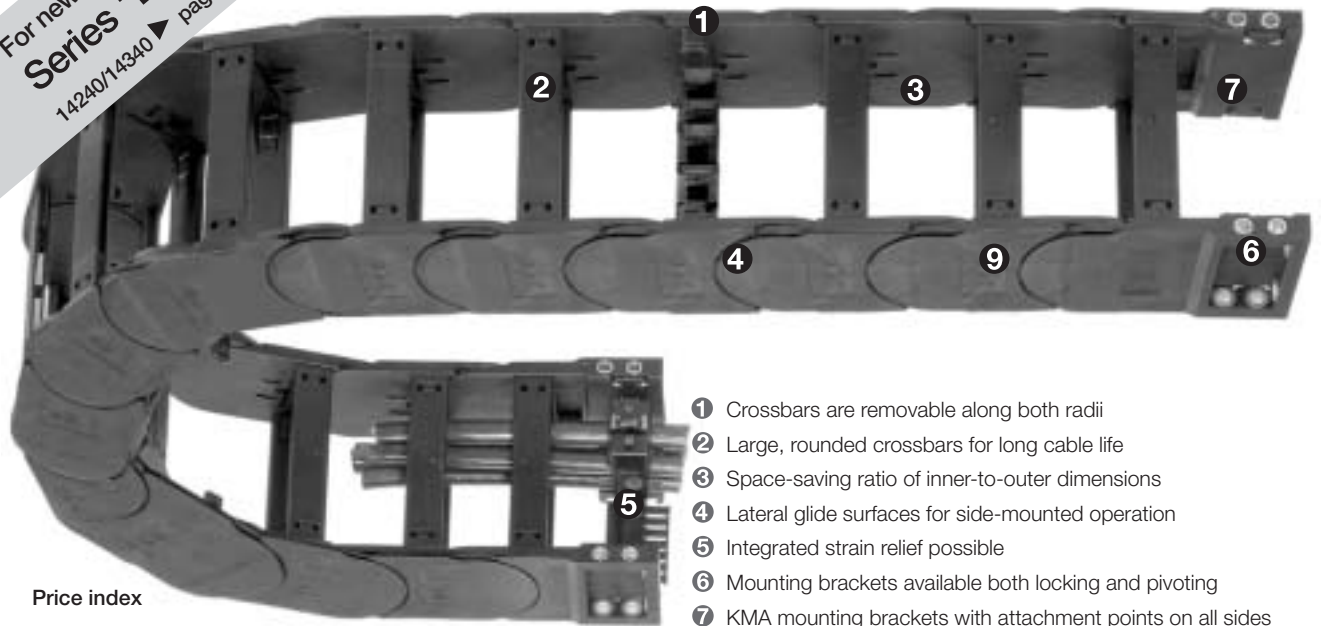


Series 142 · 143 "E4/light"

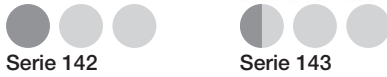
For new constructions:
Series "E4 light"
14240/14340 ▶ page 7.140

igus® E-ChainSystems®



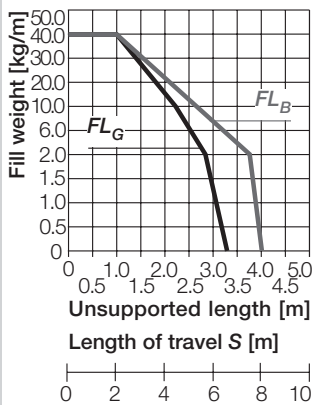
- ① Crossbars are removable along both radii
- ② Large, rounded crossbars for long cable life
- ③ Space-saving ratio of inner-to-outer dimensions
- ④ Lateral glide surfaces for side-mounted operation
- ⑤ Integrated strain relief possible
- ⑥ Mounting brackets available both locking and pivoting
- ⑦ KMA mounting brackets with attachment points on all sides

Price index



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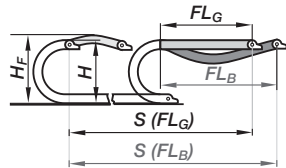
igus® GmbH
51147 Cologne



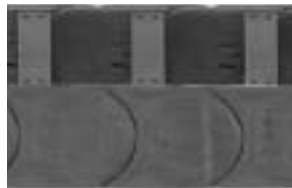
Unsupported length

FL_G = with straight upper run

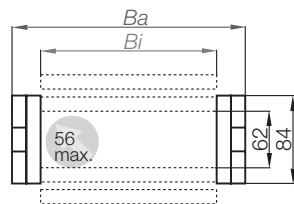
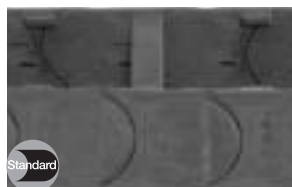
FL_B = with permitted sag



