

Clean and efficient: Schulte Strathaus conveyor accessories improve operations

The company Schulte Strathaus, founded in 1952 in Unna, Germany, specializes in the supply of components for belt conveyors for all kinds of bulk handling industries. The main focus is on its STARCLEAN® conveyor belt scrapers, which are a problem solver designed to improve the efficiency of belt conveyors.

The main idea is to provide an optimum cleaning result throughout the lifespan of the blades and not, as is the case with some manufacturers' products, only for a short time. This is achieved by the 'TWIST-SWING®' feature, which ensures that every blade adapts to the belt, thus compensating for individual wear and providing a long lifespan.

As experts in the field of belt cleaning, Schulte Strathaus knows it is essential to keep conveyor downtime to a minimum; when scraper blades are worn, it should be possible to replace them in the smallest timeframe. All STARCLEAN® scrapers provide a plug-in foot, and are inserted into the shaft without the use of any tools. This feature, paired with the one-touch quick-tensioning devices, ensure that maintenance can be carried out within minutes.

All belt cleaners provide the best possible belt-saving properties, and are used in the toughest bulk handling operations worldwide.

Plug-in feature of scraper blades.



Primary scraper blades compensating individual wear.



Secondary scraper blades with individual adaption to the conveyor belt in overlapping design.



Secondary scraper with overlapping blades and quick-tensioning device.



Primary scraper with quick-tensioning device.



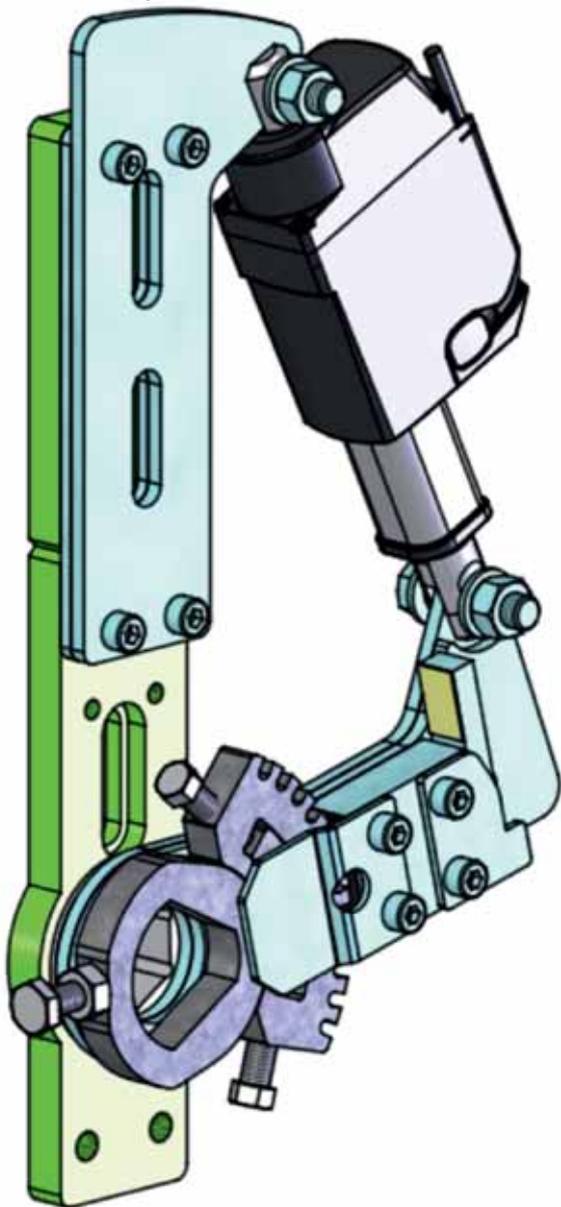
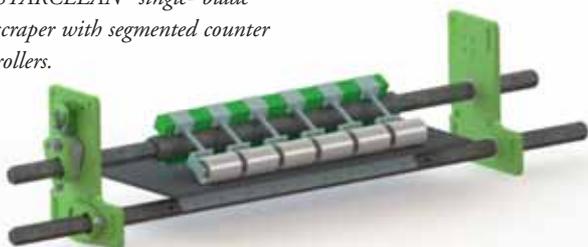
Known as technologically advanced in the field of belt cleaning, the company has just introduced some breathtaking innovations:

- ❖ **a torsion tensioning device for heavy duty primary scrapers.** With this new tensioning device for belt widths up to 3.2m and speeds up to 11m/s, primary scrapers do not have to be retensioned during the lifespan of the blades. A big problem for operators of heavy duty conveyors is the re-tensioning of the scrapers. With this new tensioning device, keeping the perfect tension until the blades are worn, there is no need anymore for unscheduled retensioning.
- ❖ **electrical tensioning device:** according to the motto KIS (keep it simple), the company has introduced a new electrical tensioning device. Used with tungsten carbide scrapers, the new device can disengage the scraper, for example during reversing operation or maintenance, and then move back automatically to the preset tension. As an option the device can readjust the tension automatically also for primary cleaners when wear occurs.

Heavy-duty primary scraper with torsion-tensioning devices.



- ❖ extremely sticky materials can be cleaned off the belt with the new STARCLEAN® single-blade scraper with segmented counter rollers. In order to make sure that material can't build up, this system uses a single-blade scraper. Because

Electrical tensioning device.*STARCLEAN® single-blade scraper with segmented counter rollers.*

single blade scrapers cannot adapt to the belt properly and therefore the cleaning result is more than limited, Schulte Strathaus uses an assembly with segmented rollers at the inside of the belt, which gently adapts the belt to the cleaner. With this new system, even the stickiest materials can be perfectly scraped off the belt, without material buildup on the scraper. The roller assembly is equipped with the proven quick tensioning device for easy tensioning.

SAFEBELT®

In addition to conveyor components, the company has launched the innovative closed conveyor belt system SAFEBELT®.

The SAFEBELT® system is the ideal conveyor for bulk material handling when it is important to avoid transfer points, to go around obstacles and to convey the material in a protected, closed and dustless way. To achieve this, the belt-loop stays closed from the loading point to the unloading point. The execution with various possible horizontal and vertical curves enables the conveyor the easy adaption to the local conditions. The simple and effective concept (modular system) in connection with the known Schulte Strathaus Quality reduces both the engineering efforts and the operation costs.

- ❖ **cost reducing:** the closed belt design reduces total costs, because complex enclosures are not needed
- ❖ **environment saving:** the bulk material is completely enclosed in the belt. There is hardly any inlet or outlet for dust or liquids.
- ❖ **low odour:** odour is held in the belt as far as possible. This leads to a minimum of disturbance through odours.
- ❖ **simple extension possibilities:** the lightweight steel support and the fact that no special frame-work is needed guarantee for a simple extension possibility and enable flexible changes of direction.
- ❖ **fewer transfer points:** due to the possibility of extremely small vertical and horizontal curves additional transfer points are not needed.

Schematic view of the SAFEBELT®.