



## **“SuperMax Conveyor Belt Speciality”**



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# SUPERMAX BELT CLEANER

Consequences of Carry back. Carry back is material that sticks to the belt past the discharge point and then drops off along the conveyor's return run

- Reduced operating efficiency and profitability through increased expenses for maintenance and cleanup and the loss of material.
- Material buildup on rolling components leading to seized idlers, wandering belts and increased power consumption.
- Lower plant morale as employees sense the "I don't care if it's dirty" attitude
- Unsafe working conditions caused by material accumulation on floors and walkways, creating fire hazards, slip/trip hazards
- Health hazards and environmental concerns created by airborne material.
- Unfavorable attention

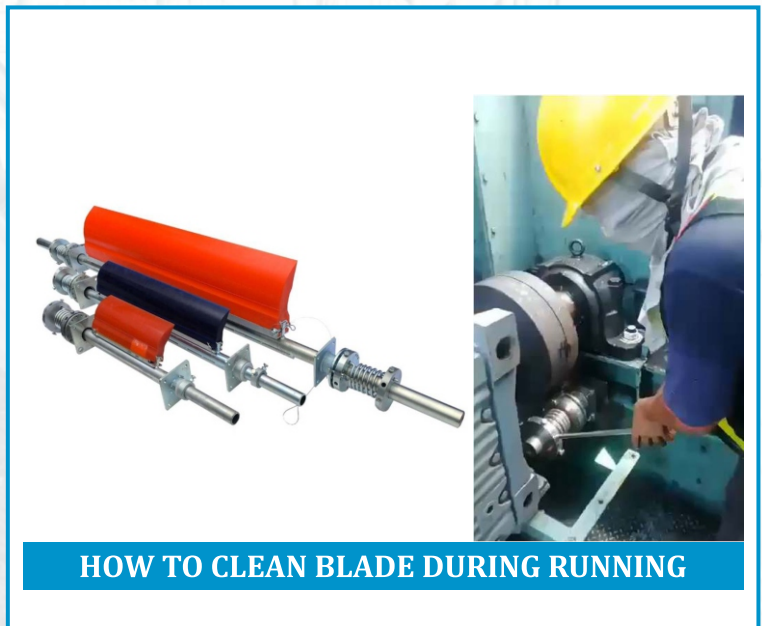


## PRIMARY SUPERMAX BELT CLEANER

**SuperMax** Belt Cleaners as the first stage in a multiple cleaner system, the primary **SuperMax** cleaner removes the majority of material adhered to the belt, leaving only a thin layer of sticky fines.

**SuperMax** Primary cleaner is generally tensioned at low pressure—roughly 2 psi (13.8 kPa)—against the belt. Low blade-to-belt pressure allows the **SuperMax** primary cleaner to be positioned at a peeling angle against the belt. The use of higher pressure at this angle would endanger the belt, splice or cleaner itself.

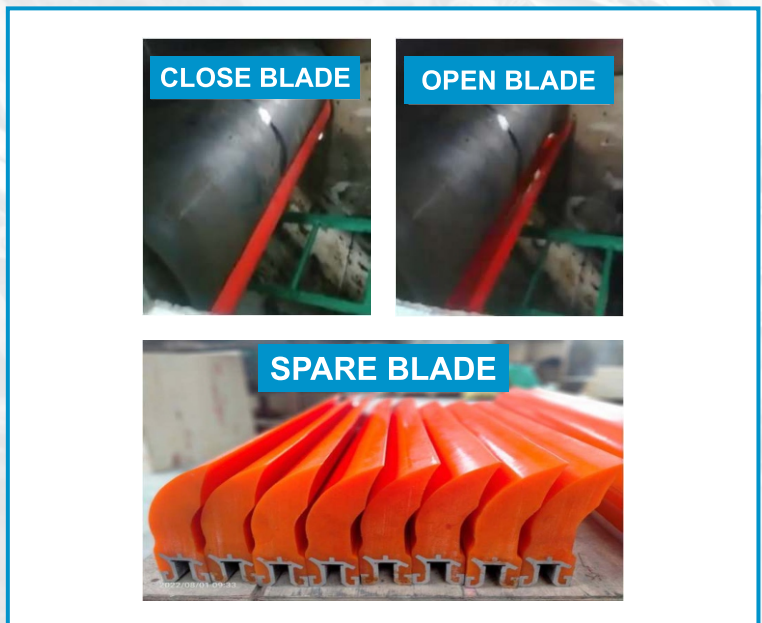
**SuperMax** Primary cleaners are typically installed on the face of the material buildup and installed so that it is out of the material stream.



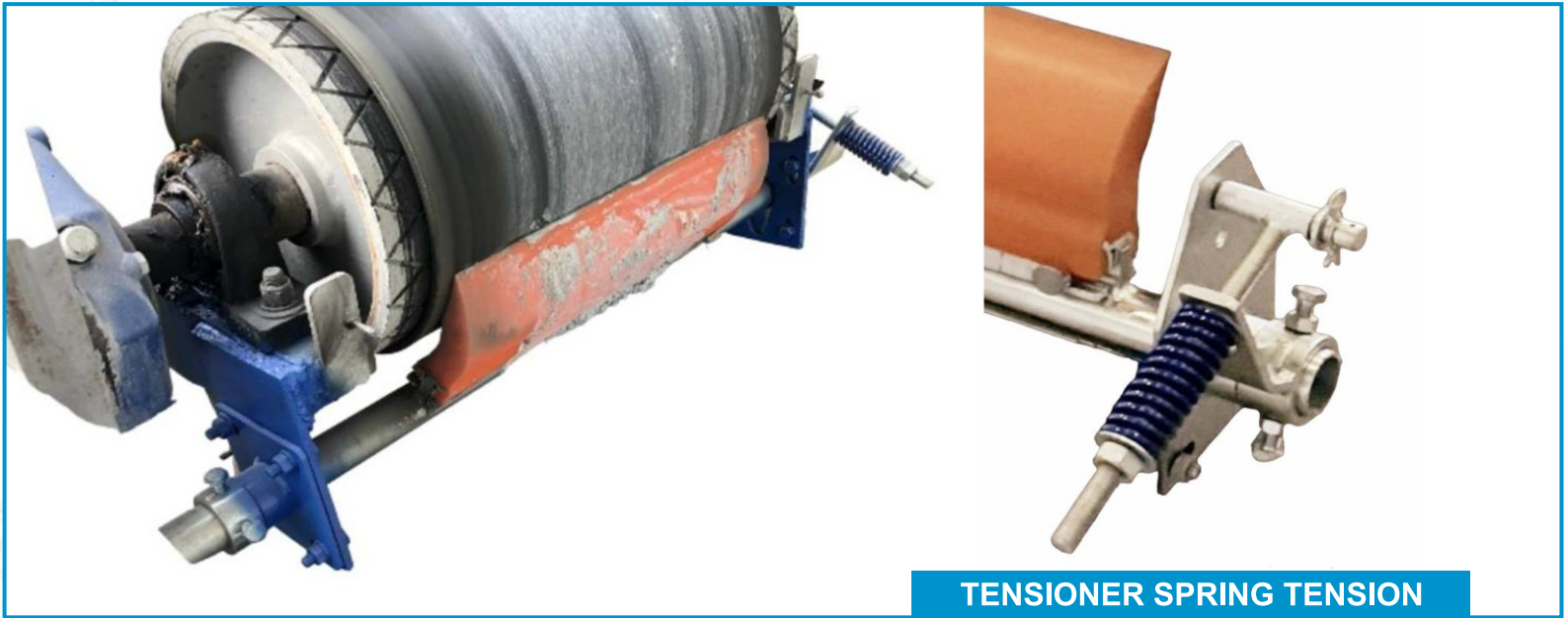
HOW TO CLEAN BLADE DURING RUNNING

## SUPERMAX TORSION SPRING TENSION

BELT WIDTH	MODEL
600	600LEZ24/BW600/OR
800	800PLEZ30/BW800/OR
900	900PLEZ36/BW900/OR
1000	1000PLEZ42/BW1000/OR
1200	1200PLEZ48/BW1200/OR
1400	1400PLEZ54/BW1400/OR
1600	1600PLEZ66/BW1600/OR
1800	1800PLEZ72/BW1800/OR
2000	2000PLEZ84/BW2000/OR

