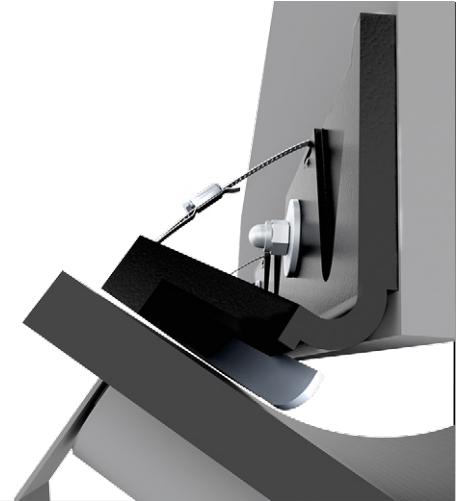


AIRSCRAPE®

Contact Free Conveyor Belt Skirting



INSTALLATION GUIDE



Important Safety Information:

This guide helps you to operate AirScrape in a safe and effective way.

Familiarise yourself with the contents of this guide before you install the product and start using it.

Pay particular attention to the warning instructions given in this guide. Failure to observe these instructions entail the risk of serious injury and damage.

Do not attempt to commission the device if you do not understand the instructions provided.

Inform your supervisor or safety officer.

To avoid damage and injuries, the Contact Free Conveyor Belt Skirting “**AirScrape**” may be used for its intended purpose only to avoid damage and injuries.

All necessary measurements must be implemented by trained personnel only. The owner is responsible for compliance with applicable regulations and provisions at the location of use.

Before installation, please ensure that the following requirements are met:

1. Professional configuration of the device in line with its use
2. Installation of the device in line with the assembly and operational manual
3. Operation of the device in the scope of the approved conditions of use
4. Regular visual checks in line with the manufacturer's instructions

Intended use**General use**

AirScrape is a Contact Free Conveyor Belt Skirting system which hovers freely above the conveyor belt, eliminating skirt friction and belt damage. Its unique array of inward facing hardened steel diagonal blades, deflects larger particles inwards while using the airflow of the conveyor belt and conveyed material to create an inward suction, sucking or drawing any dust and fine particles back into the product flow.

Component modification

Modifications of components and deviating configurations, installations, operations and maintenance are subject to written approval of **Niederholz**. Failure to observe these instructions could lead to increased risk of injury and damage.

Warning instructions

- During operation, unpredictable belt movements may occur, with a danger of crushing. Owners must take appropriate safety measures (safety guards, warning notice).

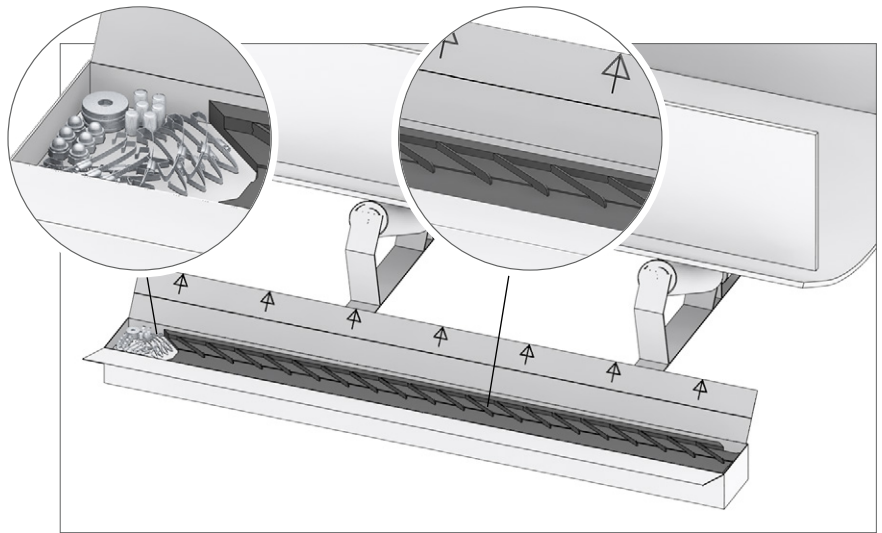
Safety measures during installation and maintenance work

