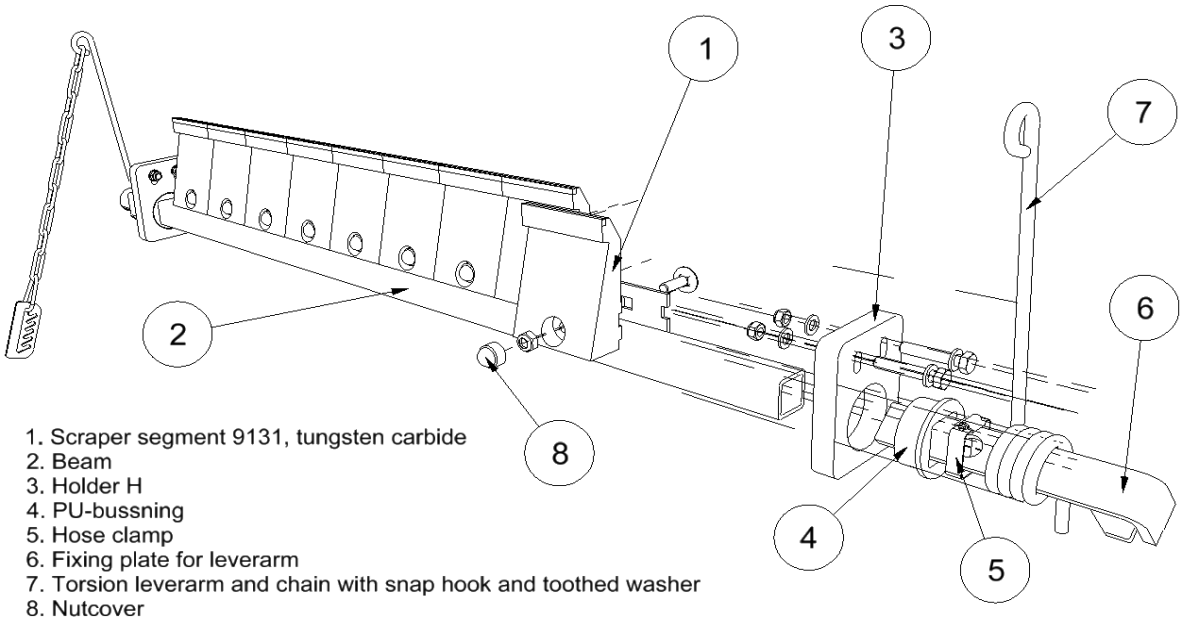
FITTING THE HAMPUS HEAVY PRE-SCRAPER 9130



1. Scraper segment 9131, tungsten carbide
2. Beam
3. Holder H
4. PU-bussning
5. Hose clamp
6. Fixing plate for leverarm
7. Torsion leverarm and chain with snap hook and toothed washer
8. Nutcover

GENERAL INFORMATION

The Hampus heavy 9130 is a pre-scraper with a tungsten-carbide blade encapsulated in polyurethane. The Hampus is designed for very heavy industry with stringent cleaning requirements. The scraper has a simple design with a minimum of moving parts.

IMPORTANT

In order to achieve the best scraping results, the following conditions must be met:
The conveyor belt must be free of damage. The belt may otherwise 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 (2), causing damage to 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 wet environments
Max. temperature: + 85°C in dry environments (ambient temperature + frictional heat)
The hard-metal blade must be fitted at an angle of 90° to the belt.