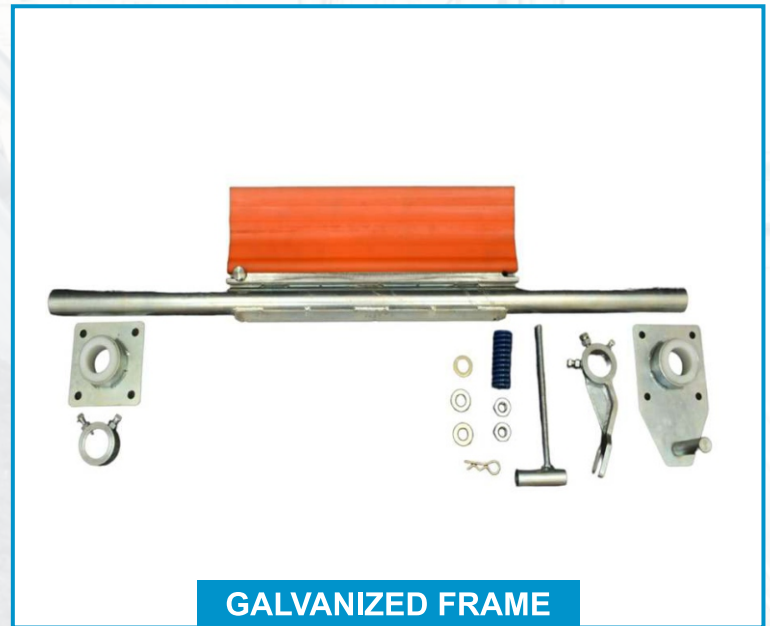


## ECO TYPE SUPERMAX CLEANER

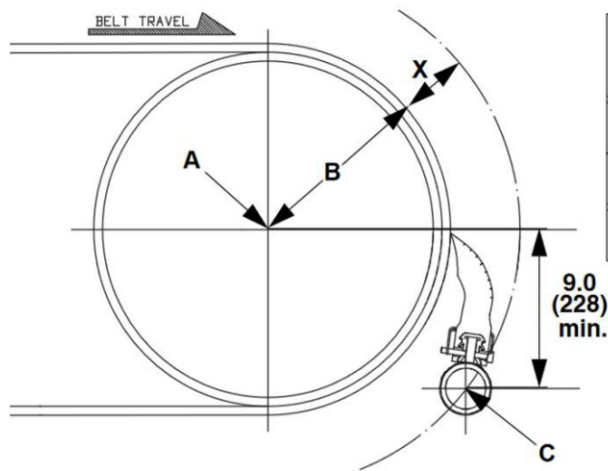


**TENSIONER SPRING TENSION**

BELT WIDTH	MODEL
600	ECO1/BW600/OR-12-HD
800	ECO1/BW800/OR-24-HD
900	ECO1/BW900/OR-30-HD
1000	ECO1/BW1000/OR-36-HD
1200	ECO1/BW1200/OR-42-HD
1400	ECO1/BW1400/OR-48-HD
1600	ECO1/BW1600/OR-60-HD
1800	ECO1/BW1800/OR-66-HD
2000	ECO1/BW2000/OR-72-HD



**GALVANIZED FRAME**



Pulley Diameter* in. (mm)	X Dimension in. (mm)
12 to 15 (300 to 375)	4.0 (102)
16 (400) and up	3.5 (89)

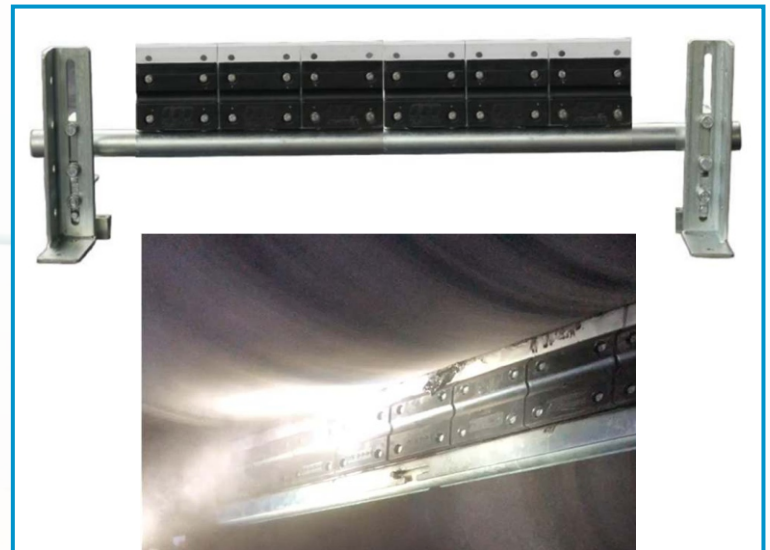
\*Includes lagging and belt.

- A. Center point of pulley
- B. Radius of head pulley including lagging and belt
- C. Center point of belt cleaner mainframe

## INSTALLATION POSITION

## SUPERMAX SECONDARY CLEANER

**SuperMax** Secondary cleaner are the most important scrapers in any belt cleaning system, removing up to 98% of material clinging to belt surfaces. They can be used singly or in tandem if necessary and, should be used in conjunction with a **SuperMax** Primary scraper for optimum performance. Custom-designed rubber buffer improve belt contact pressure, irrespective of belt profile or irregularities. Choice of blades for optimal performance in abrasive or corrosive conditions.

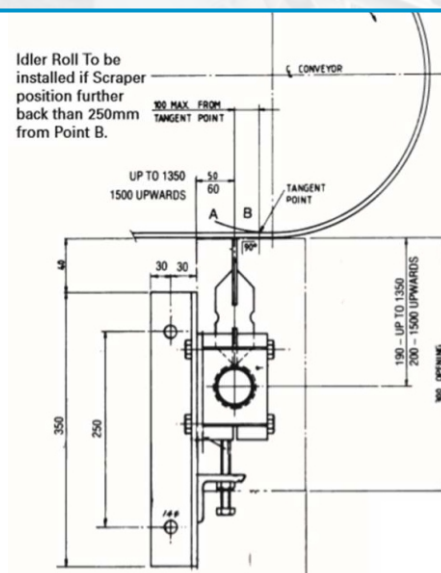


**SPRING TENSIONER**

BELT WIDTH	MODEL
600	ECO-2/BW600
800	ECO-2/BW800
900	ECO-2/BW900
1000	ECO-2/BW1000
1200	ECO-2/BW1200
1400	ECO-2/BW1400
1600	ECO-2/BW1600
1800	ECO-2/BW1800
2000	ECO-2/BW2000