- Installation and maintenance work on AirScrape blades must only be performed when the conveyor belt is stationary and locked out. Cordon off the work area. The work must be approved by the responsible works manager.
- Always use appropriate PPE.
- Always seek the owner's permission if you need to perform welding or cutting (hot work permits).
- If there is a risk of working at heights (working at heights permit) use of scaffolding, railings, safety nets and harnesses and all other relevant safety equipment is strongly advised.
- Before commissioning the Contact Free Conveyor Belt Skirting AirScrape, always ensure that the work site is completely clear and parts, such as scaffolding, lifting gear and tools are removed from the area. All guards have to be refitted to the previous locations.
- Check that all screwed connections are securely tightened following any commissioning and maintenance work.
- Use original parts only.

1

Contents

- 1 x AirScrape Left
- 1 x AirScrape Right
- 1 x Cardboard template
- 14 x Bolts
- 14 x Washers
- 14 x Dome nuts
- 14 x Lifting elements
- 1 x Installation Guide
- 1 x Technical Data Sheet



2

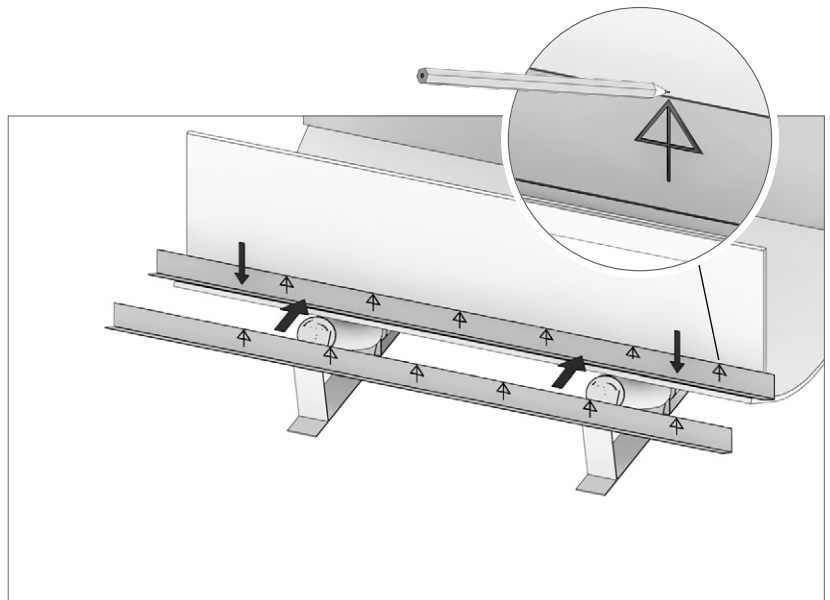
Marking fixture pattern

Fold the cardboard template and place this flat on the belt against the outside chute wall. Mark outside chute bolt locations at the indicated arrows from the template.

Alternatively

Unfold the cardboard template completely and place this flat on the belt. Place the tensioned (like the angle of the belt idlers) AirScrape on top of the cardboard template snug against the outside chute wall.

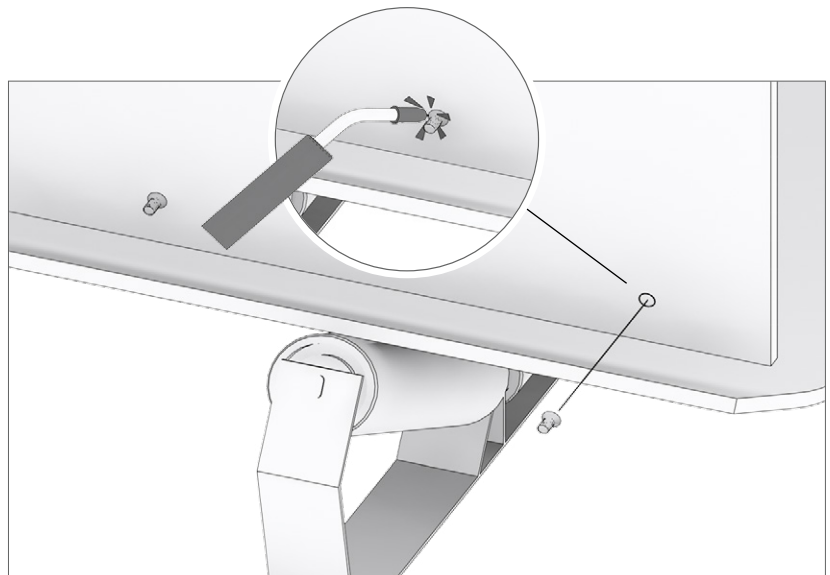
Mark centre bolt location on the chute wall in the centre of the pre-moulded AirScrape mounting holes.



