



safe, clean, reliable



F. E. Schulte Strathaus GmbH & Co. KG  
Runtestraße 42  
59457 Werl

Fon +49 (0) 29 22 - 97 75 - 0  
Fax +49 (0) 29 22 - 97 75 - 75  
info@schulte-strathaus.de  
www.schulte-strathaus.de

SafeBelt-System

## Discription

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 and dustless way. To archieve this, the belt- loop stays closed from the loading point to the unloading point. The execu- tion with various possible horizontal and vertical curves enables the conveyor the easy adaption to the local conditions. The simple and effective concept (modu- lar system) in connection with the known Schulte Strathaus Quality r educes both the engineering efforts and the operation costs.

## Advantages of the SafeBelt-System

- Reduced engineering outlay
- No transfer point needed when directions is changed
- Low space requirement due to small curve radiuses
- Dust- and weather protected transport of the bulk material
- Compact design
- Simple, also subsequent extension of the system
- Standard drive units, easy availability
- Low maintenance and operating costs
- Light construction for the support works
- No special foundations neccassary

## SafeBelt specifics

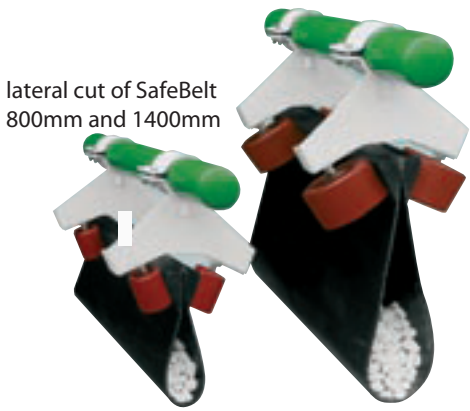
- **Cost reducing**  
The closed belt design reduces the total costs, because complex enclosures are not needed, and costly cleaning is not necessary
- **Environment saving**  
The bulk matterial is completely enclosed in the belt. There is hardly any inlet or outlet for dust or liquids.
- **Low odour**  
Odour is held in the belt as far as possible. This leds to a minimum of disturbance through odours.
- **Low maintenance**  
The return of the belt is closed as well. This avoids any lay down of carry- back on the property.
- **Low space requirement**  
Steep inclinations or declinations as well as small horizontal and vertical curves are accomplished, so the entire installation needs less space
- **Flexible layout**  
The return of the belt can be used for the transport of a second material in the opposite direction.
- **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.
- **Less transfer points**  
Due to the possibility of small vertical and horizontal curves additional transfer points are not needed.

## Conveyor belt

- **Belt widths**
  - 800 mm with max. 40 mm particle size
  - 1400 mm with max. 80 mm particle size
- **Capacity**
  - 800 mm belt – up to 120m³/h at 3 m/s
  - 1400 mm belt – up to 450 m³/h at 3 m/s
- **Limitations**
  - Filling degree maximum 60 % Vol.
  - Maximum weight of the conveyed material 40 kg/m
  - Maximum belt speed 3 m/s
  - Radiuses horizontally > 5m
  - Inclination < 30°
- **Belt qualities**
  - Wear resistant for standard bulk materials
  - Heat resistant for temperatures up to 80°C
  - Oil and grease resistant for vegetable and animal grease

## Drive units

- Standard geared motors 0,37 – 3 KW, 400 V, 50 Hz
- Each unit contains 2 identical motors
- Distance between drive units in straight line approx. 50 m
- Speed optionally adjustable with the use of frequency converters



## Application examples of the SafeBelt System

Construction Industry	Energy Generation/ Recycling	Pulp and Paper	Metal Industry	Mining	Food Industry	Others
Gypsum	Ash	Wood	Forging Sand	Ore	Raw Materials	Chemicals
Limestone	Turf	Waste paper	Ore	Grinding Balls	Petfood	Contaminated Soils
Clay	Wood	Kaolin	Coal	Minerals	Grain	Minerals
Sand	Coal	Pulp	Slag	Sand		Granulates
Stone	Recycling		Sinter			
Cement						