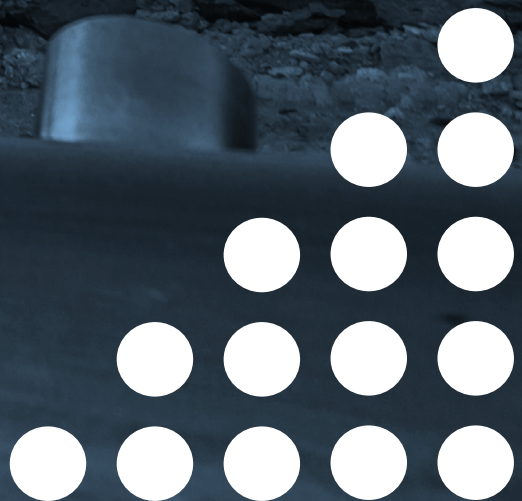


# ProSpare

Make it better.

**BULK MATERIALS HANDLING  
DEPARTMENT**





# ProSpare...

... helps companies handling powders, granular materials and bulk raw materials to improve manufacturing processes.

Through the application of innovative bulk materials handling and powder processing components or spare parts we can improve the performance of your key pieces of production equipment. This targeted approach to process improvement helps clients get the most out of both the process equipment and production facility as a whole.

Whether it be; improvements in productivity, improvements to health, safety & wellbeing, or reducing maintenance and costs – we’re confident our high-performance components manufactured by world leading materials handling equipment specialists can help.

## THE BULK MATERIALS HANDLING DEPARTMENT...

... are our team specialising in improving belt conveyor performance and safety. Formed in 2016, they help to reduce your maintenance commitment on this often troublesome part of the plant.

With leading high-performance products and a dedicated, highly knowledgeable team, we’re becoming first-choice for many looking to improve their belt conveyors through belt cleaning, tracking and sealing equipment upgrades.

Our UK network of service engineers provide the highest levels of installation expertise, and pride themselves on their thorough aftersales support.

STARCLEAN

Sustainability by Innovation



Innovative, modular, belt cleaning technology from leader - Schulte Strathaus.

- Primary, secondary & chevron cleaners
- Smart scraper with digital dashboard

CenTrax®



Durable, low maintenance, belt tracking units from leader - TBK Group.

- Carrying strand and Return strand
- Automatically correct misalignment



Spill-Ex®

SealTek®




Belt and maintenance friendly sealing solutions from leaders - TBK Group & Schulte Strathaus.

- Simple to maintain skirt sealing systems
- Durable impact beds

Matrox®

HAWIFLEX®



High-performance lining materials that reduce maintenance downtime & improve the process.

- Matrox® and PE1000 low friction liners
- Hawiflex® high-performance polyurethane






# BELT CLEANING



STARCLEAN® conveyor belt cleaners save time and money by reducing conveyor downtime, wasted material, manual handling, clean-up time, dust emissions, and health and safety concerns associated with material carryback.

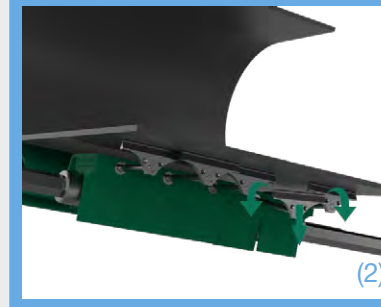
Created by specialist manufacturer of conveyor belt scrapers, Schulte Strathaus, the innovative STARCLEAN® design is developed from a conveyor belt supplier's perspective - providing optimum protection for the conveyor belt and increased scraper lifespan.

STARCLEAN® is used around the world in a wide variety of industries. Here in UK, sole distributor ProSpare introduced this leader in belt cleaning technology in 2016:

-  2500+ units installed in UK
-  Free site surveys. 30-day performance trials
-  Service Contracts & Belt Plans available
-  Large stockholding of components and spare parts
-  MPA Health & Safety Award Winner 2024



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## TWIST-SWING® independent blade tensioning

- Optimum contact between each scraper segment and belt
- Protects the belt and maximises wear life of the blades
- Ability to evade obstacles

TWIST-SWING® scraper blade segments feature their own separate spring, cleverly integrated into the polyurethane mounting foot. This allows for truly independent blade tensioning.

As each blade segment moves separately, they maintain optimum cleaning contact with the belt, irrespective of wear levels of adjacent blades. <sup>(1)</sup>

TWIST-SWING® blades also deflect in the opposite direction, away from the belt <sup>(2)</sup>. This protects conveyors and reduces the risk of failure in the event of belt or pulley lagging damage.



