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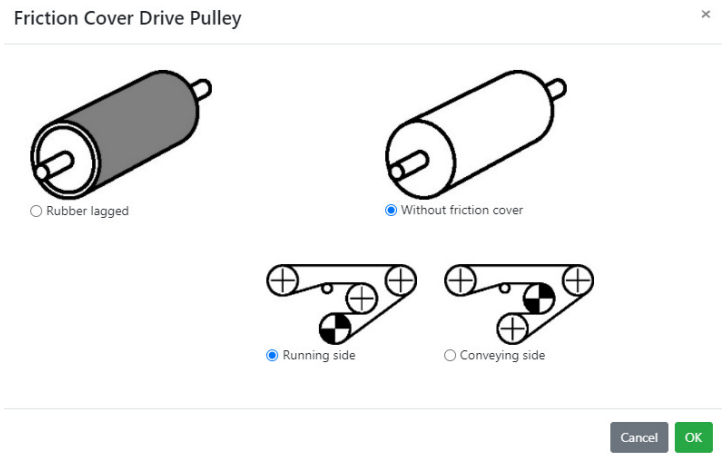
Friction cover on drive pulley

To transmit the peripheral force from the drive pulley surface to the conveyor belt, a certain **coefficient of friction** between belt and pulley is required. The higher this coefficient of friction is, the lower the required tensile force of the belt to transmit a certain belt force.

Since most belts have fabrics with a low coefficient of friction on their running side (for minimizing the friction forces when sliding over the conveyor bed) the coefficient of friction on the driving pulley is often too low wherefore high and disadvantageous belt tension is required.

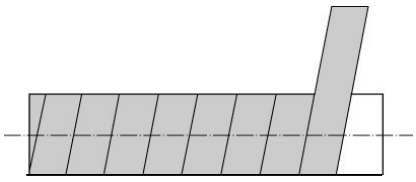
The common measures for preventing this are to **lag the pulley with a high adhesion friction cover (rubber)** or to arrange the installation in such a way that the belt conveying side (which in most cases is much more adhesive than its running side) is in contact with the drive pulley surface.

To improve the coefficient of friction, drive pulleys may be lagged with a **friction cover made of abrasion-resistant rubber** or plastic (recommended hardness 80-90 Shore A).



Habasit offers special lagging material that may be glued on spirals:

VT-270 PES-fabric with soft NBR-rubber cover, thickness 1.4 – 1.5 mm



Recommended glue: Balco M