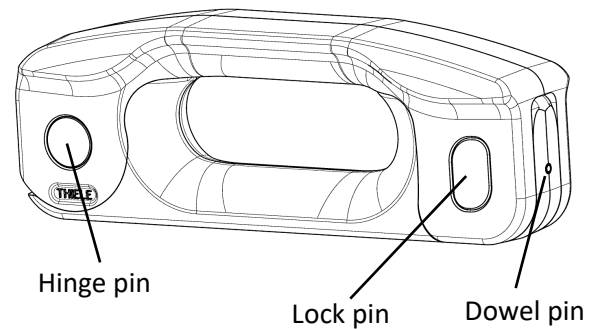


1 PRODUCT DESCRIPTION

The patented block-connectors of the Blockchampion BIONIC are exclusively intended for connecting round steel, flat and special chains in conveyor systems, primarily in mining.

Due to their design as block-connectors, they may only run vertically over chain wheels.

The block-connectors consist of an upper and a lower forged lock half, which are connected with a round hinge pin and a lock pin with complex geometry.



The lower half of the block-connector takes the end links of the chain strands to be connected. The upper half of the block-connector has a widening that cannot enter the slot of the sprockets. Therefore, the block-connector must be installed in such a way that the upper half is directed radially outwards when moving across chain sprockets.

The two block-connector halves are captively connected to each other by the pressed-in hinge pin. The hinge pin allows the upper block-connector half to be opened in relation to the lower block-connector half in order to mount the respective end links of the chain strands to be connected.

The lock pin is secured against unintentional loosening by a dowel pin.

2 SAFETY NOTES

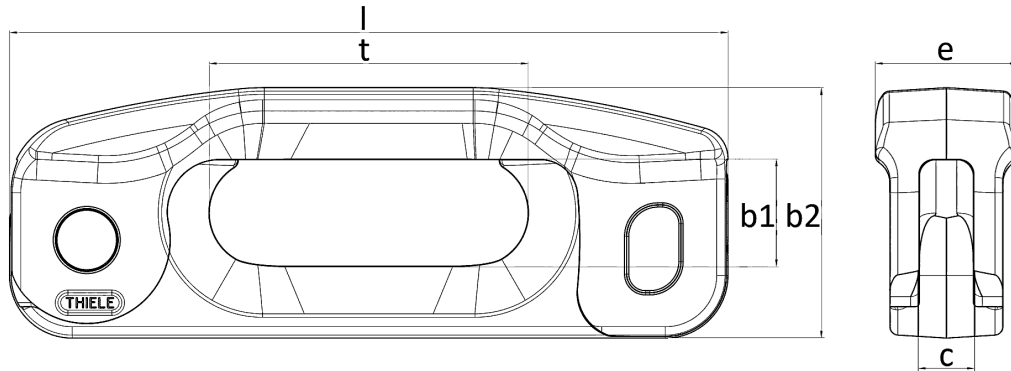
- Work on conveyor chain systems and associated components may only be carried out by trained and qualified persons.
- Only carry out assembly and disassembly work with the conveyor switched off and secured against unintentional start-up!
- Wear your personal protective equipment for all work with block-connectors.
- **CAUTION - CRUSHING HAZARD!**



When assembling or disassembling, there is a risk of crushing when chain parts are lifted or the block-connector is open, if gripped components slip out of your hand. Therefore, grasp the components as firmly as possible and only from above. Avoid reaching under components.

- The local safety regulations must be observed. Observe the operating instructions of the associated conveyor system and connected systems.
- Working under the influence of drugs or alcohol (including residual alcohol) as well as medication that impairs the senses is strictly prohibited.

3 TECHNICAL DATA



Nominal chain size ¹⁾ d x t [mm]	Chain type	Article no.	Dimensions					Operating force	Breaking force	Mass
			b1 min [mm]	b2 max [mm]	c max [mm]	e [mm]	l max [mm]	FB max [kN]	BF min ²⁾ [kN]	
38 x 137	Flat chain /DUALINK	F263430	41	110,0	40,0	50,0	321	1 130	1 820	7,6
42 x 146	Flat chain/ S-Flat chain/ DUALINK	F263540	45	110,0	46,0	57,0	341	1 380	2 350	9,0
48 x 152	Flat chain/DUALINK	F263640	50	121,8	56,0	68,0	345	1 810	2 900	12,2
48 x 152	S-Flat chain	F263642	50	116,4	56,0	68,0	345	1 810	2 900	12,1
52 x 152	BIG-T	F263720	57	122,9	66,1	93,1	378	2 120	3 700	16,6
52 x 170	S-Flat chain	F263730	55	126,0	62,0	75,9	387	2 120	3 400	15,6
56 x 187	S-Flat chain	F263790	61	132,0	65,0	82,0	433	2 460	3 940	19,6
60 x 181	S-Flat chain	F263850	65	137,0	71,7	85,0	435	2 820	4 520	23,1

¹⁾ d = nominal diameter, t = nominal pitch

²⁾ for surface condition self-coloured (NSW)