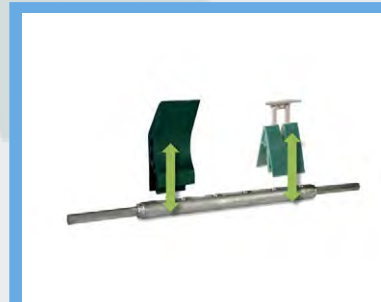
## User-friendly design. Simple to maintain.

- Quick-release tensioners
- Tool-less scraper blade replacement
- Takes seconds to disengage, maintain and re-tension

The STARCLEAN® range contains a number of innovative tensioning devices. The quick-release "Raster" and "Torsion" tensioners allow for rapid disengagement and re-tensioning of the scraper. <sup>(1)</sup>

Slot-in blade segments are quick and simple to remove, making cleaning or replacement easy. <sup>(2)</sup>

This user-friendly design means site staff can quickly and safely carry out maintenance and housekeeping, keeping both costs and downtime to a minimum.

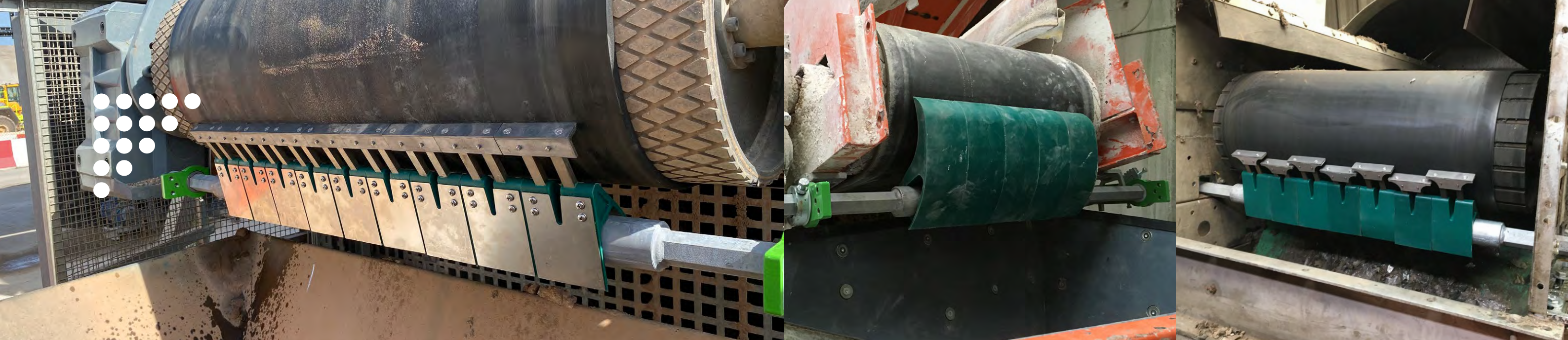


## Unique, highly flexible, modular system.

- Get the perfect spec. React to changes on-site.

Manufactured from top-quality materials, the truly modular system is built from interchangeable components. A combination of wear resistant blades, precision engineered tensioners, and durable blade bases can be spec'd to provide optimal performance in a wide range of applications.





## PRIMARY CLEANERS

STARCLEAN® primary cleaners are fitted at the “on-head” position of the head pulley. They can be used alone, or as a pre-cleaner in combination with a secondary cleaner for the highest levels of cleaning performance.

Highly wear-resistant polyurethane (PU) bladed cleaners are effective, versatile, and friendly to all belts.

Tungsten carbide bladed cleaners require minimal adjustment and are extremely effective at removing fines and moisture. They also provide an alternative to ‘under belt’ secondary cleaners where space limits installation.