**SPARE BLADE**



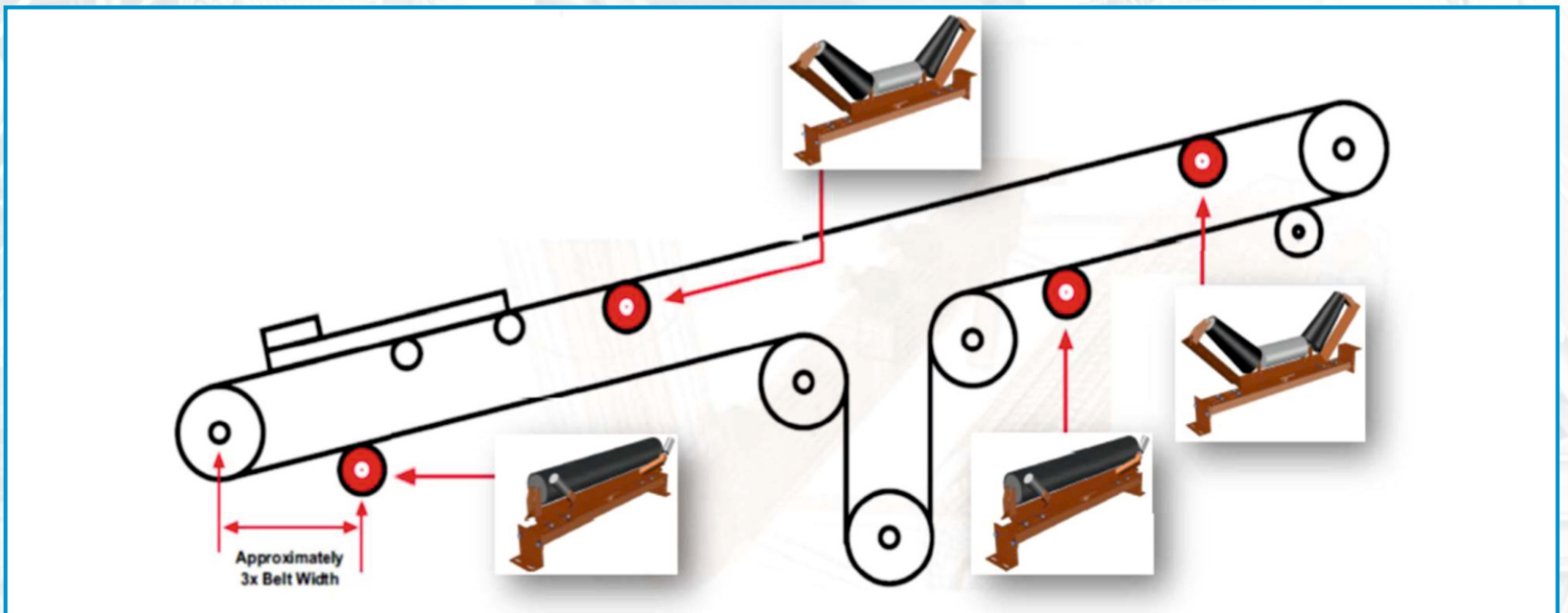
**INSTALLATION POSITION**

## CONVEYOR MISALIGNMENT PROBLEMS

Belting is the most expensive component of a conveying system. **SuperMax** self-aligning rollers ensure that your conveyor belts stay on track, minimizing the chance of severe belt damage



## CONVEYOR MISALIGNMENT PROBLEMS

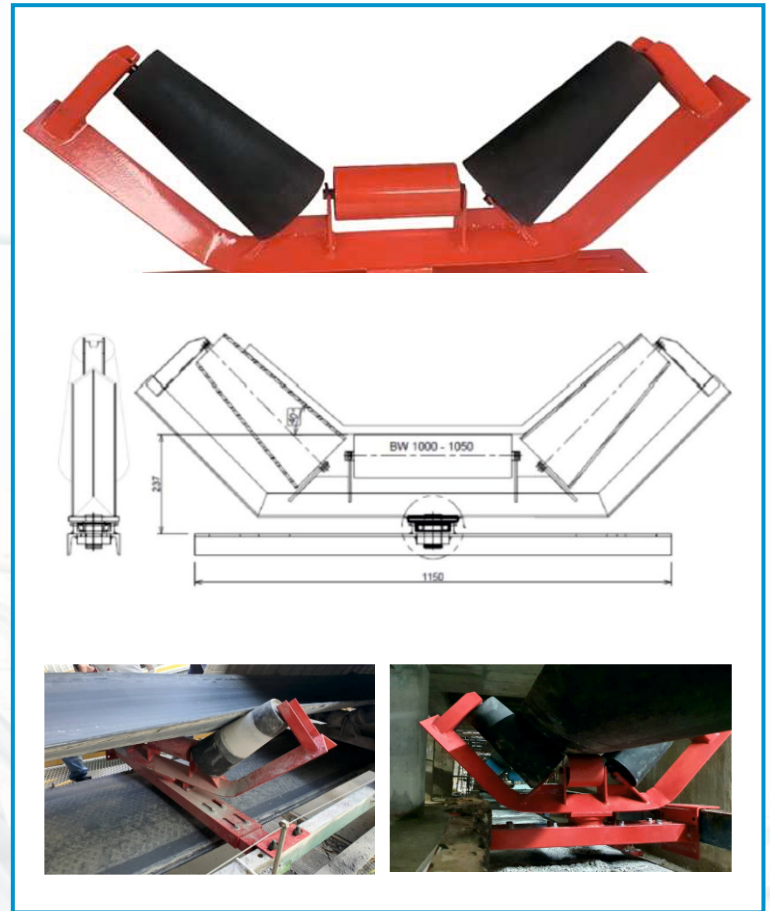


# SUPERMAX SELF TRACKING ROLLER

## CARRY TOUGH TRACKER

Taper Trough Tracker offers the ultimate intracking performance on the load-carrying side. This design is highly responsive and quick to activate on both loaded and unloaded conveyors. As the taper wing rollers are in line, it operate on both directional conveyor belts. The tracking is done by the tapered wing rollers which are lagged and is compatible with belts. The tapered wing rollers activates the tracker immediately, as the belt moves off centre, ensuring that there is no 90 degree contact with the belt edges

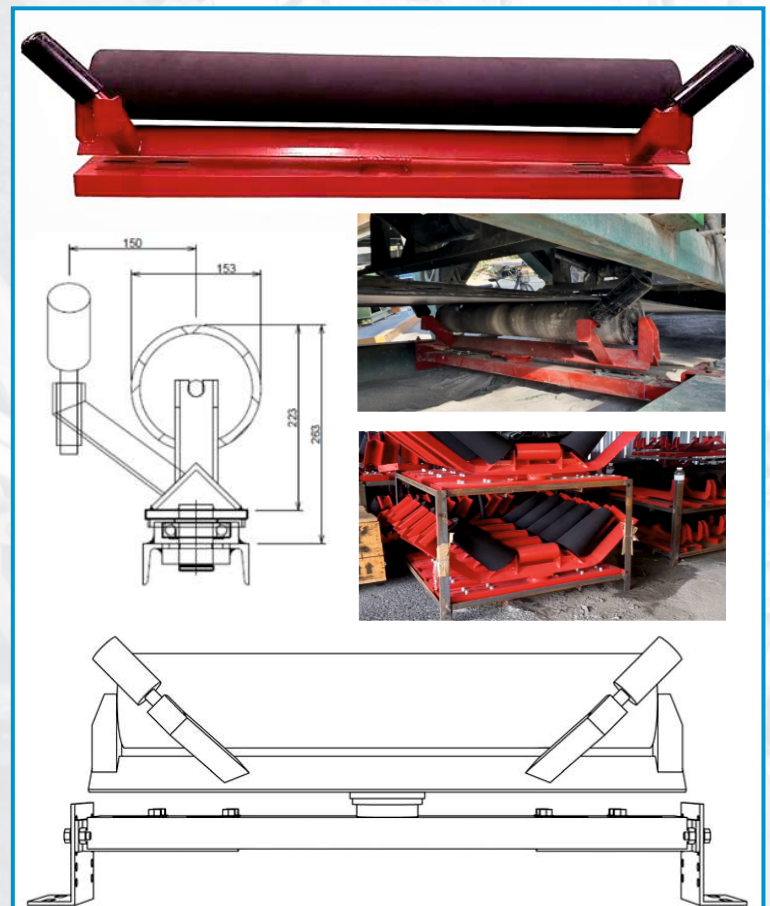
BELT WIDTH	MODEL
500	PL/TAP/500
600	PL/TAP/600
750	PL/TAP/750
900	PL/TAP/900
1000	PL/TAP/1000
1200	PL/TAP/1200



