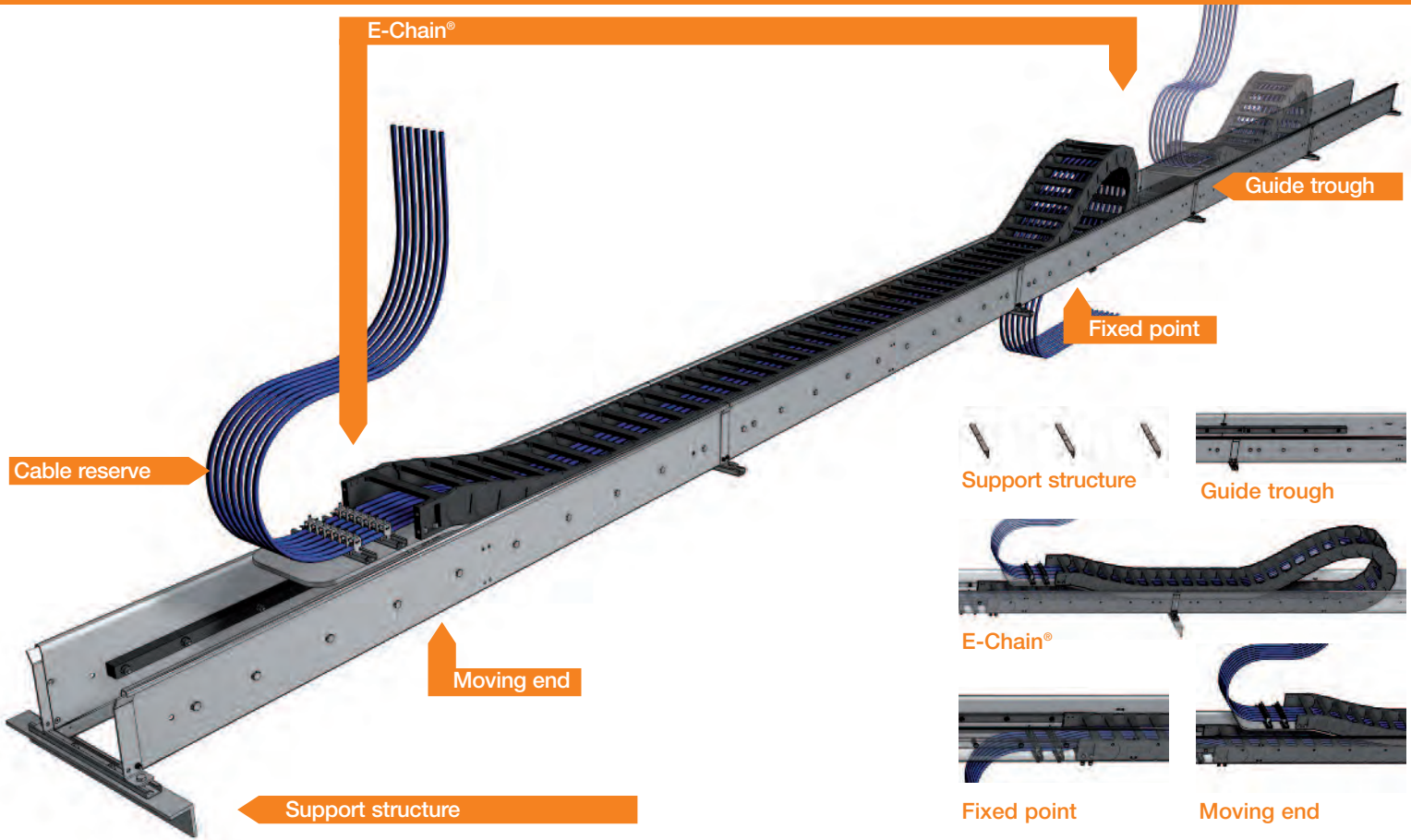
Installation Guide

igus®
plastics for longer life®



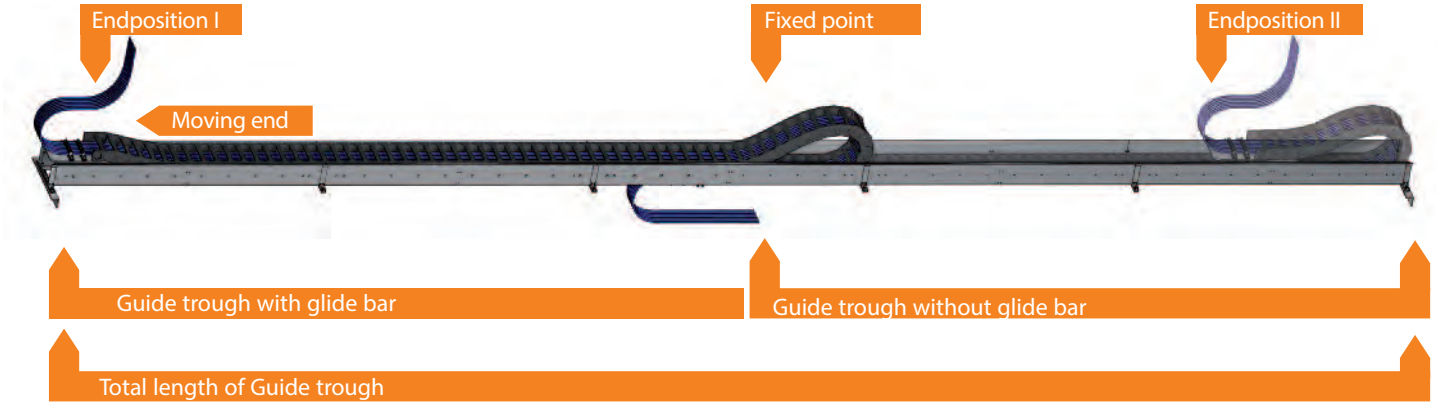
Support structure

Guide trough

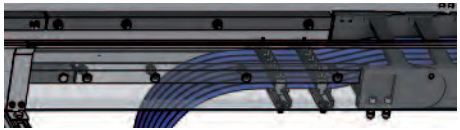
E-Chain®

Fixed point

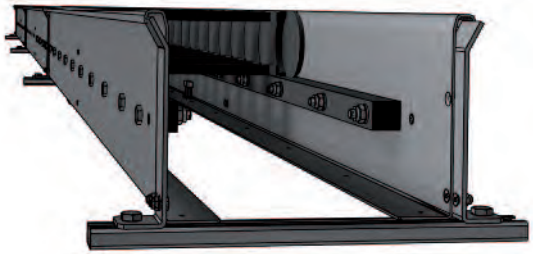
Moving end



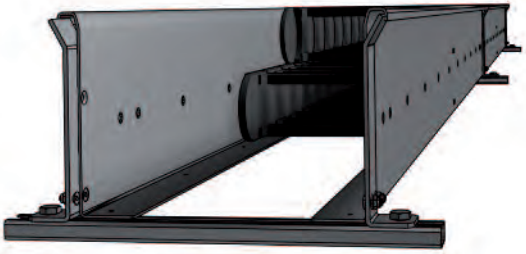
Fixed point



