



CONVEYING COMPONENTS PRODUCT HANDBOOK





SUPERIOR CONVEYING COMPONENTS

CONVEYOR PULLEYS

- P/3 Conveyor Pulleys
- P/7 Chevron® Pulley
- P/9 Core Systems® Design

CONVEYOR IDLERS

- P/13 CEMA Rated Conveyor Idlers
- P/17 Mine Duty Conveyor Idlers
- P/22 Moxie® Rolls
- P/24 Navigator® Return Trainer
- P/26 Self-Aligning Idlers
- P/27 81/91 Series Regreasable Idlers
- P/28 40 Series Idlers
- P/29 CB504 Idlers
- P/30 Urathon® Return Rolls
- P/32 Rubber Lagged Returns Rolls
- P/33 Beater Bar Return Rolls
- P/34 Urathon® Beater Rolls
- P/36 Custom Design Idlers

BELT SCRAPERS/CLEANERS

- P/38 Exterra® Belt Cleaners
- P/42 Mine Duty Exterra® Belt Cleaners
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CONVEYOR ACCESSORIES

- P/48 Belt Scale
- P/50 Sealing System
- P/52 Impact Bed
- P/54 Conveyor Belt Covers
- P/56 Conveyor Take-Ups
- P/58 Auto Greaser
- P/60 Guard Panels
- P/61 Return Roll Guards



SIX MANUFACTURING PLANTS



CEMA, MINE AND SUPER DUTIES

QUICK SPECS

Diameter: Up to 60"

Face Widths: Up to 120"

Shafting: Up to 15"














Custom sizes available upon request

CONVEYOR PULLEYS

Industry's Fastest Lead Times on Standard and Special Orders

- In-stock availability** of standard product from primary distributors or fast lead times on custom designs. ■
- All drive components available from Superior for complete assemblies from **one point of contact**. ■
- Experienced engineers** for application sizing, current equipment analysis and future recommendations. ■
- Four manufacturing locations** in the Midwest, Southwest and Southeast United States and South America. ■

COMPLETE PRODUCT LINE

DESIGN CLASSES					
	CEMA Duty	Mine Duty 1.5	Mine Duty 2.0	Super Duty	Core Systems® Design
Wing Pulleys		-			-
Drum Pulleys					
Chevron® Pulley		-			-
Design Standards	Load, dimensions and crown defined by ANSI B105.1	Roughly 1.5X service factor of CEMA standard	Roughly 2.0X service factor of CEMA standard	Exceeds 2.0X service factor of CEMA standard	Custom Engineered Class
Conveyor Type	Light duty, portable	Medium duty	Heavy duty	Extra heavy duty	High tonnage
Belt Style	Fabric	Fabric	Fabric	Fabric	Steel cable or fabric
Belt Burden	Not started under load	Started under moderate load	Started under full load	Started under full load	Started under full load
Starts and Stops	Infrequent	Moderate	Frequent	Frequent	Frequent
Load/Feed Characteristics	Uniformly loaded	Uniformly loaded	Non-uniformly loaded	Non-uniformly loaded	Non-uniformly loaded

UNIQUE PULLEYS



SPIRAL DRUM PULLEY



SPIRAL WING PULLEY



BELT HOLD DOWN WHEEL



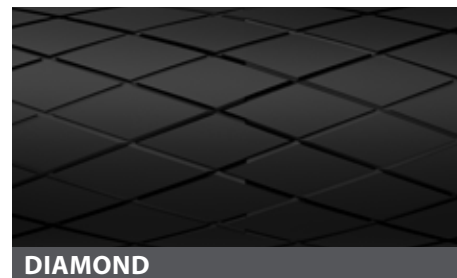
DEAD SHAFT PULLEY

PULLEY SPECIFICATIONS

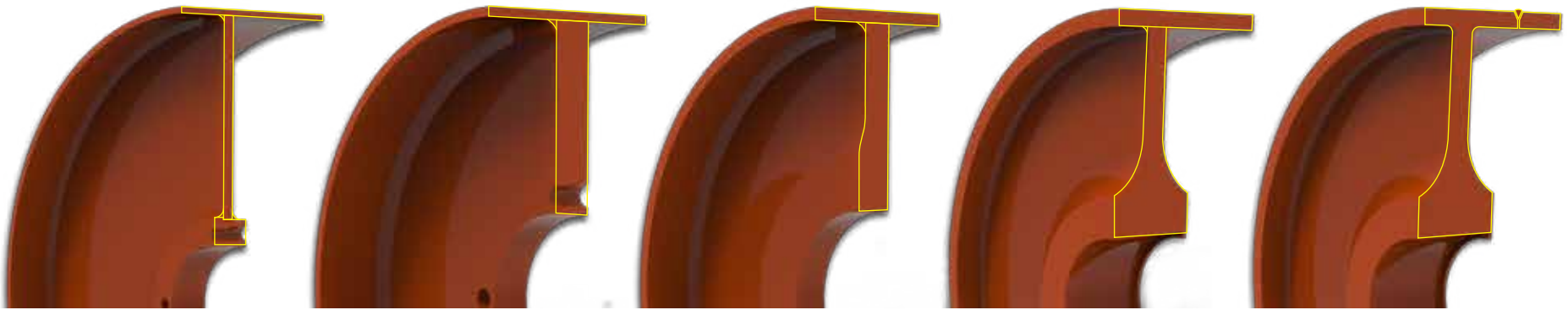
CONVEYOR PULLEYS				
Pulley Types	Pulley Diameter inch (mm)	Integral Hub Diameter inch (mm)	Face Width inch (mm)	Contact Bar Thickness inch (mm)
CEMA Duty Drum Pulley	4"- 60" (101 - 1,524)	12" (304) and under	12"- 78" (304 - 1,981)	-
CEMA Duty Wing Pulley	6"- 60" (152 - 1,524)	-	12"- 78" (304 - 1,981)	1/4" x 1-1/2" min., 3/8" x 1-1/2", 5/8" x 1-1/2" *
Mine Duty 1.5 Drum Pulley	8"- 60" (203 - 1,524)	12" (304) and under	12"- 78" (304 - 1,981)	-
Mine Duty 2.0 Drum Pulley	8"- 60" (203 - 1,524)	12" (304) and under	12"- 102" (304 - 2,590)	-
Mine Duty 2.0 Wing Pulley	8"- 60" (203 - 1,524)	-	12"- 78" (304 - 1,981)	5/8" x 1-1/2" min. (15 x 38)
Super Duty Drum Pulley	10"- 60" (254 - 1,524)	12" (304) and under	12"- 102" (304 - 2,590)	-
Super Duty Wing Pulley	10"- 60" (254 - 1,524)	-	12"- 78" (304 - 1,981)	3/4" x 2" min. (19 x 50)
CEMA Duty Chevron® Pulley	8"- 36" (203 - 914)	All CEMA	12"- 75" (304 - 1,905)	1" x 1/2" half round bar (38)
Mine Duty Chevron® Pulley	12"- 42" (304 - 1,066)	Varies	12"- 75" (304 - 1,905)	1" round bar (25)
Super Duty Chevron® Pulley	12"- 42" (304 - 1,066)	Varies	20"- 75" (508 - 1,905)	1-1/2" round bar (38)

* (6 x 38 min., 9 x 38, 15 x 38)

LAGGING OPTIONS



END DISC OPTIONS



CLASS ONE

WELDED HUB: Best value in applications where high tension is not the chief concern.

CLASS TWO

INTEGRAL HUB: One piece machined integral end disc. Eliminates two welds of hub to end disc, a common fatigue point. Optimized for XT bushings, others available upon request.

CLASS THREE

PROFILE DISC: Solid profiled end disc. Machined one side reduces stress and eliminates hub to end disc welds. Designed for keyless locking devices. Stress free assembly without damaging effect of keyways.

CLASS FOUR

TURBINE END DISC: One piece solid end disc. Machined on both sides to resemble true turbine/hourglass shape. Minimizes stress. Meets customer specific load and tensions. Works with various keyless locking devices.

CLASS FIVE

T-SECTION: Solid end discs. Machined to eliminate welds on end disc. Joins with butt welds and rim to form "T" cross section. Meets customer specific load and tensions. Fabric and steel cable belts over 2500 PIW. Designed for use with heaviest series of keyless locking devices.

PHOTO GALLERY





DEFLECT DAMAGING MATERIAL



EXCLUSIVE AR STEEL UPGRADE

QUICK SPECS

Classes: CEMA, Mine & Super Duty

Diameters: 10" - 42"

Face Widths: 12" - 75"



Abrasion resistant (AR) steel available

CHEVRON® PULLEY

Longer Lasting Pulleys, Extended Conveyor Belt Life

- **Deflects fugitive material** from trapping between wings for extended belt and pulley life.
- **Continuous contact** between pulley and belting reduces noise, vibration and extends bearing life.
- **Friendlier and less abusive** than traditional wings on conveyor belt splicing and clips.
- Time tested, **the original** v-shaped pulley debuted way back in 2007.

SPECIFICATIONS

CLASS	DIAMETER inch (mm)	FACE WIDTH inch (mm)	WING THICKNESS inch (mm)	WEAR BAR THICKNESS inch (mm)
CEMA Duty	10" - 20" (254 - 508)	20" - 63" (508 - 1,600)	3/16" or 1/4" (4 or 6)	1-1/2" (38.1) Half Round Bar
Mine Duty*	12" - 36" (304 - 914)	12" - 60" (304 - 1,524)	1/4" - 5/16" (6 - 8)	1" (25.4) Round Bar
Super Duty*	12" - 48" (304 - 1,219)	24" - 78" (609 - 1,981)	3/8" (9)	1-1/2" (38.1) Round Bar

*Upgrade to our exclusive longer-lasting, abrasion resistant (AR) alloy steel.

