



axles removable along the inner and outer radius)
crossbars removable along the inner and outer radius)
along the outer radius, from one side)

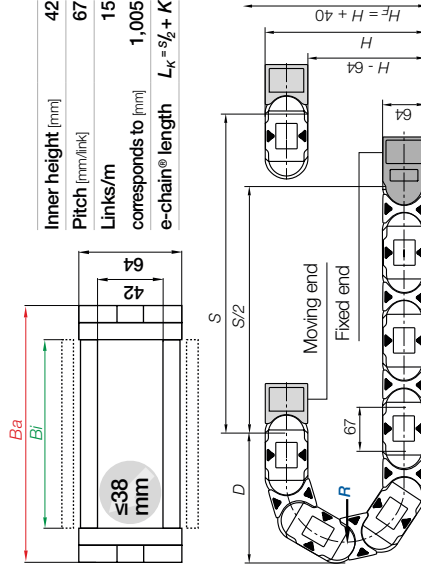
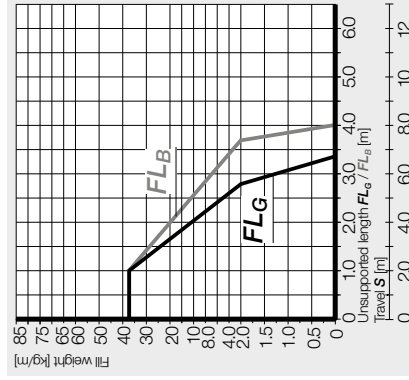


ik/H4.42 ► www.igus.co.uk/R4.42 igus

e-tubes	Bi	Ba	E4.42	H4.42	R4.42
	[mm]	[mm]	[kg/m]	[kg/m]	[kg/m]
42. 212.R.0	212	239	≈ 2.94	≈ 2.46	–
42. 23.R.0	225	251	≈ 3.02	≈ 2.51	–
42. 237.R.0	237	264	≈ 3.05	≈ 2.52	–
42. 25.R.0	250	276	≈ 3.16	≈ 2.58	≈ 5.44
42. 262.R.0	262	289	≈ 3.23	≈ 2.61	–
42. 28.R.0	275	301	≈ 3.29	≈ 2.64	–
42. 29.R.0	287	314	≈ 3.32	≈ 2.65	–
42. 30.R.0	300	326	≈ 3.42	≈ 2.71	≈ 6.09
42. 312.R.0	312	339	≈ 3.44	≈ 2.72	–
42. 325.R.0	325	351	≈ 3.53	≈ 2.76	–
42. 337.R.0	337	364	≈ 3.58	≈ 2.79	–
42. 350.R.0	350	376	≈ 3.77	≈ 2.88	–
42. 362.R.0	362	389	≈ 3.85	≈ 2.92	–
42. 375.R.0	375	402	≈ 3.91	≈ 2.95	–
42. 387.R.0	387	414	≈ 3.97	≈ 2.98	–
42. 400.R.0	400	426	≈ 4.02	≈ 3.01	–

(Radius) 100/500 and 160/450. More information ► From page 130

y 2nd link / R4.42.30.300.0 = fully enclosed

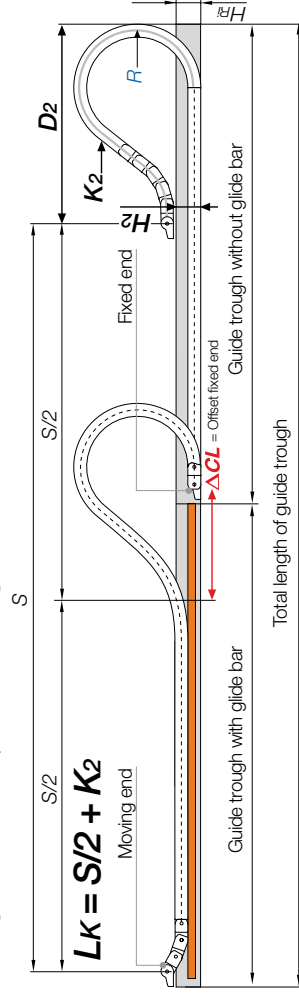


R	075*	100*	115*	125	150	160	175	200	250	300	350
H ₂₅	214	264	294	314	364	384	414	464	564	664	764
D	208	233	248	258	283	293	308	333	383	433	483
K	370	450	500	530	610	640	685	765	920	1,080	1,235

