crossbars removable along the inner and outer radius)

Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	5050RHD	Part No.	<i>B<sub>i</sub></i>	<i>B<sub>a</sub></i>	5050RHD
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
5050RHD.05.	50	110	≈ 6.65	5050RHD.31.	312	372	≈ 8.57
5050RHD.06.	65	125	≈ 6.74	5050RHD.32.	325	385	≈ 8.67
5050RHD.07.	75	135	≈ 6.81	5050RHD.33.	337	397	≈ 8.79
5050RHD.08.	87	147	≈ 6.89	5050RHD.35.	350	410	≈ 8.99
5050RHD.10.	100	160	≈ 6.99	5050RHD.36.	362	422	≈ 8.90
5050RHD.11.	112	172	≈ 7.10	5050RHD.37.	375	435	≈ 9.00
5050RHD.12.	125	185	≈ 7.18	5050RHD.38.	387	447	≈ 9.11
5050RHD.13.	137	197	≈ 7.32	5050RHD.40.	400	460	≈ 9.38
5050RHD.15.	150	210	≈ 7.35	5050RHD.41.	412	472	≈ 9.31
5050RHD.16.	162	222	≈ 7.47	5050RHD.42.	425	485	≈ 9.60
5050RHD.17.	175	235	≈ 7.60	5050RHD.43.	437	497	≈ 9.44
5050RHD.18.	187	247	≈ 7.71	5050RHD.45.	450	510	≈ 9.55
5050RHD.20.	200	260	≈ 7.77	5050RHD.46.	462	522	≈ 9.72
5050RHD.21.	212	272	≈ 7.84	5050RHD.47.	475	535	≈ 9.76
5050RHD.22.	225	285	≈ 7.91	5050RHD.48.	487	547	≈ 10.01
5050RHD.23.	237	297	≈ 8.02	5050RHD.50.	500	560	≈ 10.11
5050RHD.25.	250	310	≈ 8.13	5050RHD.51.	512	572	≈ 10.02
5050RHD.26.	262	322	≈ 8.22	5050RHD.52.	525	585	≈ 10.19
5050RHD.27.	275	335	≈ 8.32	5050RHD.53.	537	597	≈ 10.29
5050RHD.28.	287	347	≈ 8.38	5050RHD.55.	550	610	≈ 10.71
5050RHD.30.	300	360	≈ 8.53	5050RHD.60.	600	660	≈ 10.94

Available bend radii *R* [mm] | 250\* | 300 | 350 | 400 | 500 |

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain®	80mm		Outer height e-chain®	108mm
	Pitch per e-chain® link	91mm		Max. cable diameter	Max. ø 72mm
	Links per metre	11 pieces		11 links correspond to	1,001mm

## Mounting brackets



Tough steel mounting brackets for strong connection

## Interior separation



Cable-friendly interior separations available

## Guide troughs



Heavy-duty aluminium SuperTrough for high load applications



Steel guide trough, tough for heavy-duty applications



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A heavy-duty rol e-chain® supplies energy and signals. The principle of the rol e-chain® ensures low rolling resistance even in the case of long travel distances in a dirty environment