CONTINUOUS BELT CONTACT



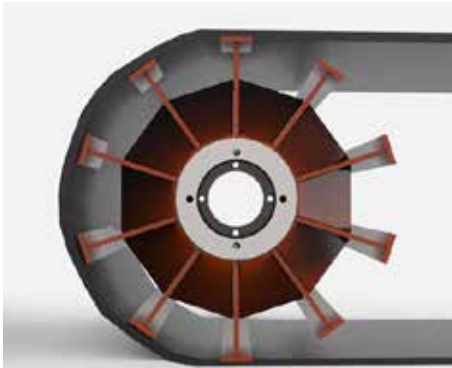
CHEVRON WING

Round End View

Continuous Contact Easier on Belt

Smooth Belt Operation

Less Vibration, Noise, and Wear



TRADITIONAL WING

Apex End View

Gaps in Contact Can Quickly Wear Belting

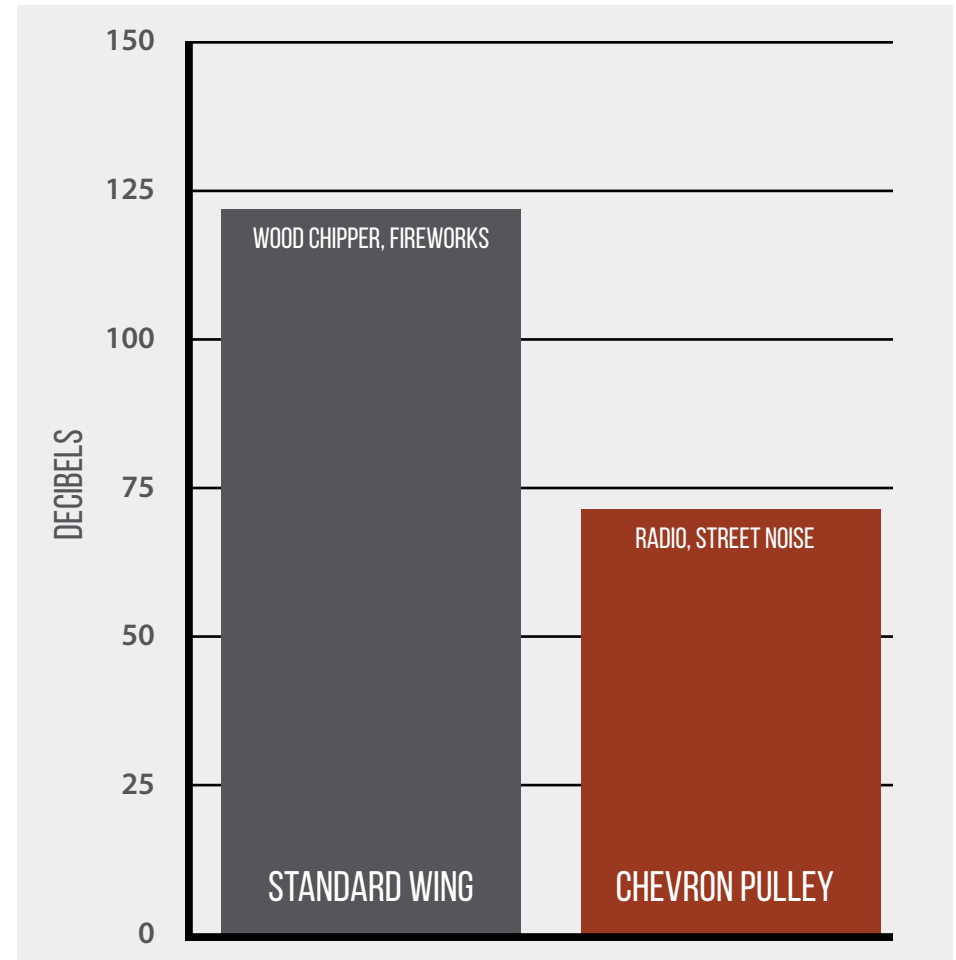
Belt Beating or Flapping

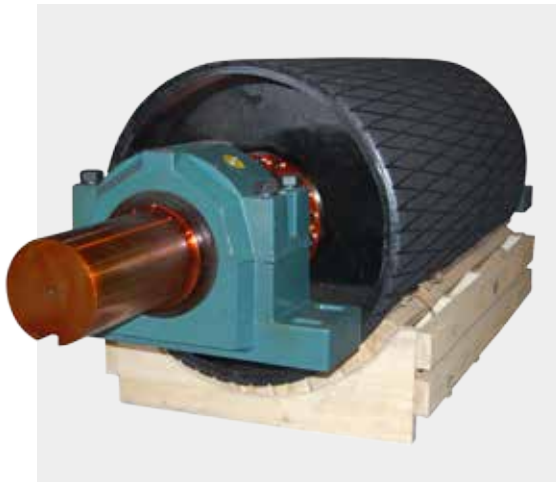
More Vibration, Noise, and Wear

LONGER-LASTING AR STEEL OPTION



REDUCE NOISE POLLUTION





QUICK SPECS

Diameter: Up to 60"

Face Widths: Up to 120"

Shafting: Up to 15"

(Custom Sizes Available Upon Request)

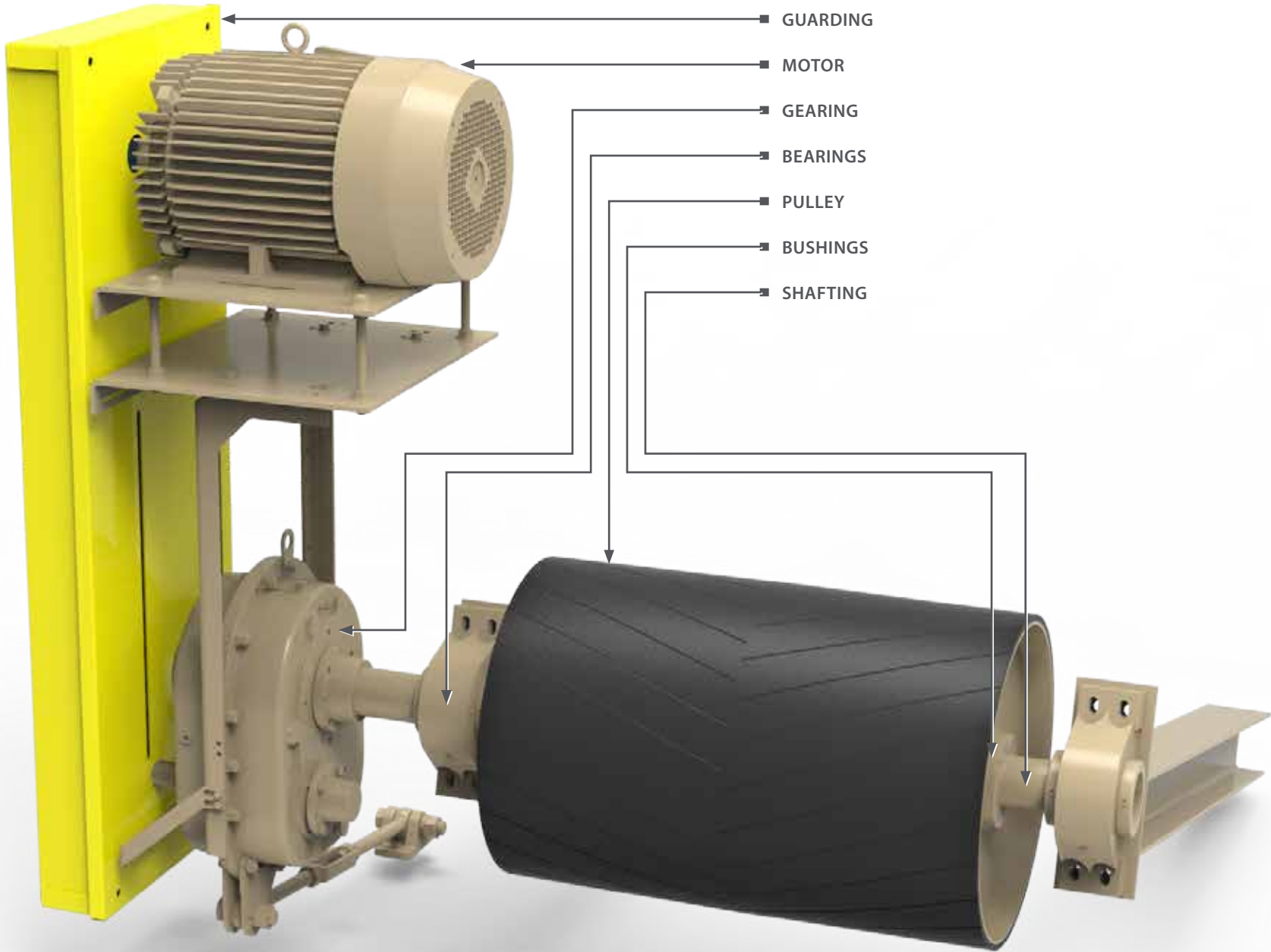


CORE SYSTEMS® DESIGN

Custom-Engineered Conveyor Drive Packages

- Drive package consulting, engineering design, manufacturing and complete assembly from **a single source.** ■
- Engineering team designs **performance-matched packages** and guarantees a strong, working package. ■
- Pre-assembled** power transmission packages eliminate the headaches of assembling onsite and on your own. ■
- Broad, in-house teams of engineers and manufacturing personnel for deliveries that **exceed industry standards.** ■

CONVEYOR DRIVE PACKAGE COMPONENTS



CORE SYSTEMS DESIGN GENERATES NEW CASH



- **Site:** Wildcat Hills Mine; Eldorado, Illinois, USA
- **Application:** Coal
- **Original Production:** Inconsistent production rates
- **Superior Service:** Engineering to steady the capacity of one critical stacking conveyor.
- **Superior Product:** New drive and pulley assemblies.
- **Result: Consistent production of 2,800 sTPH**



- **Site:** Triad Mining; Switz City, Indiana, USA
- **Application:** Coal
- **Original Production:** 1,800 sTPH
- **Superior Service:** Engineering to upgrade the capacity of one critical loadout conveyor.
- **Superior Product:** New drive and pulley assemblies.
- **Result: 2,400 sTPH, 25% increase**

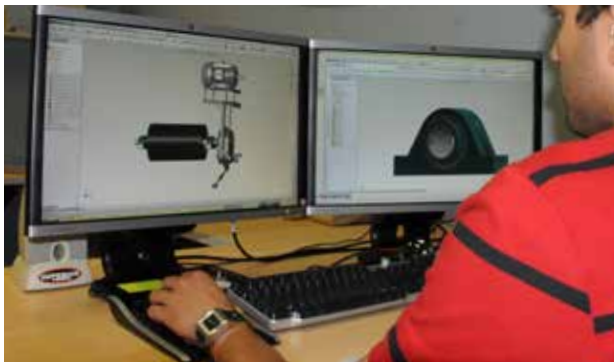


- **Site:** El Chanate Mine; Caborca, Sonora, Mexico
- **Application:** Gold
- **Original Production:** 1,450 sTPH
- **Superior Service:** Engineering work to upgrade the capacity of 22 conveyors.
- **Superior Product:** New drive and pulley assemblies.
- **Result: 1,670 sTPH, 13% increase**



- **Site:** Piedras Verdes; Alamos, Sonora, Mexico
- **Application:** Gold
- **Original Production:** 1,560 sTPH
- **Superior Service:** Engineering work to upgrade the capacity of 23 conveyors.
- **Superior Product:** New drive and pulley assemblies.
- **Result: 1,900 sTPH, 18% increase**

PHOTO GALLERY



DESIGN DATA SHEET FOR CONVEYOR DRIVES

A/ CONTACT INFORMATION

- Date: _____
- Customer: _____
- Plant/Mine/Project: _____
- Engineering Data Calculated By: _____
- Submitted By: _____
- Contact Name: _____
- Contact Phone: _____
- Contact Email: _____

B/ APPLICATION INFORMATION

- Operation (hours/day): _____
- Operation (days/year): _____
- Ambient Temp. Range (degrees) : _____
- Altitude (ft): _____

C/ CONVEYOR INFORMATION

- Conveyor Name/Tag: _____
- Belt Width (inches): _____
- Bearing Centers (inches): _____
- Conveyor C/C Length (ft): _____
- Conveyor Lift (ft) or Incline (degrees): _____
- Conveyor Capacity (sTPH): _____

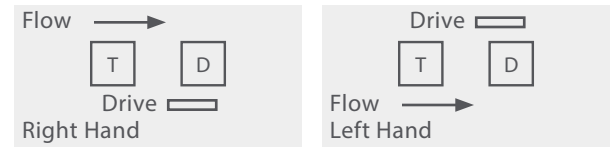
- Belt Speed (FPM): _____
- Motor Horsepower (if known): _____
- Take-Up Type (Manual or Automatic): _____
- Total Installed Counterweight (lbs): _____
- Brake or Demand HP(if known): _____
- Motor Voltage: _____
- Motor Hertz: _____
- Type Of Soft Start (Electronic, VFD, Fluid Coupling, or none): _____
- Material (type and max. lump size): _____
- Material Density (lbs/ft³): _____
- Material Repose Angle (degrees): _____
- Surcharge Angle (degrees): _____
- Number of Belt Scrapers/Cleaners: _____
- Number of Belt Plows: _____
- Top Side Idler Spacing: _____
- Trough Idler Angle and Roll Dia.: _____
- Return Idler Angle, Spacing and Roll Dia.: _____
- Length of Skirtboards (ft): _____
- Height of Material on skirts (inches): _____
- Conveyor Belt Details: _____
- Fabric or Steel Cord Belt: _____

- Number of Plies & Max PIW: _____
- Covers Top x Bottom (inch x inch): _____

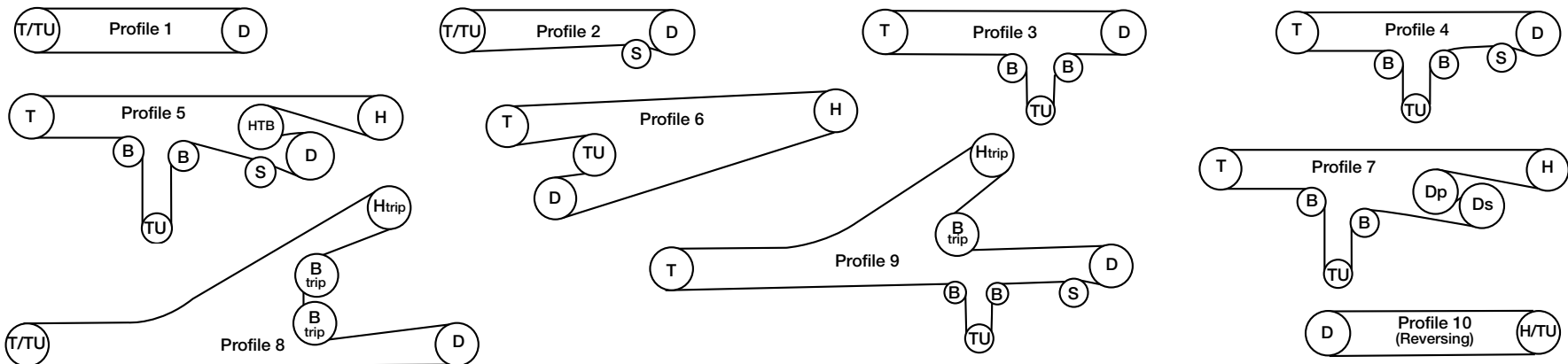
D/ DRIVE STYLE (IF KNOWN)

