



Skirtboard Sealing System

In transferring bulk solids cost-effectively through a belt conveyor, it is important to ensure that each component is designed to give optimal performance. Tega, has for the past twenty-five years, been solving problems generally encountered at loading stations. Renowned for its pioneering work in the design of impact bars, universal support bars and pulley bars, Tega also offers the SPILL-EX skirt sealing system.

Trends in Technical Improvement of Conveyor Loading Stations



The loading station, where bulk material is received on belt conveyors, is a critical area that is often exposed to a variety of problems. Spillage is one such problem.

The material, when loaded on the belt, remains in an agitated state and needs to be guided to a certain distance till its condition stabilises. This has traditionally been done with the help of skirt boards that extend from the discharge chute on both edges of the belt. To seal the gap between the bottom edge of the skirt board and the moving belt, lateral rubber strips were introduced. This did control the spillage, but only to a limited extent, as the strip could not be adjusted to match with the belt profile. This led to the development of segmented type rubber sealing that could be individually adjusted to the belt contour. However, to avoid spillage completely, the gap between adjacent segments still needed to be eliminated. This required design ingenuity.

Responding to this need, Tega patented the SPILL-EX skirt sealing design. A simple yet effective construction, SPILL-EX has succeeded in making conveyor loading stations completely spillage free. The use of SPILL-EX has also enabled many companies to achieve ISO14000 certification which places great emphasis on the control of environmental degradation.

SPILL-EX Features

- ▶ Fits easily to existing or new conveyor systems
- ▶ Soft but firm contact gives complete sealing
- ▶ Special wear-resistant rubber ensures long life
- ▶ Simple to install and adjust
- ▶ Individual blocks can be replaced without damaging adjacent ones
- ▶ The soft rubber eliminates belt damage
- ▶ Wide range to suit all site conditions

How SPILL-EX functions

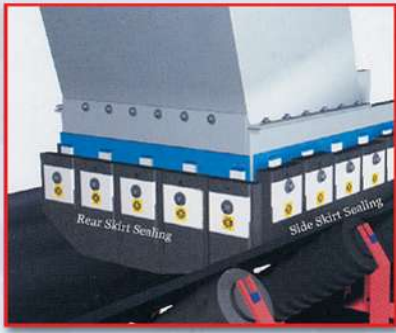
The SPILL-EX skirt sealing system comprises a specially designed backing plate ①, rubber blocks ② and serrated clamps ③ that completely seal the belt edges at the loading station.

The rubber skirt blocks are slid on to guides provided on the backing plates and are held in position by means of the serrated clamps and bolts. The design of the forward-angled serrated clamps prevents the rubber skirt block from moving up or away from the belt and allows them to be hammered down towards the belt.



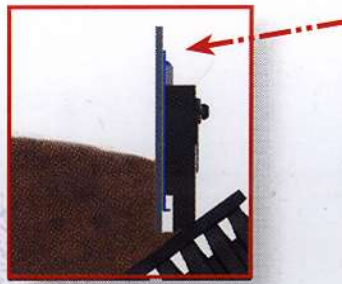
SPILL-EX

Ahead of the rest

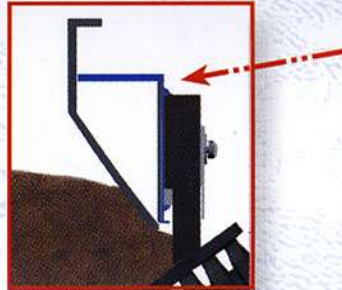


Backing Plate

This is available in 3mm thick carbon steel for general application and in SS304, for corrosive material handling. Standard backing plates are *L-shaped*, while *Z-shaped* universal backing plates are provided on request.



L-Shaped backing plate



Z-Shaped backing plate



Clamps and Fasteners

These are available in carbon steel for general application and in SS304 for corrosive applications.

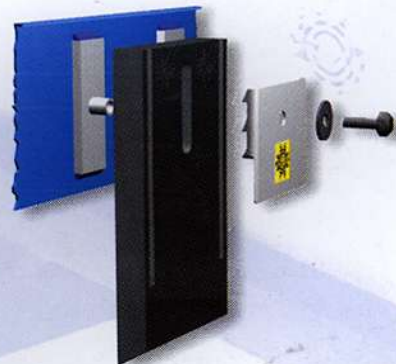
Rubber Blocks

These are made from soft, durable rubber of 50°-60° Shore A hardness. The standard size of the skirt block is 150x200mm, while a smaller version 125x150mm is also available for applications where installation space is limited.

Normal grade rubber blocks can operate with temperatures ranging from -20°C upto 65°C, while special heat resistant rubber blocks can withstand hot material upto a maximum of 150°C.

Rear Skirt Sealing

Skirt sealing is generally provided on side skirts. However, for conveyors inclined upwards or for those handling fines, the sealing of the rear of the belt is necessary. Rear skirt sealing is provided with a fixed length backing plate that is based on belt width. The height of the rubber blocks is increased by 100mm to compensate for trough height.





Tega India Limited is the flagship company of the MM Group of Companies, a name synonymous with pioneering achievements in the mineral processing, mining, material handling and environment industries. The story of Tega began in 1976, when it was promoted as a joint venture company with Skega Aktiebolag of Sweden, the world leaders in specialized Wear Resistant Rubber products. Its mission was to provide unique products and services and to tackle complex problems in material handling and mineral processing industries. Pioneering the use of Skega's superior quality and field tested products in Indian industry, Tega immediately made its presence felt.

In a span of two and a half decades, the company has achieved many milestones. Apart from India, the products of the company are now well accepted in USA, UK, Holland, Germany, Ghana, Zambia, South Africa, Russia, Indonesia, Malaysia and Australia. This has been possible due to continuous in-house R&D activity and an enduring commitment to quality standards. All the requirements of the international market are handled by another company in the group, MM Global Ltd. This company serves as an efficient vehicle for all Tega exports and provides international standard service.

How to order

Select the options mentioned here to suit your conveyor application. In case your order does not specify these details, we will supply Standard Model Backing Plate of Type L, using Carbon Steel material and Rubber Blocks of Normal Grade in a standard size, with Clamps and Fasteners of Carbon Steel.

Side Skirt Length : Any combination of these sizes to suit your skirt length

| | | | | | | | |
|-----------------|----|------|------|------|-----|-----|-----|
| Standard | mm | 1500 | 1200 | 1050 | 900 | 750 | 600 |
| Small | mm | 1000 | 875 | 750 | 625 | 500 | |

Rear Skirt Sealing

| | | | | | | | | | | |
|---------------------------------|-----------------|-------------|-------------|------|------|------|------|------|------|------|
| Belt-width(mm) | <i>Model</i> | 600/ 650 | 750/ 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 |
| Backing Plate length(mm) | <i>Standard</i> | 450 | 600 | 750 | 900 | 1050 | 1200 | 1200 | 1350 | 1500 |
| | <i>Small</i> | 375 | 625 | 750 | 875 | 1000 | 1125 | 1250 | 1375 | 1500 |

Subject to technical alteration

All international enquiries/orders should be addressed to MM Global Ltd.

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