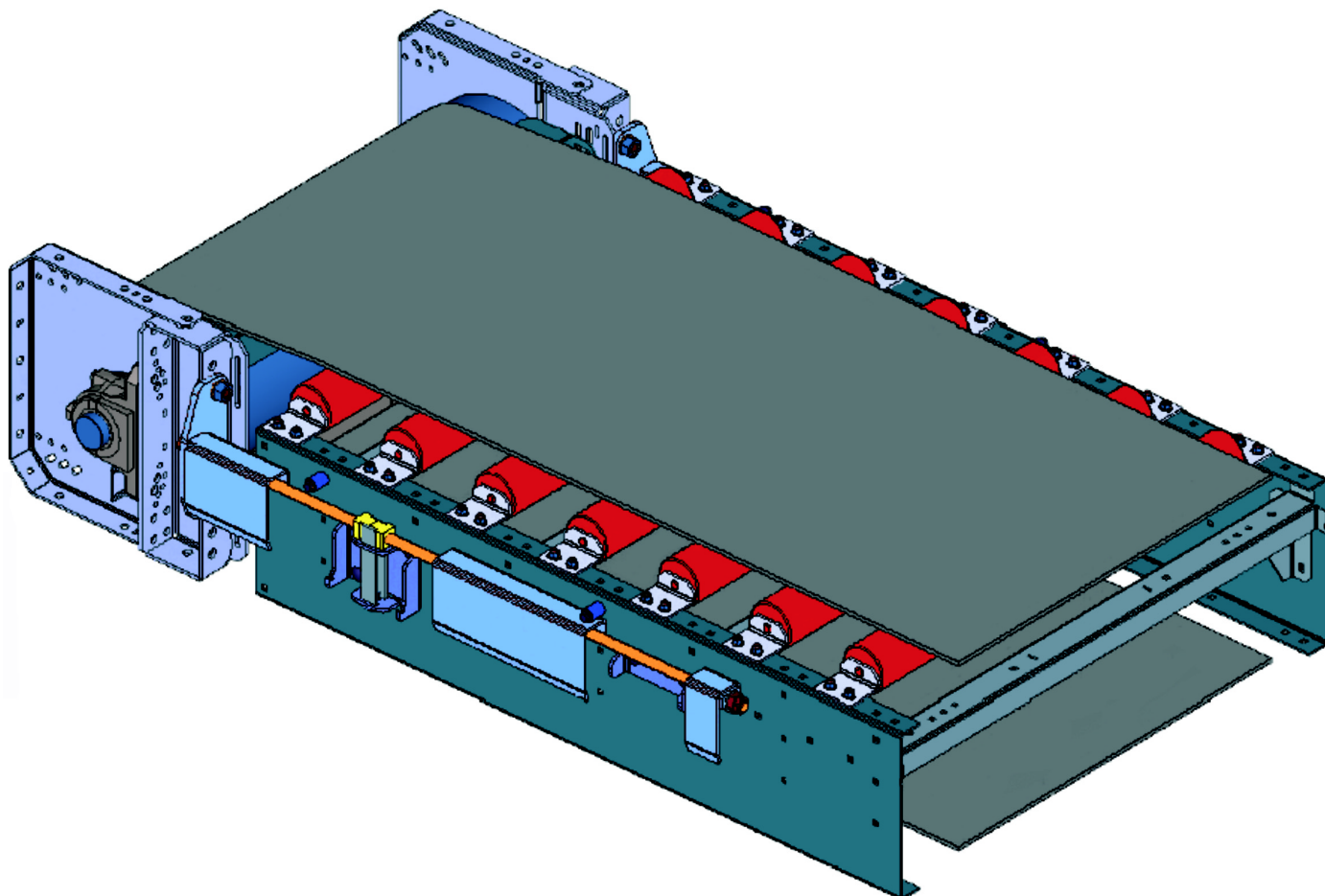




# Belt tensioning device

Innovative conveying technology



**for drum units**

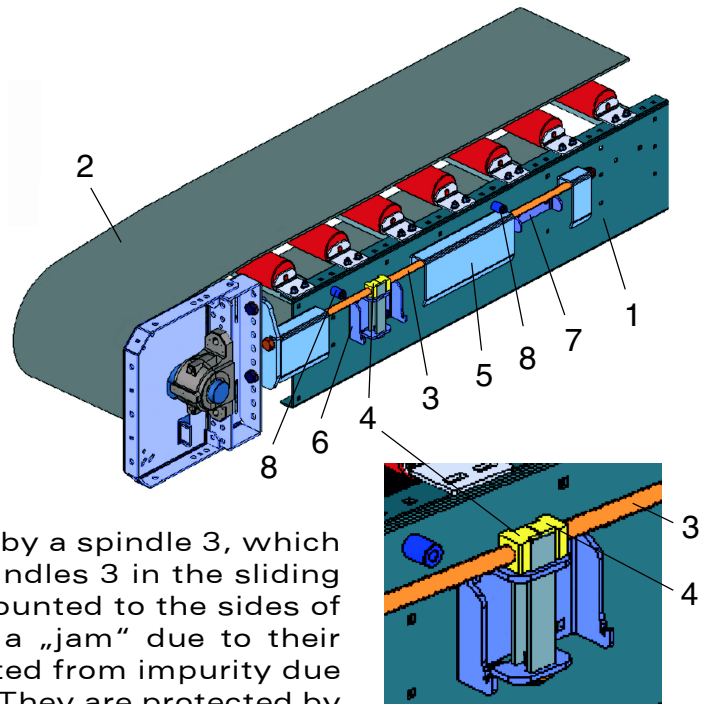
**\* VHV Belt tensioning device**  
to control the belt tension along the length of the conveyor



# Belt tensioning device

## Construction and function

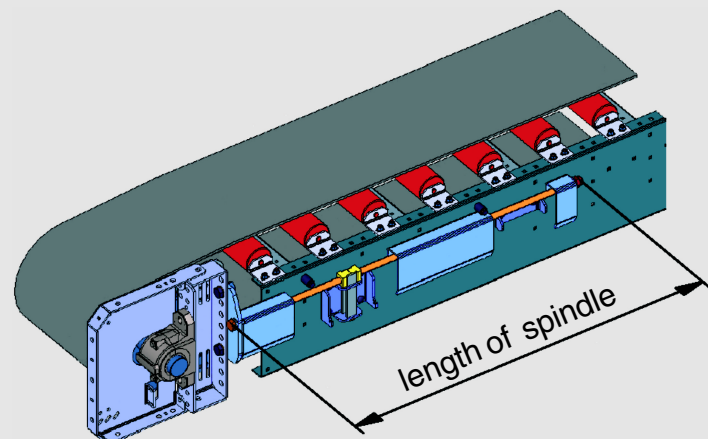
Placed at the sides of the belt frame 1, the VHV tensioning device saves space by reducing the take-up area needed behind the drum. The stretching device tightens and looses the conveying belt 2 by pushing the complete drive or return station, including the head pulley and scraping plow. This way, adjustment of the head pulley is not necessary anymore, while tensioning the belt later. No impurities can gain access to the drum due to a constant gap between the drum and the scraping plow. The take-up section is operated by a spindle 3, which is working against a fix point. The spindles 3 in the sliding block that is used as a fix point are mounted to the sides of the belt frame 1, which helps avoid a „jam“ due to their orientation. The spindles 3 are protected from impurity due to the design of the tension system 5. They are protected by the conducts 6 + 7 at the sides of the conveyor and at the top by a pressure pad 8.



## Measurements

The tensioning device is available in four different sizes. The size is chosen according to the operation needs.

1. Type TSM 10  
Spindle M20 x 1000 mm  
Tension path -100 mm +450 mm\*
2. Type TSM 15  
Spindle M20 x 1500 mm  
Tension path -100 mm +700 mm
3. Type TSL 10  
Spindle M24 x 1000 mm  
Tension path -100 mm +450 mm\*
4. Type TSL 15  
Spindle M24 x 1500 mm  
Tension path -100 mm +700 mm



\* For types TSM 10 and TSL 10: in a case of heavy demands at the tensioning unit, the conducts 6+7 can be moved 250 mm which reduces the possible tension path by 250 mm