The required clearance height: $H_f = H + 40\text{mm}$ (with 3.0kg/m fill weight)

*Radius not available for e-tubes

Gliding applications | For travel lengths from 12m to max. 300m



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

In case of travels between 8 and 12m we recommend an e-chain® with a longer unsupported length.

R	075*	100*	115*	125	150	160	175	200	250	300	350
H ₂	150	186	186	186	186	186	186	186	186	186	186
D ₂₋₂₅	174	390	435	475	570	623	670	780	1,030	1,150	1,500
K ₂	370	603	737	804	938	1,072	1,139	1,340	1,675	1,943	2,412
ΔCL	–	170	200	230	300	380	380	460	660	730	1,030

*Radius not available for e-tubes

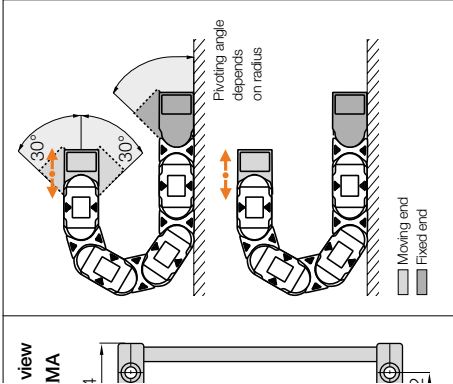
Rotating energy supply systems with Reverse Bend Radius (RBR) - some radii available from stock

- Maximum rotation angle in minimal installation space
- Minimal friction forces and maximum service life

More information and the complete product range ► From page 130



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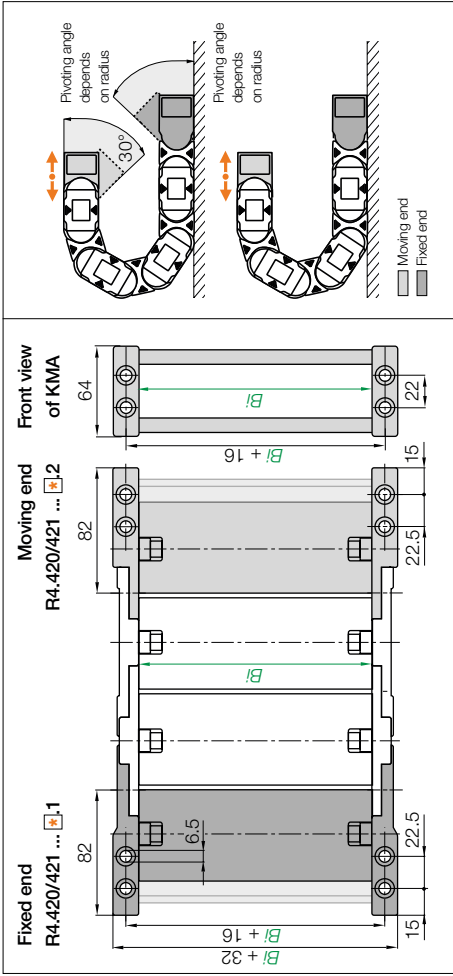
gliding applications and standing applications

Part No. full set	Part No. full set	BI
IMA pivoting	KMA locking	
4.420.212  12.C	E4.421.212  12.C	212
4.420.23  12.C	E4.421.23  12.C	225
4.420.237  12.C	E4.421.237  12.C	237
4.420.25  12.C	E4.421.25  12.C	250
4.420.262  12.C	E4.421.262  12.C	262
4.420.28  12.C	E4.421.28  12.C	275
4.420.29  12.C	E4.421.29  12.C	287
4.420.30  12.C	E4.421.30  12.C	300
4.420.312  12.C	E4.421.312  12.C	312
4.420.325  12.C	E4.421.325  12.C	325
4.420.337  12.C	E4.421.337  12.C	337
4.420.350  12.C	E4.421.350  12.C	350
4.420.362  12.C	E4.421.362  12.C	362
4.420.375  12.C	E4.421.375  12.C	375
4.420.387  12.C	E4.421.387  12.C	387
4.420.400  12.C	E4.421.400  12.C	400