Series 142 crossbars every link



Series 143 crossbars every 2nd link



| Part No. | B_i [mm] | B_a [mm] | R [mm] Bending Radii |
|------------------|------------|------------|------------------------|
| 142/143.05. □.0 | 50 | 76 | 135 150 175 |
| 142/143.06. □.0 | 68 | 94 | 200 250 300 |
| 142/143.07. □.0 | 75 | 101 | 400 500 |
| 142/143.087. □.0 | 87 | 114 | Radii for all widths! |
| 142/143.10. □.0 | 100 | 126 | |
| 142/143.11. □.0 | 108 | 134 | |
| 142/143.112. □.0 | 112 | 139 | |
| 142/143.12. □.0 | 125 | 151 | |
| 142/143.137. □.0 | 137 | 164 | |
| 142/143.15. □.0 | 150 | 176 | |
| 142/143.162. □.0 | 162 | 189 | |
| 142/143.17. □.0 | 168 | 194 | |
| 142/143.18. □.0 | 175 | 201 | |
| 142/143.187. □.0 | 187 | 214 | |
| 142/143.20. □.0 | 200 | 226 | |
| 142/143.212. □.0 | 212 | 239 | |
| 142/143.23. □.0 | 225 | 251 | |
| 142/143.237. □.0 | 237 | 264 | |
| 142/143.25. □.0 | 250 | 276 | |
| 142/143.262. □.0 | 262 | 289 | |
| 142/143.28. □.0 | 275 | 301 | |
| 142/143.29. □.0 | 287 | 314 | |
| 142/143.30. □.0 | 300 | 326 | |
| 142/143.312. □.0 | 312 | 339 | |
| 142/143.325. □.0 | 325 | 351 | |
| 142/143.337. □.0 | 337 | 364 | |
| 142/143.350. □.0 | 350 | 376 | |
| 142/143.362. □.0 | 362 | 389 | |
| 142/143.375. □.0 | 375 | 401 | |
| 142/143.387. □.0 | 387 | 414 | |
| 142/143.400. □.0 | 400 | 426 | |

Part No. structure

142. 30. 300. 0

- Color black
- Bending radius
- Width
- Series



Order example 6,0 m complete E-Chain®

(indicate chain-lengths or number of links)

6,0 m (66 links) **Series 142.30.300.0**

+ 2 separators **417** assembled each 2nd link

+ 1 set mounting brackets with C-profile **1430.30.12.B.C**

Supplement Part No. with required radius. Example: **143.30.300.0**

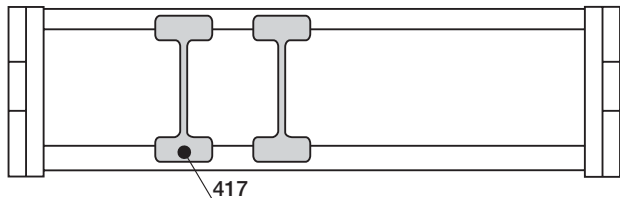
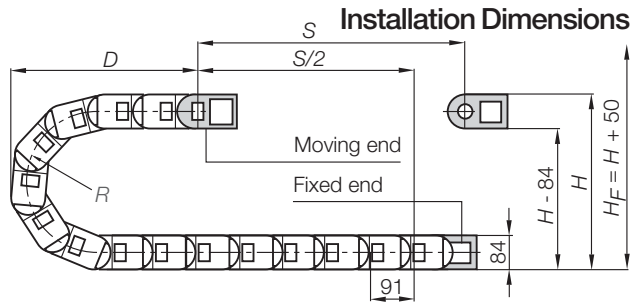
Bending radii listed above can be combined with every chain width!

Series 142 · 143 "E4/light"

Pitch = 91 mm Links per m = 11 Chain length = $S/2 + K$

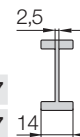
| | | | | | | | | |
|-------------|-----|-----|-----|-----|------|------|------|------|
| R | 135 | 150 | 175 | 200 | 250 | 300 | 400 | 500 |
| H+25 | 360 | 385 | 435 | 485 | 585 | 685 | 885 | 1085 |
| D | 270 | 285 | 310 | 335 | 385 | 435 | 535 | 635 |
| K | 650 | 750 | 825 | 900 | 1050 | 1225 | 1450 | 1775 |

The required clearance height is $H_F = H + 50$ mm (with 2,0 kg/m fill weight). Please consult igus® if space is particularly restricted.