Guide trough with glide bar

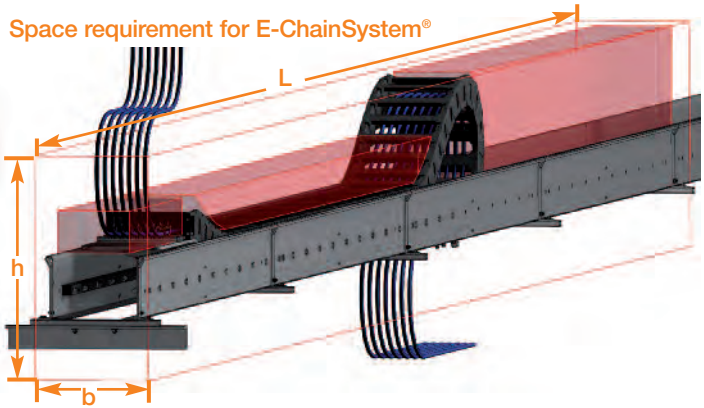


Guide trough without glide bar

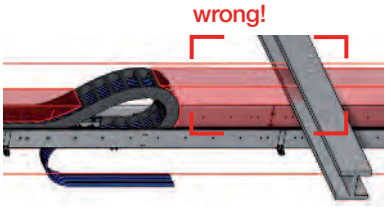


Check Installation Space

Space requirement for E-ChainSystem®

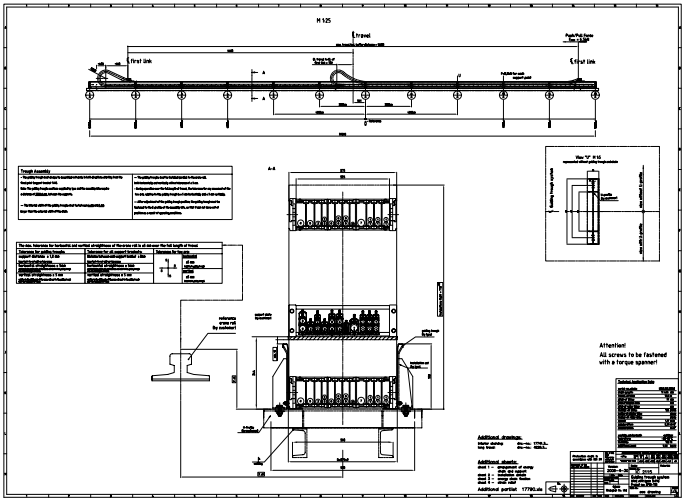


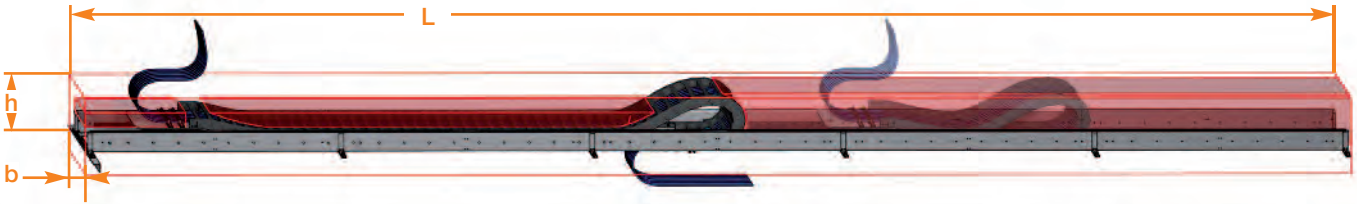
E-Chain® has to be free movable along the entire travel length. Other obstacles