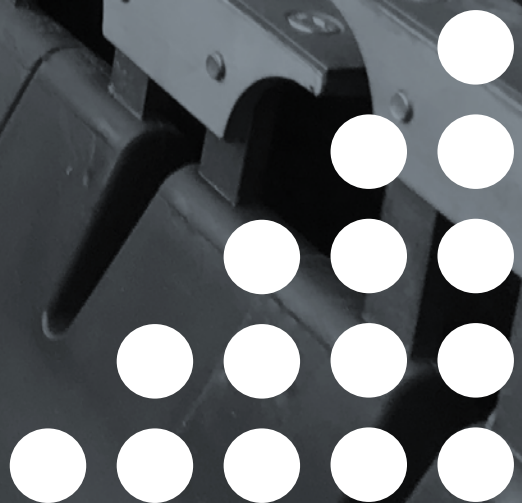


# ConSpare

Make it better.

**BULK MATERIALS HANDLING  
DIVISION**



# ConSpare

Make it better.

ConSpare improves concrete batching plants and the production process through high-performance equipment, spare parts and site services.

Established in 1978, we continually develop and have grown to become the UK's leading support company for concrete producers. Whether you're

looking to solve concrete batching plant problems, or need first class spare parts support, we're here to help.

With £2million stockholding at our UK premises, and back-up from a number of the world's leading concrete equipment manufacturers, our three specialist divisions will help you to Make it better.

# THE BULK MATERIALS HANDLING DIVISION

Formed in 2016, our Bulk Materials Handling Department is a team specialising in improving belt conveyor performance and safety. 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.



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

- Primary, secondary & chevron cleaners
- User-friendly design. Simple to maintain.



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

- Carrying strand and Return strand
- Automatically correct misalignment



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

- Simple to maintain skirt sealing systems
- Durable impact beds



WINNER. 2024. "Safer handling of inbound and outbound materials"






# 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 ConSpare 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



SCAN / CLICK QR FOR BELT CONVEYOR COMPONENTS



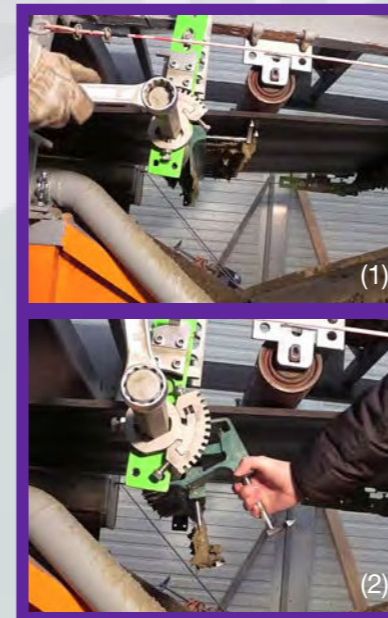
## TWIST-SWING® independent blade tensioning

- 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>

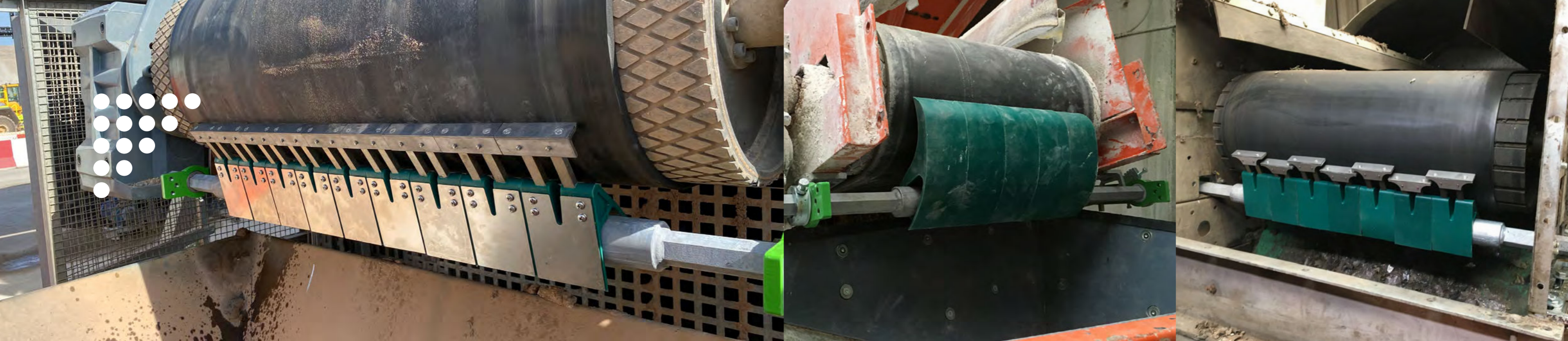
This user-friendly design means site staff can quickly and safely carry out maintenance and housekeeping, keeping both costs and downtime to a minimum.