## RETURN TRACKER

The Flat Return Tracker employs a unique and highly effective tracking action, which is non-damaging to the belt and kicks in immediately if the belt begins to drift off centre. Because it does not rely on contact with the belt edge in order to guide the belt, belt edge damage, is avoided. The **SuperMax** roller has special tapers (similar to a crown pulley) on the outer edges of the tracker.

BELT WIDTH	MODEL
500	1 PL/RET/500
600	2 PL/RET/600
750	3 PL/RET/750
800	4 PL/RET/800
900	5 PL/RET/900
1000	6 PL/RET/1000
1050	7 PL/RET/1050
1200	8 PL/RET/1200



# SUPERMAX CONVEYOR BELT SPLICING

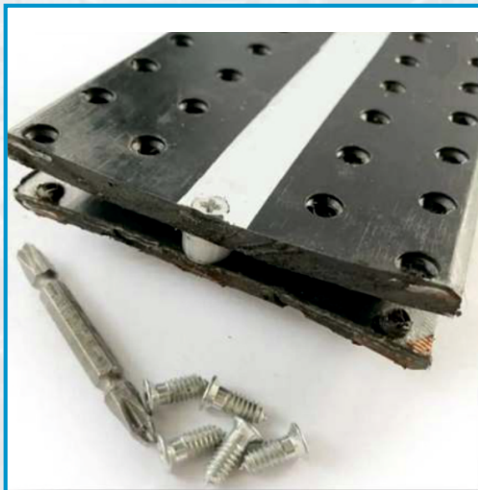
## SUPERMAX SPLICING

The best solution for quick, strong and economical Splicing of textile fabric conveyor belts. Now available with us - for shipment along with your conveyor belt orders.

## SUPERMAX SPLICING



- Tension Tesing
- Abrasion Resistant
- High Temperature Resistant up to 200 °C



## APPLICATIONS

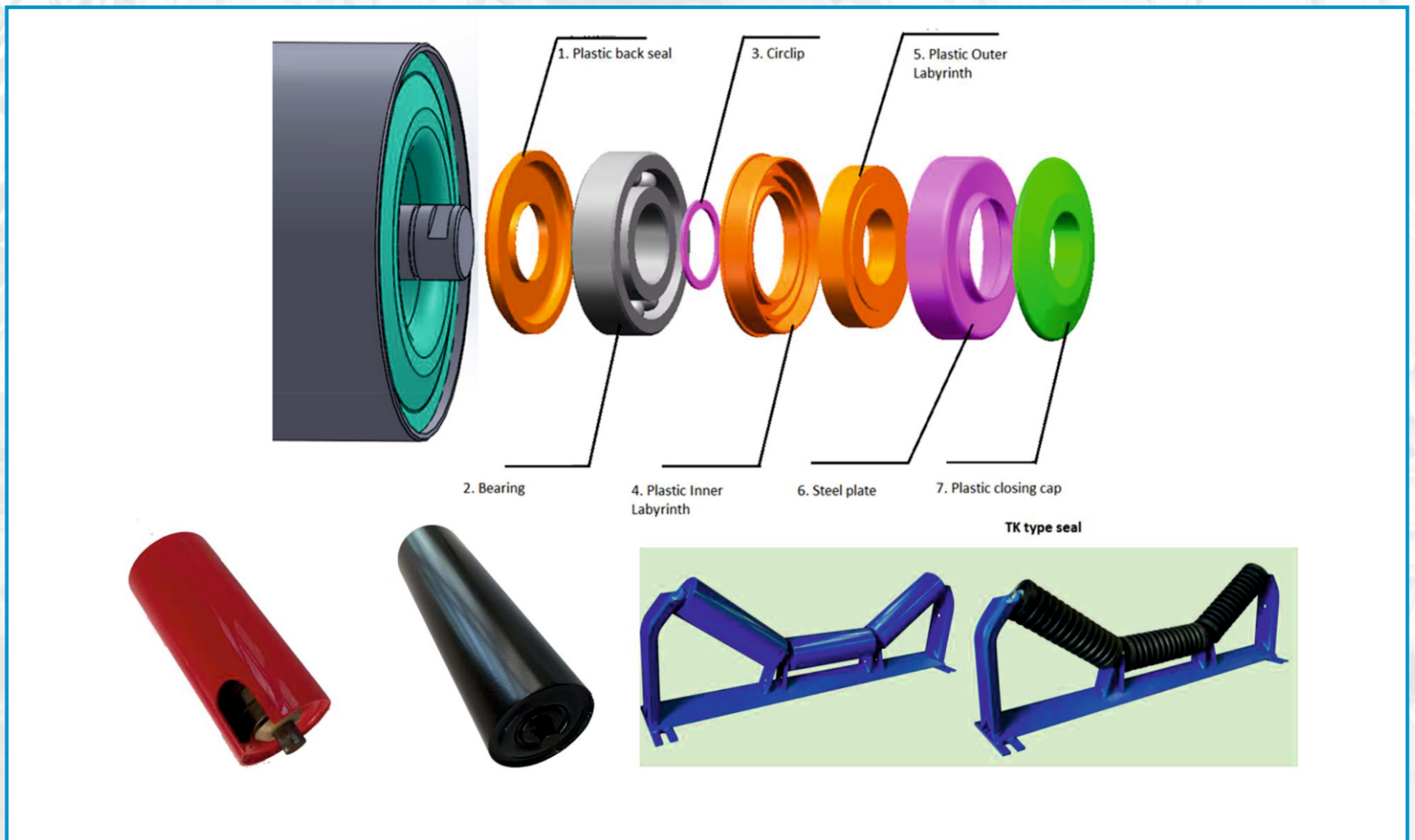
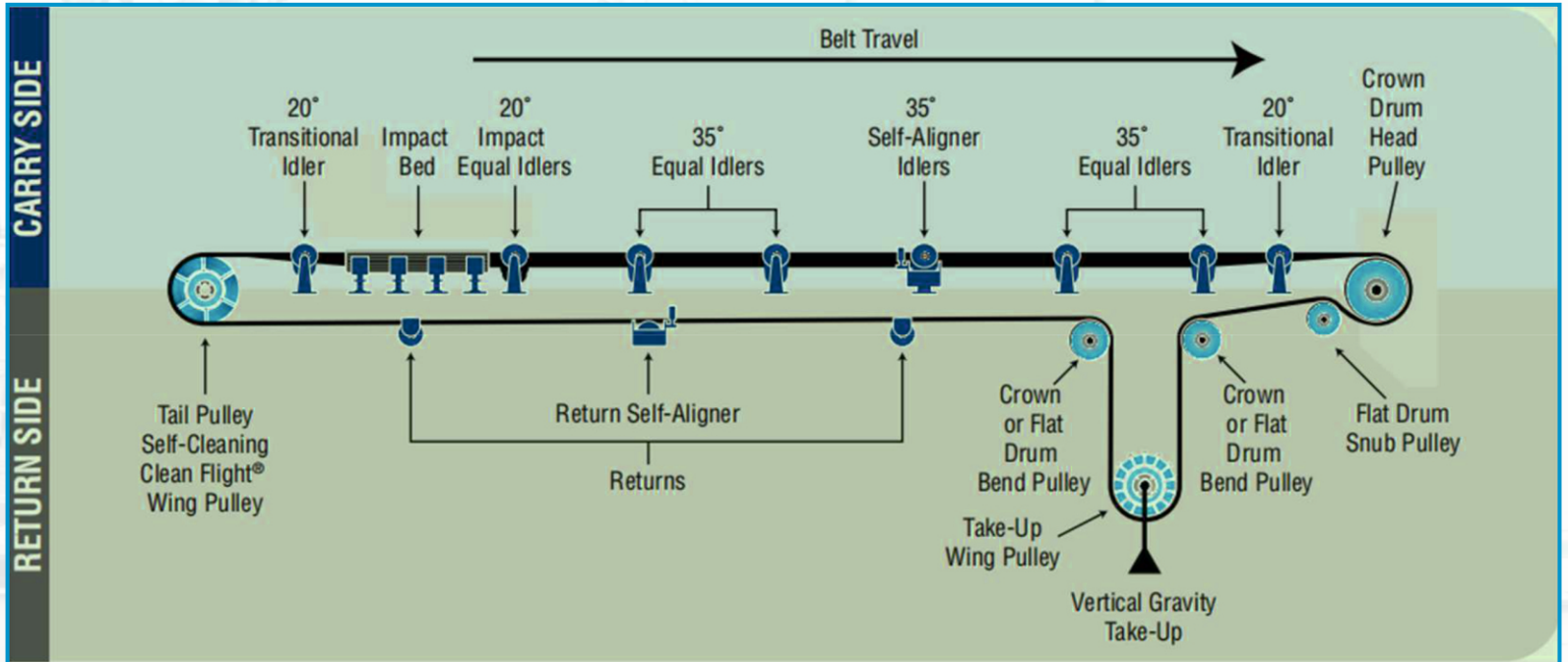