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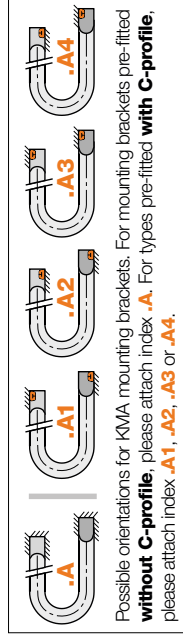
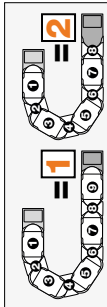


KMA pivoting	Recommended for unsupported and gliding applications
KMA locking	Recommended for vertical hanging and standing applications

	Width index	Part No. full set	<i>B_i</i> [mm]		Width index	Part No. full set	<i>B_i</i> [mm]
	05. ▲	R4420.05  12 C	R4421.05  12 C	KMA locking	12. ▲	R4420.12  12 C	R4421.12  12 C
	06. ▲	R4420.06  12 C	R4421.06  12 C	KMA pivoting	15. ▲	R4420.15  12 C	R4421.15  12 C
	07. ▲	R4420.07  12 C	R4421.07  12 C		17. ▲	R4420.17  12 C	R4421.17  12 C
	08. ▲	R4420.08  12 C	R4421.08  12 C		20. ▲	R4420.20  12 C	R4421.20  12 C
	10. ▲	R4420.10  12 C	R4421.10  12 C		25. ▲	R4420.25  12 C	R4421.25  12 C
	11. ▲	R4420.11  12 C	R4421.11  12 C		30. ▲	R4420.30  12 C	R4421.30  12 C

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

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.



Order example

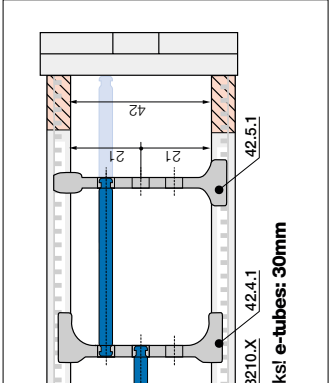
A... to indicate option with brackets pre-fixed

C-profile option

E4.4.20.30.212C.A2

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

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ard - for any application

or with a wide base for maximum holding force.

en faster installation

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

all cables

or with a narrow base for a large number of small
ide by side. Saves space.

le-mounted applications

etrical separator, for defined gap distance. No
al spacers required.

securely in preset increments

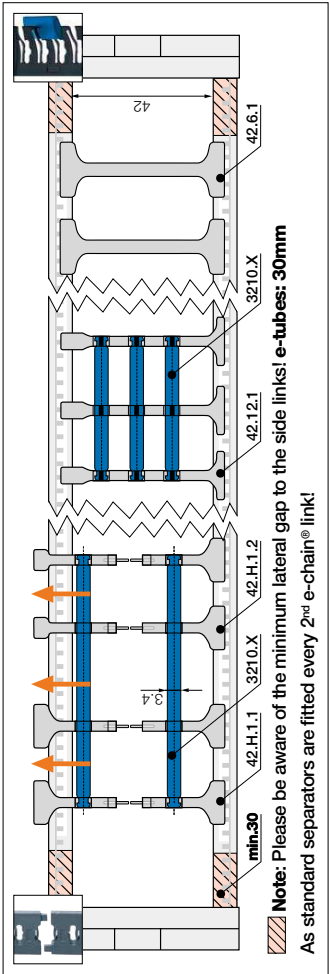
eparator for exact positioning. Recommended for
unted applications.