# E2/000

## rol e-chain®

For travel lengths up to 150m,  
energy efficient and cost-effective



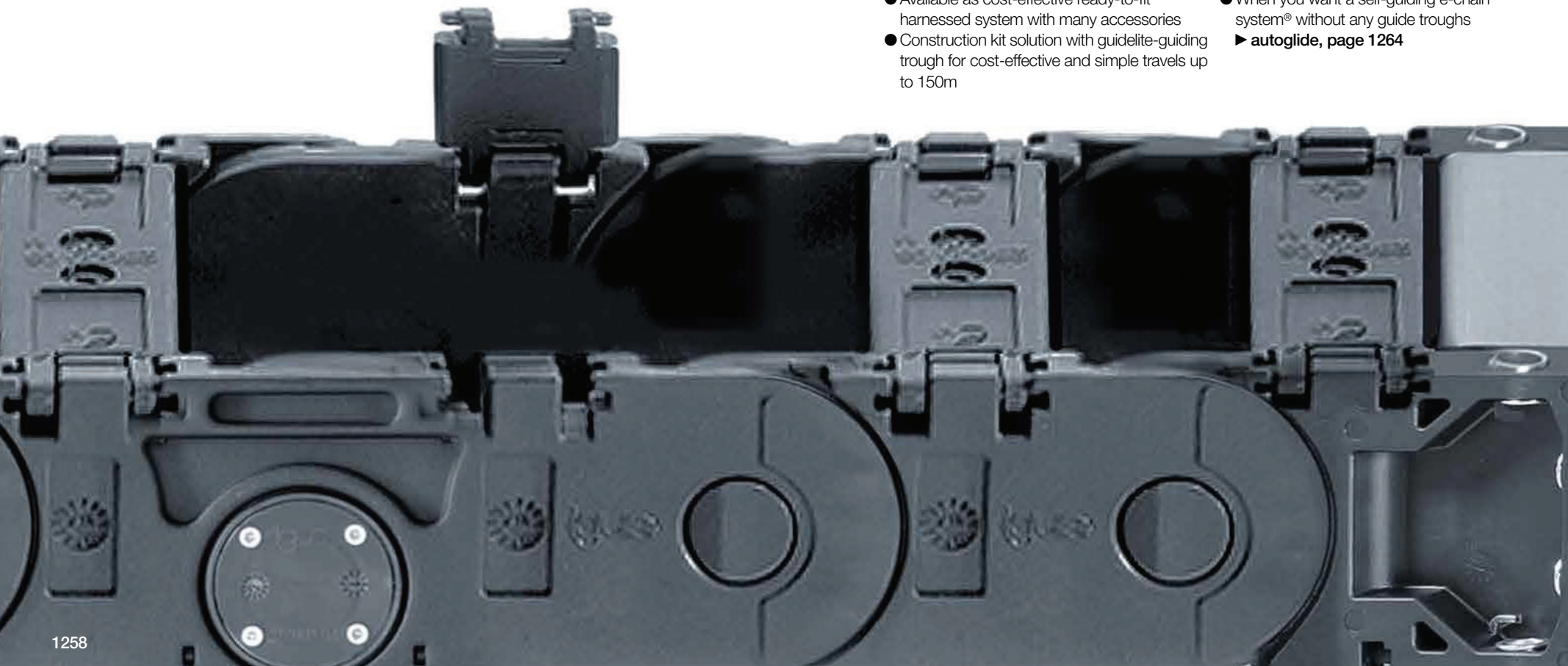
### Advantages E2/000 rol e-chain®:

- Required drive power is reduced up to 75% while increasing the service life of the e-chain®
- Low-noise operation as the rol e-chain® link has the same pitch as the standard e-chain® link
- Max. rolling speed up to 4m/s
- Available in 2 sizes
- Available as cost-effective ready-to-fit harnessed system with many accessories
- Construction kit solution with guidelite-guiding trough for cost-effective and simple travels up to 150m



### When to use another e-chain® series:

- For very high fill weights for long travels  
▶ **E4/4HD heavy-duty, page 1214**
- When you want a profile-rol e-chain® with which you can reduce energy consumption by up to 57%  
▶ **P4/P4.1 systems, page 1232**
- When you want a self-guiding e-chain system® without any guide troughs  
▶ **autoglide, page 1264**



Universal connection:  
many mounting options  
with or without strain relief

Fast filling:  
openable along  
the outer radius,  
from both sides

Rolling instead  
of gliding:  
the upper run rolls  
on the lower run  
of the e-chain®

Long service life:  
high-strength rollers,  
quiet design, stainless  
steel ball bearings

High strength:  
large pin/bore and crossbar  
with high locking force

Easy to assemble:  
fast opening and  
closing by hand

## Cost-effective, long travels - E2/000 rol e-chain®




The igus® rol e-chain® of the E2/000 series enables very cost-effective travel lengths up to 150m. As a result, the drive power needed is reduced by up to 75 % and the service life of the e-chain® is increased. The rol e-chain® of the E2/000 series is the perfect solution for travel lengths in simple environments, e.g. in greenhouses, etc.