## 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.

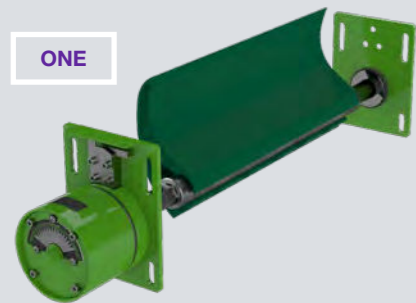


## PRIMARY CLEANERS

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.

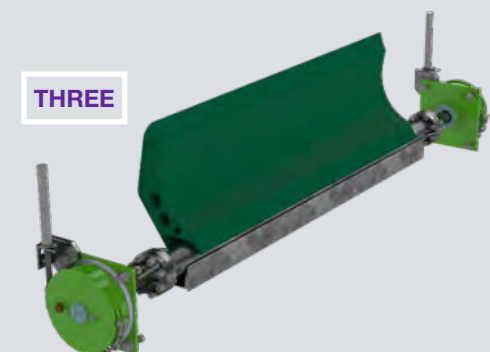
Tungsten carbide bladed cleaners require minimal adjustment and are extremely effective at removing fines and moisture. They also provide an alternative to ‘under belt’ secondary cleaners where space limits installation.



ONE



TWO



THREE

### 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

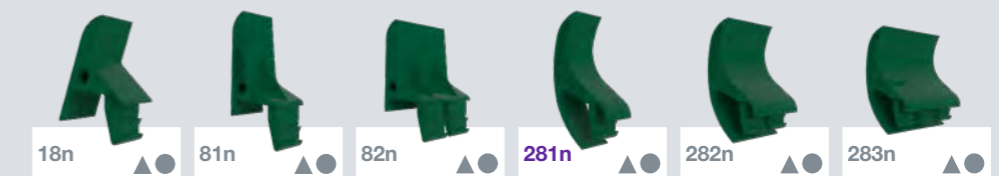
- TWO:**  
TWIST-SWING® tungsten carbide 86n blades. 830 Raster-tensioner
- Suitable for reversible belts
  - Use with vulcanised joints only
  - Tool-less blade removal
  - Quick-release tensioning device

- 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.



## SECONDARY CLEANERS

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.

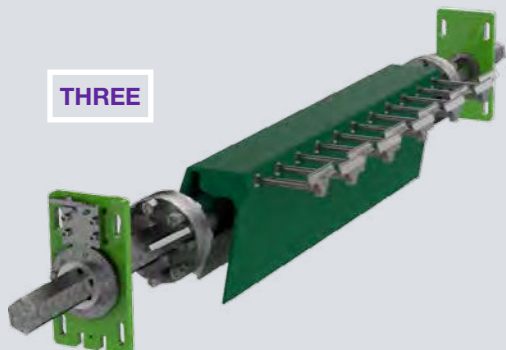
ONE



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:

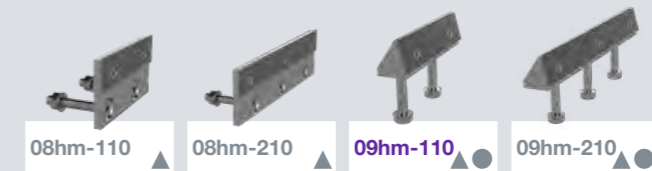
#### TWIST-SWING® tungsten carbide blades \*\*

Suitable for:

- ▲ = Mechanical joints
- = Reversible belts



#### 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.



**STARCLEAN**  
Sustainability by Innovation



**CHEVRON CLEANERS**

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

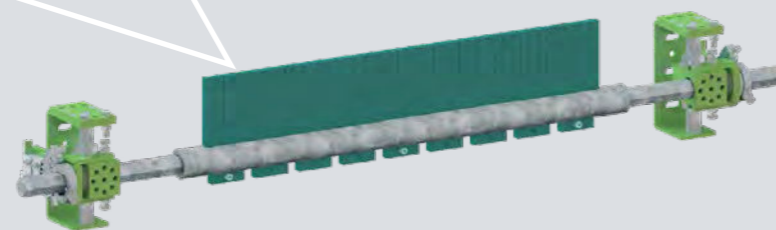
This secondary position cleaner is fitted in the ‘under belt’ position on the return strand, just after the head pulley.

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



**STARCLEAN® SUCCESS STORIES IN CONCRETE...**

**HS2 PLANT MANAGER THRILLED WITH STARCLEAN® BELT CLEANER PERFORMANCE**



- 90% reduction in maintenance requirements on the two belt conveyors
- +180 wheelbarrows of carryback saved in a year
- Only 2% blade wear in first 12 months of operation

“I’m happy with the results, ConSpare really know their stuff. STARCLEAN®’s simple design is what sold me, they’re so easy to maintain and more importantly, they work”

**STAFF SEE 75% REDUCTION OF TIME SPENT CLEANING IN CONVEYOR PIT THANKS TO STARCLEAN®**



- 96 hours saved cleaning since installation
- 480 wheelbarrows of waste eliminated
- Staff wellbeing improved

“This was a task that nobody wanted to do. It was demotivating, and the physical nature of shovelling the material was often demanding on the body... STARCLEAN® makes coming to work less stressful. Knowing I won’t have to get in a pit to shovel materials out each day means I can instead focus on value adding tasks.”

**STARCLEAN® PRE-CLEANERS IMPROVE BELT CLEANING STANDARDS ACROSS REGION**



- £10,000 per year clean-up cost reduction on single belt
- Less product waste, increased plant efficiency
- Standardisation of 800 series tensioner across region

The client is now happy that the belt is clean, carryback levels are negligible and sub-contract labour is no longer required for clean-up. Following this success the client felt that STARCLEAN® offered best practice for their plants.

**STARCLEAN® CHEVRON CLEANERS TRIUMPH OVER AIR KNIVES AND ROTARY BRUSHES**



- 50-70% estimated reduction in clean-up time
- 10 chevron cleaners fitted
- Standardisation has simplified training and maintenance across the region

Despite variations in materials being conveyed, belt speeds and cleat heights, the client feels that there has been a notable improvement following the installation of STARCLEAN® in every case.






# 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



SCAN / CLICK QR FOR BELT CONVEYOR COMPONENTS

## 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.



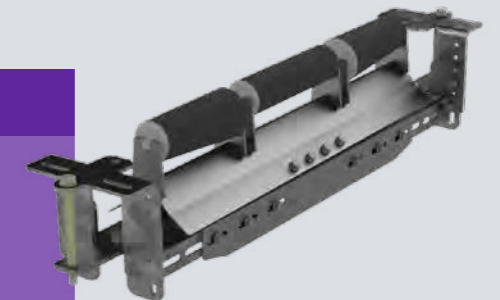
## CARRYING STRAND: Type SK & S

- 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



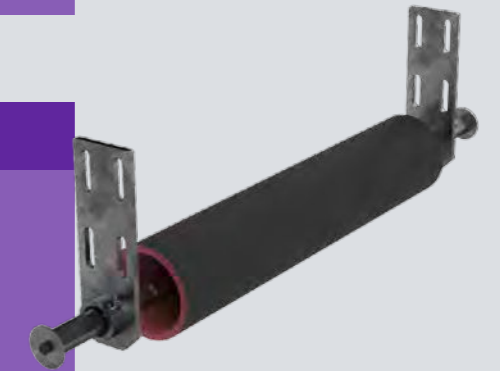
## RETURN STRAND: Type SO & SKO

- 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



SCAN / CLICK QR FOR BELT CONVEYOR COMPONENTS

## 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





SCAN / CLICK QR  
FOR WEBSITE

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