or crane parts must not disturb operation area!



Use igus® System Drawings

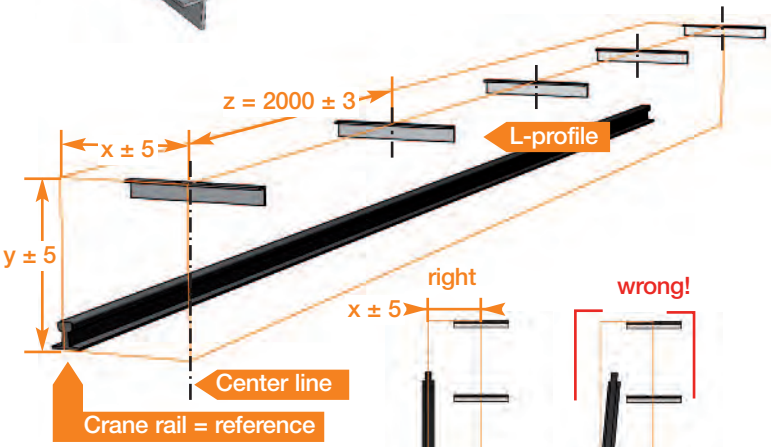
Installation has to be done according to igus® system drawings



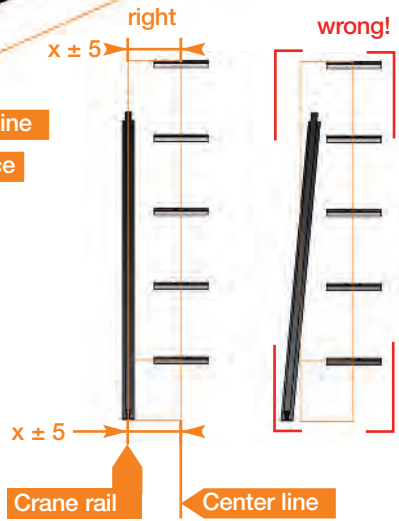


Support Structure for Guiding Trough

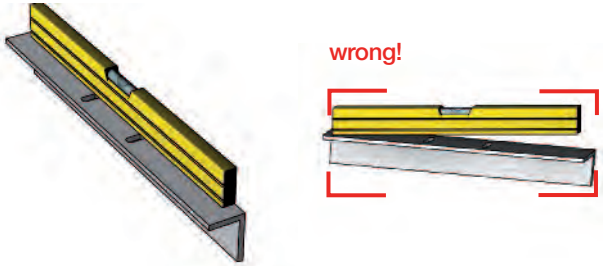
L-Profile
oblong hole
drillpattern c-profile



