



XHD PRIMARY CLEANER

Carryback from conveyor belts is an everyday occurrence, resulting in reduced operation efficiency, reduced safety, increased maintenance costs and increased environmental contamination.

Planned maintenance shutdowns of conveyor belts are necessary to achieve effective and continual bulk handling operations. However, while conveyor areas are down production time is lost, so it is important to safely and quickly perform blade change outs to assure optimum cleaning efficiency.

The XHD Primary Cleaner is available in a range of configurations to suit all applications. ESS representatives can recommend the best combination of options for any belt cleaning problem.

ESS offers a wide variety of blade materials and a range of different widths to suit many various purposes. There are different types of tension devices to suit the job and a range of mainframe materials to suit your area and application.

FEATURES & BENEFITS

BLADE TYPE

Modular blade design provides increased wear life and ability to change blade order or material.

Constant Angle, Radial Pressure (CARP) blade profile assures that there is a consistent even blade to belt contact throughout the life of the blade. This provides effective and protective cleaning.

Variety of urethane types allow blades to conform to the belt profile and conditions.

The Patented "Keysafe" feature allows blade removable from outside the chute blade by blade. This eliminates the risk potential from both manual handling and confines space issues while servicing the cleaners. The reduced time needed to perform maintenance means that valuable downtime can be minimised.



Urethane blade material protects the belt surface and splices from damage and is designed to fold back and pull through rather than damage the conveyor belts surface or splices if the belt reverses or experiences rollback. The risk of conveyor belt damage or replacement and subsequent downtime to repair or replace is effectively reduced.

MAINFRAME

The mainframe is available in either mild steel or stainless steel constructions; this means that corrosive environments can be catered for. The mainframe can be customised to suit different sized stringer lengths.

TENSIONING DEVICES

There are several typed of tensioning device available to maintain the blade to belt pressure throughout the life of the blade. This provides optimal cleaning performance while preserving blade wear rates removing material that would otherwise pass between the belt and the blade surface.



Differing styles of tensioning device are and can be customised to suit what is available on each plant. ESS tensioning devices allow blade adjustment while the conveyor is still running from outside the chute, allowing the applied pressure to be fine-tuning without the need to stop production.

HOW IT WORKS

The XHD Primary Cleaner from ESS is explicitly designed for severe applications where conventional Primary Cleaners suffer damage, high wear rates or simply can't handle the workload.

It is used on conveyor belts that have large head pulleys, wide head chutes, high speeds or handle abrasive materials.

The XHD Primary Cleaner is mounted on the face of the conveyor belt head pulley. The blades face against the direction of belt travel and are designed to scrape off the thick layer of loosely adhering material that often accounts for up to 80% of carryback.

The XHD Primary Cleaner is generally used in conjunction with at least one secondary cleaner, such as the Inline Premium Secondary Cleaner and is recommended to be used with a water spraying system. The blades are of cast urethane in a range of grades, shapes and sizes for various applications, plus a tungsten carbide tipped version for very abrasive materials. The track mounted mainframe allows easy blade replacement from one side of the conveyor. A cleaning system can be customised to suit your application and maintenance requirements.

Belt Cleaner Dimensional Data

Belt Width	600	750	900	1050	1200	1350	1500	1600	1800	2000	2200	2400
No. of STD Blades	3	4	5	6	6	7	8	9	10	11	12	13
Blade Cover	495	660	825	990	990	1155	1320	1485	1650	1815	1980	2145
Frame Length	1400	1600	1800	1950	2100	2300	2450	2600	2800	3000	3300	3600

BACK UP AND SUPPORT

ESS backs up its products 100%. We proudly manufacture all our products at two separate locations in Australia.

ESS maintains local stores and service crew's in most Australian mining centres. Service crews are available for installation, service, inspection and troubleshooting.

ESS design team provide a solution to your specific plant requirements.

