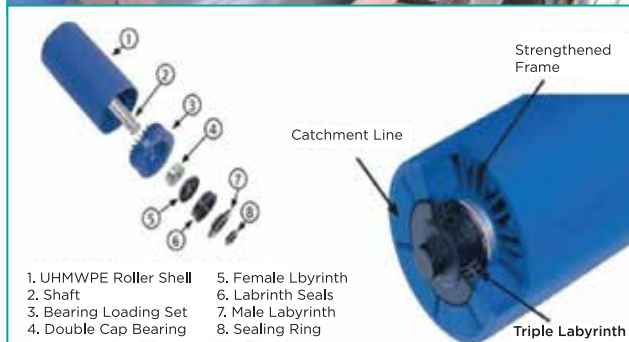
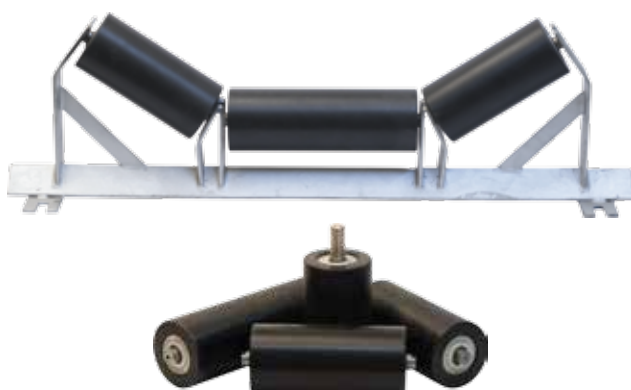


MATERIAL HANDLING

POLYSTEEL® ROLLERS

The design of POLYSTEEL® Rollers incorporates a surface which resists build up and bearings that are sealed for life and do not require lubrication. These features result in longer belt life, less down time and more cost effective operations. In addition to it to further improve an absolute corrosion resistant. A rigid Polymer composite shaft & a polymer bearing which further enhances the life of a polymer roller. How POLYSTEEL® ROLLERS benefits compared to Metallic rollers:

- Reduced weight helps in power saving almost (1/6th the wt. of Metallic roller).
- Chemical resistant.
- Noiseless operations (reduction in squeezing sounds during its run).
- Avoids damage to the belt (increased belt life).
- Good nonstick property compared to metallic & rubber coated rollers.
- Good Abrasion resistant.
- UV stabilized & best suited in harsh & dusty environments.



Available in following Size diameters – 90, 115, 125, 140, 150mm and other customized sizes.
MOC: POLYSTEEL – N, POLYSTEEL –WR, POLYSTEEL –U grades depending upon application use proper grades are selected.

Shafts: EN8, SS, And Composite material, Seals: Labyrinth seals made from PA (Nylon)

Bearings: SKF / FAG make BB1420204, BB1420205 or Customized POLYSTEEL Polymer bearings.

APPLICATIONS

- Cement Plants
- Chemical & fertilizer Industries
- Foundry's
- Steel Plants
- Glass Industries
- All type of Mines
- Mineral & Iron ore plants
- Coal plants
- Quarry's etc....

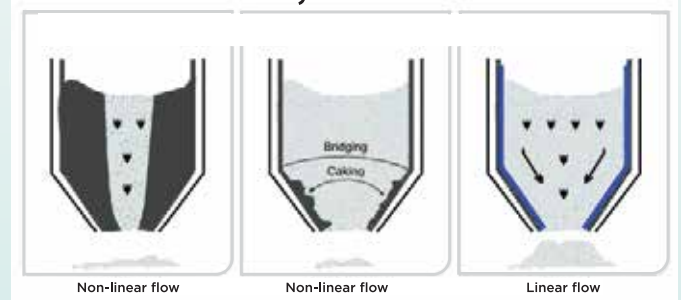


POLYSTEEL® LINERS

The outstanding properties of POLYSTEEL® makes it a unique material, and gives exceptional results which has helped a lot in BULK MATERIAL HANDLING SYSTEM to resolve problems of Jamming, choking, Rat-holing etc in Hopper, chutes, Bins & Bunkers. Some of its exclusive features are-

- Outstanding abrasion resistance.
- Highest impact resistance of any plastic.
- low coefficient of friction
- Nonstick, self-lubricating surface
- Good chemical resistance
- Negligible water absorption
- Excellent properties at cryogenics conditions
- Good stress crack resistance
- Good energy absorption & sound – dampening

Polysteel liner

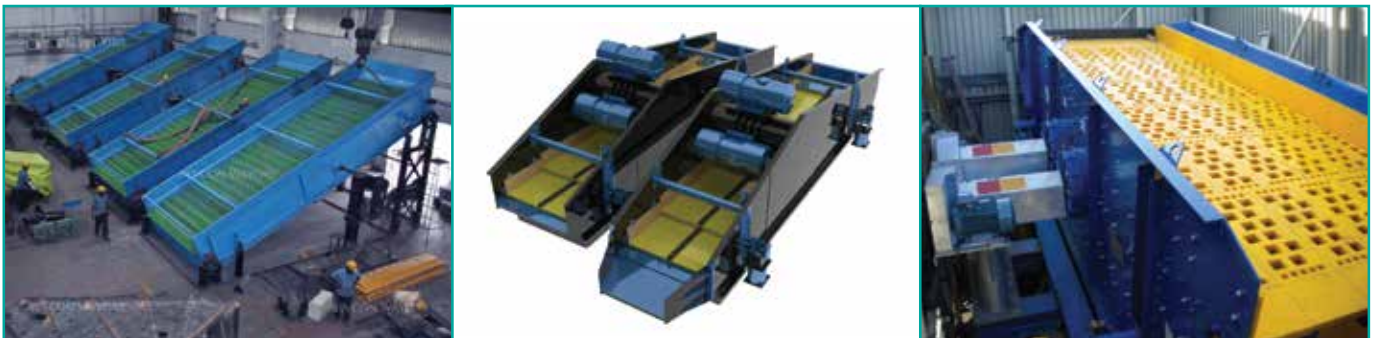


SCREENS

These screens are made to customer's requirement in different size & shapes special grades are available depending upon application details generally preferred Materials for screening are