- Right angle: [] Yes [] No
- Shaft Mounted: [] Yes [] No
- Parallel: [] Yes [] No
- Concentric (inline): [] Yes [] No
- Output RPM = Pulley RPM: _____
- Selected Pulley Diameter: _____
- Shaft Diameter Through Bearing: _____
- Input Connection (V-Belt): _____
- Connection to Pulley (Direct Coupled): _____
- See types: Profile 1 through Profile 10 below

E/ DRIVE LOCATION



- Lag Thickness: _____
- C/D Flange: _____
- Shaft Mount: _____
- Coupling: _____
- Chain or Belt Final: _____





QUICK SPECS

Classes: CEMA B, C, D, E, and F

Roll Diameters: 4" - 8"

Belt Widths: 18" - 120"



CEMA RATED CONVEYOR IDLERS

Fastest Idler Lead Times in North America

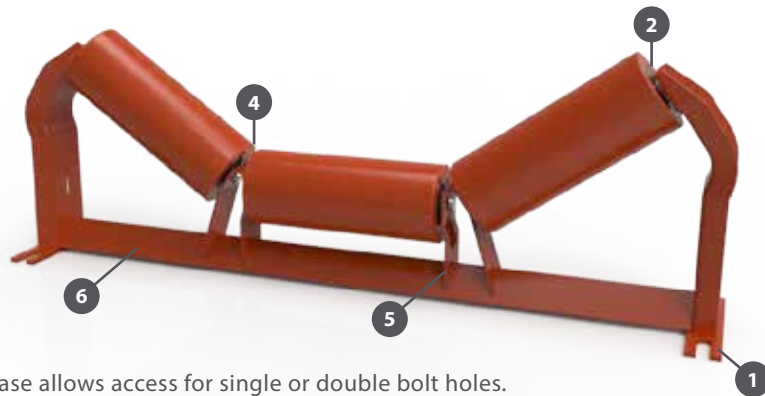
- **SpringGuard® Seal Technology** designed for bullet proof bearing protection and longer lasting idlers.
- Two American manufacturing plants and stocked distributors for **lightning fast lead times**.
- **As thick or thicker steel** construction compared to competitors.
- **Broadest range of CEMA categories** creates the perfect product fit within an application.

SPINGUARD SEAL TECHNOLOGY

- 1/ **FLAT SURFACE:** Material will not build up across the flat end disc surface.
- 2/ **STATIONARY EXTERNAL SEAL:** Helps prevent material pinch points between the frame and the end of the roller.
- 3/ **CENTRIFUGAL FORCE CHAMBER:** Creates a self-cleaning flinger effect, keeping water and dirt out.
- 4/ **CONTACT SEAL:** First line of defense against contaminants is the contact seal, which creates less drag than a rubber seal.
- 5/ **TRIPLE LABYRINTH SEAL:** Second line of defense which makes contaminants travel a longer distance. The labyrinth is also grease filled to keep contaminants away from the ball bearing. The durable seal material is less susceptible to corrosion.
- 6/ **BALL BEARING:** Factory sealed metric ball bearing on all CEMA rated idlers.



IDLER STAND FEATURES



- 1/ Open end base allows access for single or double bolt holes.
- 2/ No fugitive material pinch points between roll and frame.
- 3/ Locking tab holds roll tight to frame and allows easy change out.
- 4/ Narrow roll gap eliminates pinch point, which damages belt.
- 5/ Non-clogging center stands.
- 6/ Base angle sheds material and prevents build-up.

QUICK SPECS

IDLER SPECIFICATIONS				
Class	Bearing Size	Diameter	Thickness	Belt Width
CEMA B	17 mm	4", 5"	11, 9 Ga	18"- 48"
CEMA C	20 mm	4", 5", 6"	11, 9, 7 Ga	18"- 60"
CEMA D	25 mm	5", 6"	9, 7 Ga	24"- 72"
CEMA E	40 mm	6", 7"	1/4"	36"- 96"
CEMA F	50 mm	7", 8"	1/2" or 3/4"	42"- 120"

TROUGHING/CARRY IDLER STYLES



EQUAL TROUGHING



MOXIE® ROLLS



UNEQUAL TROUGHING



CB504 SERIES



FEEDER/PICKING



CHANNEL MOUNT LOW PROFILE



IMPACT



OFF CENTER ROLL



WIRE ROPE



VARIABLE PITCH



SELF-ALIGNER



STEEL FLAT CARRIER



RUBBER FLAT CARRIES

RETURN/BOTTOM IDLER STYLES



RETURN ROLL



URATHON® RETURN ROLL



SPIRAL URATHON® RETURN ROLL



RUBBER DISC RETURN



NAVIGATOR® RETURN TRAINER



SELF-ALIGNER RETURN



V-RETURN



GARLAND



LIVE SHAFT ROLLER

PHOTO GALLERY





MINE DUTY CONVEYOR IDLERS

More Sizes, Styles and Options Cover Infinite Applications

IDLER SPECIFICATIONS

IDLER SPECIFICATIONS					
Class	Bearing Size	Diameters	Belt Widths	Single/Double Tube	
CEMA D	25mm	5", 6"	24" - 72"	Single	
DX*	30mm	5", 6"	30" - 72"	Single (1/4" wall)	
CEMA E	40mm	6", 7"	36"-96"	Single	
40DT	40mm	6", 7"	36"-72"	Double	
45DT	45mm	6", 7", 7.5"	54"-108"	Double	
CEMA F	50mm	6", 7", 8"	42"-120"	Single	
50DT	50mm	7", 8"	42"-120"	Double	
60DT	60mm	7", 8"	60"-120"	Double	

* Exclusive to Superior Industries

TROUGHING/CARRY IDLER STYLES



STEEL TROUGHING

RUBBER IMPACT

SELF-ALIGNER

RETURN/BOTTOM IDLER STYLES



STEEL RETURN

RUBBER IMPACT

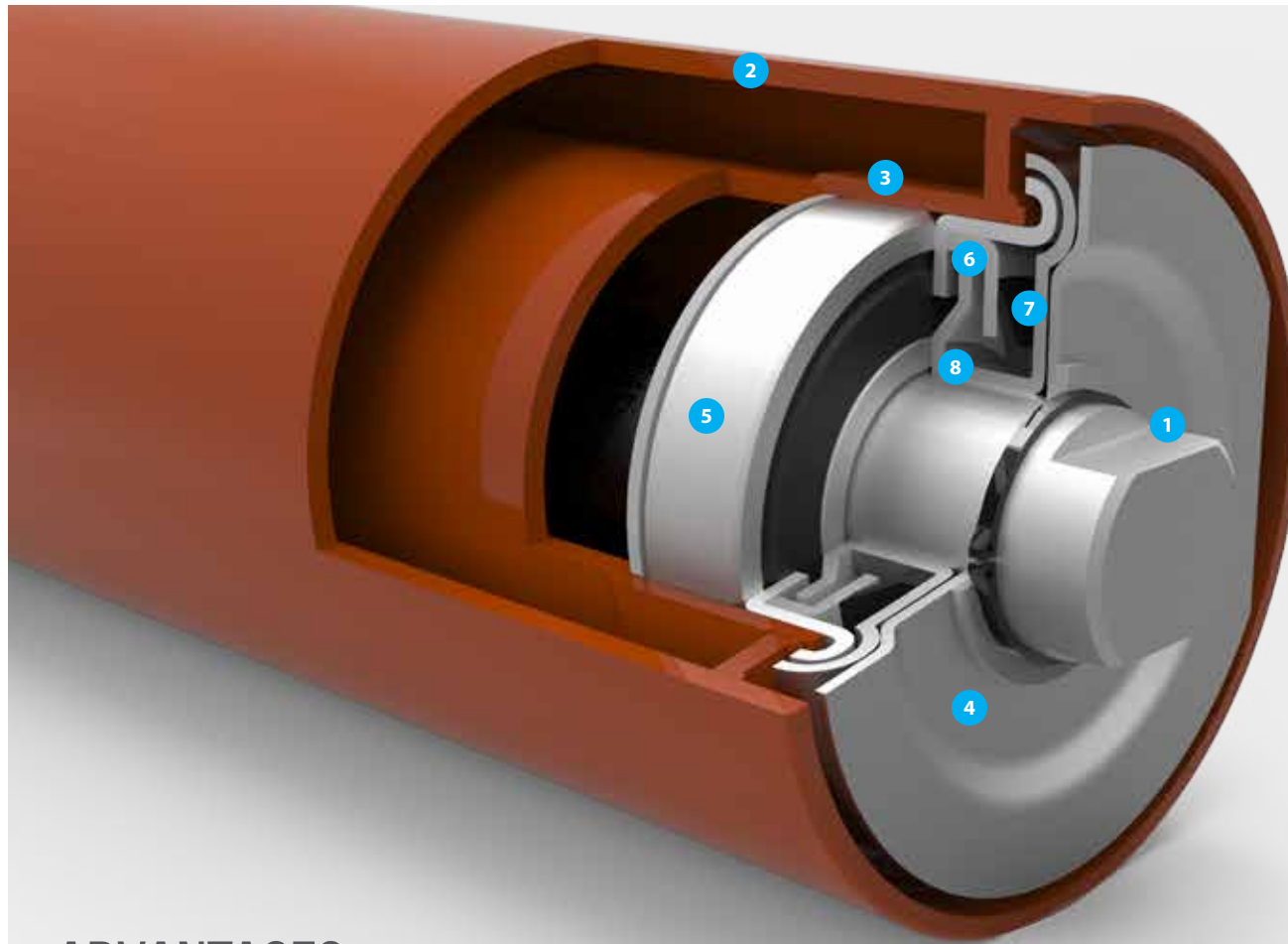
SELF-ALIGNER

V-RETURN

FLAT CARRIER STEEL

FLAT CARRIER RUBBER IMPACT

DOUBLE TUBE (DT) IDLER FEATURES



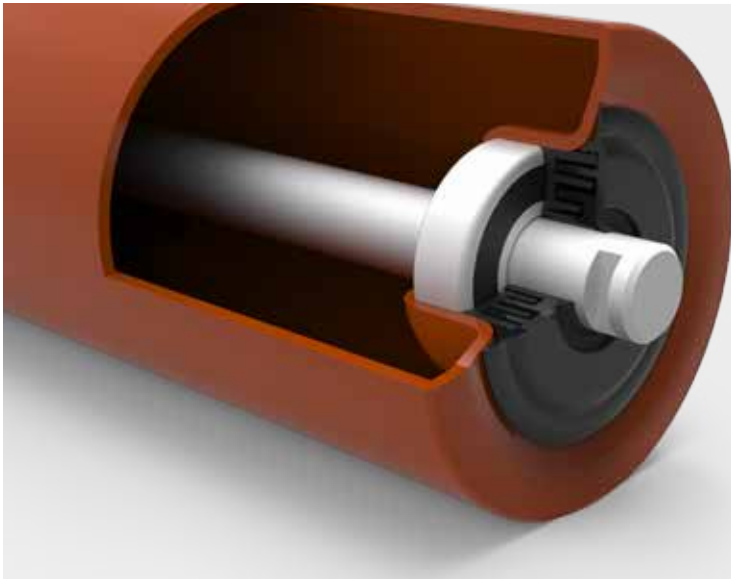
HIGHLIGHTS

- 1 Fits into CEMA frames
- 2 Double tube construction
- 3 Full tube bearing seat
- 4 Steel rock and spray shield
- 5 High performance bearing
- 6 Rugged, waterproof seal stands up in harsh applications
- 7 Contact seal stops contamination
- 8 Proprietary grease increases life of seal

ADVANTAGES

- Increased rigidity with inner and outer tube construction
- The inner tube insulates the bearing from vibration, reducing misalignment and increasing life of bearing
- 20% higher load rating on average improving service life
- As outer shell wears, the inner tube maintains the structural integrity of roller
- Proven to last under extreme loads

CEMA DUTY IDLERS

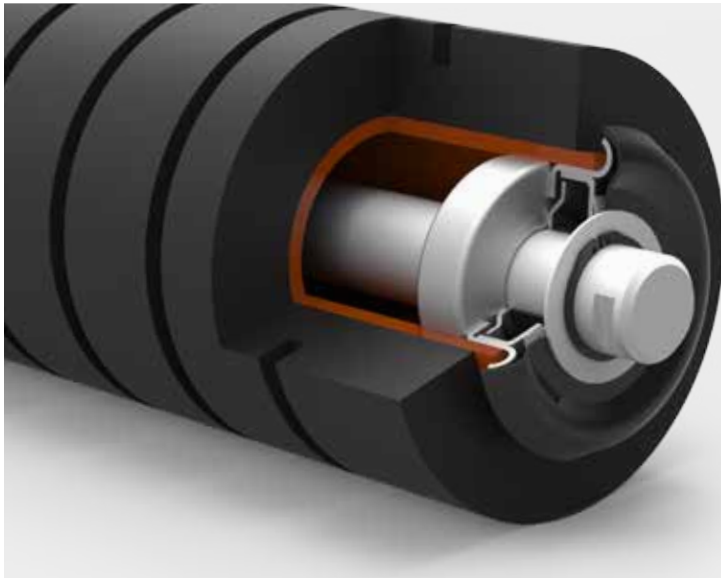


- Design standards governed by Conveyor Equipment Manufacturer's Association (CEMA).
- Diverse range of products for solutions in every conveying application.
- Heavy duty frames designed to stand up in harsh applications.
- 40 years of manufacturing and thousands of customers