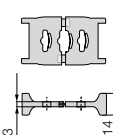
ntal separation

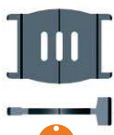
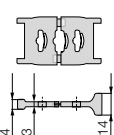
h shelf locks securely into separators at both ends,
ixed width. Can be used as full-width or partial shelf.

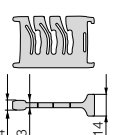
	assembled	X [mm]	unassembled	assembled
3210.125		225	3200.225	3210.225
3210.150		250	3200.250	3210.250
3210.175				
3210.200				

lk/H4.42 ► www.igus.co.uk/R4.42 **igus**



		Split separator, wide base/top unassembled 42.H.1 assembled 42.H.1.1
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		Split separator, narrow top unassembled 42.H.2 assembled 42.H.2.1
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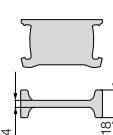
		Lean separator¹⁾ unassembled 42.12 assembled 42.12.1
--	---	--

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



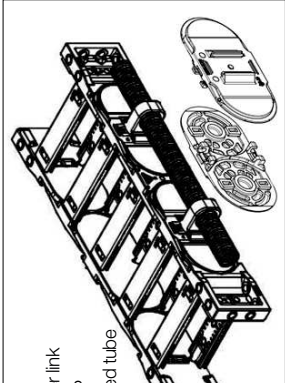
More interior separation options | Only for e-chains®

		Notch locking separator, lockable for e-chains® unassembled 42.6 assembled 42.6.1
--	---	--

Notch locking separator* for increased holding force

Notch locking separators offer higher crossbar opening
forces for high humidity and/or large hydraulic hoses. They
can be positioned precisely and then locked in position.

*Only suitable for e-chains®



to the e-chain®

chain®
widths 07, 10, 12, 17mm

1) Screws or tools
2) JP support and the hose are ordered separately

3	For corrugated tube nominal diameter	
	both ends*	Ø [mm]
JB.R.0		07 / 10 / 12 / 17
Example:		
s (R).		

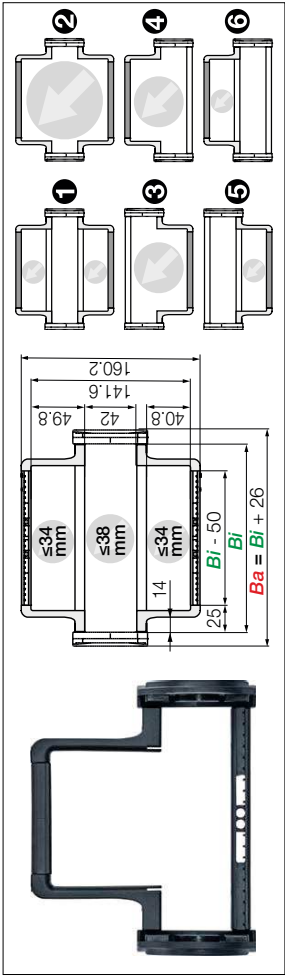
1 safety clip



PMAClip support - one-piece construction with safety clip, suitable for corrugated tubes

H	E	M
mm	mm	mm
13.5	40.5	M4
15.5	47.5	M5
16.5	54.5	M5
20.0	68.0	M6

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Extender crossbars with flexible width | Safe guiding for large hoses

- For guiding and protecting large hoses
- With mounting for noise dampers
- Cable-friendly design, high crossbar holding force
- The openable extender crossbars can be fitted in different ways and combinations
- Optionally openable along the inner or outer radius

Versions	Hose	Part No.	Part No.
e-chain® with extender crossbar	Ø s [mm]	crossbars every link	crossbars every 2 nd link
1) Extender crossbar and standard crossbar alternating along the inner and outer radius ¹⁾	34	E4.42.XXXHB50.R.0	–
2) Extender crossbar on both sides along the inner and outer radius ²⁾	130	E4.42.XXXB50.R.0	H4.42.XXXB50.R.0 ²⁾
3) Extender crossbar along the outer radius ³⁾	85	E4.42.XXXB50.R.0	H4.42.XXXB50.R.0 ²⁾
4) Extender crossbar along the inner radius ²⁾	85	E4.42.XXXBZ50.R.0	H4.42.XXXBZ50.R.0 ²⁾
5) Extender crossbar and standard crossbar alternating along the outer radius ³⁾	34	E4.42.XXXHB50.R.0	–
6) Extender crossbar and standard crossbar alternating along inner radius ¹⁾	34	E4.42.XXXHBZ50.R.0	–