### Specification examples:

#### ONE:

**TWIST-SWING® polyurethane 281n blades. 720 Torsion-tensioner**

- Suitable for reversible belts
- Suitable for mechanical joints
- Tool-less blade removal
- Quick-release tensioning device

#### TWO:

**TWIST-SWING® tungsten carbide 86n blades. 830 Raster-tensioner**

- Suitable for reversible belts
- Use with vulcanised joints only
- Tool-less blade removal
- Quick-release tensioning device

#### THREE:

**TWIST-SWING® heavy-duty 681n blades. 720-HD Torsion-tensioner**

- Heavy duty blades and double tensioner for large drum diameters
- Suitable for reversible belts
- Suitable for mechanical joints

### BLADES:

Suitable for:

- ▲ = Mechanical joints
- = Reversible belts

### TWIST-SWING® polyurethane - standard duty



### TWIST-SWING® tungsten carbide - standard duty \*\*



### TWIST-SWING® heavy duty blades



### TENSIONERS:



Blades available in: Standard urethane 70° C (Green)  
ATEX & FRAS (Black) / High-Temp 120° C (Biege)  
Food Grade (White) / Hydrolysis Stabilized (Blue)

\*\*

Unless otherwise stated, tungsten carbide blades require the belt to be in good condition with hot vulcanised joints.



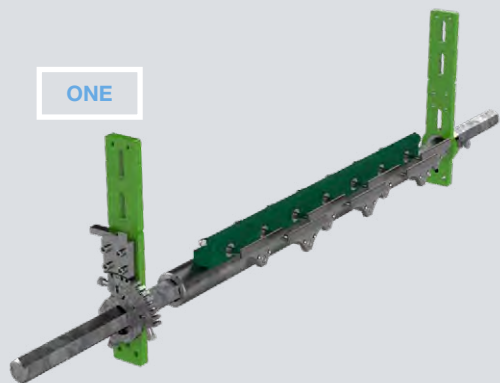


STARCLEAN® secondary cleaners are fitted in the “under belt” position, on or behind the nip point.

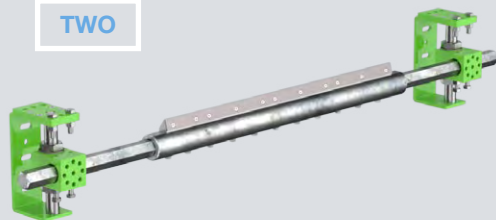
The optimal choice for many. They utilise tungsten carbide blades and provide the benchmark for high efficiency removal of fines and moisture, offering the highest levels of conveyor cleaning performance.

For demanding applications, secondary cleaners can be paired with primary position pre-cleaners for the ultimate cleaning efficiency.

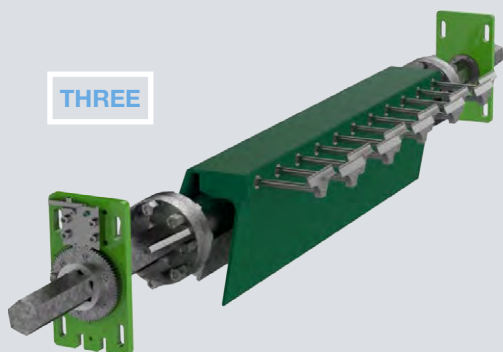
ONE



TWO



THREE



### Specification examples:

#### ONE:

**TWIST-SWING® 53Sn blades. 830 Raster-tensioner**

- Overlapping cleaning pattern
- Polyurethane pre-cleaning lip
- Tool-less blade removal
- Quick-release tensioning device

#### TWO:

**Fixed 09hm blades. 980 Spindle-tensioner**

- Suitable for reversible belts
- Low profile design

#### THREE:

**TWIST-SWING® heavy-duty 66n blades. 830-HD Raster-tensioner**

- Heavy duty blades & tensioner with torque amplifier for easy pretensioning
- Tool-less blade removal
- Quick-release tensioning device
- Overlapping cleaning pattern

### BLADES:

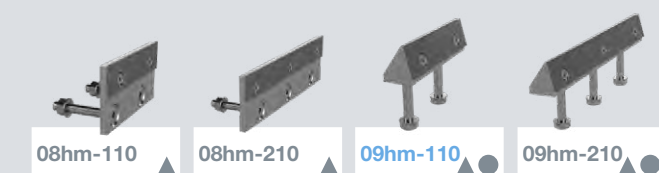
Suitable for:

- ▲ = Mechanical joints
- = Reversible belts

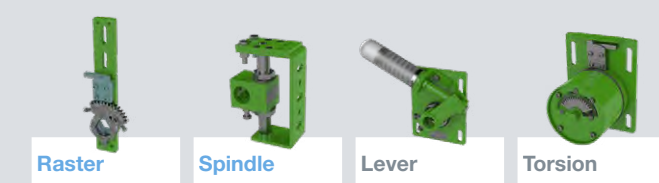
### TWIST-SWING® tungsten carbide blades \*\*



### Fixed, low profile, tungsten carbide blades \*\*



### TENSIONERS:



Blades available in: Standard urethane 70° C (Green)  
ATEX & FRAS (Black) / High-Temp 120° C (Biege)  
Food Grade (White) / Hydrolysis Stabilized (Blue)

\*\*

Unless otherwise stated, tungsten carbide blades require the belt to be in good condition with hot vulcanised joints.