CEMA DUTY IDLERS PHOTOS

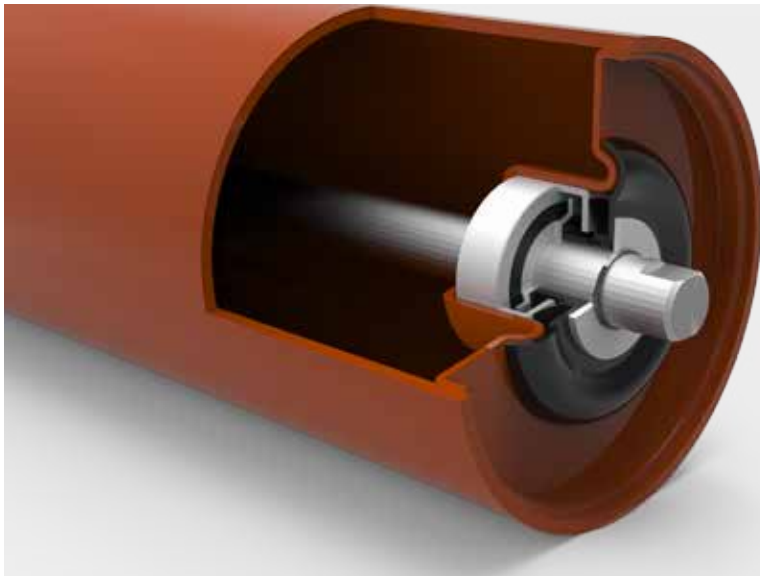


RUBBER IMPACT IDLERS



- Shock absorbing rubber extends belt life in conveyor load zones.
- Special rubber formula developed in-house can remain in operation until totally worn.
- Specialized vulcanization process improves adhesion to steel.
- No tire slippage with vulcanized rubber lagging versus tires.

DX IDLERS



- 1/4" (6mm) inch thick shell for increased roll life.
- Upgraded 30mm bearing for heavy-duty alternative in CEMA D applications.
- Seal design resists moisture and harmful contaminants.



QUICK SPECS

Classes: CEMA C and D

Roll Diameter: 5" and 6"

Belt Widths: 18" to 72"



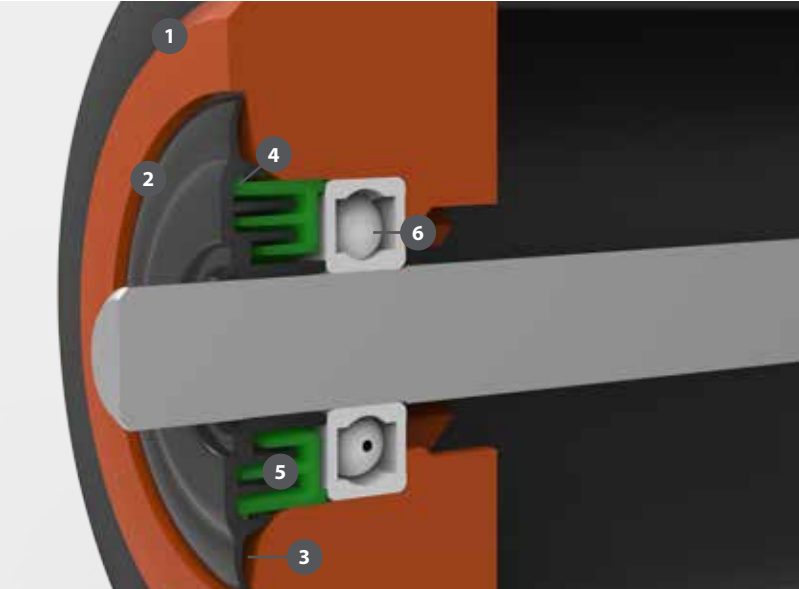
MOXIE® ROLLS

Shed Sticky Material

- The lubricity of Moxie Rolls **prevents material from sticking** to cans, a leading cause of belt mistracking.
- The special **material resists corrosion**. (Stainless steel frames provide additional protection).
- The lightweight material **weighs much less than steel** making it easier for maintenance transport.
- At least 3X quieter than steel idlers, **Moxie Rolls reduce the noise** generated by your plant. ■

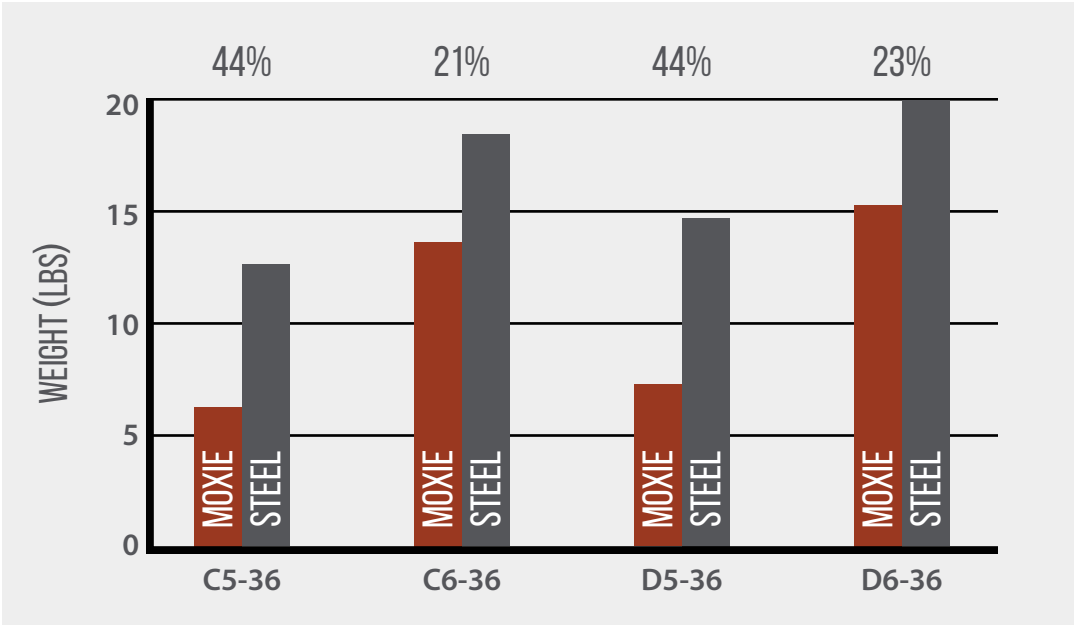
SPINGUARD® SEAL TECHNOLOGY

- 1/ **FLAT SURFACE:** Material will not build up across the flat end disc surface.
- 2/ **STATIONARY EXTERNAL SEAL:** Helps prevent material pinch points between the frame and the end of the roller.
- 3/ **CENTRIFUGAL FORCE CHAMBER:** Creates a self-cleaning flinger effect, keeping water and dirt out
- 4/ **CONTACT SEAL:** First line of defense against contaminants is the contact seal, which creates less drag than a rubber seal.
- 5/ **TRIPLE LABYRINTH SEAL:** Second line of defense which makes contaminants travel a longer distance. The labyrinth is also grease filled to keep contaminants away from the ball bearing. The durable seal material is less susceptible to corrosion.
- 6/ **BALL BEARING:** Factory sealed metric ball bearing on all CEMA rated idlers.



SPINGUARD SEAL CUTAWAY

IDLER WEIGHT COMPARISON





BEFORE: BELT/BACKET DAMAGE



AFTER: ALWAYS CENTERED BELT



Available for bidirectional belts

QUICK SPECS

Belt Widths: 24"- 72"

Lagged Diameters: 7-3/4" or 10-3/4"

Non Lagged Diameters: 7" or 10"



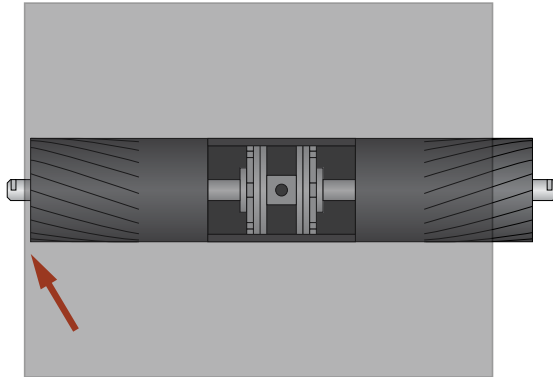
NAVIGATOR[®] RETURN TRAINER

Constantly Working to Maintain Proper Belt Tracking

- Provides **continuous belt alignment**, which extends life of belting and other conveyor components. ■
- Rubber lagging **sheds material** avoiding material buildup. ■
- Internal, off-the-shelf, flange mount bearings are **clear of material buildup**. ■
- Largest diameter roll for **longer service life** and effectiveness in both wet and dry conditions. ■

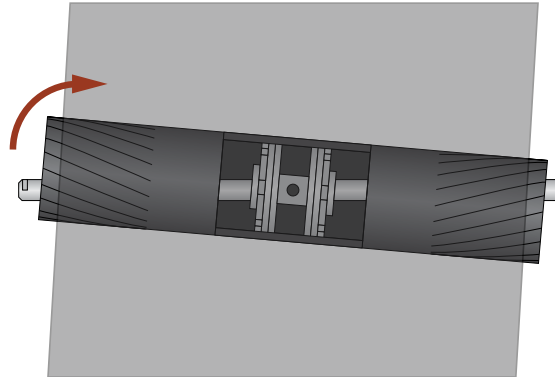
HOW IT WORKS

MISALIGNED BELT



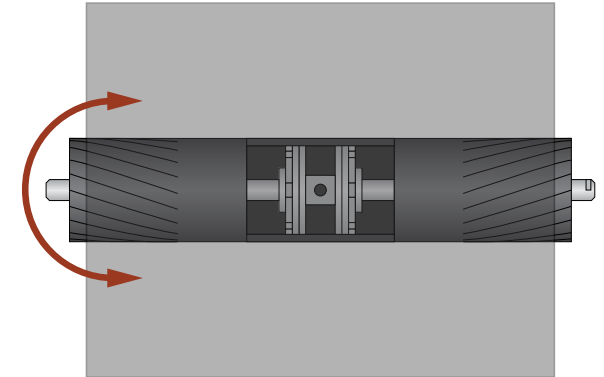
1. Misaligned belt puts pressure on one side of the Navigator Return Trainer.

BELT ALIGNMENT



2. Misaligned pressure causes the Navigator Return Trainer to tilt, centering the belt.

ALIGNED BELT



3. The Navigator Return Trainer is constantly guiding and centering the belt.

PRODUCER PERSPECTIVE

BAD BEHAVIOR: "When our belts misalign they cut into return frames and can actually cut right through the conveyor. At the least, the conveyor catches the belt lacing and rips the side of the belt."

PRICEY PROBLEMS: "At \$15 to \$20 a foot and three to four maintenance workers, it's a pretty expensive situation to change out a belt and anyway you look at it, it's downtime!"

ADVANCED ALTERNATIVE: "The Navigator return trainer just seems to handle the belt better than those ones with the side guide rollers. They let the belt travel too far before they even start doing anything."