# SUPERMAX ROLLERS

## STEEL ROLLER

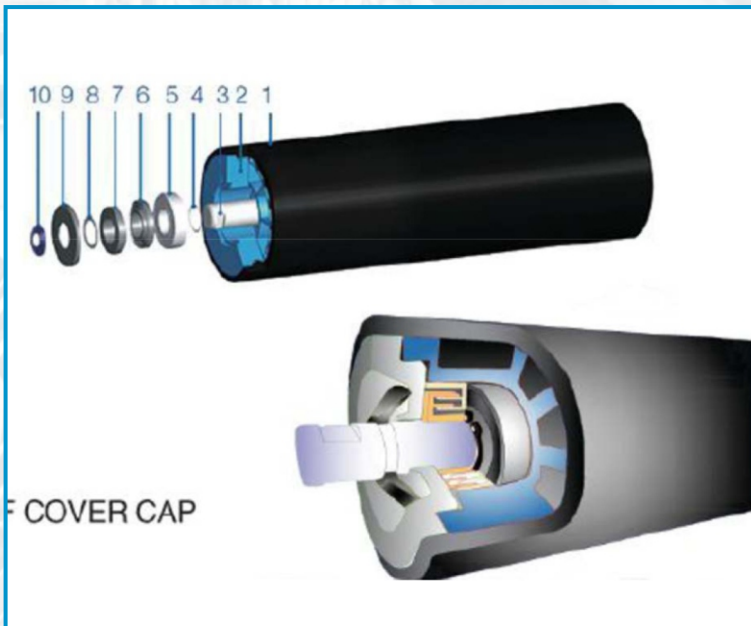
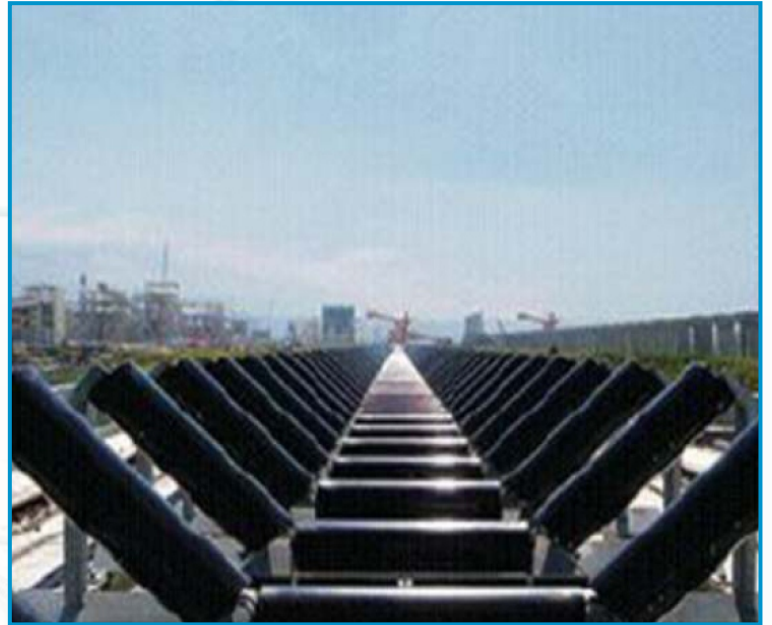
The following is a simplified conveyor used to illustrate basic belt conveyor components. Many variations of elevation, loading, discharge, Idlers and Idler spacing, pulleys, and accessories are possible. It hit the market quickly and cheaply. so can be replaced right now.



# SUPERMAX UHMW-PE ROLLERS

## PRODUCTS INTRODUCTION

Ultra-high molecular weight polyethylene (UHMWPE) belt conveyor roller is a high-tech product, which consists of uhmwpe pipe, metal bearing, metal shaft, plastic bearing housing, sealing ring and so on. Compared with metal roller, uhmwpe plastic roller has many obvious advantages in performance.



## SUPERMAX STEEL ROLLER

UHMW-PE Components

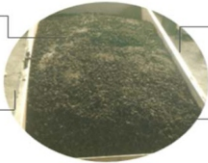
- 01 PIPE
- 02 BEARING HOUSING
- 03 SHAFT
- 04 CLASP RING
- 05 BEARING
- 06 INNER LABYRINTH SEAL
- 07 MID LABYRINTH SEAL
- 08 SNAP RING
- 09 OUTER LABYRINTH SEAL
- 10 DUST-PROOF AND WATER-PROOF COVER CAP



# SUPERMAX COMPOSITE ROLLERS

## SUPERMAX COMPOSITE ROLLER

Rollers usually play a very important role in the overall belt conveyor projection. So choice the high quality rollers not only guarantee a long working life but also avoid save the cost that equipment may not function that business of the plant being interrupted. So based on aware of this, we innovation our new composite roller which is most economic and efficient compare with other rollers.




polypropylene  
**PP**  
Quartz sand



carbon black

other 16 kinds of high hardness powders

Thermoformed by patented technology



Roller Body width: 160—2800mm  
Roller Diameter: 76/89/102/108/114/127/133/152/159/178/219mm  
CEMA: 4"/5"/6"/7"  
Standard GB, JIS, CEMA, SABS....