## CHEVRON CLEANERS

The STARCLEAN® chevron cleaner provides a good level of cleaning in a traditionally challenging application.

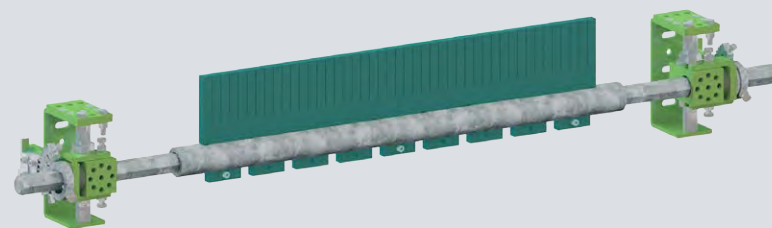
This secondary position cleaner is fitted in the ‘under belt’ position on the return strand, just after the head pulley.

With flexible polyurethane “fingers” cleaning deep into the cleats, the STARCLEAN® chevron series is a low cost and reliable alternative to technologies such as brush cleaners or air knives.

### Specification example:

Polyurethane 07n finger blade. 980 Spindle-tensioner

- Simple to install, maintain and adjust
- Single piece blade, formed into flexible fingers
- Wear resistant polyurethane

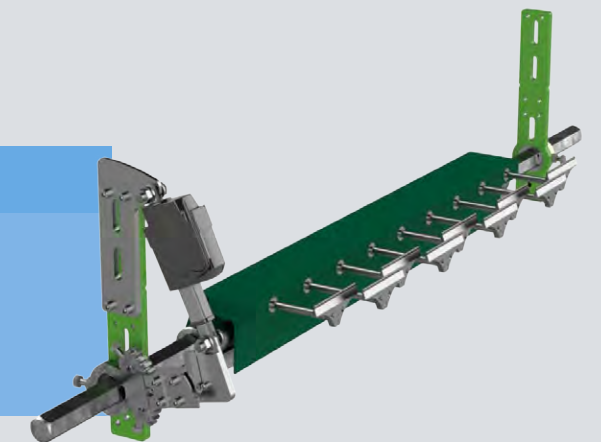


## NEXT-GENERATION CLEANERS

Schulte Strathaus continually develop the STARCLEAN® range. They strive to create solutions that make belt cleaner operation and belt cleaner maintenance less onerous for both operators and maintenance teams alike. Here are just two recently introduced examples:

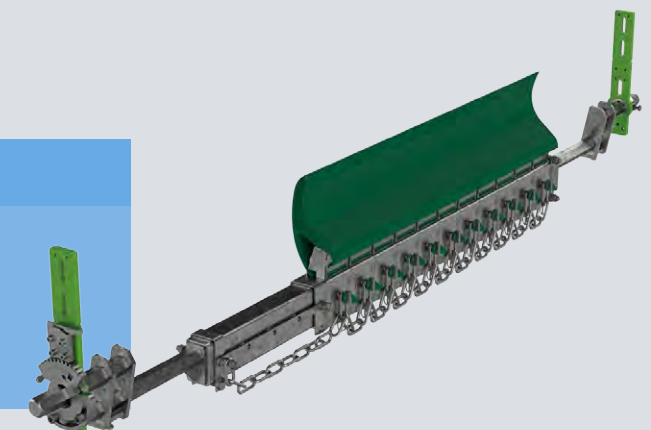
### Series 830-E: Automatic Tensioning Device

- Electric liner drive unit
- Suitable for reversible operation
- Interval-based or load-based cleaning operation
- Versions for primary cleaners and secondary cleaners