MAINTENANCE MANAGER AT CAPITOL AGGREGATES, AUSTIN, TEXAS



Available for bidirectional belts

QUICK SPECS

Classes: CEMA B, C, D, E, and F

Roll Diameters: 4" - 7"

Belt Widths: 18" - 96"



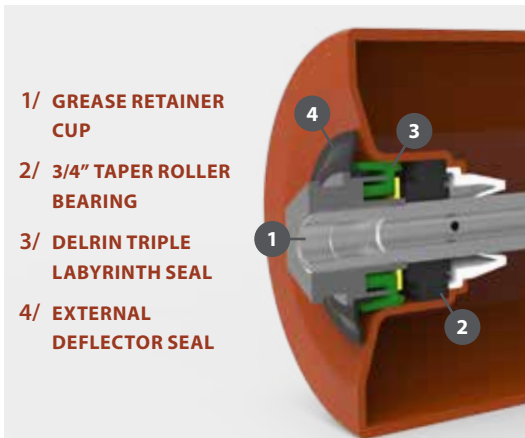
SELF-ALIGNING IDLERS

Economical Belt Tracking Tool

- Mistracking belt causes idler to pivot, which steers and **aligns the belt.**
- Compared to rigid steel, urethane side guide rollers are **softer on belting.**
- **Concave-shaped side guide rollers** prevent the belt from running up and over.
- Idlers manufactured with SpinGuard® Seal Technology for **bullet proof bearing protection.**



GREASE ZERK



- 1/ GREASE RETAINER CUP
- 2/ 3/4" TAPER ROLLER BEARING
- 3/ DELRIN TRIPLE LABYRINTH SEAL
- 4/ EXTERNAL DEFLECTOR SEAL

IDEAL FOR WET/DAMP CONDITIONS

QUICK SPECS

Classes: CEMA C and D
 Roll Diameters: 4" - 6"
 Belt Widths: 18" - 72"



81/91 SERIES REGREASABLE IDLERS

Regreasable Idlers Stop Invading Water Damage

- One side grease relief for **quick maintenance**. ■
- Special inner seal **prevents grease from escaping** into roll cavity. ■
- As thick or **thicker steel construction** compared to competitors. ■
- Grease allows for **continuous bearing protection** from water or slurry. ■



QUICK SPECS

Roll Diameter: 4"

Angles: 20°, 30°, 45°, 60°

Belt Width: 24" - 54"



40 SERIES IDLERS

Interchange with Powerscreens Rollers

- Replacement rolls and related parts for **Powerscreen equipment.** ■
- Replaceable** end rollers and diecast stands. ■
- Universal center bracket** applies to all sizes. ■
- Thick 11 gauge steel for **long-lasting dependability.** ■



QUICK SPECS

Roll Diameters: 4" and 4-1/2"

Stub Pins: 2-1/2" and 3"

Belt Widths: 18" - 48"



CB504 IDLERS

Interchange with Marco and Cedarapids Rollers

- Replacement rolls and related parts for **Marco and Cedarapids idlers.**
- Channel-mount, low-profile designs means **maintenance friendly in tight locations.**
- Optional **rubber impact design** for high impact loading zone applications.
- **Manufactured with sealed bearings** vs. an external seal design for better protection.



BUILD-UP CAUSES BELT MISTRACKING



SPIRAL OPTION CLEANS BELT



QUICK SPECS

Classes: CEMA B, C, D, and E

Roll Diameters: 5", 6" and 7"

Belt Widths: 18" - 96"



URATHON[®] RETURN ROLLS

Shed Sticky Material to Maintain Proper Belt Tracking

- Non-stick properties **shed material** in wet and sticky applications. ■
- Lasts at least 3X longer** than quick wearing steel or rubber rolls in similar applications. ■
- Spiral style rolls offer added benefit of **cleaning the bottom side** of the conveyor belt. ■
- The specially formulated material is **resistant to rust and corrosion** common to steel rolls. ■

SPECIFICATIONS

URATHON RETURN ROLL SPECIFICATIONS				
Part Numbers		Belt Width (Inches)	Weight (lbs) Including Brackets	
5" Diameter Roll	6" Diameter Roll		5" Diameter Roll	6" Diameter Roll
B5-RETU-18	N/A	18"	21	N/A
B5-RETU-24	N/A	24"	24	N/A
B5-RETU-30	N/A	30"	28	N/A
B5-RETU-36	N/A	36"	32	N/A
B5-RETU-42	N/A	42"	36	N/A
B5-RETU-48	N/A	48"	40	N/A
C5-RETU-18	C6-RETU-18	18"	22	28
C5-RETU-24	C6-RETU-24	24"	25	33
C5-RETU-30	C6-RETU-30	30"	30	39
C5-RETU-36	C6-RETU-36	36"	34	45
C5-RETU-42	C6-RETU-42	42"	38	50
C5-RETU-48	C6-RETU-48	48"	42	56
C5-RETU-54	C6-RETU-54	54"	50	66
C5-RETU-60	C6-RETU-60	60"	55	72

URATHON RETURN ROLL SPECIFICATIONS				
Part Numbers		Belt Width (Inches)	Weight (lbs) Including Brackets	
5" Diameter Roll	6" Diameter Roll		5" Diameter Roll	6" Diameter Roll
D5-RETU-18	D6-RETU-18	18"	24	31
D5-RETU-24	D6-RETU-24	24"	28	37
D5-RETU-30	D6-RETU-30	30"	33	43
D5-RETU-36	D6-RETU-36	36"	38	49
D5-RETU-42	D6-RETU-42	42"	42	55
D5-RETU-48	D6-RETU-48	48"	47	61
D5-RETU-54	D6-RETU-54	54"	51	67
D5-RETU-60	D6-RETU-60	60"	56	73
D5-RETU-72	D6-RETU-72	72"	67	88
N/A	E6-RETU-36	36"	N/A	88
N/A	E6-RETU-42	42"	N/A	99
N/A	E6-RETU-48	48"	N/A	109
N/A	E6-RETU-54	54"	N/A	120
N/A	E6-RETU-60	60"	N/A	131
N/A	E6-RETU-72	72"	N/A	155
N/A	E6-RETU-84	84"	N/A	175
N/A	E6-RETU-96	96"	N/A	196

PHOTO GALLERY





PREVENTS MATERIAL BUILDUP



RUBBER DISC STYLE

QUICK SPECS

Lagged: CEMA C and D

Disc: CEMA B, C, D, and E

Belt Widths: 18" - 72"



Shown: Rubber lagged style

RUBBER LAGGED RETURN ROLLS

Cost Effective, Material Shedding Idler Return Rolls

- Prevent build-up on the return side of the conveyor belting to **maintain accurate tracking**. ■
- Rubber has **better wear characteristics** than standard steel rolls, especially in wet conditions. ■
- Lagging increases thickness of idler, which **extends wear life** of the rollers. ■
- Properties of **rubber offer stability** in a wide range of temperatures. ■



QUICK SPECS

Roll Diameters: 5" or 6"

Belt Widths: 18" - 72"



BEATER BAR RETURN ROLLS

Overcome Material Sticking to Rolls and Belting

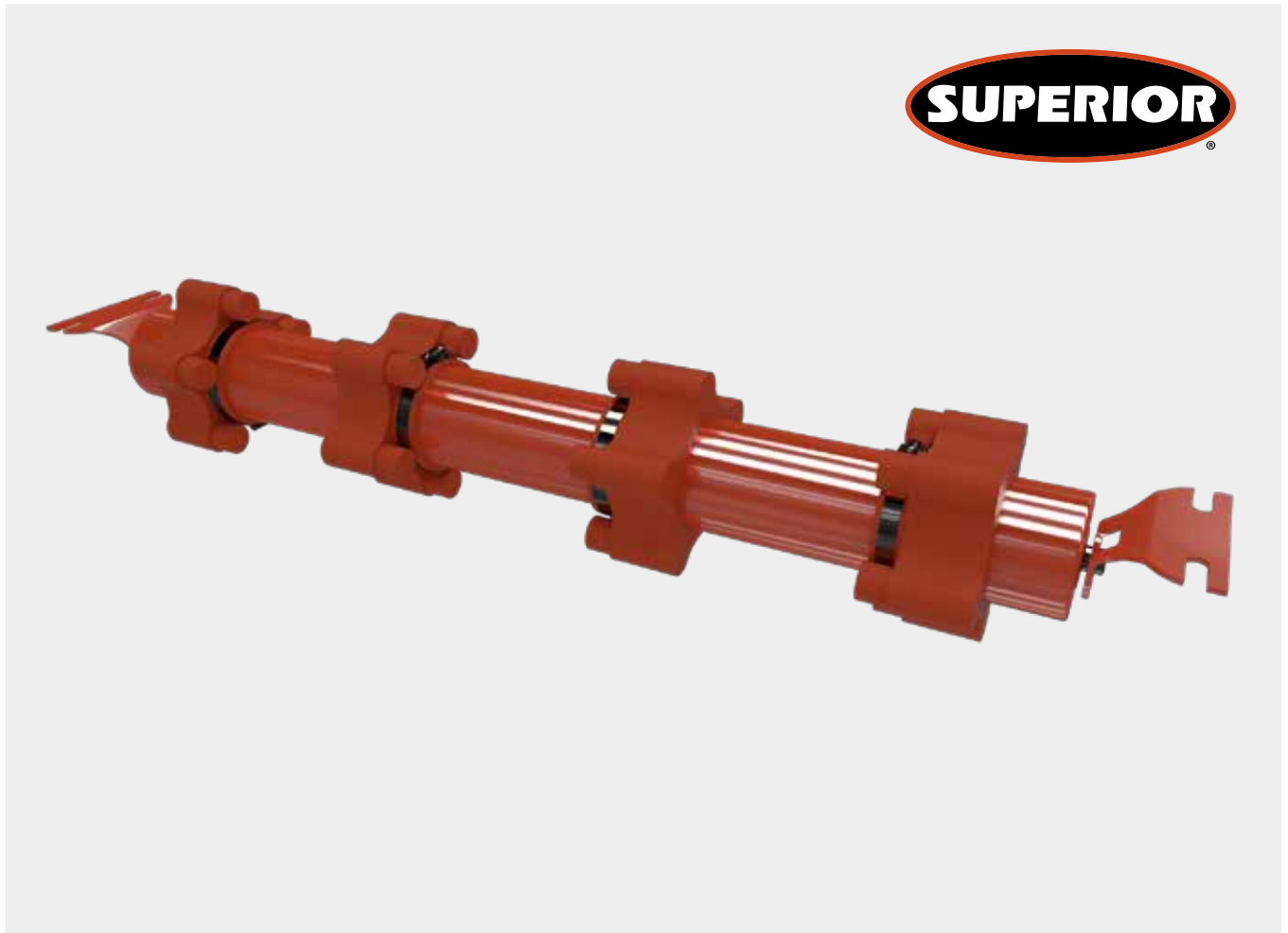
- Rods create beating motion, which helps keep the **belting free of carryback** material.
- Bar design allows for gaps for material to escape, which **eliminates build-up** on the roller.
- Excess material build-up on return rolls is one of the **chief producer of belt mistracking**.
- Mounted with live shafts to **support conveyor belt loads**.



EASILY SLIDE DISC ONTO RETURN ROLLER



STANDARD HOSE CLAMP SECURES DISC



URATHON® BEATER ROLLS

Cost-Effectively Shake Off Carryback Material

QUICK SPECS

Classes: CEMA C and D

Roll Diameter For: 4", 5" and 6" Rolls

Belt Widths: 18" to 60"



- **Economical method** of removing carryback material from bottom of belting.
- Maintenance free lobed discs cause light vibration to **dislodge material from belting.**
- Ideal installation is above stockpile, screen or bin so **material hits discharge target.**
- Purchase as **individual urethane discs** or complete idler with pre-assembled discs.

SPECIFICATIONS

CEMA C SPECIFICATIONS (PRE-ASSEMBLED DISCS AND IDLER)

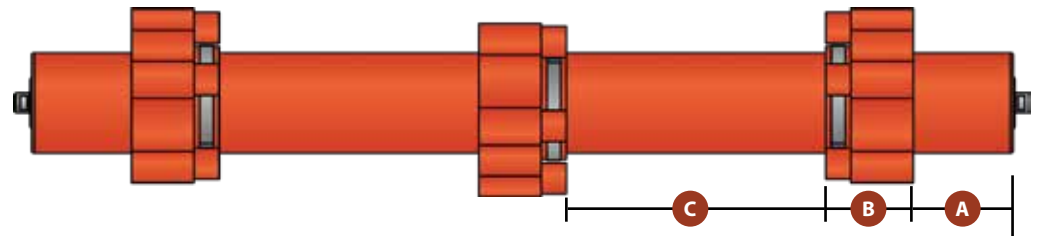
Roll Diameter		Belt Width (Inches)	Number of Discs	Total Assembly Weight (lbs)			Lobed Disc Installation (inches) see illustration below			
4"	5"			6"	4"	5"	6"	A	B	C
C4-RETUB-18	C5-RETUB-18	C6-RETUB-18	18"	2	20	26	33	4"	3.5"	6-1/4"
C4-RETUB-24	C5-RETUB-24	C6-RETUB-24	24"	2	24	30	42			12-1/4"
C4-RETUB-30	C5-RETUB-30	C6-RETUB-30	30"	3	29	37	48			7-1/2"
C4-RETUB-36	C5-RETUB-36	C6-RETUB-36	36"	3	32	42	56			10-1/2"
C4-RETUB-42	C5-RETUB-42	C6-RETUB-42	42"	4	37	47	63			7-3/4"
C4-RETUB-48	C5-RETUB-48	C6-RETUB-48	48"	4	38	54	69			9-3/4"
C4-RETUB-54	C5-RETUB-54	C6-RETUB-54	54"	4	48	60	80			11-3/4"
C4-RETUB-60	C5-RETUB-60	C6-RETUB-60	60"	5	53	68	87			9-1/2"