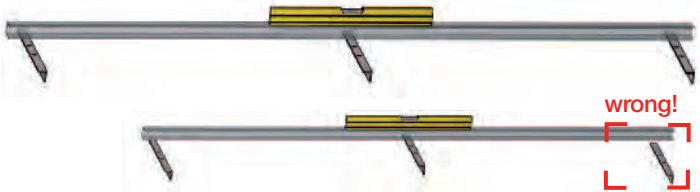
Crane rail and support structure have to be aligned.



Support structure has to be aligned and level



Level the support structure

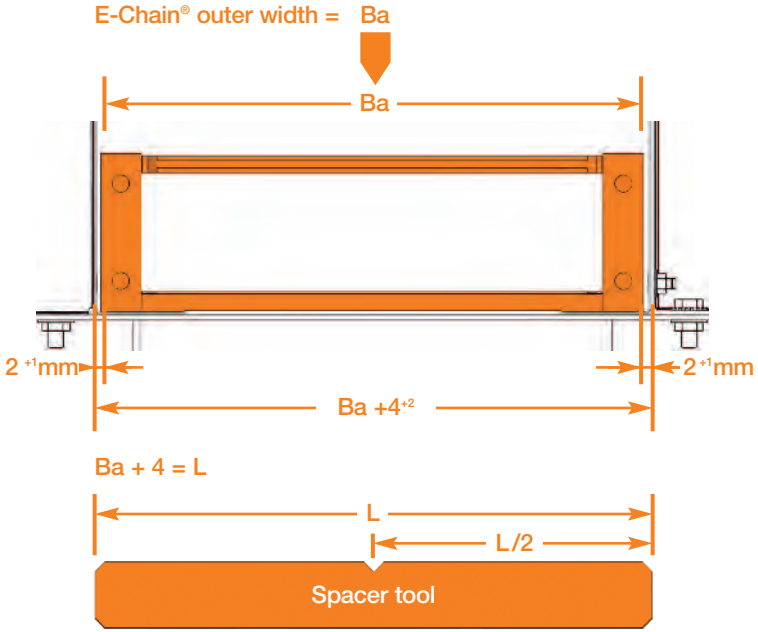


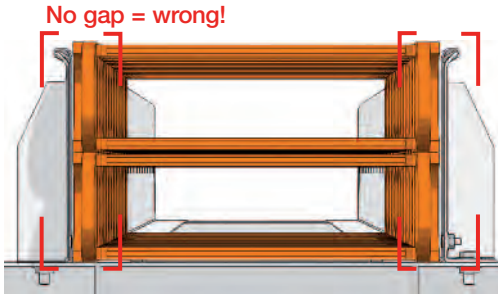
Level the L-profile

Check support strukture before trough installation. Necessary reworks to be corrected before next installation step.

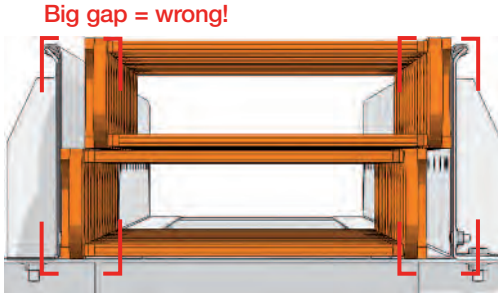
Guiding Trough Installation

Prepare a spacer tool, to adjust the inner trough width.





No gap = wear on chain links. E-Chain® is blocked.



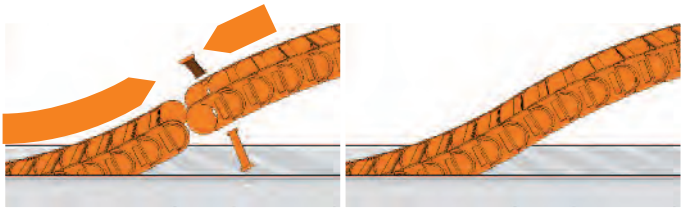
Big gap = wear on chain links and cross bar.

