



# ESS

## TOTAL MATERIAL CONTROL

Belt Cleaning Systems

Big Blaster Air Cannon

Sealing Systems

Belt Tracking Systems

Belt Support Cradle

Impact Bed

Silo Cleaning Systems

Dust Control



**ROCKTEC**  
*Rock Technology*



# ESS

## TOTAL MATERIAL CONTROL

ESS manufactures a range of Belt Cleaning Systems to suit your every need. A correctly applied and maintained Belt Cleaning System will have your Conveyor Belt BLACK in no time.

Benefits from ESS systems are:

- Reduced clean up costs
- Reduce Idler replacement
- Lengthens your Conveyor Belt life

Talk to Rocktec about the possibilities for your site.

### ➤ TRAC-MOUNT® Primary Cleaner

Normally mounted on the face of the head pulley, the TRAC-MOUNT® Primary Cleaner's urethane blades efficiently peel the adhering material from the belt surface.

The Stainless Steel track and blade carrier interface, means the blades simply slide on/slide off the cleaner under all operating conditions. Inspection and maintenance is quick and easy.

#### Cleaning Options:

The TRAC-MOUNT® Primary cleaner is available in a range of configurations to suit all applications. Rocktec can recommend the best combination of all options for any belt cleaning problem.

#### Tensioners

- Compression Spring Tensioner (Standard)
- Air Tensioner
- Twist Tensioner

#### Urethanes:

- Orange Urethane - standard applications
- Blue Urethane - high wear applications
- Green Urethane - high temp applications
- FRASthane 750 - underground coal

#### Blades:

- Standard - 125mm Wide Segment

#### Construction:

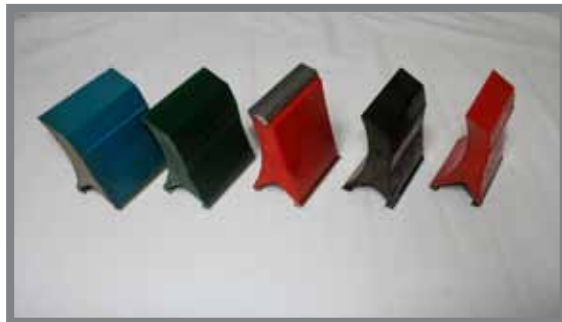
- Standard Mild Steel
- Stainless Steel

#### Belt Width:

- Available from 450mm through to 2400mm

#### Also available:

- XDH Primary Cleaner
- Durt tracker Primary Cleaner
- Compact Cleaner



## ➤ Standard In-Line secondary Cleaner

### Advantages for the Standard In-line Secondary Cleaner are:

#### Effective & Durable:

- Tungsten carbide tips provide effective cleaning over extending service.

#### Simple Mounts:

- With the use of Tungsten Tips and using the Urethane base to store torque, the simple jacking screw is an effective low cost solution.

#### Cushions Splice Shock:

- Urethane Blade base flexes to absorb impact and take up any irregularities in the belt.

#### Installs in Small Places:

- Narrow profile minimises space requirements.

#### Minimal Risk to Belt:

- 90 blade to belt angle is safe for the belt, the splice and the cleaner.

#### Blades:

- Orange Urethane
- Tungsten Carbide Tipped (Standard)
- ABR Steel

#### Belt Width:

- Available from 250mm through to 2400mm

#### Also Available:

- In-Line Premium Secondary Cleaner
- Durt Tracker Torsion Arm Secondary cleaner
- Durt Hawg/Hawg Bone secondary cleaner
- Compact Secondary Cleaner



## ➤ Return Belt Cleaner

The RBC® Return Belt Cleaner utilises Polyurethane support straps, lightly pretensioned to hold the cleaner against the belt. Chatter is eliminated, as the cleaner floats and responds to every belt movement. The ESS RBC features a urethane blade for long-life and efficient cleaning and can also be supplied in Mines Department approved Frasthane 750 for underground applications.

Interlocking left and right blade wings mean easy blade replacement. Locking pipe mounts allow pre-tensioning of polyurethane support straps. Clamp type mount bracket for versatility in installations. No welding means no chance of weld induced pipe failure.

Safety Chain for total protection of conveyor system.

Shovel nose cone, common to all belt widths ensures unsurpassed belt cleaning efficiency.

#### Blades:

- 140mm through to 838mm Wide Segment

#### Construction:

- Standard Mild Steel
- Stainless Steel

#### Belt Width:

- Available from 600mm through to 1600mm

#### Also Available:

- Heavy Duty Unit



## ► Transfer Point Impact Bed

### ESS Guardabelt Impact Cradles

In transfer points where impact of large lumpy material is experienced, the frequent impacts can damage the belt, idlers or conveyor support system.

To absorb the punishing stress of loading, install a guardabelt impact cradle under the belt. Composed of energy absorbing Guardabelt bars and heavy duty adjustable frame, this impact cradle will absorb and dampen the shock of loading, reducing damage and improving belt stability and sealing.

### Trac-Mount Cradles

To further reduce maintenance, ESS GuardBelt Impact Cradles feature our exclusive Trac-Mount design. Individual bars are mounted on slides as are the wing assemblies. Bars can be inspected or changed in minutes by simply

sliding in a new one. This feature, coupled with ESS policy of designing each cradle to suit its application, means that site installation time is also dramatically reduced.



## ► Belt Sealing System

After a conveyor Belt is correctly supported, the next step in containing fugitive material is to seal the transfer point.

ESS offers a range of sealing and clamping products:

### ESS 2000

- A clamp and sealing system for the low height applications

### Apron Seal

- The perfect addition for the ESS 2000

### Heavy Duty Apron Seal

- A primary and secondary seal in one for those heavy applications.

### Quiklok Clamps

- A clamp system for the Heavy Duty Apron Seal

### Trac-Mount Skirtboard

- Adjustable Segmented block



## ► Air Cannon

### Big Blaster Air Cannon

ESS manufacture the Martin® Big Blaster Air Cannon, fitted with the Martin external piston valve. The external piston valve is the most efficient and most reliable air cannon valve available. Introduction of the new Martin® XHV External Valve for high temperature applications has extended this product superiority to all air cannon applications. The blaster pressure vessels are manufactured strictly to Australian standard codes and for most sizes approved for up to 1,000,000 firing cycles.

The superiority of the Martin® Product is complemented by ESS' expertise in the application of air cannon technology. ESS engineers have far greater experience and training in the placement and operation of the Big Blaster than any Australian competitor, to the point that we guarantee total client satisfaction,

in any Big Blaster application recommended and designed by ESS.

ESS before and after sales, service will combine with our superior products and technical expertise to ensure an effective solution to almost any bulk material flow problem.



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