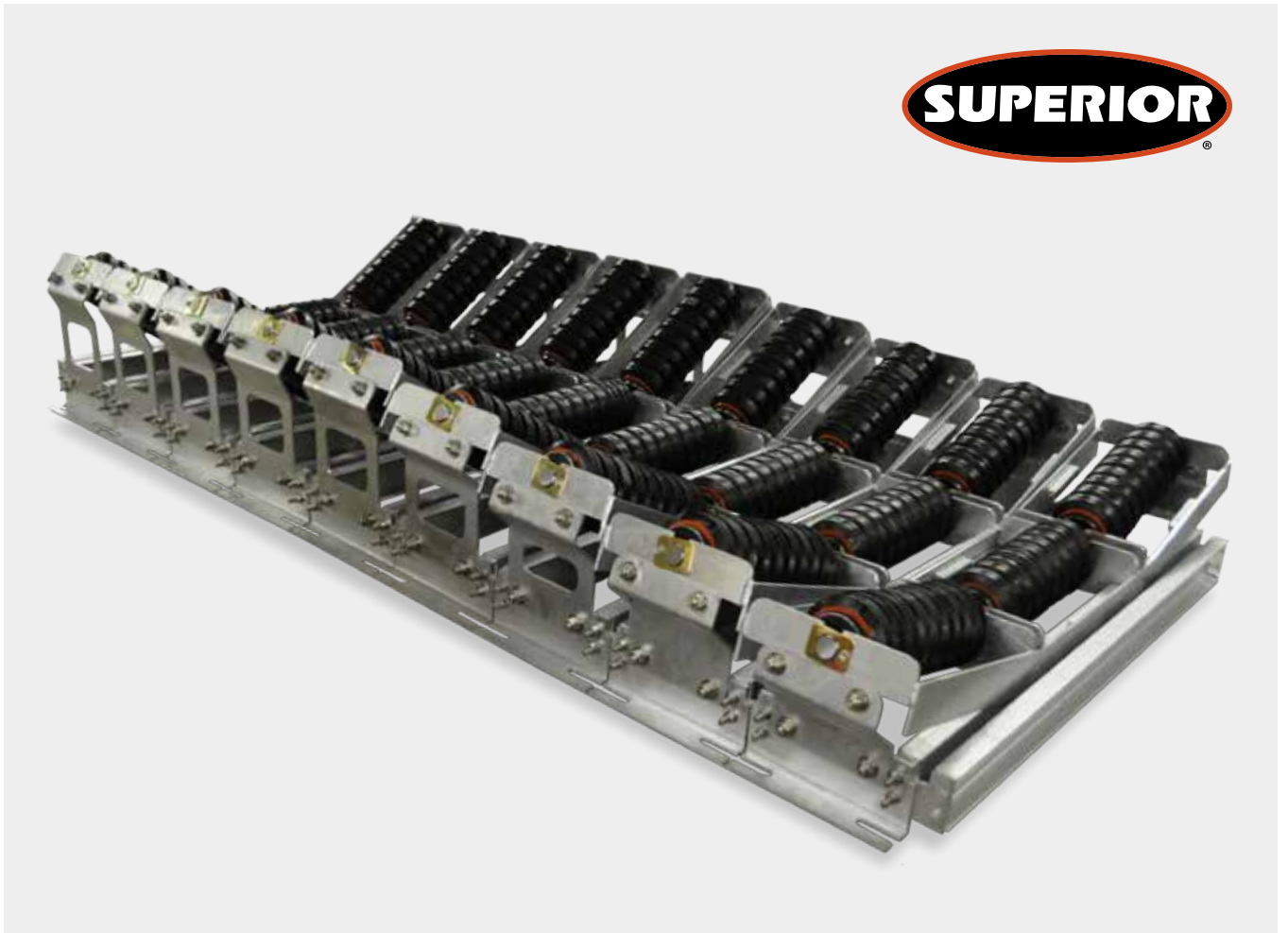
CEMA D SPECIFICATIONS (PRE-ASSEMBLED DISCS AND IDLER)

Roll Diameter		Belt Width (Inches)	Number of Discs	Total Assembly Weight (lbs)			Lobed Disc Installation (inches) see illustration below			
4"	5"			6"	4"	5"	6"	A	B	C
D4-RETUB-18	D5-RETUB-18	D6-RETUB-18	18"	2	20	28	36	4"	3.5"	6-1/4"
D4-RETUB-24	D5-RETUB-24	D6-RETUB-24	24"	2	25	33	45			12-1/4"
D4-RETUB-30	D5-RETUB-30	D6-RETUB-30	30"	3	30	41	52			7-1/2"
D4-RETUB-36	D5-RETUB-36	D6-RETUB-36	36"	3	34	46	60			10-1/2"
D4-RETUB-42	D5-RETUB-42	D6-RETUB-42	42"	4	38	52	67			7-3/4"
D4-RETUB-48	D5-RETUB-48	D6-RETUB-48	48"	4	42	57	74			9-3/4"
D4-RETUB-54	D5-RETUB-54	D6-RETUB-54	54"	4	46	62	82			11-3/4"
D4-RETUB-60	D5-RETUB-60	D6-RETUB-60	60"	5	51	69	91			9-1/2"
D4-RETUB-72	D5-RETUB-72	D6-RETUB-72	72"	5	59	80	105	12-1/2"		

INDIVIDUAL LOBED DISCS

Part Number	Description	Outside Diameter
09-000018	4" Lobed Disc	7.5"
09-000019	5" Lobed Disc	9.5"
09-000020	6" Lobed Disc	10.5"





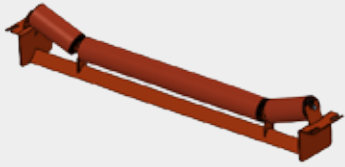
CUSTOM DESIGN IDLERS

- No matter what your conveyor brand is, **Superior components can fit your machine.**
- Research on over 25 competitor's designs and **offer over 6,200 retrofit idler roll designs** for your unique needs.
- Aggregates, mining, grain, ship loading, etc. industries; you will be **amazed by what we come up with.**
- **We're up to the challenge** if you want to see your new idlers in Superior orange, or any other preferred color.



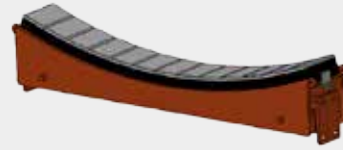
SOME AVAILABLE SOLUTIONS

TIGHT SPACES



LOWER CHANNEL IDLER

IMPACT ZONE



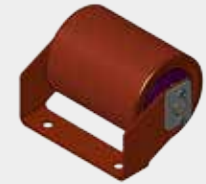
ASSEMBLY WITH SLIDE IN BAR

TRACKING/ALIGNMENT



NO CENTER SHIFT IDLER ROLLER

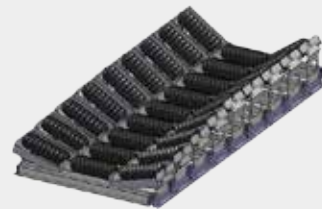
TRANSITIONS



ASSEMBLY FOR PIPE CONVEYOR



ONE WAY BELT, LOW PROFILE IDLER



DEGREE TRANSITION IMPACT BED



WIRE ROPE TRAINER



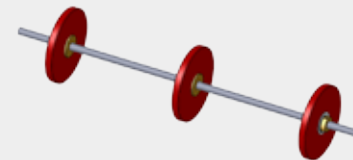
STEEP TROUGHING IDLER



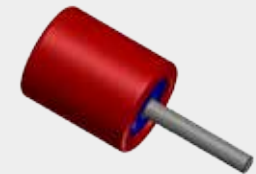
20°-35° IMPACT LOW PROFILE IDLER



IMPACT CENTER ON MODULAR BED



DEFLECTOR ROLLER



URETHANE STUB ROLLER



DEEP ANGLE, EXTRA LONG IDLER



ADJUSTABLE WING ROLLER BED



HEAVY DUTY V-RETURN IDLER



EQUALIZED IDLER



BEEFY, LONGER-LASTING BLADE



EXTERRA SFL DUAL BELT CLEANER



QUICK SPECS

Belt Widths: 18" - 72"

Primary Blade Height: 6-11/16"

Mini Blade Height: 5"

Pole Lengths: 48" - 114"

Durometer: 87A Urethane

PATENTED
TECHNOLOGY

2 YEAR
COMPONENTS
WARRANTY

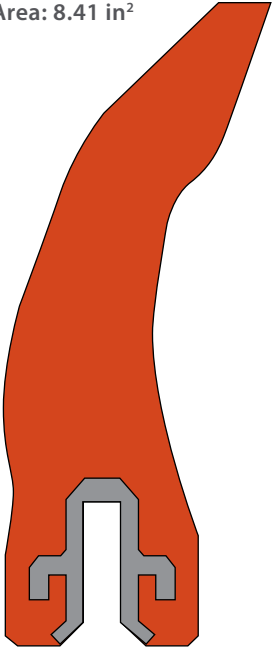
EXTERRA® BELT CLEANERS

Simple Installation, Effective Operation, Economical Investment

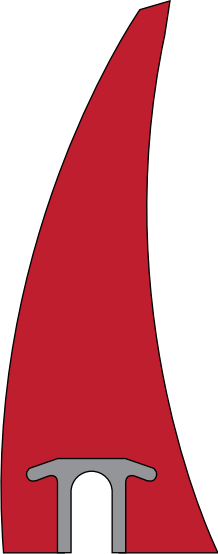
- Jam packed with **up to 40% more urethane** than other primary scrapers on the market. ■
- Thicker blade tip means **extra material at the scraper's most crucial point** of attack. ■
- Patented, maintenance-free SFL upgrade requires **no time consuming tensioning** during entire life of blade. ■
- All models designed for straightforward, **quick conveyor installations**. ■

MORE URETHANE FOR LONGER-LASTING BLADES

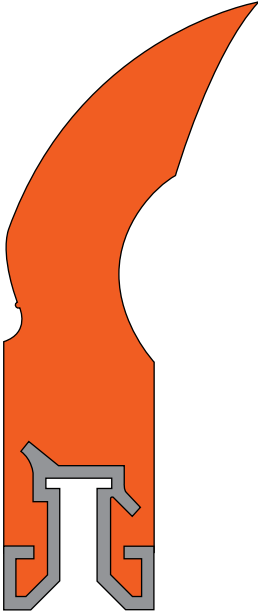
SUPERIOR
 Exterra® Belt Cleaner
 Area: 8.41 in²