E-Chain® Pre-Assembly

Check part no. on E-Chain®, before assembly.
For example: 5050C- 4040C- Series

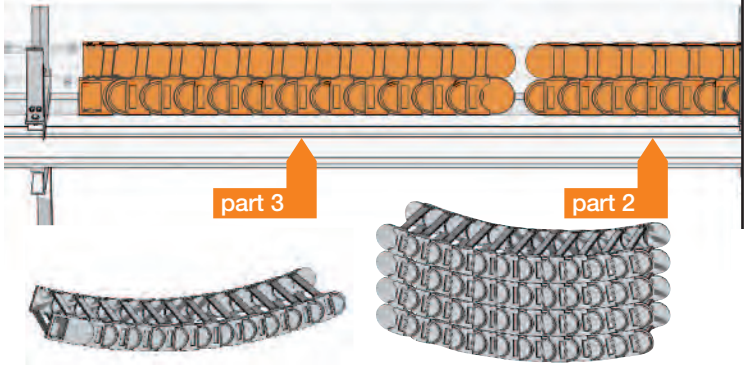
Chain s number 5050C.30.300.0

5050C	Series Number
30	Width
300	Radius of chain
0	Colour



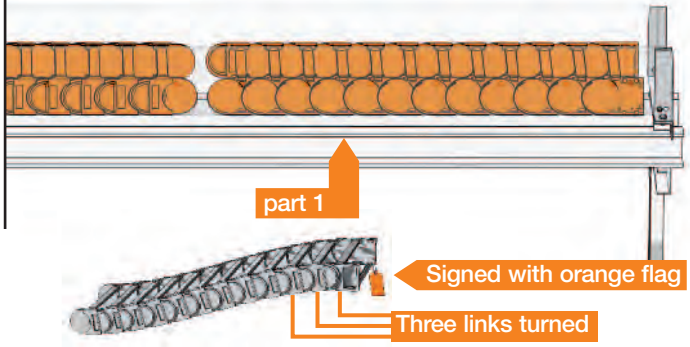
E-Chain® assembly

Lay the fixed point (part 3) into the trough and assemble part 2 until you reach the mounting end.



Fixed point (KMA+ 11.Links)

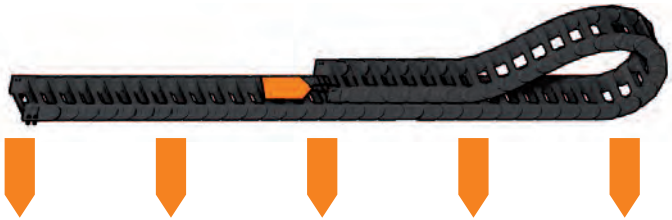
E-Chain® parts (11links each)



Moving end (rest length + KMA)

E-Chain® Pre-Assembly

Make sure that fixed point position is according to igus® drawings, relative to the travel stroke.
Lay thee preassembled E-Chain® into the guiding tough.



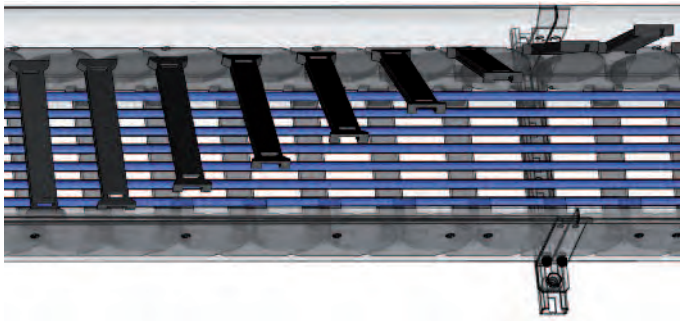
Check fixed point position relative to the travel stroke.

Pull Cables Into E-Chain®

Cable arrangement has to be according to igus® interior shelving drawing

Possible instalation:
Pull cables into E-Chain®

Alternative instalation:
Open the crossbars, lay the cables in the E-Chain® and close it.



Possible faults:
Corkscrew or
Cable damage

wrong!

right

wrong!

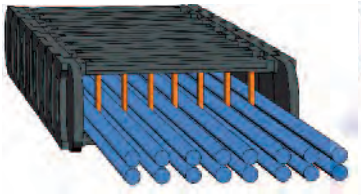
All crossbars snapped in? Any broken parts?

right

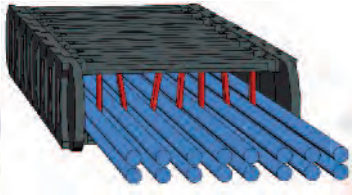
wrong!