## SUPERMAX COMPOSITE ROLLER

**Roller TUBE:** unique composite machine roller with high concentricity that is achieve the low run-out

**Shaft:** high precision cold finished steel bar

**Housing:** 100% tight fit with the composite housing

**Bearing:** deep groove precision ball bearing with famous brand domestic and overseas

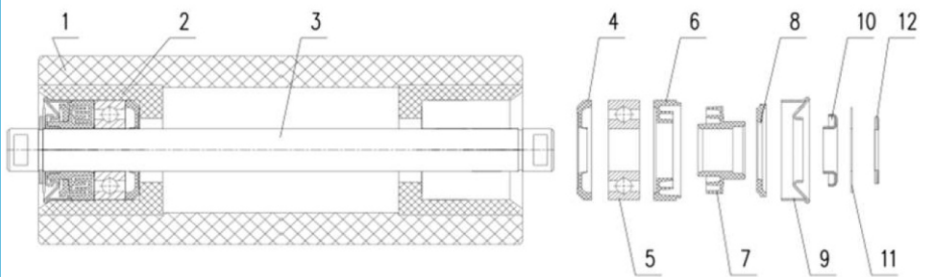
**Sealing:** high quality labyrinth seal

**Circlip:** heavy duty circlip

**Cover cap:** cold pressed deep drawn steel and zinc plated

**Lubrication:** permanent for roller life, lithium grease.


**Service:** Our target is to identify the most suited solutions to customers, and supplying quality products.




1.Shell    2.Composite Bearing Housing    3.Shaft    4.Seal    5.Bearing

6.Inner Seal    7.Labyrinth Seal    8.Seal Disc    9.Inner external wiper seal


10.Outer external wiper seal    11.Apron    12.Circlip



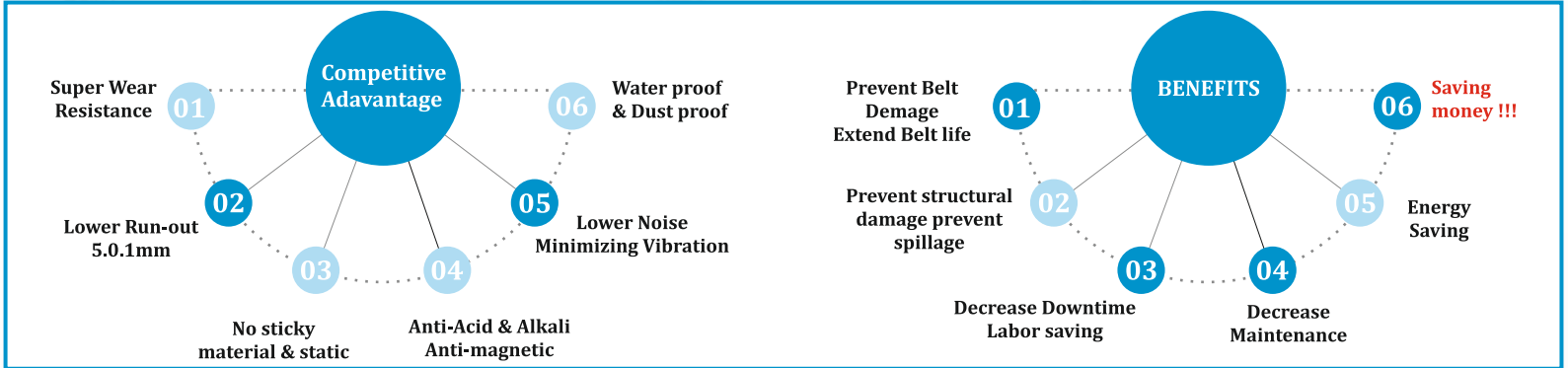
Adopt high-precision Q235 cold-drawn round steel shaft, which is flattened by both positioning slotting machine and special milling machine.



C&U is professional manufacturer for precision and low noise bearing, the quality is equal to SKF & NSK, Standard specification bearings shall be lubricated for life by the manufacturer, and fitted with an internal shield both sides – 2RS1. Bearing sizes range from 6204 to 6311 with C4 internal clearance. The brands are available as customers' requirement.

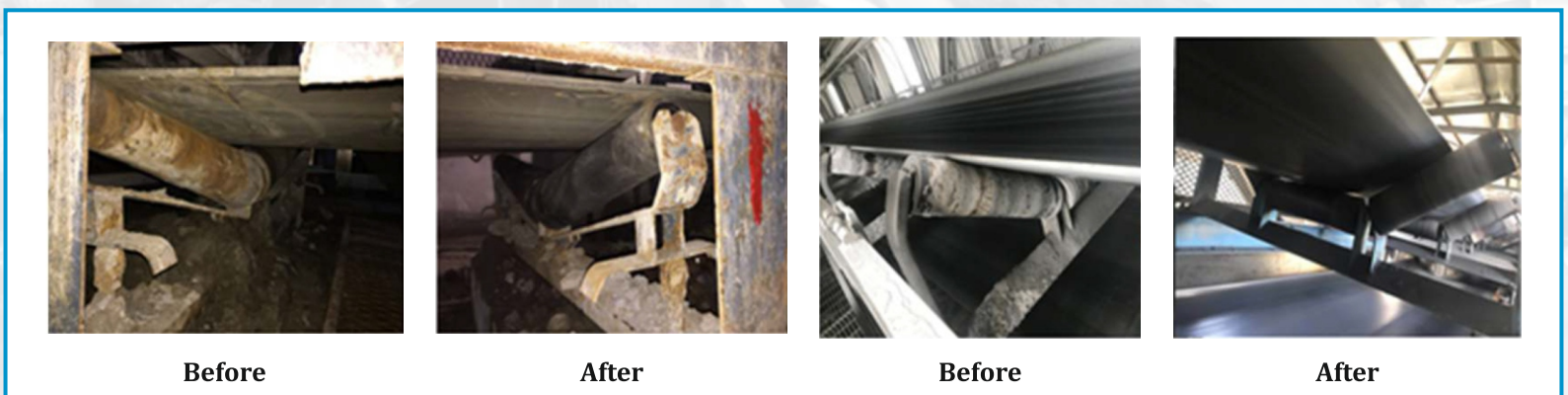


## FEATURES & BENEFITS



Number	Item	Performance
1	Lifetime	lifetime will be more than 50000 hours for any severe conditions and replacing ratio will less than 5% during the validty
2	Rotation Resistance Factor	Factor Lab test <0.01 Load-carrying condition<0.02
3	Idler Radial Run-Out	<01mm
4	Axial Displacement	550.1 mm while GB stand is <0.7mm
5	Dust-Proof Test	After 200hours running operation in a container filled with dust, there will be no dust in seal grease
6	Water-Proof Test	After 72hours running operation under the pouring water condition, the amount of water in seal is less than 15g while national stand is 150g
7	Axial Carrying Capacity	>15KN(15000N)
8	Noise Test	Filed testing result that composite roller 569db while normal steel is >80db
9	Energy Consumption	Saving energy 300KW/hour, save CO2 2400t/year. With the belt width of 2000mm

