VHV scraper systems

always keep things clean

Torsion scraper with rubber blade

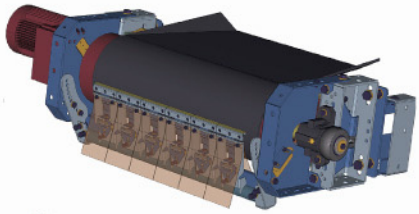
Combination

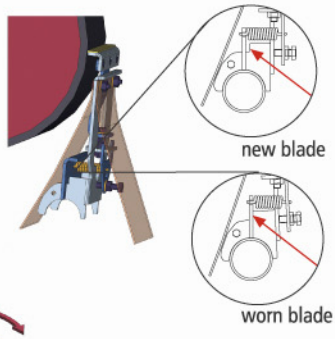

Torsion scraper with hard metal blade

- Front segment scrapers
- Hard metal torsion scrapers
- Rubber torsion scrapers
- Combinations

VHV Anlagenbau

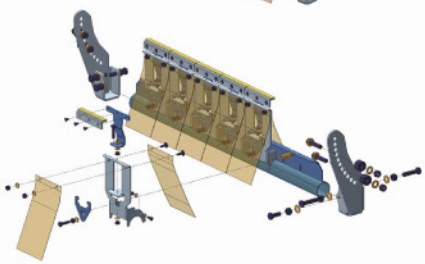
Front segment scraper

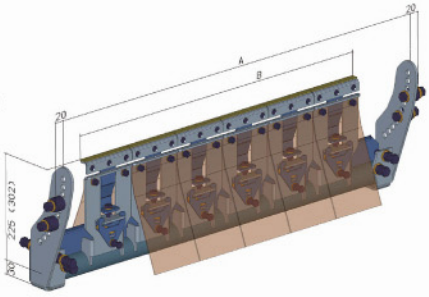




belt width	dim. "A"	dim. "B"
400	470	360 (3x120)
500	570	480 (4x120)
650	720	600 (5x120)
800	920	720 (6x120)
1000	1120	960 (8x120)
1200	1370	1080 (9x120)
1400	1570	1320 (11x120)
1600	1770	1560 (13x120)
1800	1970	1680 (14x120)
2000	2170	1920 (16x120)

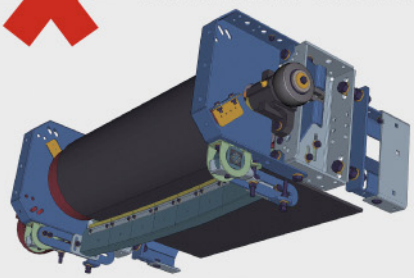
* Pulley diameter larger than 400 mm

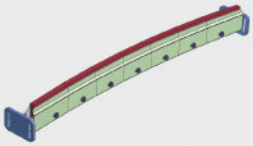


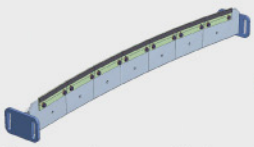


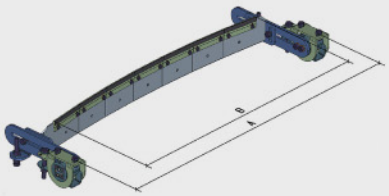
The front segment scraper, which is made entirely of stainless steel, cleans the conveyor belt at the front edge of the discharge pulley below the separation point and diverts any adhering material to the front. This reduces the height requirements, because no material has to be caught below the pulley. The tangential cleaning force is diverted directly to the belt frame.
Soft tension springs are adjustable so that the cleaning pressure of every scraping segment is customised for each segment's actual material loading. This allows for more aggressive deflection of any heavy material.
Unevenness of the belt is corrected by a special compensation joint that acts as shock absorber and guarantees that the metal scraper is ideally positioned against the belt. A zero stopper limits the motion of the worn scraper and prevents damage to both the scraper and belt.
Temperature-resistant versions are available for transporting hot products.

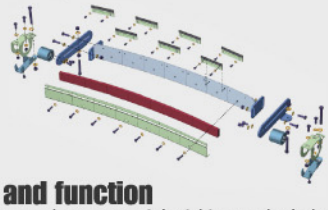
Torsion scraper

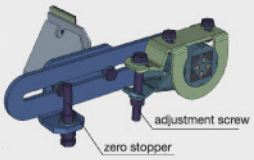


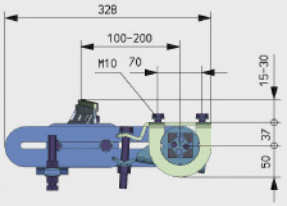

continuous rubber blade


hard metal segment blade









belt width	dim. "A"	dim. "B"
400	565	480 (4x120)*
500	665	600 (5x120)*
650	815	720 (6x120)*
800	1015	840 (7x120)*
1000	1215	1080 (9x120)*
1200	1465	1320 (11x120)*
1400	1665	1440 (12x120)*
1600	1865	1680 (14x120)*
1800	2065	1920 (16x120)*
2000	2265	2040 (17x120)*

* number of hard metal segment

Structure and function

The torsion scraper cleans material sticking to the belt. The contact pressure is generated by two torsion elements, which transfer pressure to the blade by means of two lever arms.
To ensure that the scraper does not leave the belt in the case of minor unevenness in the belt, the scraper is set approximately 50 mm downstream from the pulley. This allows the belt to deviate upwards in the case of local unevenness and the scraper continues to work on the rest of the belt. The ideal working position for the scraping blade is perpendicular to the belt, but it can also be fitted in a slanted position when vibrations occur.

Design

The torsion scraper is supplied with a hard metal blade and a rubber blade. The corresponding design is used, depending on the degree to which the product adheres to the belt. If the material is extremely sticky, the torsion scraper can be combined with the VHV front segment scraper.

VHV Anlagenbau

VHV Anlagenbau GmbH
Dornierstraße 9 • D-48477 Hörstel
Phone: +49 (0) 5459/9338-0 • Fax: +49 (0) 5459/9338-80
e-mail: info@vhv-anlagenbau.de • website: www.vhv-anlagenbau.de