3

Welding mounting bolts on chute wall

Remove cardboard template (and AirScrape) off the belt and weld supplied bolts to the outside chute wall at the marked locations.



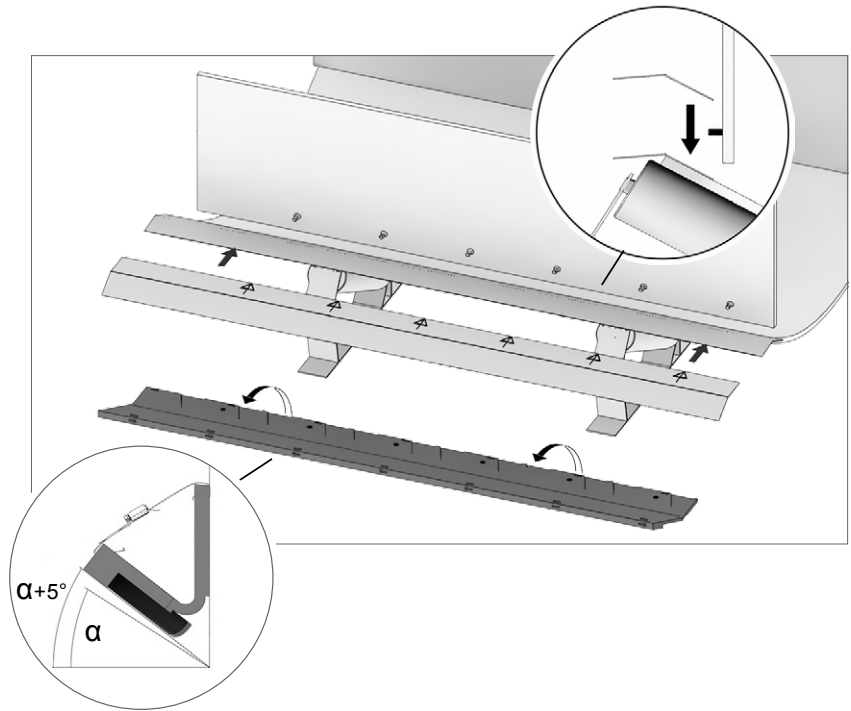
4 Prepare for AirScrape fitting

Fully open the cardboard template and place this flat on the edge of the belt now to be used as a spacer between AirScrape and belt surface.

The spacer preferably can also be a thin (1-2mm) metal sheet!!!

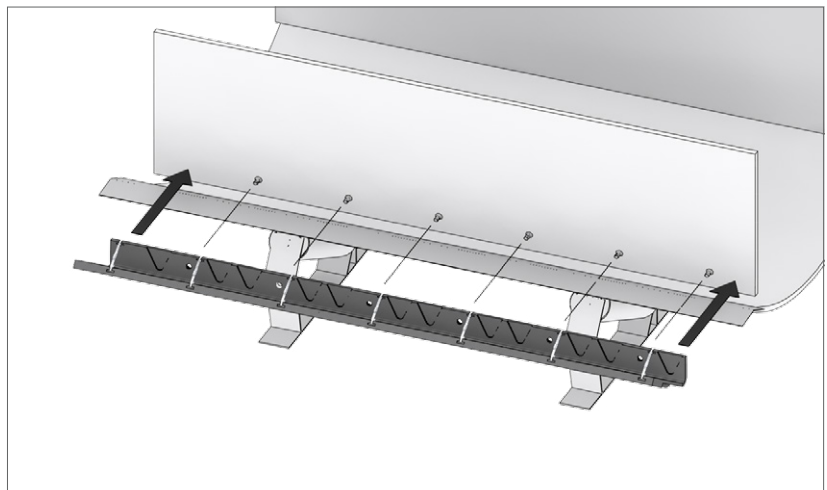
Tensioning of AirScrape.