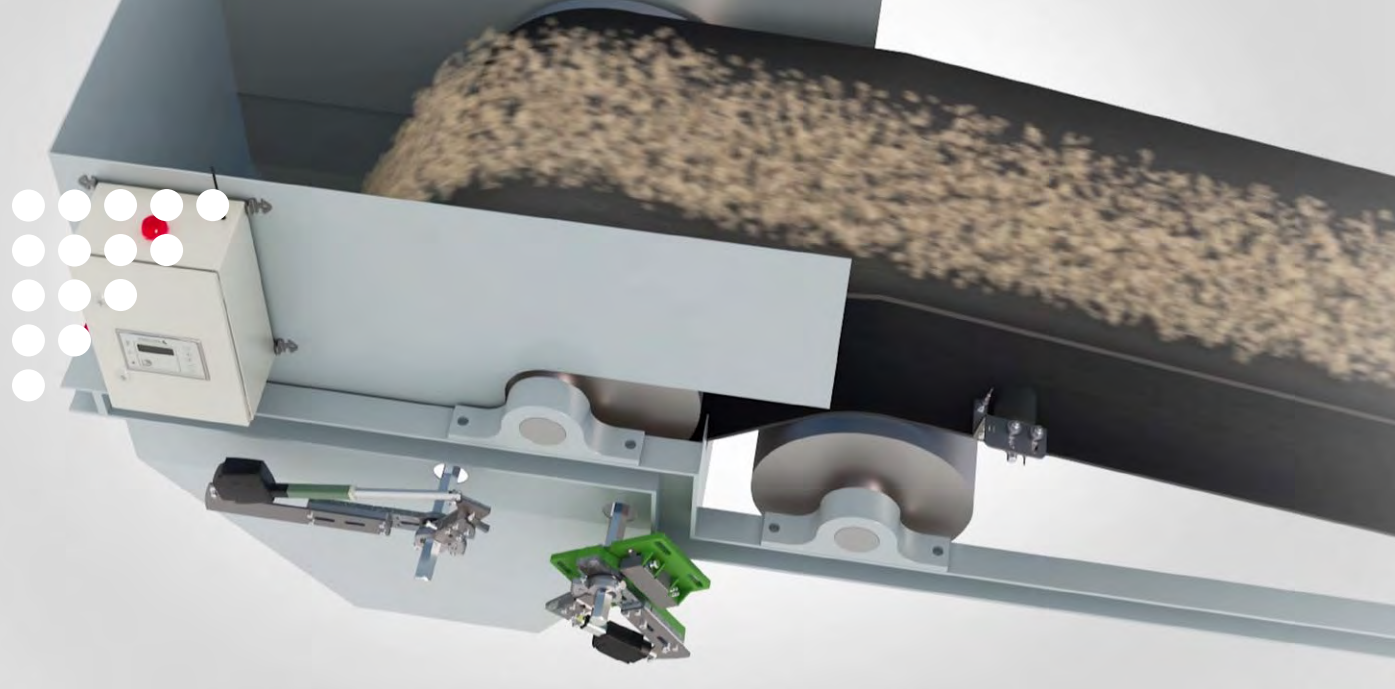


### Series 860-RS: For external maintenance

- Allows safe, easy, and quick maintenance from the outside of the transfer chute
- Blade segments are mounted into carriages that slide laterally along the blade base for side access







## S<sup>3</sup> - STARCLEAN® SMART SCRAPER

- Continuous monitoring
- Damage limitation
- Efficient use of resources
- Improved operating reliability
- Transparency
- Prevention of costly, unscheduled conveyor downtime

STARCLEAN® S<sup>3</sup> is a unique smart scraper with an electric drive. When combined with the smart cloud dashboard, it enables predictive maintenance of wear elements through preventive damage detection on the conveyor belt.