Operating temperature range: +10 °C to +80 °C

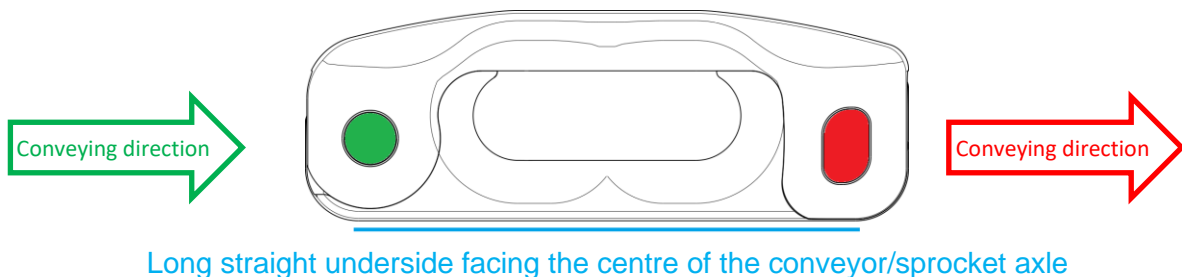
4 COMMISSIONING

Prior to using the components for the first time make sure that

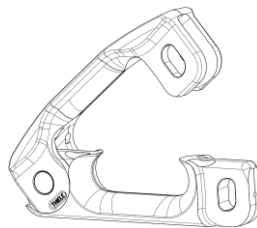
- the components comply with the order and have not been damaged,
- test certificate and operating instructions are at hand,
- markings correspond with what is specified in the documentation,
- documentations are safely kept in an orderly manner.

5 ASSEMBLY

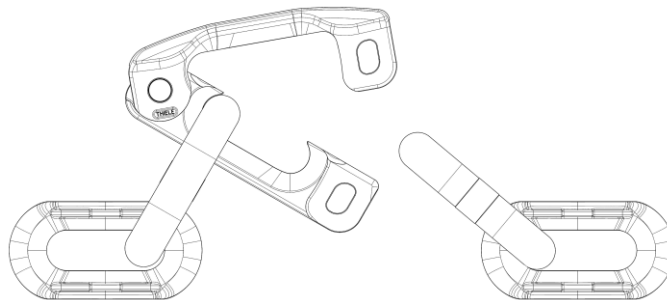
Observe the installation position:



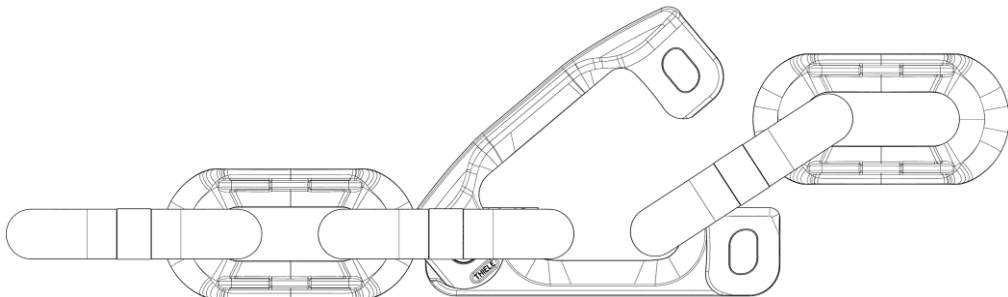
1. Make sure that the dowel pin and lock pin are removed from the block-connector.
2. Grasp the top of the block-connector and open it.



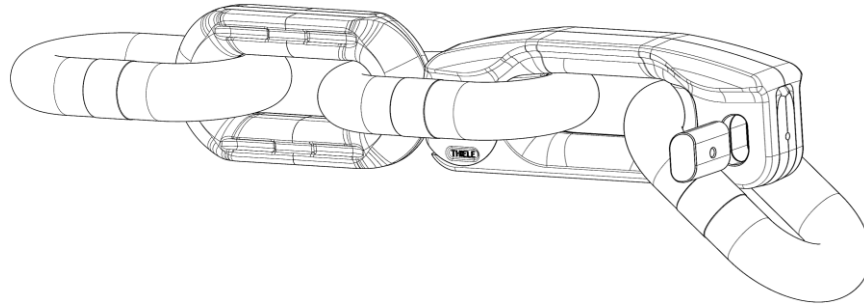
3. Insert the block-connector into the last horizontal chain link of the first chain strand as shown. To do this, lift the last chain link slightly.



