An aerial photograph of a large-scale mining operation. In the foreground, a complex conveyor system is visible, featuring a large impact bed structure with multiple levels, walkways, and railings. A large orange conveyor belt is seen extending from the top right towards the center. The background shows a vast, dark, rocky landscape, likely a mine site.

Conveyor Impact Beds

Mining and Mineral Processing
Conveyors Impact Beds
www.trelleborg.com/fluidhandling

DESIGNED AND BUILT TO LAST

Trelleborg Conveyor Impact Beds are located beneath the conveyor belt at loading or transfer points and are designed to absorb impact forces from material-flow or lumps impacting with the belt.

Impact beds are generally fitted in place of impact idlers, thus eliminating damage to bearings and other moving parts.

Using robust construction methods, large sized steel sections, fully welded and galvanised components, Trelleborg is able to design an impact bed to suit almost any location and impact load.

Trelleborg Conveyor Impact Beds are available as Standard, Heavy Duty, Hybrid designs or can be custom designed to meet your specific requirements.



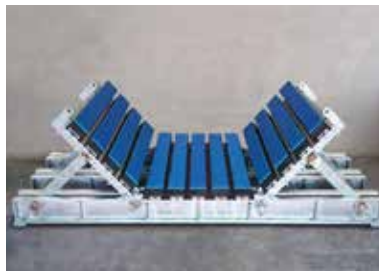


STANDARD IMPACT BEDS

Impact Beds are used in place of impact idlers under the belt at loading points, and absorb the transfer forces imparted from bulk and lump materials onto the conveyor. They totally eliminate damage typically caused to rollers, bearings and idler frames.

Impact Beds incorporate robust steel construction, a modular pin-lock system, and high absorbent impact bars, to form a complete belt support system in the loading area. Trelleborg can construct a bed to suit any fall height and lump size combination.

The unique feature of Trelleborg Impact Beds is a modular pin-lock system which allows easy replacement of worn bars. Simply unclip and remove the pins, then the wing sections can be lowered to a horizontal position for easy removal of impact bars. Our pins can be removed without tools and the bars replaced without need to remove the bed from the conveyor, thus saving time and money.

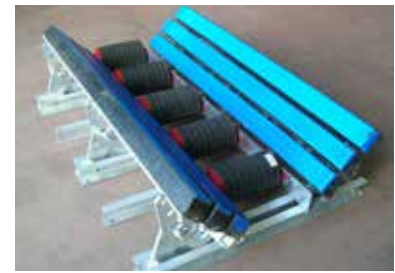


HEAVY DUTY IMPACT BEDS

Heavy Duty Impact Beds are placed under the belt at loading points to absorb impact forces imparted from larger than normal lump sizes, or larger fall heights. Heavy Duty Impact Beds are constructed from heavy gauge material to withstand impacts from variable lump sizes or shapes, or where the discharge point is higher than normal and impact forces are increased. Typical applications are at Run of Mine (ROM) handling areas and crushing stations.

Trelleborg Heavy Duty Impact Beds incorporate a fully welded heavy gauge steel plate construction, large diameter pins, and highly absorbent impact bars. This forms a complete structural system to support impact forces and protect the belt from damage in the loading area. Trelleborg can construct a bed to suit any fall height and lump size combination.

Trelleborg Heavy Duty Impact Bed's side wings can be laid totally flat, thus allowing the bed to be slid out from under the belt for maintenance. Particularly on larger belt widths in the 1000mm to 3000mm range, removal of the bed allows maintenance to be conducted at the center of the bed where maintenance personnel would otherwise be unable to reach, or where production schedules require rapid change out of the entire bed.



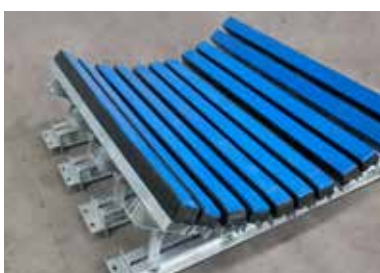
HYBRID IMPACT BEDS

Hybrid Impact Beds are positioned under the belt at loading points where materials are small to fine in size, and standard impact idlers do not provide sufficient control of the belt edge in the skirting contact area. Impact bars along the side of the bed provide a greater level of control of the belt edge and assist in maintaining the seal between skirting rubber and belt, thus reducing material leakage & dust emissions.

Hybrid Beds incorporate robust steel construction, quality plain or impact rollers through the middle of the bed, and impact bars that eliminate belt sag and movement associated with load shifts, starting and stopping of the belt, and material falls within bins that sometimes occur with fine materials. Hybrid Beds are custom designed for each application.

Trelleborg advantages

- Unique construction methods result in a stronger, easily serviceable support frame
- Superior UHMWPE topped impact bars minimise belt wear
- Impact beds are individually designed to match the adjacent idlers improving skirt sealing
- Impact bars are available 3 standard heights - 51mm, 76mm and 100mm
- Impact beds can be up to 1500mm long
- Bed can be serviced from either side of the conveyor
- All sections are fully welded and galvanised.



CUSTOM IMPACT BEDS

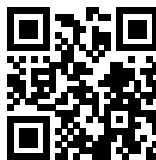
Trelleborg can custom design and manufacture impact beds to suit any application. Custom designed impact beds can be finished with any protective coating system, including, but not limited to:

- Galvanized
- Painted to project specification and color
- Manufactured from stainless steel.

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

WWW.TRELLEBORG.COM

Scan here to view more product information



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