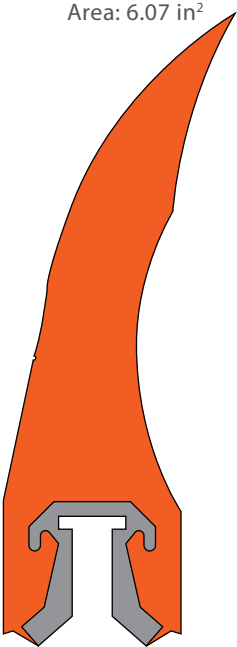
ARCH
 Saber
 Area: 6.41 in²



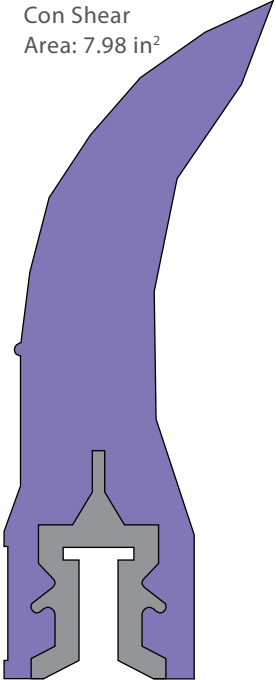
MARTIN
 Pit Viper
 Area: 6.77 in²



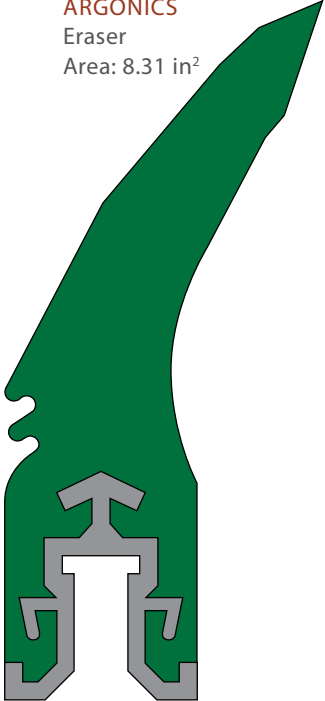
MARTIN
 QC#1 HD
 Area: 6.07 in²



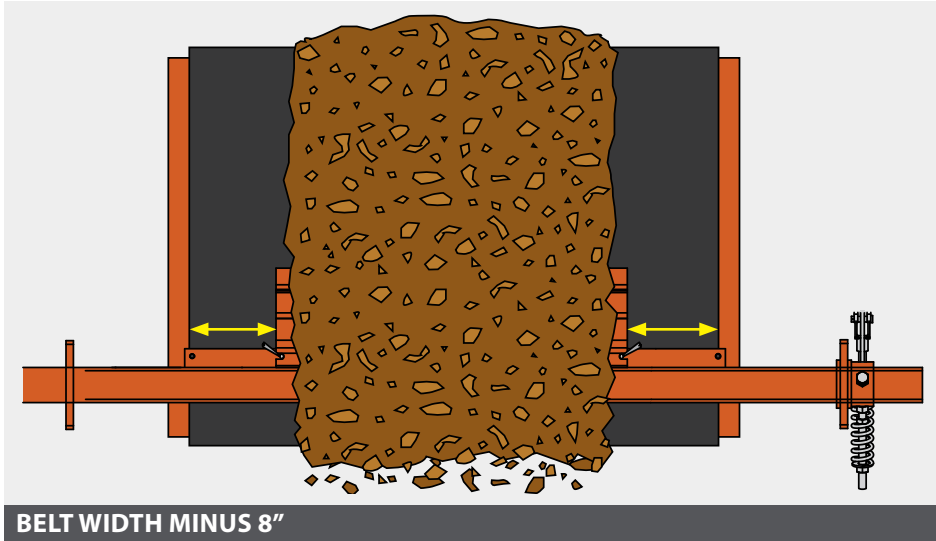
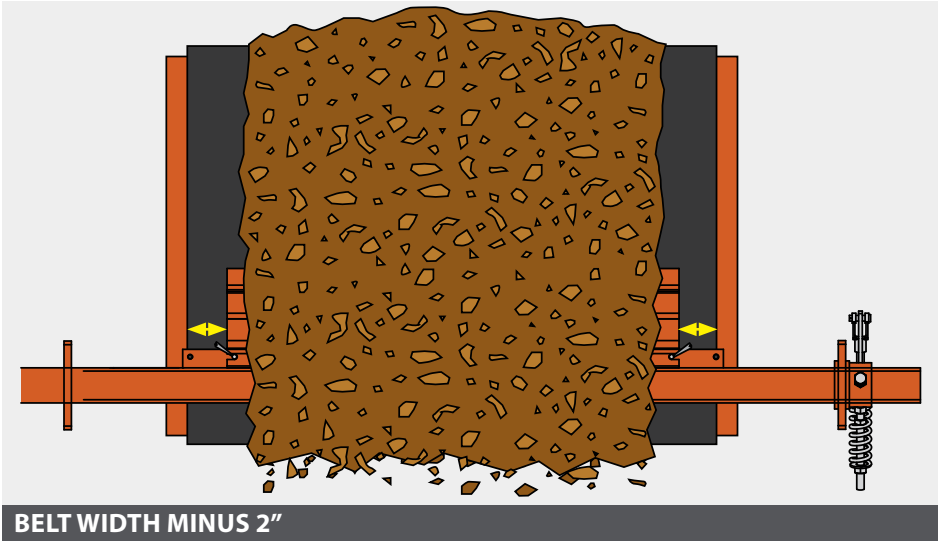
FLEXCO
 Con Shear
 Area: 7.98 in²



ARGONICS
 Eraser
 Area: 8.31 in²

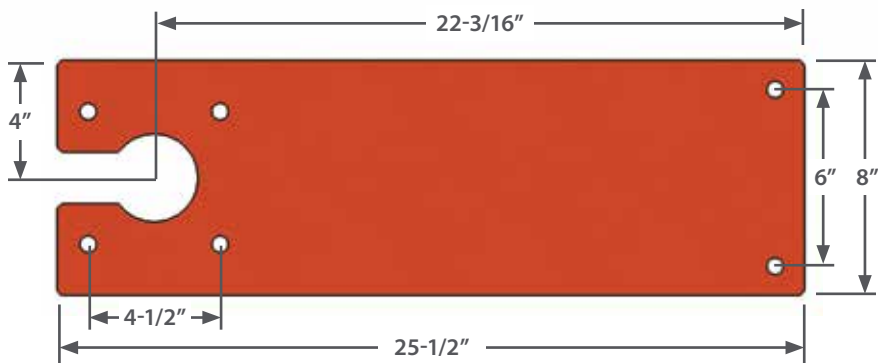
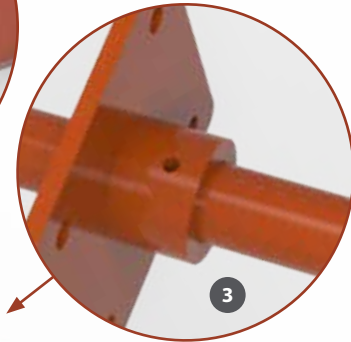
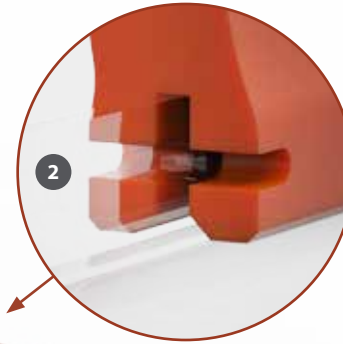


STOP PAYING FOR MATERIAL YOU DON'T USE



EXTERRA PRIMARY BELT CLEANER

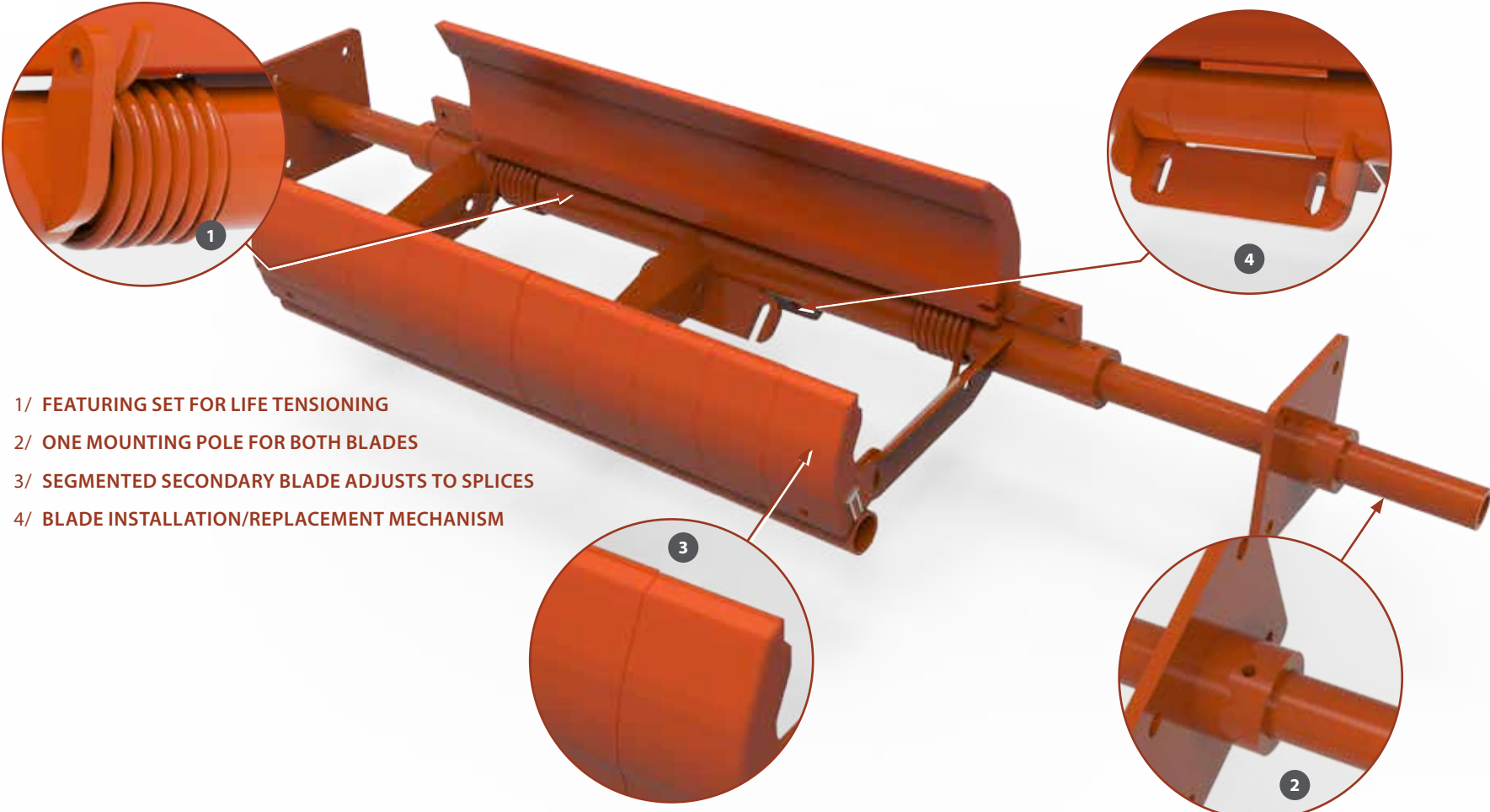
- 1/ EASY TO ADJUST TENSIONING NUT
- 2/ UNIVERSALLY-DESIGNED MOUNTING
- 3/ HEAVY DUTY MOUNTING POLE
- 4/ OPTIONAL UPGRADE TO SET FOR LIFE TENSIONING



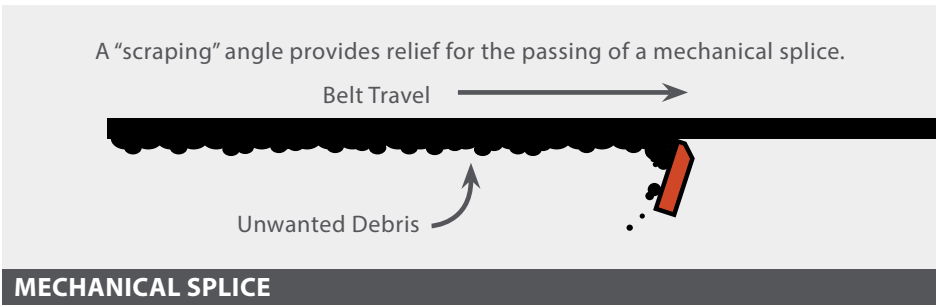
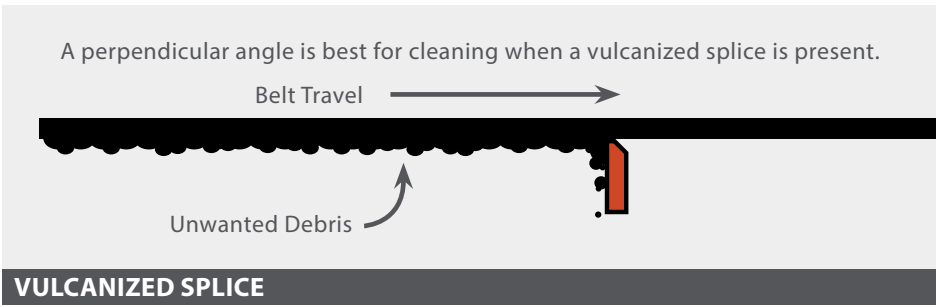
OPTIONAL MOUNTING BRACKETS

