

page 1 of 6	Test No.: 2737
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Client:

Name: T.Jaeker	Team: R&D	Date: 23.08.07	Result:
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Order-Info:

Customer/ No.: igus	
Series / No: P4.56R.25.200.0	Installation type: long travel, rolling
Goal: Function Test in 120m outdoor test (crane simulation)	

Technical data	Series data								
Length [links] or [m]: 65m	Mat.-No.: 18/47								
Additional load [kg/m]: 8	Prod.-date:								
Chain weight [kg/m]:	Origin: <input type="checkbox"/> Stock <input type="checkbox"/> Production <input type="checkbox"/> Customer								
Temperature [°C]: outdoor	- Other:								
a acceleration [m/sec ²):	tempered <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes								
Mounting brackets: Metal brackets	conditioned <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes								
Filling (Sketch-No.):	- moisture absorption [%]								
<table border="1"> <thead> <tr> <th>Cycles</th> <th>v Speed [m/s]</th> </tr> </thead> <tbody> <tr> <td></td> <td>Up to 5,5m/s</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Cycles	v Speed [m/s]		Up to 5,5m/s					Remark: Moving end: 240mm – 260mm mounting height
Cycles	v Speed [m/s]								
	Up to 5,5m/s								

Experimental setup (Sketch, Photo ...)

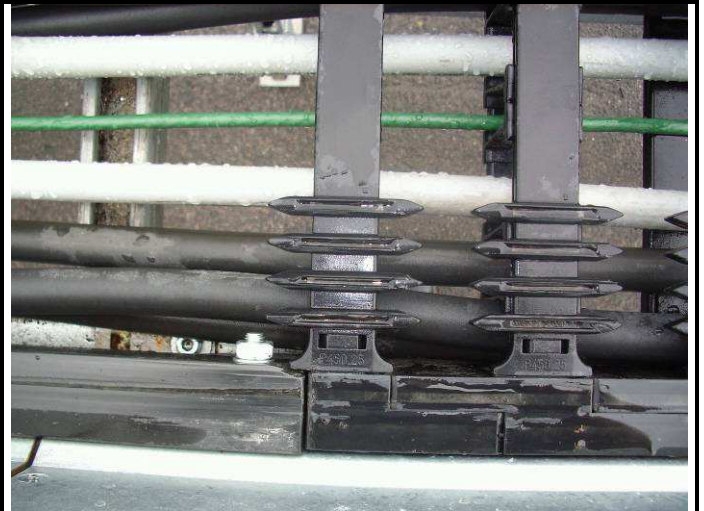
P4.56R.25.200.0.(AG)
 Double roller link → 6 links → double roller link → 6 links







30.10.2007:
21.462 strokes = 2.360,82 km.
Visible wear at the rollers and the Autoglide crossbars







Investigational procedure

From: 03.09.2007

To: 19.05.10

Examiner:

Result

**Very smooth rolling. No shocks from roller-over-roller.
After 2.360 km travel the chain system is in good condition.
In week 36/08 we changed the crossbars to inner width 200mm**

Interim report 19.09.08:

~15.000km v= up to 4m/s (depending on weather)
the chain system is still in good condition

End report 19.05.09:

~25.000km v= up to 4m/s (depending on weather)
the chain system is still in good condition. Partial we had added some 100kg weights onto the chain to simulate longer travels or higher additional loads. In this sections we have clearly wear signs, which won't effect the system function. So we can say that the autoglide-crossbars are still holding the e-chain in line.

Report: Sheets

Evaluation

E-chain is ok for outdoor applications. Snow-cover is recommended.

Name: *A. Pies*

Date: 02.03.10