- Economic, travel lengths up to 150m
- Low-noise operation as the rol e-chain® link has the same pitch as the standard e-chain® link
- Max. rolling speed up to 4m/s
- Available in 2 sizes
- Available as cost-effective ready-to-fit harnessed system
- Construction kit solution with guidelite-guiding trough for cost-effective and simple travels up to 150m

### Typical industries and applications

- Greenhouses ● Crane equipment ● Bulk-handling/material handling equipment ● Traversing systems ● Travel distances up to 150m ● Applications with low cycle numbers

### Technical data

 Speed rolling	≤ 4 [m/s]
Acceleration rolling	≤ 50 [m/s²]
 igumid G material, permitted temperature °C	-40°C / +120°C
 Flammability class, igumid G	VDE 0304 IIC UL94-HB

Series Part No.	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]	Travel ≤ [m]	Page
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E2/000 rol e-chains® -  
crossbars openable along the  
outer radius, from both sides

2700R	35	50 - 175	66 - 194	50	150	150	1262
3500R	45	50 - 250	70 - 270	64	125 - 200	150	1263

 Systems of this type should be designed in conjunction with our engineering team.  
Please contact us at ► [www.igus.eu/contact](http://www.igus.eu/contact)

 Available from stock. Ready to ship in 5 - 7 days\*  
\*Average time before the ordered goods are dispatched.

### Even more cost-effective: E2/000 rol e-chain® with guidelite guide trough as a construction kit solution

- Cost-effective travel lengths up to 150m
  - Construction kit system for long travels with low cycle duty
  - Lightweight, cost-effective and corrosion-resistant
- More information ► [www.igus.eu/guidelite](http://www.igus.eu/guidelite)



E2/000 rol e-chain® in a guidelite guide trough on an irrigation plant



Travel lengths up to 150m - energy-efficient and cost-effective



35

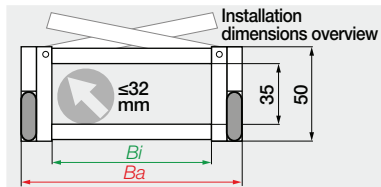


2700R

e-chains® | Series 2700R | Crossbars openable along the outer radius, from both sides

Available widths	Bi [mm]	Ba [mm]	R Available bend radii [mm]	2700R [kg/m]
2700R.05	50	66	150	≈ 1.17
2700R.06	65	81	150	≈ 1.24
2700R.07	75	91	150	≈ 1.30
2700R.09	90	106	150	≈ 1.37
2700R.10	100	116	150	≈ 1.39
2700R.12	125	141	150	≈ 1.48
2700R.15	150	166	150	≈ 1.62
2700R.17	175	194	150	≈ 1.85

This type of system should be designed in conjunction with our engineering team.



	Inner height e-chain® 35mm		Outer height e-chain® 50mm
	Pitch per e-chain® link 56mm		Max. cable diameter Max. ø 32mm
	Links per metre 18 pieces		18 links correspond to 1,008mm

## Mounting brackets



Pivoting KMA mounting bracket with attachment from any side



Plastic mounting brackets with strain relief options



Steel mounting brackets, pivoting, tough and electrically conductive



Cable-friendly interior separations available



Aluminium SuperTrough, basic version



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Travel lengths up to 150m - energy-efficient and cost-effective



45

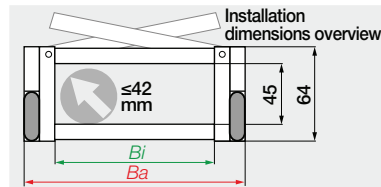


3500R

e-chains® | Series 3500R | Crossbars openable along the outer radius, from both sides

Available widths	Bi [mm]	Ba [mm]	R Available bend radii [mm]	3500R [kg/m]
3500R.050	50	70	125   150   200	≈ 1.60
3500R.075	75	95	125   150   200	≈ 1.78
3500R.100	100	120	125   150   200	≈ 1.93
3500R.115	115	135	125   150   200	≈ 1.99
3500R.125	125	145	125   150   200	≈ 2.03
3500R.150	150	170	125   150   200*	≈ 2.17
3500R.175	175	195	125   150   200	≈ 2.28
3500R.200	200	220	125   150   200	≈ 2.45
3500R.225	225	245	125   150   200	≈ 2.59
3500R.250	250	270	125   150   200	≈ 2.73

This type of system should be designed in conjunction with our engineering team. \*Radius available upon request.



	Inner height e-chain® 45mm		Outer height e-chain® 64mm
	Pitch per e-chain® link 67mm		Max. cable diameter Max. ø 42mm
	Links per metre 15 pieces		15 links correspond to 1,005mm

## Mounting brackets



Pivoting KMA mounting bracket with attachment from any side



Plastic mounting brackets with strain relief options



Steel mounting brackets, pivoting, tough and electrically conductive



Cable-friendly interior separations available



Aluminium SuperTrough, basic version



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