CAUTION

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

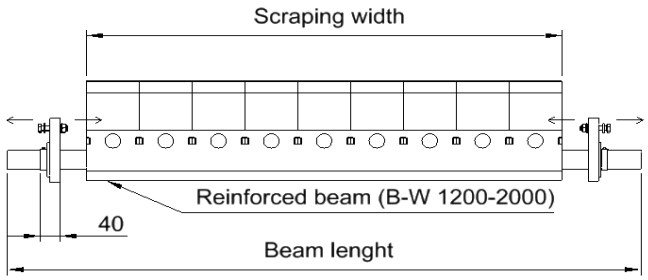
FITTING

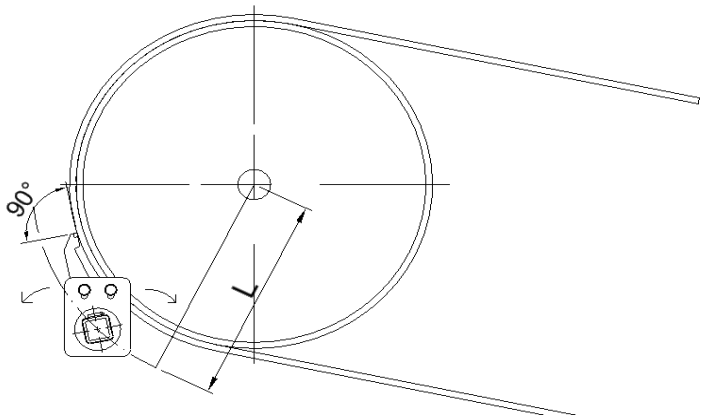
1.	The scraper is placed against the drive pulley with the centre of the beam (2) at a radius (L) from the centre of the pulley. How high the scraper is placed on the pulley is determined by: a) the slope of the conveyor, b) the speed of the belt and c) the space available.
2.	PLEASE NOTE: The flow of material must not hit the segments (1).
3.	Slip the holders (3), the PU-bushes (4) and the hose clamps (5) onto the beam (2).
4.	Make two mounting plates (=flat bars with two holes Ø11 mm) and weld these to the frame. We suggest attaching them in the vicinity of the drive pulley bearings.
5.	Bolt the holders (3) to the mounting plates. Check that the L measurements are correct and that the hard-metal blade in segment 9131 (1) touches the belt at an angle of 90° (see picture).

Vendig AB *Tel: +46 (0) 511-173 60* *E-mail: info@vendig.se*
Box 62 *Fax: + 46 (0) 511-176 30* *Internet: www.vendig.se*
SE-532 21 Skara, Sweden

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 Torsion lever arm (7) onto the fixing plate (6). Make sure that the short spring pin locks in the notch on the fixing plate.
8.	Insert the fixing plate (6) into the end of the beam (2). Drill a hole (ø7 mm) right through the square tube and lock the fixing plate (6) using an M6 x 50 mm bolt.
9.	Weld the toothed washer to the conveyor frame. Set the lever arm (7) and hook the snap hook onto the toothed washer. Find the optimal pressure by trial.

Part no	B-W	No. of segments	Scraping-width	Beam-length
9134	400	4	400	1100
9135	500	5	500	1200
9136	600	6	600	1300
9138	800	7	700	1500
9140	1000	9	900	1700
9142	1200	11	1100	1900
9144	1400	13	1300	2100
9146	1600	15	1500	2300
9148	1800	17	1700	2500
9150	2000	19	1900	2700





L-messure for different heights of the segments		
170	140	Pulley
239	213	ø220
254	229	ø270
270	247	ø320
299	278	ø400
338	319	ø500
393	376	ø630
468	476	ø800
561	570	ø1000

MAINTENANCE

Inspect and clean the scraper regularly– we suggest once a week.
When 1 mm of the tungsten-carbide blade remains, change all the segments (1).
Change the segments by remove the nut covers (8) then undoing the M12 nuts. Bolt on the new segments. Set the scraper, lock the chain to the frame. Readjust the scraper pressure so as to achieve optimal cleaning. There must be no vibrations or noise.
However, vibrations may arise when the belt is run without material or when the belt has a coating of ex. resin. In the long term, vibrations may result in cracking of the beam. These must therefore be eliminated. Try therefore:
...see next side....
…… changing the angle of the blades against the belt a few degrees.
…… changing the pressure of the blades against the belt.
…… making a more robust attachment to the frame.
…… increasing the mass of the beam (2) by, for example, fitting a small weight to the beam.

WARRANTY

Damage to the scraper caused by incorrect handling or in connection with incorrect installation cannot be considered to be covered by warranty if these instructions have not been followed. We therefore accept no claims for any consequential damage or loss.

Vendig AB
Box 62
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Tel: +46 (0) 511-173 60
Fax: + 46 (0) 511-176 30
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Internet: www.vendig.se