1) Minimum bend radius: **R 125** 2) Minimum bend radius: **R 150** 3) Minimum bend radius: **R 075**

B [mm] Available inner widths

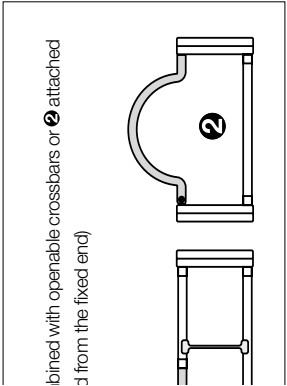
B [mm] 100 | 125 | 137 | 150 | 162 | 175 | 187 | 200 | 212 | 225 | 237 | 250 | 262 | 275 | 287 | 300 | 312 | 325 | 337 | 350 | 362 | 375 | 387 | 400 |

Part number with the width index **XXX** of the **B** and the radius **(R)** supplement e.g. E4.42.10B50.150.0 = **B** 100 / **e**-chain® with crossbars every link / extender crossbars from both sides along the inner and outer radius / bend radius **(R)** 150



The E4.1 can be fitted with openable extender crossbars, which increase the size of the interior of the e-chain®. Crossbars can be fitted in various ways: from one or both sides, alternating with standard crossbars and or any combination

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or large hoses

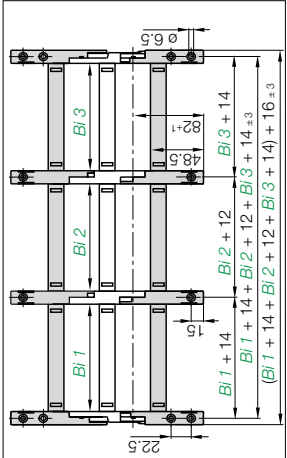
ssbars
nk

3 trough

2 Fitted to side link	1 Combine with operable crossbars
No	Yes
Yes	No

3, please add index **E**: E4.42.10/15RHD**E**115/10.**R.0**
3, please add index **Z**: E4.42.10/15RHD**Z**115/10.**R.0**

chain®, please add index **E**: E4.42.18RD**E**115.**R.0**
chain®, please add index **Z**: E4.42.18RD**Z**115.**R.0**

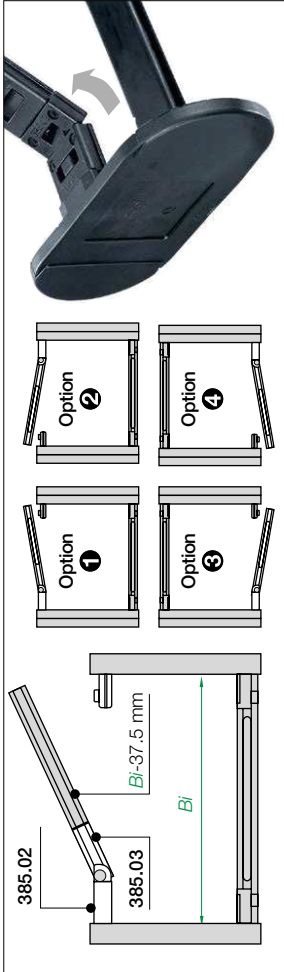


Extension links | For extremely wide e-chains® up to 3.0m

- Virtually unlimited side-by-side extension
- For extremely wide e-chains® up to 3000mm
- Unsupported length FL_g max. can be increased when heavy fill weights are required
- e-chains® and e-tubes can be combined
- Attached with KMA or steel mounting brackets

Part No.	Part No.	Part No.
Extension link e-chain®	Extension link e-tube	Extension link as an individual part
E4.42. Bi 1/ Bi 2/ Bi 3. R.0	R4.42. Bi 1/ Bi 2/ Bi 3. R.0	384. R.