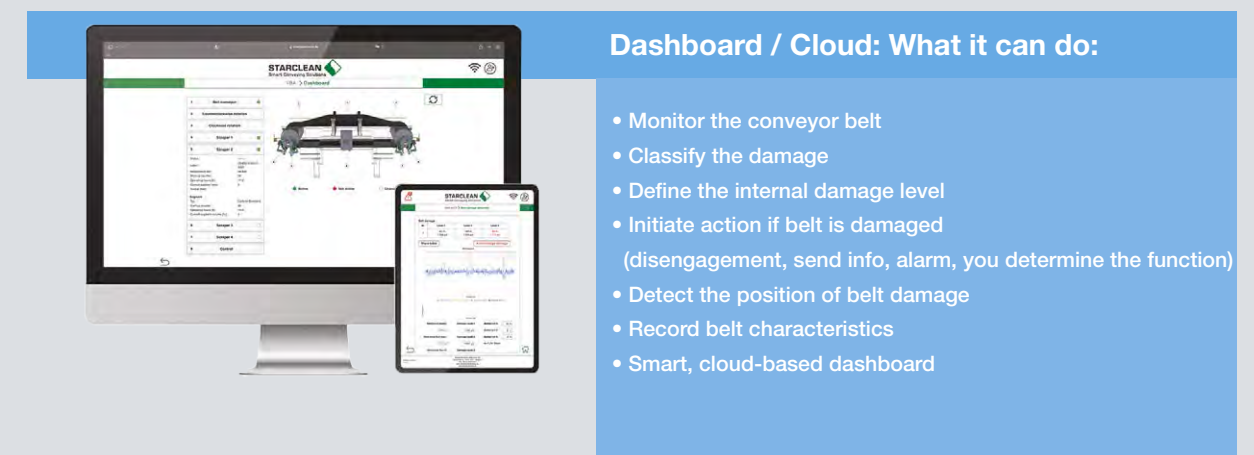
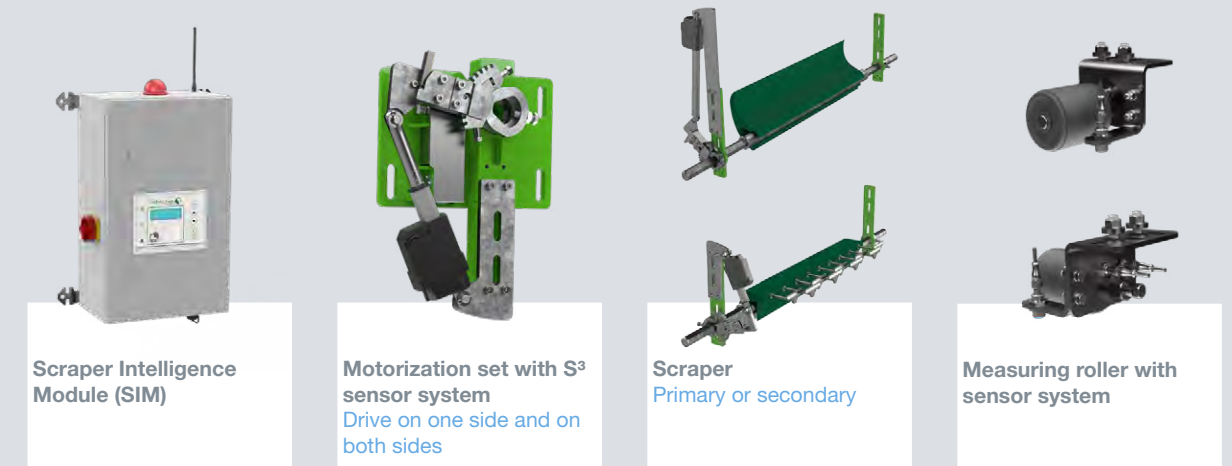
This digital innovation gives the scraper the ability to self-regulate wear and tear, whilst also ensuring a constant pretensioning force – completely automatically.

Designed to the “**detect - react - protect**” principle, S<sup>3</sup> enables continuous contact-based inspection of the belt, thus enabling predictive maintenance.

### Technical applications:

- Automatic or manual engagement and disengagement of belt cleaner
- Automatic readjustment of the pretension
- Wear indicator and warning for polyurethane scrapers
- Constant belt damage detection by the secondary scraper
- Operating hours display for belt conveyor, scraper, and wear parts
- Switch-on, engagement and disengagement counter
- Indicator of conveying speed and running direction
- Control for up to four scrapers
- RFID access with rights allocation to protect against unauthorized access
- Information about the belt conveyor, the scrapers, and the control system
- Error messages and faults

### S<sup>3</sup> Modules:



### Dashboard / Cloud: What it can do:

- Monitor the conveyor belt
- Classify the damage
- Define the internal damage level
- Initiate action if belt is damaged (disengagement, send info, alarm, you determine the function)
- Detect the position of belt damage
- Record belt characteristics
- Smart, cloud-based dashboard



# BELT TRACKING



CenTrax quickly and automatically correct conveyor belt misalignment. These highly effective and reliable tracking roller units help to prevent unplanned downtime and reduce spillage, wastage & recurring damage.

The CenTrax rollers are coated in a diamond-pattern lagged rubber, which provides a high friction surface for the belt to grip against. A special wear resistant compound also offers excellent durability whilst ensuring belt-friendly operation.

The maintenance-free system requires no operator intervention following installation, resulting in minimal downtime.



