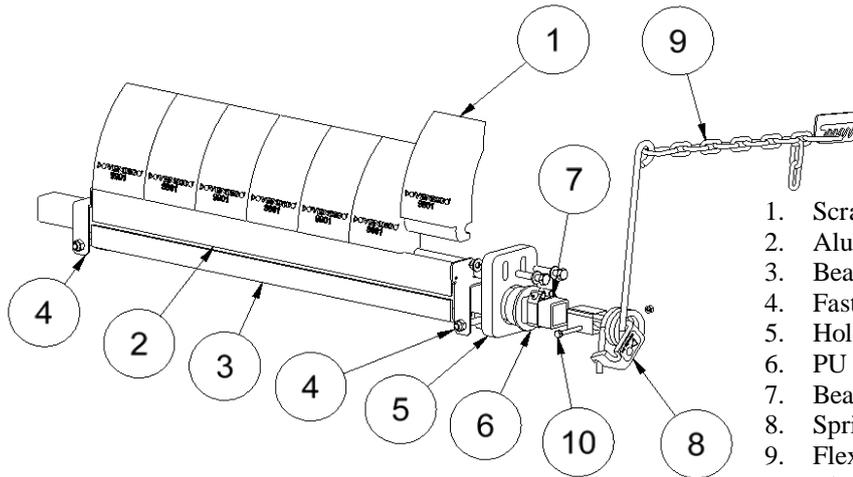


## FITTING THE SIRIUS PRE-SCRAPER 9900



1. Scraper segment	Art.No.9901
2. Aluminium profile	Art.No.9940
3. Beam	Art.No.9964-9976
4. Fastenings; right, left	Art.No.9980, 9981
5. Holder H	Art.No.8382
6. PU bushing	Art.No.8383
7. Beam clamp	Art.No.9161
8. Spring fastening	Art.No.9182
9. Flexing lever arm with chain and snap hook/toothed washer	Art.No.9181,9186, 9185,9199

### GENERAL INFORMATION

Sirius 9900 is a pre-scraper with individual polyurethane scraper segments mounted in a removable aluminium profile. Sirius is designed for industrial applications with stringent cleaning requirements. The scraper segments are able to flex individually and adapt to the shape of the conveyor and the drive pulley. Worn segments can be replaced without using any tools by removing the entire aluminium profile and changing the cassette. The scraper has a simple design with minimal moving parts.

### IMPORTANT!

In order to achieve the best scraping results, the following conditions must be met:

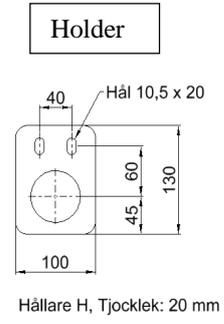
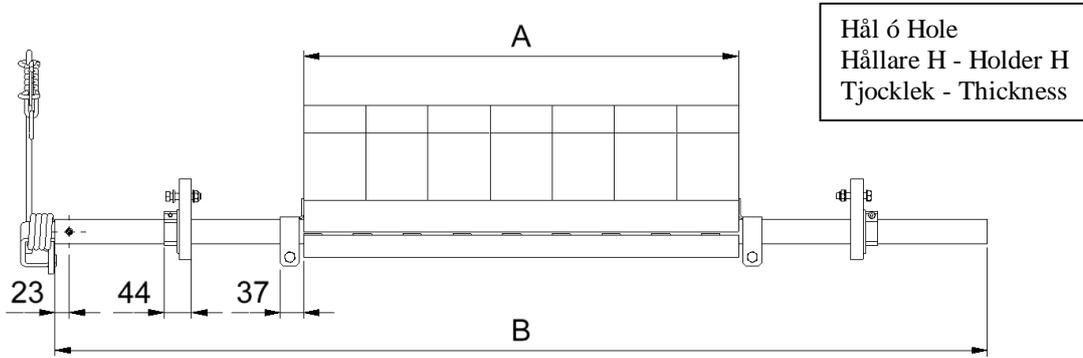
- The conveyor belt must be undamaged. Otherwise, the belt may catch on the scraper segments (1), resulting in a breakdown.
- Make sure that large pieces of material cannot bounce up and catch between the belt and the beam (3), thereby damaging the belt.
- The scraper must not be fitted to chevron belts or belts with mechanical joints.
- Max. belt speed: 2.3 m/s
- Max. temperature: + 50°C in a wet environment
- Max. temperature: + 85°C in a dry environment (ambient temperature + frictional heat)

### CAUTION!

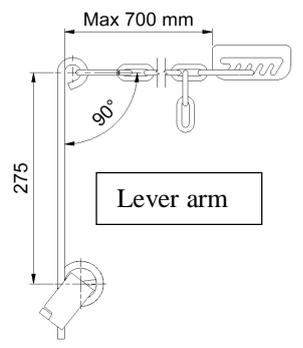
Always turn off the belt conveyor before installing or carrying out maintenance on the scraper. Make sure that the belt cannot be started while this work is in progress.