Check the interior separation of E-Chain®.
All seperators plumb and tight?

right

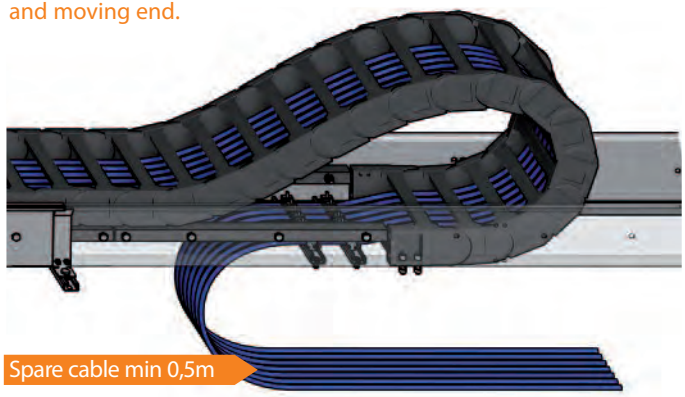


wrong!

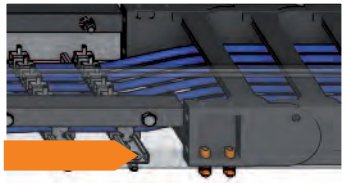


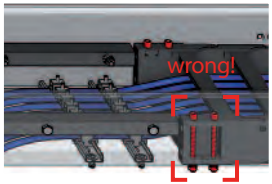
Attach E-Chain ®

Leave a spare cable loop for cable adjustment at fixed point and moving end.



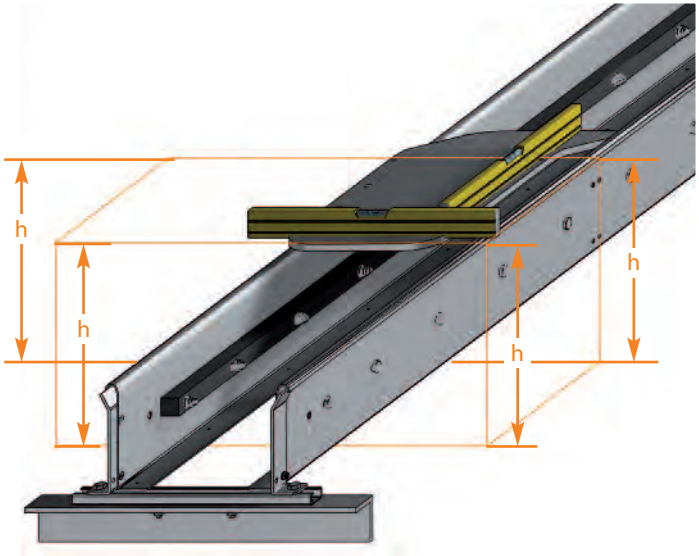
Make shure that fixed point is at correct position and fix it with allan screws (DIN 912 / EN ISO 7462).





Level Moving End

Moving end has to be installed according to system drawing.
Support plate has to be in level!
Height according to drawing.