Automatically correct misalignment



Robust, maintenance free construction



High quality, durable bearings



Roller coated with diamond-pattern special rubber



4000+ units installed worldwide



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FOR WEBPAGE

## How CenTrax works:

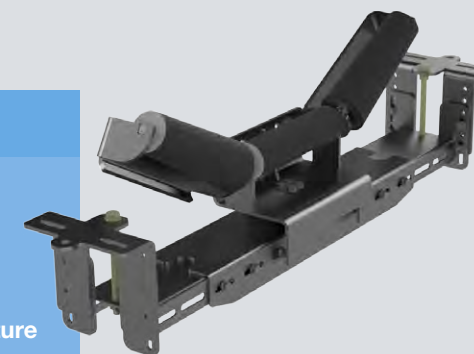
The tracker steers the belt back into position using a mechanical feedback system.

As the misaligned belt travels over CenTrax, the unit automatically swivels or tilts to change the axes of rotation, so as the belt moves forward it is driven back onto the correct line of travel.



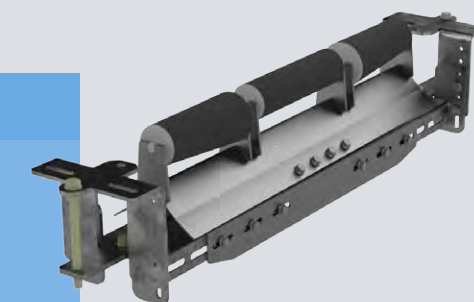
## CARRYING STRAND: Type SK & S

- Construction: Multi-piece roller
- Belt direction: Suitable for reversible belts
- Max belt speed: 6m/s
- Belt widths: 650mm - 1800mm
- Unique swivel bearing is unaffected by dirt, dust and moisture



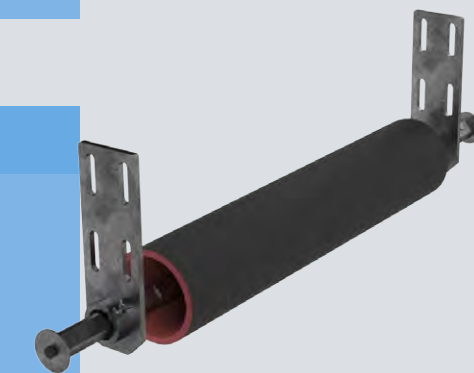
## RETURN STRAND: Type SO & SKO

- Construction: Multi-piece roller
- Belt direction: Suitable for reversible belts
- Max belt speed: 6m/s
- Belt widths: 650mm - 1800mm
- Unique swivel bearing is unaffected by dirt, dust and moisture



## RETURN STRAND: Type SR & SRG

- Construction: Single piece roller
- Belt direction: Single direction
- Max belt speed: 3m/s
- Belt widths: 650mm - 1400mm
- Ideal for installations with minimal space





# BELT SEALING



As part of a loading point solution, conveyor sealing systems and impact beds help prevent material spillage, control dust emissions, and protect conveyor structures & components.

We work with industry leading manufacturers, TBK Group and Schulte Strathaus, who's modular solutions are proven worldwide to offer easy installation, simple maintenance, and high-performance over the long-term.

As components are designed to help protect the belt, we stock a comprehensive set of spares and wear parts on our shelves in UK to keep maintenance time to a minimum.



Industry leading sealing solutions from TBK Group



Innovations from STARCLEAN®



Expert engineers specify optimum solution for you



Comprehensive spare parts stockholding



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## SealTek

- Independent, Interlocking & overlapping blocks provide excellent seal
- Simplest adjustment. Simply tap blocks with hammer
- 
- Installation Gap - 5mm to 20mm      • Block adjustment - 60mm
- Wear plate - Mild steel/Hardox 400      • Dimensions - 1000mm (l) x 149mm (h)



## Spill-Ex LPS

- Blocks independently adjusted to contours of belt
- Unscrew single bolt for quick and simple maintenance
- 
- Installation Gap - 15mm to 20mm      • Block adjustment - 45mm
- Backing plate - Galvanised steel      • Dimensions - 1000mm (l) x 150mm (h)



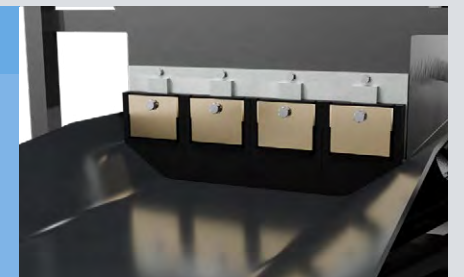
## Spill-Ex BSS & BSR

- Designed for installation where minimal space is available
- Blocks independently adjusted to contours of belt
- 
- Installation Gap - 0mm to 15mm      • Block adjustment - 30mm
- Backing plate - Galvanised steel      • Dimensions - 1000mm (l) x 95mm (h)



