CONVEYOR TRANSFER POINTS

A correctly designed conveyor transfer point will help minimise spillage at the feed point and prevent premature conveyor belt, skirting and idler damage.

Too often poorly designed feed hoppers will create an achilles heal in the conveyor system resulting in costly downtime due to excessive spillage blockages and the resulting damage to the belt, skirting and rollers.

Low friction PU skirting with quick release clamp system

Ideally the best way to load a conveyor belt is in the same direction of travel, at the same belt speed and with as little impact as possible.

The relationship between the width of the hopper and the width of the belt is critical. Ideally the width of the hopper should not exceed 75% of the width of the belt.

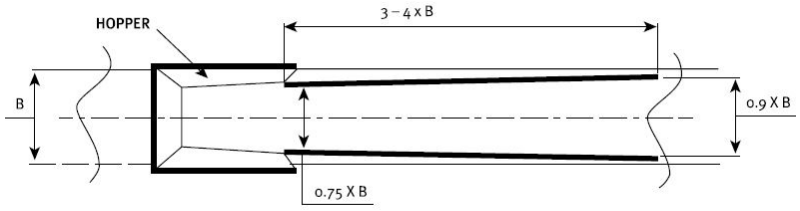
This will facilitate room for an adequate skirting system as well as belt wander.

The use of the correct grade of skirting rubber is vital to prevent damage to the belt top cover. Ideally the skirting material should have a good abrasion resistance and a lower shore hardness than the belt.

A rubber skirting rubber with a shore hardness of between 40 and 55 degrees hardness or a low friction PU skirt is ideal.

Old or used conveyor belt should not be fitted as this will have a higher shore hardness and will result in cover damage.

TekTip: The use of impact bars instead of rollers at the load point removes moving parts from the impact zone, whilst facilitating better sealing and improved load support



For example, a belt width of 1,000mm would have a hopper width of 750mm and a total skirt length of 3-4m tapering out to a final width of 900mm.

A well designed feed hopper depends on the relationship between the belt width and the hopper and skirting width. As shown here, ideally the hopper width should be 75% of the belt width, tapering out into the skirts to a maximum skirt width of 90% of the belt width.

The tapering of the width will create a self-cleaning effect, thus preventing material becoming trapped between the belt and skirting and damaging the belt top cover rubber.

TekTip: A quick release skirting system installed on the transfer chute will allow faster sealing adjustments than the traditional bolted clamp system, thus reducing maintenance downtime

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