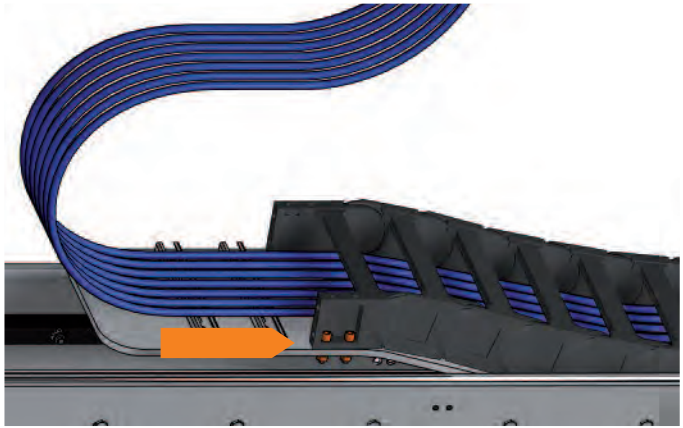


for E4.80/ 5050C h= 242mm +10

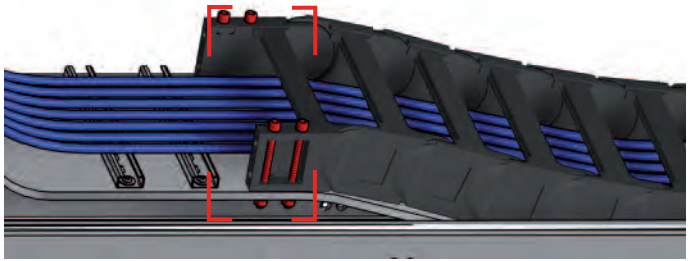
for E4.56/ 4040C/400 h= 266mm +10

Installl Moving End

Flip chain radius, move it to the moving arm and fix it with allan screws (DIN 912 / EN ISO 7462).

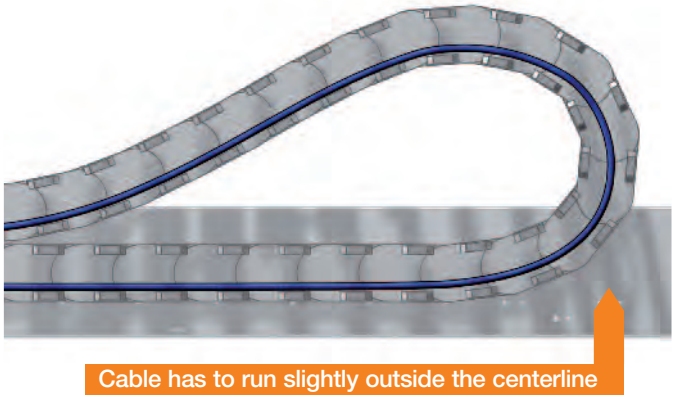


wrong!

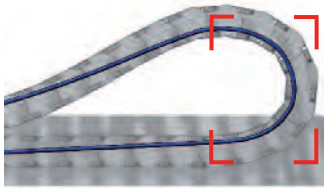


Adjust Cables

Correct cable adjustment

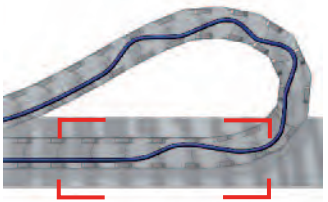


wrong!



Cable too tight

wrong!

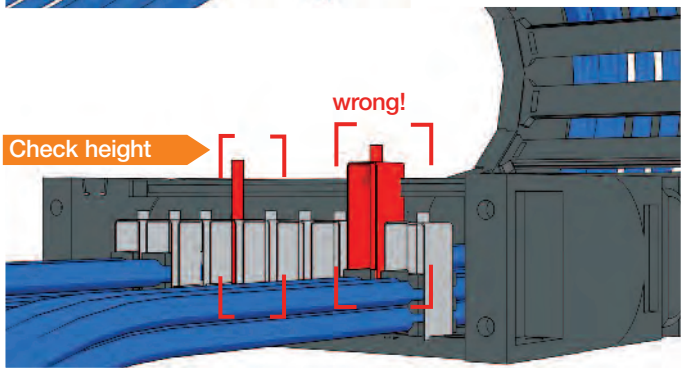


Cable too loose

Install Strain Relief

Install strain relief clambs at moving end and fixed point.

Swing strain relief clamps in the c-rail and theighten the screw.

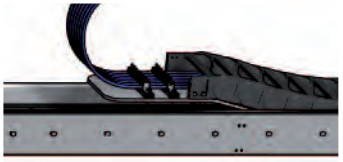


Move the E-Chain® slow and carefull to both end positions and check cable arrangement. Doublecheck after a few test cycles.

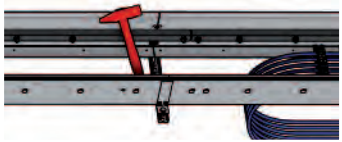
Check Installation Before First Movement

All screws in place and fixed with toque spanner

Moving end height and E-Chain® fixation OK?

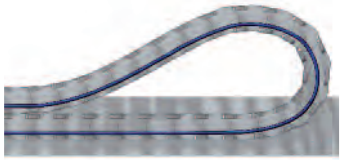


Any obstacles / tools in the guiding trough?



All strain relief clamps installed

Cable arrangement OK?



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