The angle should be 5° higher than the trough angle of the conveyor.



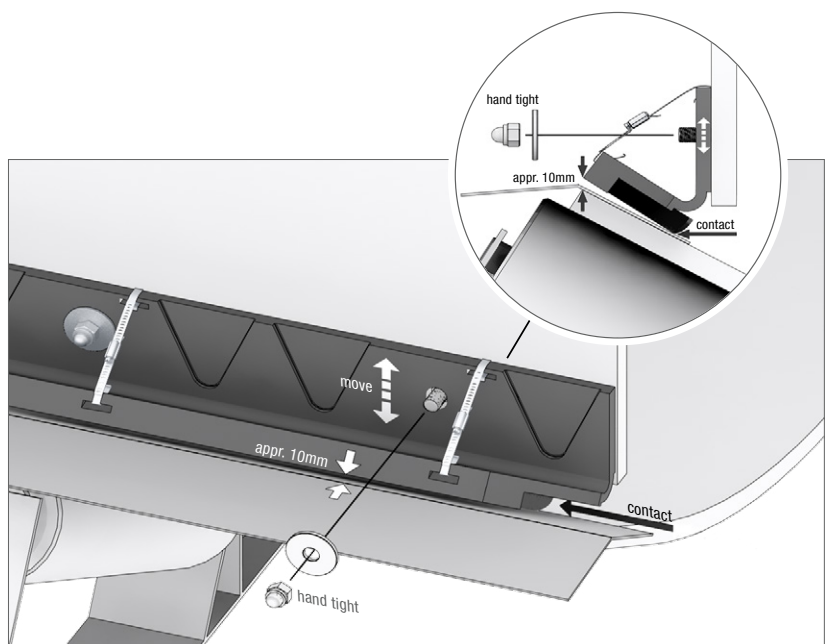
5 Fit AirScrape

Place the AirScrape on top of the cardboard template snug against the outside chute wall and fix it tightly (hand tight) with the washers and dome nuts.



6 Fasten AirScrape and adjustment

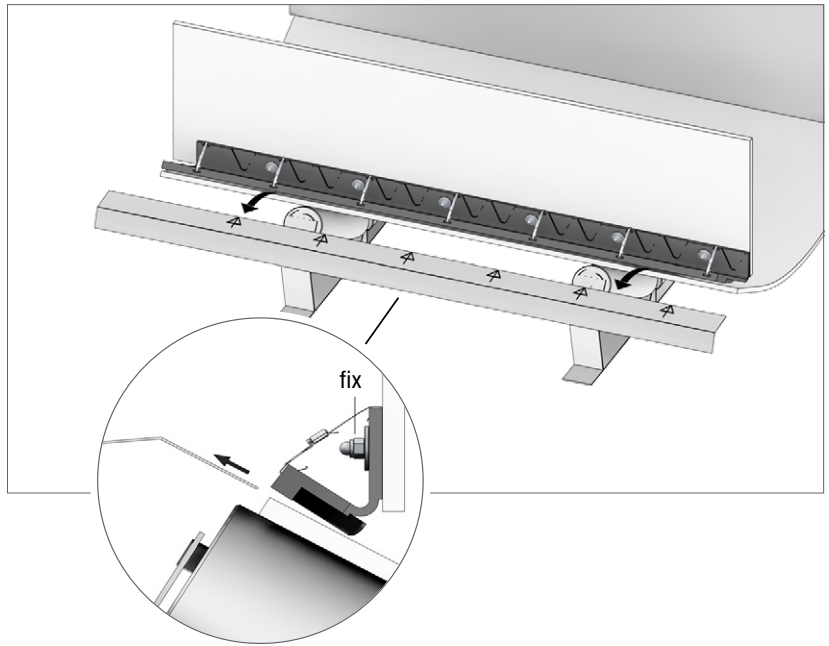
Move the slightly higher tensioned AirScrape ($+5^\circ$) up or down (long holes in AirScrape) so that the tips of the lamella touch the cardboard template.



7

Remove Cardboard spacer

Remove cardboard spacer from underneath the AirScrape and fix it tight.



8

Bring AirScrape into working position

Use the lifting element letting AirScrape down till the outer side has a "pressure-free" contact with the belt, or a little gab of 1-2 mm.

