

Picture1

## FITTING INSTRUCTIONS

### HAMPUS HEAVY PRIMARY BELT CLEANER 9130

Tools: measuring tape, weld, cutting tool, two wrenches (for M8, M13, M17) and a drilling machine.

Material: 2 pieces of sheet metall/ flat iron for welding brackes, a 11mm and a 7mm drill.

The Hampus heavy 9130 is a pre-scraper with a carbide blade encapsulated in polyurethane. It is designed for a demanding work environment with stringent cleaning requirements. The belt cleaner has a powerful design and a great durability. Beam lengths over 900mm comes with two spring lever arms, and lengths over 1500mm has stronger holders (holder HD).

### CONDITIONS FOR OPTIMUM OPERATION OF HAMPUS HEAVY

In order to achieve the best cleaning results of the conveyor belt, the following conditions must be met:

- The belt cleaner shall **not** be fitted to chevron belts or belts with mechanical joints.
- The conveyor belt must be free of damage. The belt may otherwise get caught on the scraper segments (1), resulting in a damage on either belt or belt cleaner.
- Max. belt speed: 2.3 m/s
- Max. temperature: + 50°C in wet environments (ambient temperature + frictional heat)
- Max. temperature: + 85°C in dry environments (ambient temperature + frictional heat)

#### CAUTION!

Always turn off the conveyor belt before maintaining, adjusting or installing the belt cleaner. Make sure that the belt cannot start while this work is in progress.

## ASSEMBLING

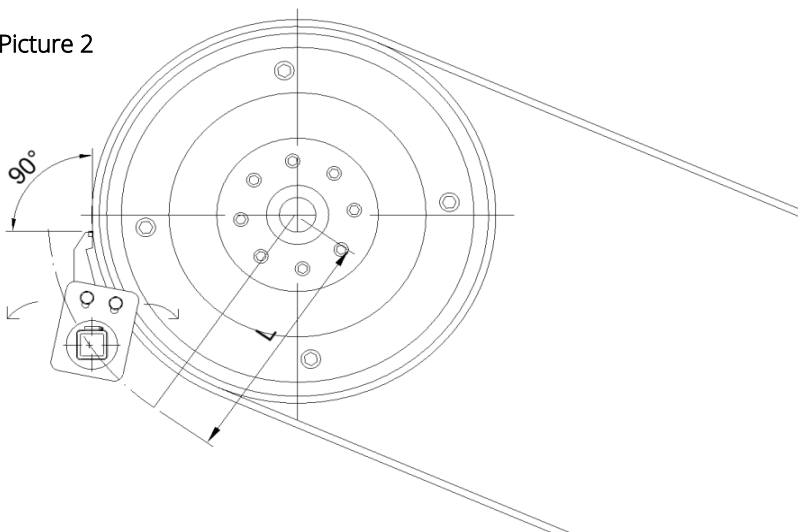
Turn off the belt conveyor. Place the belt cleaner against the drive pulley with the center of the beam (2) at distance L from the center of the drive pulley, see picture 2.

How high to place the scraper segments is determined by the gradient of the conveyor, the speed of the belt and the space available around the drive pulley. The belt cleaner is to be mounted just below the material flow when the conveyor is running. If the material flow hits the scraper's segments (1) the tear will shorten its lifespan dramatically. If that is the case, lower the belt cleaner slightly until the material flow passes the belt cleaner.

It is important that the carbide blade of the scraper segments (1) is fitted with a 90° angle to the drive pulley's surface, see picture 2.

- Assemble holder H (3), PU-bushing (4) and hose clamp (5) to the beam (2). Assemble the parts in the same order on both sides of the beam.
- Mark where the holder H (3) can be assembled to the conveyor frame with distance (L) to the center of the drive pulley. Make the holes to assemble the holders. If there is nothing to assemble the holder in, make two mounting brackets and weld these to the frame of belt conveyor where the holder H (3) should be fitted. The brackets shall have two  $\varnothing 11$  mm holes each and can be made from flat iron for example.
- Screw the holders H (3) to the mounting plates/conveyor frame. Ensure that the L measure is met and that the scraping edge of the scraper segment (1) is connecting to the conveyor belt in correct angle, (see picture 2).
- Center the belt cleaner sideways to the conveyor belt and lock the beam laterally with the hose clamps (5). Cut the beam (3) to the suitable length at both ends.
- Assemble the spring lever arm (7) to the lever arm bracket (6). Make sure that the end of the spring lever arms locks in the socket of the brackets (6).
- Insert the complete spring lever into the end of the beam (2). Drill a hole ( $\varnothing 7$  mm) right through the beam and lock the lever arm bracket (6) using an M6 x 50 mm bolt.
- Weld the toothed washer to the conveyor frame. Tension the spring lever arm (7) and hook the snap hook onto the toothed washer. Find the optimal pressure by adjusting, see below.

Picture 2



L-measure table

Segment height (mm)		Drum $\varnothing$
170	140	
239	213	$\varnothing 200$
254	229	$\varnothing 270$
270	247	$\varnothing 320$
300	278	$\varnothing 400$
338	319	$\varnothing 500$
393	376	$\varnothing 630$
468	476	$\varnothing 800$
561	570	$\varnothing 1000$

Note! Dont let the material flow hit the belt cleaner.

## ADJUSTMENTS

When all the parts are assembled according to the instructions above, turn the conveyor belt on to adjust the settings.

Find the optional pressure of the belt cleaner by eliminating noise, eliminating vibrations and watch how the cleaning performance changes when adjusting pressure.

In regular operation of the belt conveyor, vibrations and noise from the belt cleaner is a sign that adjustments is needed. Vibrations sometimes occur when the belt is running without material so keep the stand by-time to a minimum. Vibrations also occur when the belt has a sticky coating, for example of resin, keeping the belt clean is of essence. Vibrations can eventually cause fracture damages in the beam and must be eliminated. To reduce vibration and noise in other cases, follow the steps below. Remember to always turn off the belt conveyor before adjustments are made.

- Change the angle of the blades against the belt a few degrees
- Change the pressure of the belt cleaner against the belt.
- Make heavier, more sturdy mounting brackets for attaching to the conveyor frame.
- Increase the stability of the beam by fitting a small weight or a cantilever to the beam. (2)

## MAINTENANCE

Inspect and clean the belt cleaner regularly, as a suggestion once a week. When 1 mm of the carbide blade on the scraper segment remains, change all the scraper segments (1).

When noise or vibration occurs, adjust the settings immediately.

### REPLACING THE SCRAPER BLADES

Change the scraper segments (1) by removing the snap hook from the toothed washer and loosen the tension on the belt cleaner. Remove the nut covers (8) and loosen the M12 nuts behind the covers to remove the segments. Mount the new scraper segments, fasten the screws and the nut covers. Tension the belt cleaner through locking the chain to the frame. Readjust the belt cleaner pressure so that optimal cleaning of the conveyor belt is achieved.

## WARRANTY

*The product is covered under 24months warranty from time of purchase. For questions or claims, please contact our customer service.*

*Damage to the belt cleaner caused by incorrect handling or incorrect installation will not be considered subject to guarantee. Vendig will not be considered responsible for consequences or damage on other equipment or for injury due to incorrect handling or incorrect assembly. Warranty of Vendigs products is limited to manufacturing defects.*

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