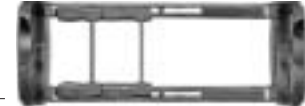
Vertical Separator

| | |
|-------------|-----|
| unassembled | 407 |
| assembled | 417 |



Interior Separation

(the complete range ▶ 7.140)

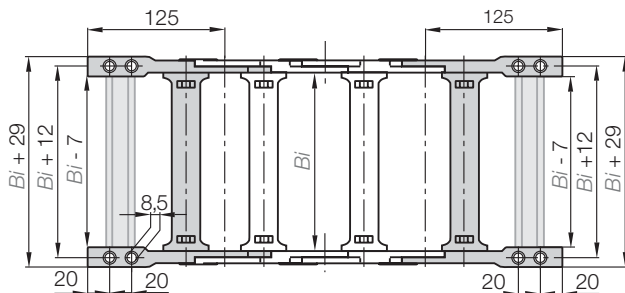


1430...1.B

Moving end

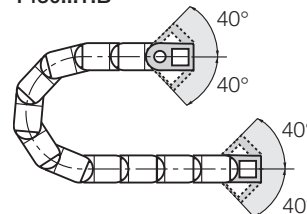
1430...2.B

Fixed end



Moving end (with bore)

1430...1.B



1430...2.B
Fixed end (with pin)

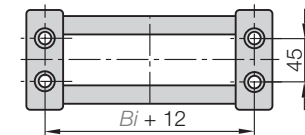
Mounting Brackets



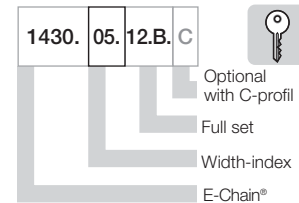
KMA pivoting - attachment with socket head cap bolt M8 DIN 912-8.8

| For E-Chain® | Part No. full set | Bi |
|--------------|-------------------------|------|
| width-index | optional with C-profile | [mm] |
| .05. | ▶ 1430.05 .12.B. C | 50 |
| .06. | ▶ 1430.06 .12.B. C | 68 |
| .07. | ▶ 1430.07 .12.B. C | 75 |
| .087. | ▶ 1430.087.12.B. C | 87 |
| .10. | ▶ 1430.10 .12.B. C | 100 |
| .11. | ▶ 1430.11 .12.B. C | 108 |
| .112. | ▶ 1430.112.12.B. C | 112 |
| .12. | ▶ 1430.12 .12.B. C | 125 |
| .137. | ▶ 1430.137.12.B. C | 137 |
| .15. | ▶ 1430.15 .12.B. C | 150 |
| .162. | ▶ 1430.162.12.B. C | 162 |
| .17. | ▶ 1430.17 .12.B. C | 168 |
| .18. | ▶ 1430.18 .12.B. C | 175 |
| .187. | ▶ 1430.187.12.B. C | 187 |
| .20. | ▶ 1430.20 .12.B. C | 200 |
| .212. | ▶ 1430.212.12.B. C | 212 |

| For E-Chain® | Part No. full set | Bi |
|--------------|-------------------------|------|
| width-index | optional with C-profile | [mm] |
| .23. | ▶ 1430.23 .12.B. C | 225 |
| .237. | ▶ 1430.237.12.B. C | 237 |
| .25. | ▶ 1430.25 .12.B. C | 250 |
| .262. | ▶ 1430.262.12.B. C | 262 |
| .28. | ▶ 1430.28 .12.B. C | 275 |
| .29. | ▶ 1430.29 .12.B. C | 287 |
| .30. | ▶ 1430.30 .12.B. C | 300 |
| .312. | ▶ 1430.312.12.B. C | 312 |
| .325. | ▶ 1430.325.12.B. C | 325 |
| .337. | ▶ 1430.337.12.B. C | 337 |
| .350. | ▶ 1430.350.12.B. C | 350 |
| .362. | ▶ 1430.362.12.B. C | 362 |
| .375. | ▶ 1430.375.12.B. C | 375 |
| .387. | ▶ 1430.387.12.B. C | 387 |
| .400. | ▶ 1430.400.12.B. C | 400 |



Part No. structure



Full set, for both ends:

1430.05. 12.B

Single-part order:

1430.05. 12.B

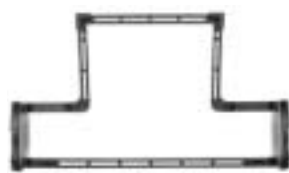
Mounting bracket with bore

1430.05. 12.B

Mounting bracket with pin



Various interior separation possible



Extender crossbars for large hoses



KMA mounting brackets, locking

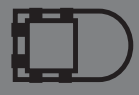
Additional Features

For more features ▶ see link below



E4/light
Inner height: 62 mm

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▶ chapter 9