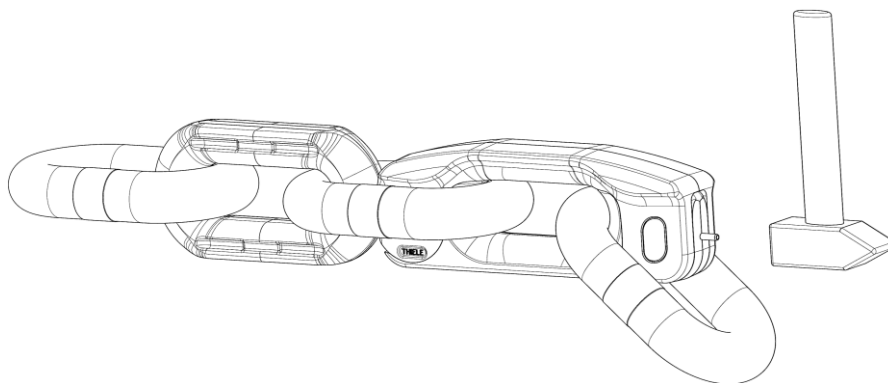
4. Position the first chain strand as shown.
5. Now lift the second chain strand opposite the block-connector and insert the last horizontal chain link of this strand into the block-connector as shown.



6. Now close the upper part and interlock the block-connector with the second chain strand so that you can insert the lock pin flush.



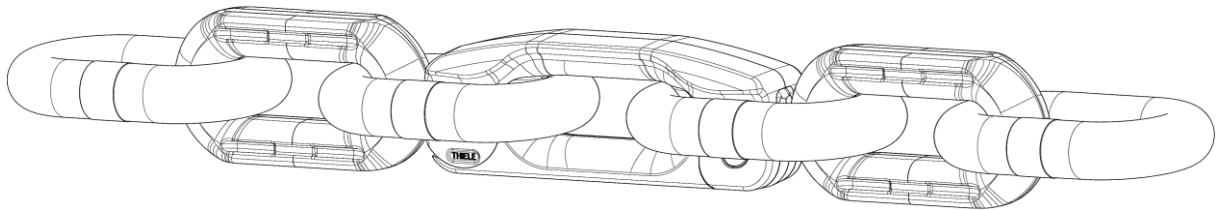
7. Use a hammer to drive the dowel pin flush into the front of the block-connector, thereby securing the locking bolt.



Check that the lock pin is secured.

Note that the dowel pin is suitable for one-time use only and must be replaced when reassembled.

8. Position the components in such a way that there is no risk of distortion when tensioning the chain strand. Observe this.



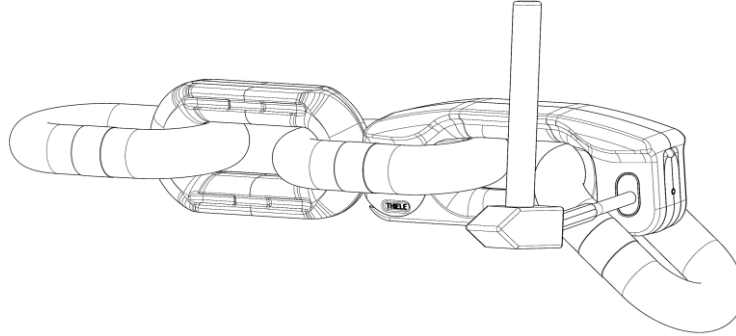
9. Remove tools and foreign objects and carry out a test run without loading.

Pay attention to unusual noises and movements of the chain in the area of the block-connector. Only allow regular operation after a fault-free test run.

6 DIASSEMBLY

If you do not destroy the block-connector, e.g. by sawing, proceed as follows:

1. Unload the chain strand concerned and interlock the chain strand lying on the side of the lock pin opposite the block-connector, so that the lock pin is free on the side.
2. Drive out the lock pin with very strong hammer blows so that the dowel pin breaks.



3. Open the block-connector by swinging the upper part upwards.
First remove the chain link of the first strand facing the locking pin and then thread the block-connector out of the chain link of the second chain strand.
4. If reusing, remove remnants of the dowel pin from the lower part and the lock pin.

7 STORAGE

Store block-connectors in a dry place at temperatures between +5 °C and +40 °C.

8 REPLACEMENT

The block-connectors must be replaced if the following criteria are met:

- notches or cracks
- increase of the pitch by more than 3 %.
- reduction of the leg thickness by more than 15 %

9 ENVIRONMENT AND DISPOSAL

Dispose of packaging in an environmentally responsible manner in accordance with local regulations.

Dispose of discarded steel components and accessories for scrapping in accordance with local regulations.

10 SPARE PARTS

Only use original THIELE spare parts.

Nominal chain size d x t [mm]	Dowel pin		Lock pin	
	ISO 8752 [mm]	Article no.	Dimensions [mm]	Article no.
38 x 137	5 x 30	Z00462	33 x 22 x 39	H263472
42 x 146	6 x 35	Z07862	45 x 39 x 26,3	H263542
48 x 152	6 x 35	Z07862	53,5 x 43 x 27	H263642
52 x 152	6 x 35	Z07862	64 x 45 x 28	H263722
52 x 170	6 x 35	Z07862	60 x 45 x 28	H263732
56 x 187	6 x 50	Z00084	64 x 52 x 35	H263792
60 x 181	6 x 50	Z00084	32,45 x 52,45 x 69,5	F2638522

11 THIELE OPERATING AND MOUNTING INSTRUCTIONS

Latest operating and assembly instructions are available as a PDF download on the THIELE homepage.



12 IMPRINT

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