## SOLUTION



# SUPERMAX SIDE SEAL & V-PLOW

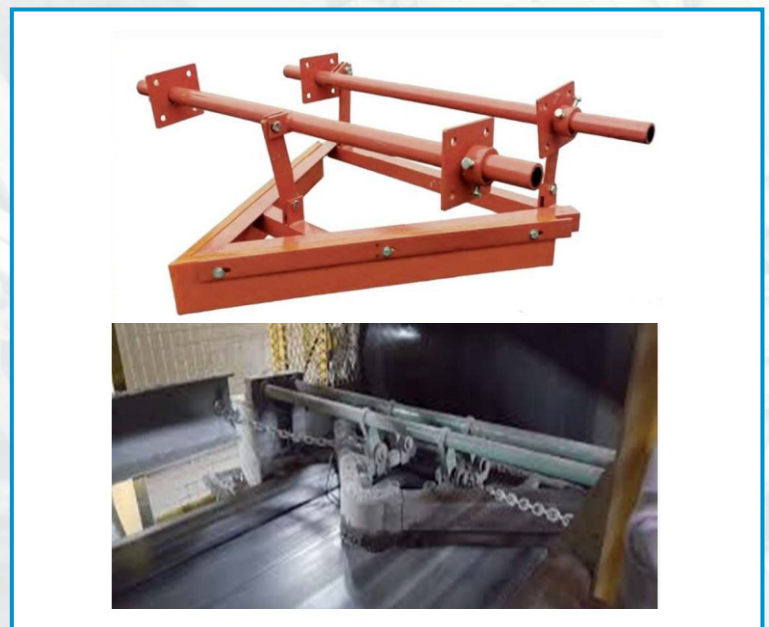
## SUPERMAX SKIRT SEAL

Skirt rubber is designed according to transport materials and structure of conveyor chute. It can fundamentally solve the problems such as material spread, air leakage and dust raising on two sides of guide chutes. We usually produce all rubber, rubber plus PU and all PU material. Shapes including Y, I, F, Sandwich shape to meet different working environment.

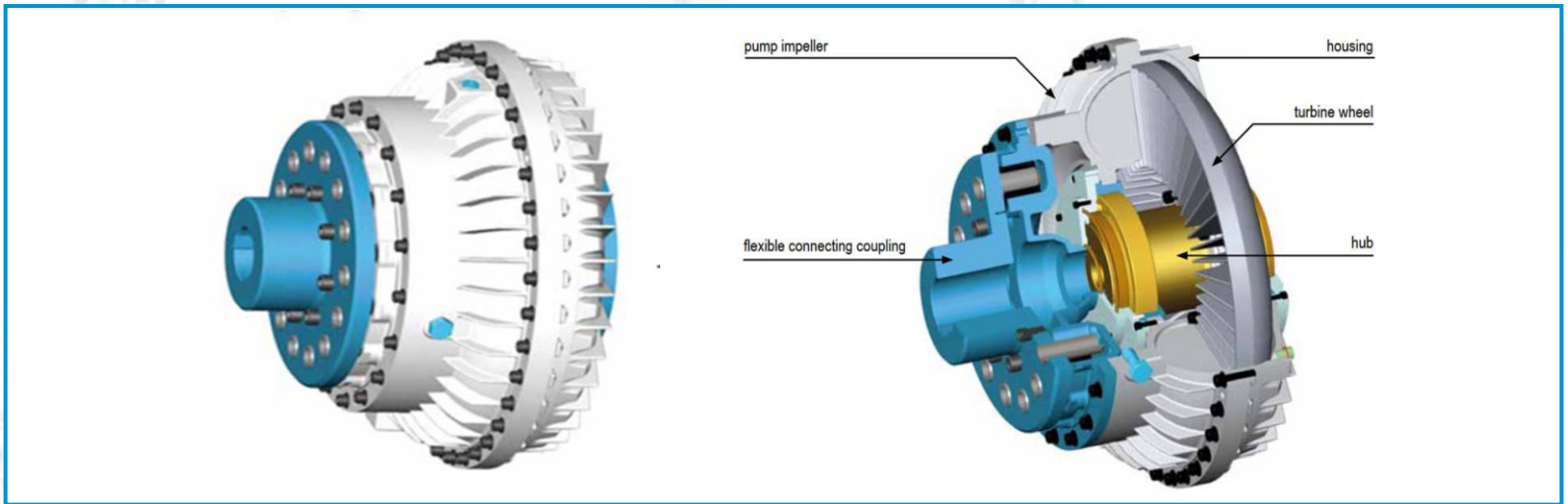


## SUPERMAX V PLOUGH BELT CLEANER

V Plough belt cleaner is installed in front of the returning roller on belt non-working surface. Aim at cleaning the residual materials that sandwiched between the drum and the conveyor belt. It is necessary to prolong the service life of the conveyor belt and increase productivity.



## FLUID COUPLING

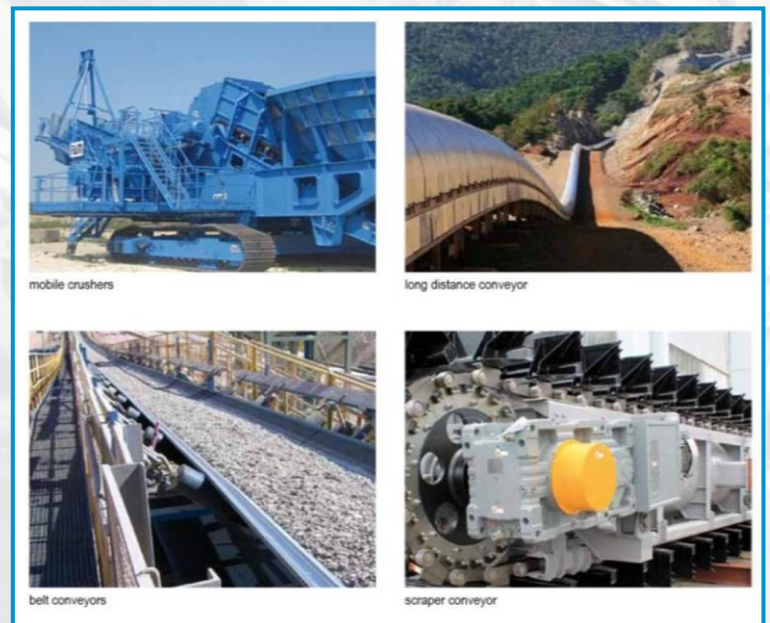
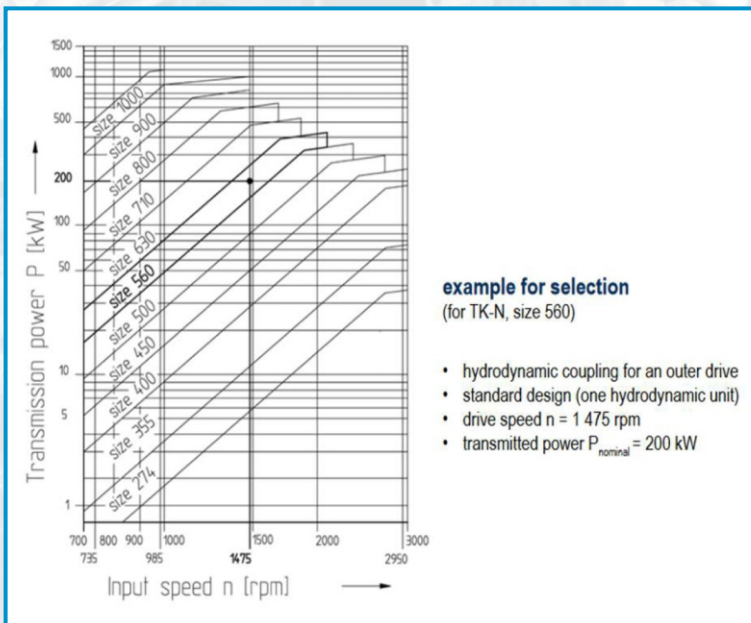


### TECHNICAL FEATURES:

Hydrodynamic couplings belong to the group of hydrodynamic power transmission devices. The power transmission is done by mass forces of the operation liquid according to the „Frottinger Prinzip“. The impeller pump absorbs the mechanical power of the drive and increases the energy of the circulating operating liquid. The turbine wheel takes energy away from the operating liquid and outputs mechanical power. There is not any fixed connection between both wheels. Slight power losses, caused by the for the power transmission necessary slippage, will be transformed to heat. The permissible ambient temperature range of the hydrodynamic coupling in standard design is between - 25 °C and + 40 °C (other values on request).