Complete Part No. with the width index **Bi**1/**Bi**2/**Bi**3/*etc.* and the radius (**R**). Example: E4.42.10/20/10.200.0



Hinged crossbars | Swivel clip | Openable crossbar remains attached to the e-chain®

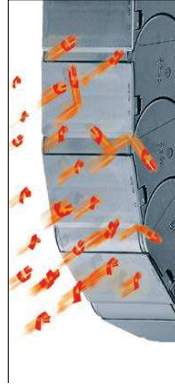
- When opening crossbars must remain attached to the e-chain®
- Hinged crossbars consist of a swivel clip and a shortened crossbar
- Openable crossbar (shortened): **Bi**1-37.5mm (smallest inner width **Bi**1 = 87.5)
- Please consult igus® for assistance with this product

Part No.	Part No.	Part No.
e-chain® with hinged crossbar	swivel clip as an individual part	crossbar as an individual part
E4.42. Bi 1/ Bi 2/ Bi 3. R.0	385.02	385.03

Complete Part No. with the width index **Bi**1, the index **Z** for the required option and the radius (**R**). Example: E4.42.137.1.200.0

ik/H4.42 ► www.igus.co.uk/R4.42 

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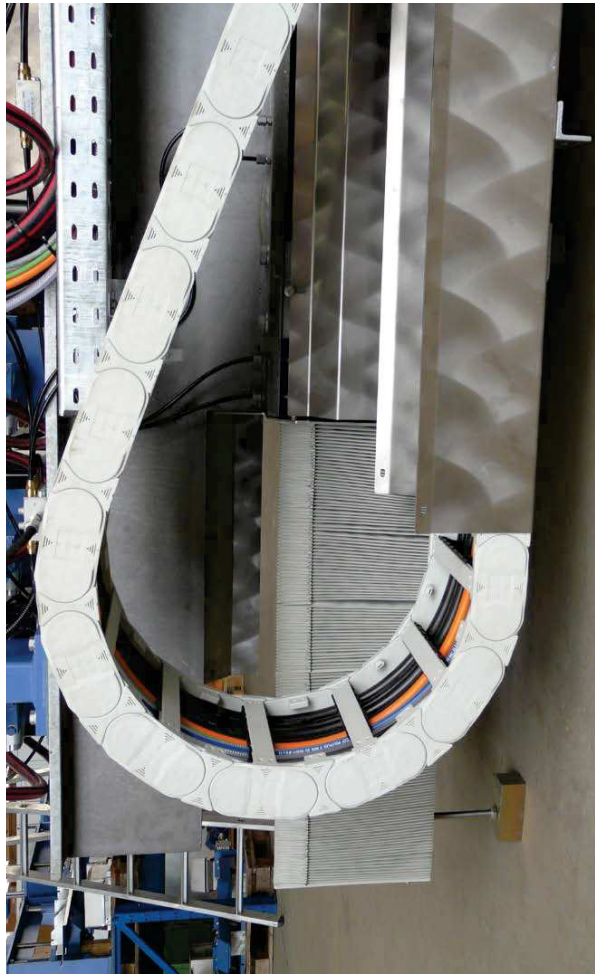


uses
contact



in

ik/H4.42 ► www.igus.co.uk/R4.42 **igus**



igus® e-chains® can even withstand the difficult conditions in stone processing facilities. The task of this e-chain® is to supply the tool carriage with energy (up to 100 A), signals, compressed air and water. It can travel up to 12m and achieves speeds of up to 32m/min.

Option: E4Q - the next generation of easy-to-assemble igus® e-chains®

The latest E4Q e-chains® generation combines proven design features of the 12-year old, robust E4.1 e-chains® standard with new bionic design elements and a novel opening mechanism. This gives the E4Q an even longer service life and significantly improved ease of installation.

- Opening and closing completely without tools
- Greater strength and longer unsupported lengths
- Lighter e-chain® links due to material saving
- Optional noise dampening - new system for noise reduction

More information ► From page 580

New



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