### FITTING

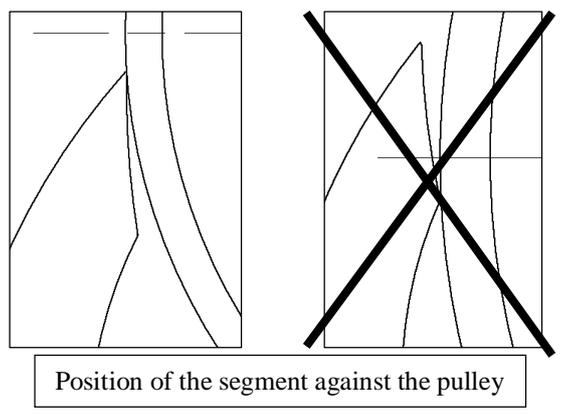
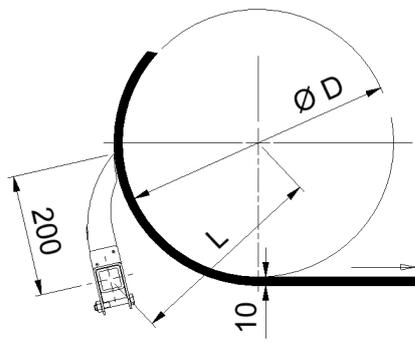
1.	The scraper is placed against the drive pulley with the centre of the beam (3) at a radius (L) from the centre of the pulley. How high the scraper is placed on the pulley depends on: a) the slope of the conveyor, b) the belt speed, c) the space available.
2.	<b>PLEASE NOTE!</b> The flow of material must not hit the segments (1).
3.	Slip the holders (5), PU bushings (6) and hose clamps (7) onto the beam (3). Alternatively, do it in the reverse order ó but always evenly on both sides.
4.	Prepare two mounting plates (=flat metal bars with two holes Ø11 mm) and weld these to the frame, preferably in the vicinity of the drive pulley bearings.
5.	Bolt the holders (5) onto the mounting plates using the bolt provided. Check that the L measurements are correct and that the segment touches the belt (see image below).
6.	Centre the scraper on the pulley and lock the beam laterally using the hose clamps. Cut the beam to a suitable length.
7.	Mount the flexing lever arm (9) onto the spring fastening (8). Make sure that the short spring pin of the spring locks in the notch on the spring fastening.
8.	Insert the spring fastening (8) into the end of the beam (3). Drill a hole through the end of the beam and fix the spring fastening (10) laterally using the bolt provided (M6 x 50 mm).
9.	Weld the toothed washer onto the frame so that the chain and the spring are preferably positioned at 90° to each other, see image below. Pre-tension the lever arm (9) and hook the snap hook onto the washer. The point of the scraper segment should touch the belt (see image below) so that it can easily follow the shape of the pulley. Find the optimal pressure by trial.



Art.No.	B-B	Number of segments	Scraping width A	Beam length B	Number of lever arms
9904	400	4	400	1100	1
9905	500	5	500	1200	1
9906	650	6	600	1300	1
9908	800	7	700	1500	1
9910	1000	9	900	1700	2
9912	1200	11	1100	1900	2
9914	1400	13	1300	2100	2
9916	1600	15	1500	2300	2



Pulley	L measurement
Ø220	247
Ø270	264
Ø320	282
Ø400	313
Ø500	354
Ø630	410
Ø800	488



## MAINTENANCE

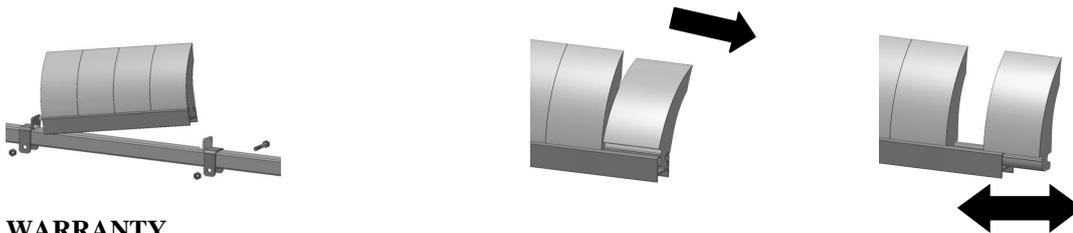
The scraper should be inspected and cleaned regularly ó preferably once a week.

When ca 110 mm of a segment remains (measured at the inner side, against the belt), replace all scraper segments (1).

Loosen the pre-tension to access the scraper. The segments can be replaced on site individually or by removing the entire cassette. The cassette is fixed laterally with fastenings (4); loosen the bolt beneath the beam and knock the fastening loose on one side. A screwdriver may be used in order to release the cassette from the beam. The segments can be pushed in/out laterally or bent loose and ösnappedö in place. When all segments have been changed and all details are replaced correctly and fixed onto the beam again, pre-tension the scraper again and fix the chain onto the frame.

Readjust the scraper pressure in order to achieve optimal cleaning. There must be no vibrations or noise. However, vibrations may arise if the conveyor is run without material or if the belt has a coating, e.g. of resin. In the long term, vibrations may cause cracking of the beam. These must therefore be eliminated. Try to:

- í í adjust the angle of the blade against the belt a few degrees.
- í í adjust the blade pressure against the belt.
- í í make a more robust attachment for the frame.



## WARRANTY

**Damage to the scraper due to incorrect handling or incorrect installation is not covered by warranty if these instructions have not been followed. We therefore accept no claims for any consequential damage or loss.**