## Spill-Ex LPR & HDR - Rear Seal

- Individually adjustable blocks, cut to profile of trough
- Unscrew single bolt for quick and simple maintenance
- 
- Standard duty - LPR: 1000mm (l) x 150mm (h). 45mm block adjustment
- Heavy duty - HDR: 1200mm (l) x 300mm (h). 70mm block adjustment



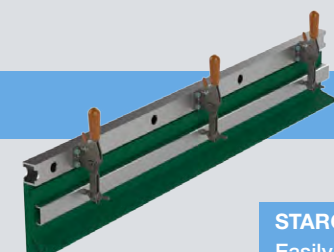
## FRIFLO Impact Beds

- Cost effective loading support, guiding belt with minimal interference
- Bars combine low friction UHMWPE surface with impact damping rubber
- 
- Standard range: Belt width = 600mm - 1000mm. Impact bars = 1220mm (l)
- Custom sizes and configurations available upon request

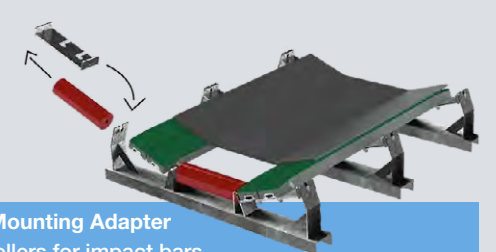


## Also available:

STARCLEAN® Seal  
Material guide and dust seal



STARCLEAN® Mounting Adapter  
Easily change rollers for impact bars





# WEAR LININGS



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**Matrox®** **HAWIFLEX®**

Raw materials are often difficult to handle, and it's typical for the majority of bulk handling equipment and storage vessels to become a source of constant maintenance.

Each plant is different and every raw material has its own characteristics, so you need a choice of liners to ensure you're getting the best solution for your equipment.

We've developed a leading range of liners, sourced from a variety of world leading specialist manufacturers. Whatever your wear or flow problem, we can use a combination of materials and designs to achieve maximum effectiveness in your application.



High-performance materials from world leaders



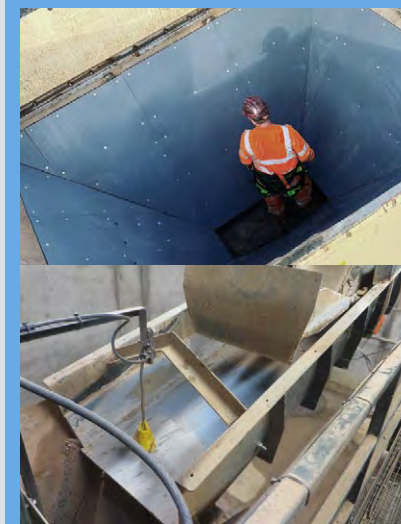
Tried and tested in wide variety of applications



Large stockholding of commonly used sizes



Profiling service available for lining sheets



## Matrox & Polyethylene Flow Linings

### Matrox Premium (Grey)

- Lowest surface friction and maximum wear life
- Lubricating additives produce a Teflon like finish
- Abrasion, impact, chemical and oil resistant. UV stabilised.

### PE1000 Natural (White)

- Extremely low surface friction
- High levels of wear resistance

### PE1000 Repro (Black)

- An economical option, with a proportion of regenerated content
- Low friction and good levels of abrasion resistance



## Hawiflex® Polyurethane Wear Linings

An extremely high-performance polyurethane. Containing special additives to combat abrasion, impact, tearing, weathering, UV and chemical attack.

### Highly flexible 2m x 1m sheets

- Simple to cut, form and fix

### Versatile 300mm x 300mm tiles

- Compact, light-weight, and easy to handle
- Integral 5mm reinforcement plate extends service-life

## Also available:

### Tega Ceramic Wear Liners

Combining high alumina ceramic tiles with a dampening rubber base







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**Email:** [sales@prospare.co.uk](mailto:sales@prospare.co.uk)

**Call:** 01773 814008



a member of the  
Mineral Products Association

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We reserve the right to modify or withdraw specifications or products without notice or obligation.

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