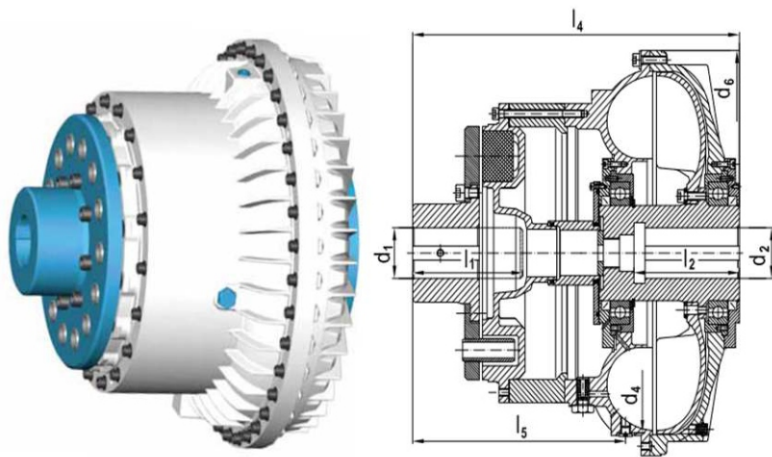
### HYDRODYNAMIC COUPLINGS ARE DISTINGUISHED BY:

- power transmission free of wear
- steady shock free start up in loaded or unloaded state
- slight backlash on the electrical power supply due to fast abating of the start up current and low start up current
- load compensation on multi motor drives
- efficient decoupling of vibration systems
- damping of shocks, vibration and load changes
- protection against thermal overload by the installed fusible plug or by a mechanical or electronical switch off device



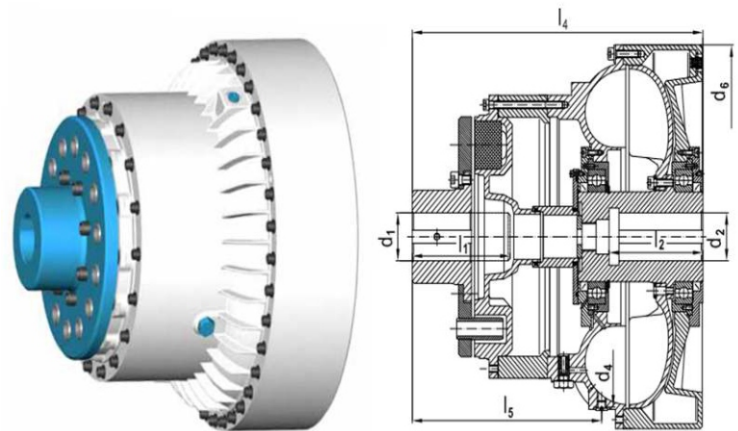
### type AV

- hydrodynamic coupling with enlarged delay chamber

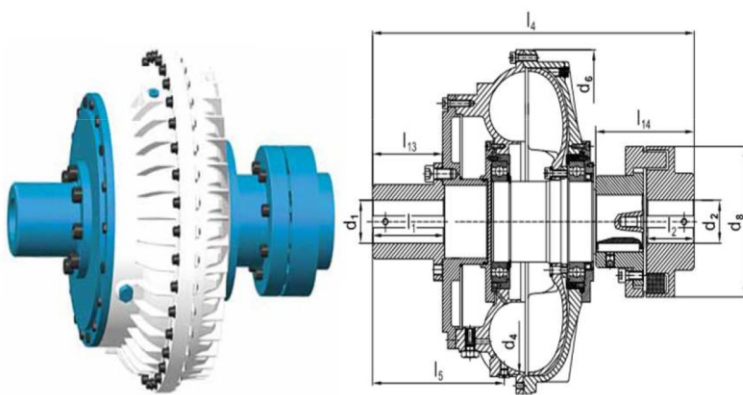


### type AVZ

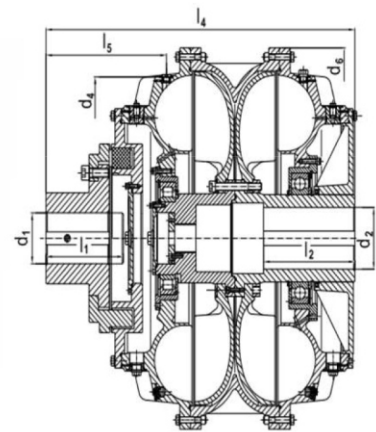
- hydrodynamic coupling with an enlarged delay chamber and additional chamber



the coupling to the motor shaft, coupling removable radially without moving the drive and driven unit, output-side connection coupling



### type PO, P, PV, PVZ, PD

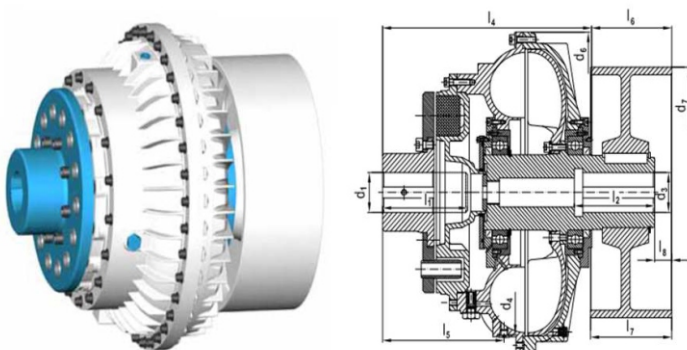


### type KO, K, KV, KVZ

- hydrodynamic couplings of the type AO, A, AV, AVZ with pulley

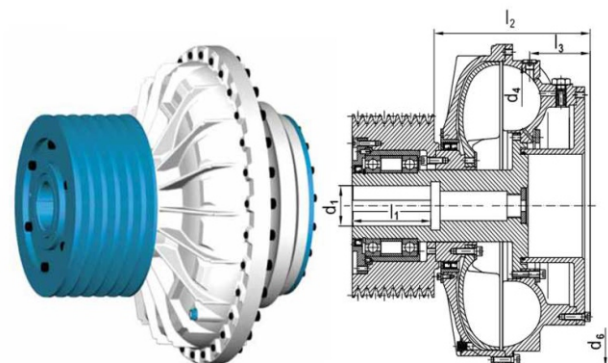
### type PO, P, PV, PVZ, PD

- hydrodynamic couplings of the type AO, A, AV, AVZ, AD with brake drum according to DIN 15431



### type KO, K, KV, KVZ

- hydrodynamic couplings of the type AO, A, AV, AVZ with pulley





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