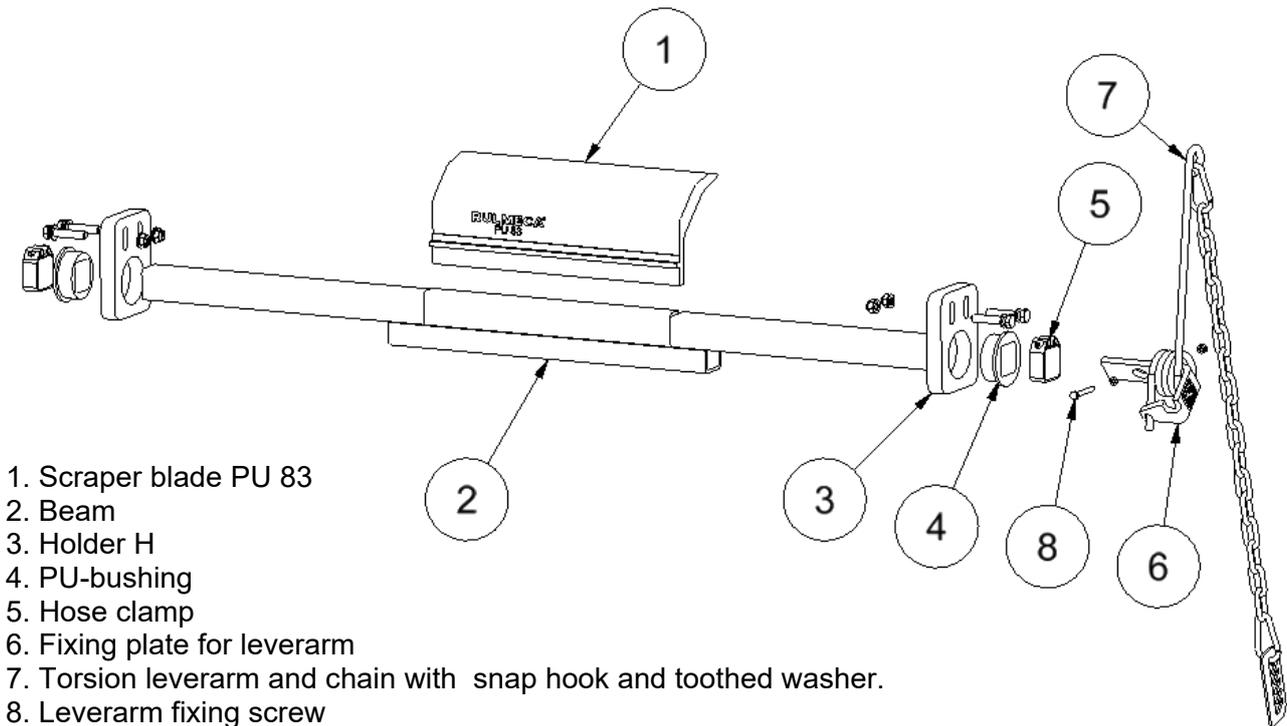


## FITTING THE PU 83 PRE-SCRAPER



1. Scraper blade PU 83
2. Beam
3. Holder H
4. PU-bushing
5. Hose clamp
6. Fixing plate for leverarm
7. Torsion leverarm and chain with snap hook and toothed washer.
8. Leverarm fixing screw

All steel parts are electro-galvanized

### GENERAL INFORMATION

The PU 83 is a simple pre-scraper that cleans the conveyor belt effectively in moderately difficult operating environments. The scraper blade is a resilient polyurethane strip that adapts to the shape of the conveyor belt. Worn scraper blades can be changed without using tools. 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 blade (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: **3.5** m/s

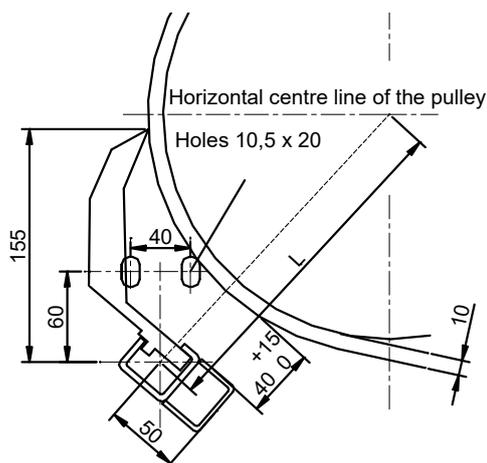
Max. temperature: + 50°C in wet environments

Max. temperature: + 85°C in dry environments (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 start while this work is in progress.

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. The slope of the conveyor, the speed of the belt and the space available determine how high the scraper is placed on the pulley.
2.	PLEASE NOTE: The flow of material must not hit the scraper blade (1).
3.	Slip the hose clamps (5), the PU bushes (4) and the holders (3) onto the beam (2). Or in reverse way – important - same way on both sides!
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 using the bolts supplied.
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 leverarm (7) onto the fixing plate (6). Make sure that the short spring pin looks 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 (8).
9.	Weld the square washer to the frame. Set the lever arm (7) and hook the snap hook onto the square washer. Find the optimal pressure, which is often low, by trial and error.



Pulley	L-measure
ø220	180
ø270	205
ø320	230
ø400	270
ø500	320
ø630	385
ø800	470
ø1000	570

## MAINTENANCE

Inspect and clean the scraper regularly– we suggest once a week.

If sticky material collects between the belt and the scraper blade so that the blade is pushed out from the belt, the beam may be moved out 10-20 mm.

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 sort of coating for ex. resin. In the long term, vibrations may result in cracking of the beam. These must therefore be eliminated. Try therefore:

..... changing the angle of the blade against the belt a few degrees.

..... changing the pressure of the blade against the belt.

..... making a more robust attachment to the frame.

..... increasing the mass of the beam (2) by, fitting a small lever arm/ weight to the beam (2).

## 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.**