POLYSTEEL -WR, POLYSTEEL -U

The major advantage of using these grades of materials is it has an extremely good Impact strength, abrasion & wear resistance property these are widely used in Mining sectors, fertilizers, sand plants, Paper industry, Glass Industry, cattle feed industry, coal handling plants etc.



BELT SCRAPPERS

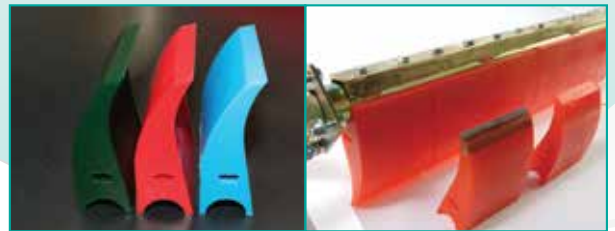
A multi cleaner system (Primary & secondary) adopted by POLYSTEEL® products has become a common standard for all pattern of conveyors & its cleaning systems with our continual development and market study along with the team of experts we got the capability to develop self- aligned elasto-mount Multi blade scrappers with individual tips and with variants pertaining to the kind of application and also develop customized solution for cleaning of belts.

Following are the basic factors which need to be known before implementing on the selection of scrapper and its mounted tips for efficient cleaning-

- Kind of material to be cleaned.
- Lump size of the material.
- Moisture content in the material.
- Is there any scrapping idler installed.
- Is there any joint on the belt which is being protruded which may damage the scrapper?

CLEANING ELEMENTS

- UHMWPE
- POLYURETHANE
- TUNGESTEN CARBIDE
- POLYSTEEL - WR
- CERAMIC
- RUBBER



SALIENT FEATURES

- Highly abrasion resistant blades for all type of material conveyed
- Suitable for all belt widths & speeds
- Excellent durability
- Low space requirements due to compact design
- Helps in increasing conveyor efficiency
- Increases life of belt
- Helps in avoiding spillage over the length of conveyor
- Less maintenance
- Optimum belt protection
- Low operation cost
- Self alignment with belt due to elasto mount technique
- Due to effective cleaning it also helps in reducing the ampere load



POLYSTEEL SKIRTINGS

We also provide Customized belt cleaning system depending upon application.

BELT SKIRTINGS

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.

To seal the gap between the bottom edge of the skirt board and the moving belt, lateral rubber strips are introduced. This helps in controlling the spillage but only to a limited extent, as the strip could not be adjusted to match with the belt profile. Hence a self-adjustable skirt guide system is introduced.

Selection of Material skirt guiding depends on the application use, speed of belt, temperature of material being conveyed



IMPACT PADS

The loading zone in a conveyor system is an area that needs critical attention. The traditional method of providing production to the conveyor belt uses impact idlers sheathed in rubber sleeves or rings, thus cushioning the impact of falling material. However, this system has several functional disadvantages- in particular, the accumulation of dust & grime in the moving parts & the corrosion & damage of bearings & stringers. All of these leads to seizure & breakdown. Impact idlers therefore require rigorous maintenance throughout plant operations, which means severe downtime problems.

With the introduction of POLYSTEEL® GLIDING & CUSHIONING IMPACT PADS, Such problems are largely eliminated. Designed for the adverse working conditions in which conveyors operate at material handling stations, POLYSTEEL® GLIDING & CUSHIONING impact pads reduce downtime & maintenance costs considerably whose major advantages are as under-

SOME IMPORTANT FEATURES:

- 1) NO MAINTENANCE - Fit & Forget
- 2) MINIMIZES BELT DAMAGE
- 3) REDUCES SPILLAGE AT LOADING ZONE
- 4) MODULAR & ADJUSTABLE SUPPORT FRAME
- 5) MINIMIZES BELT SWAY.



ECONOMICS OF THESE POLYSTEEL® PADS

- a) Increased belt life: As friction between polymer and rubber is much lower than that compared between steel and rubber, belt wear is reduced, More over the sagging of belt between idlers is eliminated thus increasing belt life.
- b) Power savings: As the sagging of belt is eliminated, belt is being properly hold at loading zone and failure of Idler due to bearings or any other reason is also eliminated due to which the drag ging load of belt is reduced due to very low co-efficient of friction when compared with Impact rollers hence the starting torque is much lesser, resulting in min of 20% savings on power.
- c) Ease in maintenance : Almost zero Maintenance cost.
- d) Double life span : As no rotating element is there no need of any maintenance and POLYSTEEL exhibits very low co-efficient of friction as well as highly abrasion resistance properties which helps in enhancing the life of belt.
- e) Antistatic formulation : The polymer material could also be made antistatic and hence it could be absolutely free from sparking

APPLICATION FIELDS

- a) Chemical Industries - Fertilizer, Salt, Sugar, Pulp Paper, batteries....
- b) General Industry - Coal Mining, Cement, Concrete, Limestone and Quarry...



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