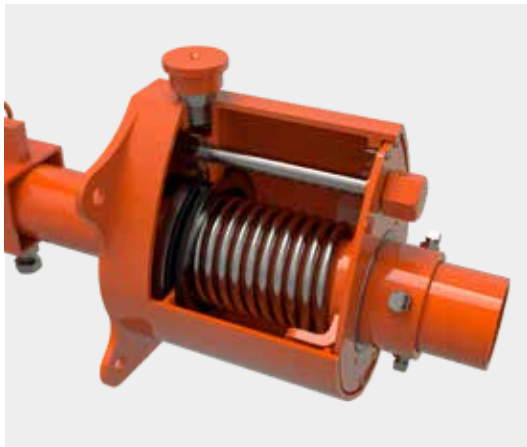


EXTERRA SFL DUAL BELT CLEANER



SPLICE ADJUSTMENT

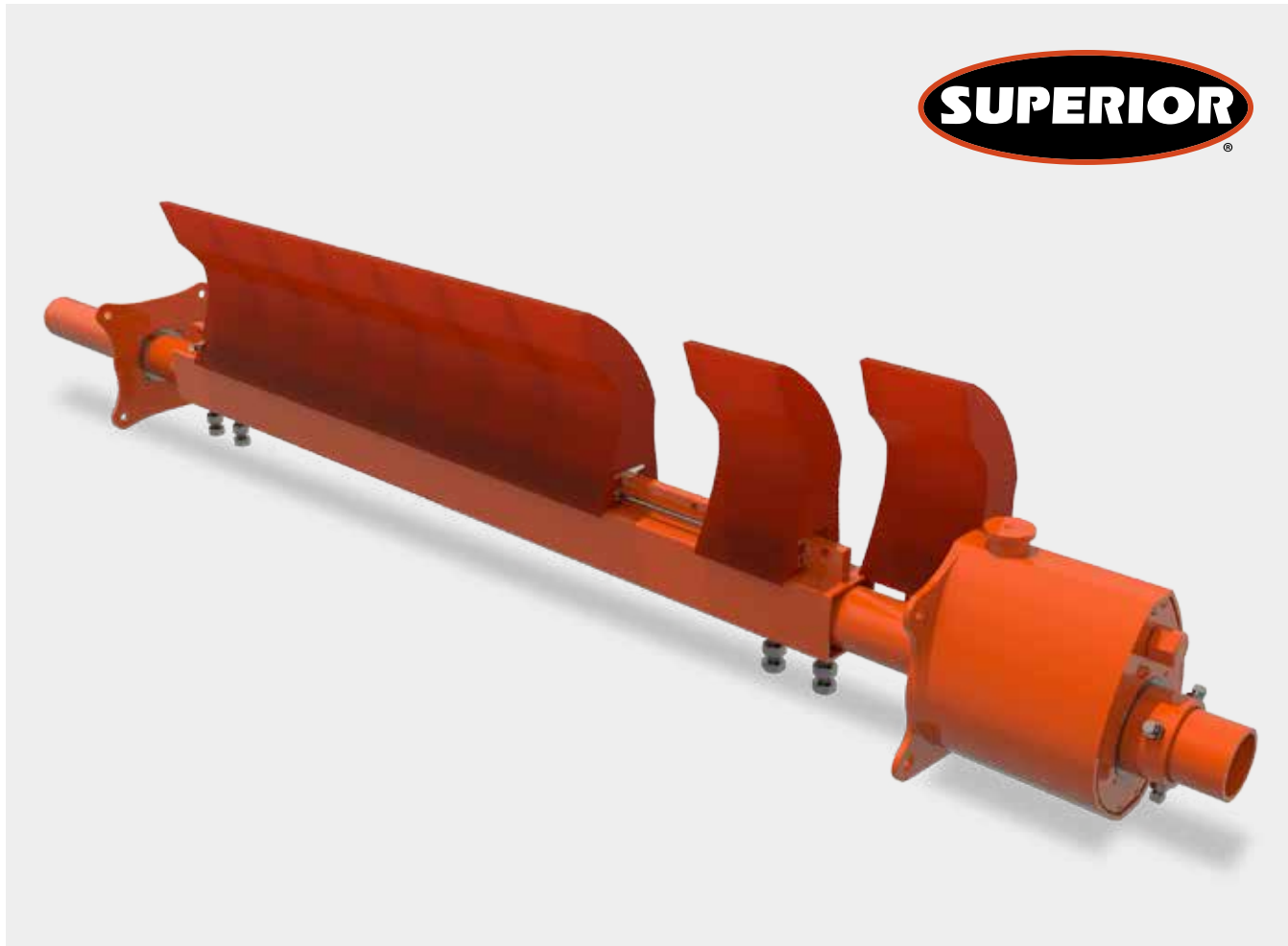




SFL TENSIONING TECHNOLOGY



6" BLADE SEGMENTS



QUICK SPECS

Belt Widths: 24" and wider
Pulley Diameters: 20" and larger



MINE DUTY EXTERRA® BELT CLEANERS

Simple Installation, Effective Operation, Economical Investment

- **Constantly maintains accurate scraping pressure** for life of blade.
- Three piece pole system **eases installation, inside chutes** and tight places.
- **Massive, mine duty blade** is designed for extended wear life.
- Segmented blade allows for continuous contact over contour of the belt for **most effective cleaning**.

MINE DUTY EXTERRA BELT CLEANER

1 SFL TENSIONER

- One time tensioning at installation.
- Automatically adjusts to maintain constant, accurate tension the life of the blade.
- One tensioner for up to 84" BW, two tensioners required for BW greater than 84".

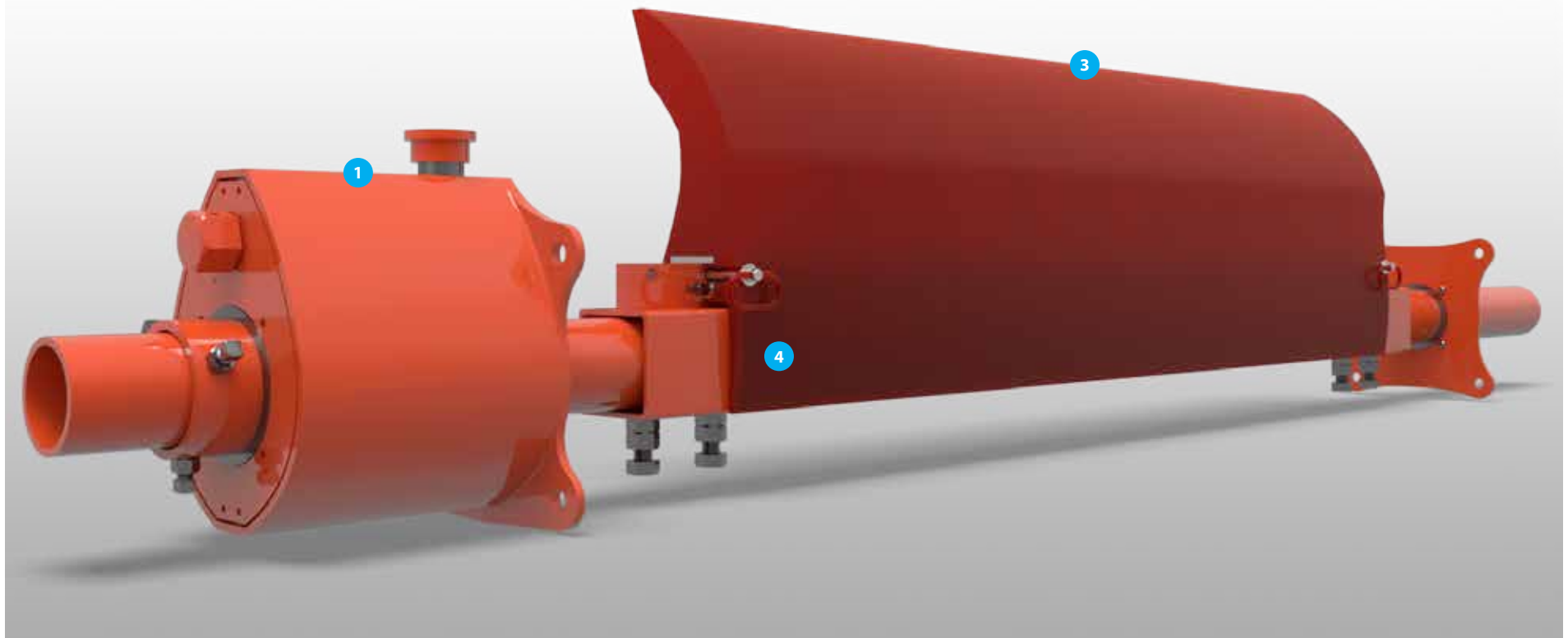
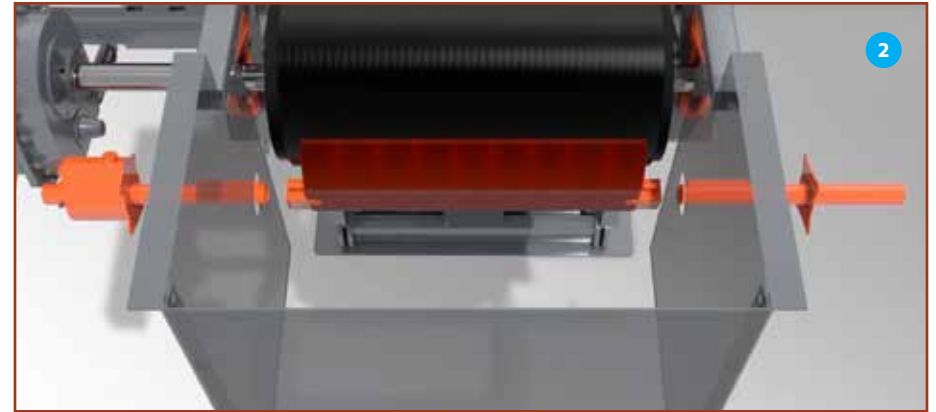
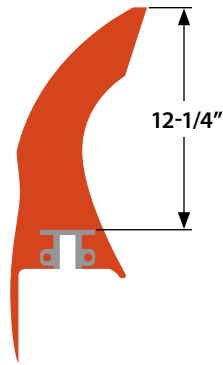
2 3-PIECE POLE SYSTEM

- Helps with installation in chutes and tight spaces.

3 6" SEGMENTED BLADES

4 DEBRIS FLAP

- Improved material shedding.





STANDARD AND MINI PRIMARY BLADES



QUICK SPECS

Belt Widths: 18" - 72"

Blade Widths: 10" - 70"

Durometer: 87A Urethane



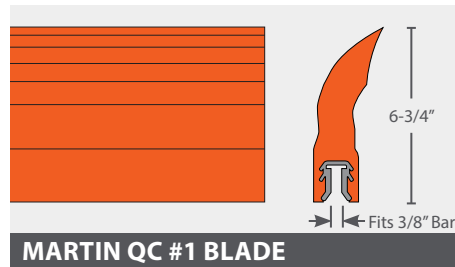
EXTERRA[®] REPLACEMENT BLADES

Jam Packed with More Material Where it's Needed Most

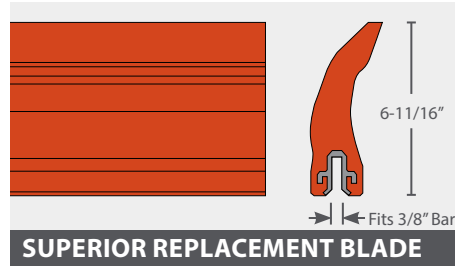
- Compared to other primary scrapers, we've packed our blades with **up to 40% more urethane**. ■
- A **thicker blade tip** means extra material at the scraper's most crucial point of attack. ■
- Standard sizes stocked by distribution partners for **immediate availability**. ■
- In-house urethane production produces **custom sizes at quick deliveries**. ■

MARTIN® QC™ #1 STANDARD BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	QC #1 PART #
10	07-00540-01	32773-1211
16	07-00541-01	32773-1811
22	07-00542-01	32773-2411
28	07-00543-01	32773-3011
34	07-00544-01	32773-3611
40	07-00545-01	32773-4211
46	07-00546-01	32773-4811
52	07-00547-01	32773-5411
58	07-00548-01	32773-6011
64	07-00549-01	32773-6611
70	07-00550-01	32773-7211



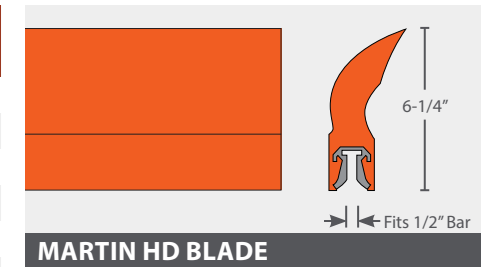
MARTIN QC #1 BLADE



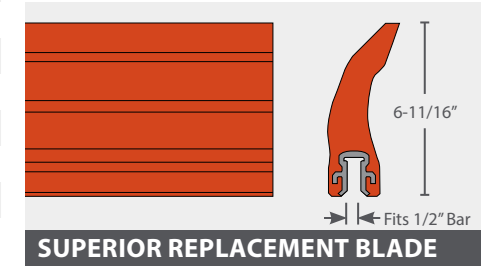
SUPERIOR REPLACEMENT BLADE

MARTIN® HD BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	HD PART #
12	07-00540-02	35381-1811
18	07-00541-02	35381-2411
24	07-00542-02	35381-3011
28	07-00549-02	35381-3411
30	07-00543-02	35381-3611
34	07-00553-02	35381-4011
36	07-00544-02	35381-4211
40	07-00550-02	35381-4611
42	07-00545-02	35381-4811
48	07-00546-02	35381-5411
54	07-00547-02	35381-6011
66	07-00548-02	35381-7211



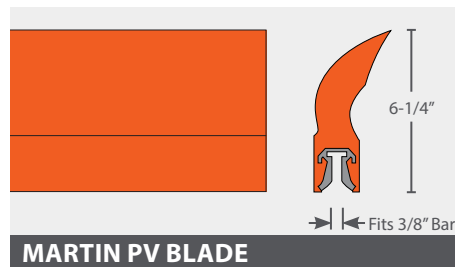
MARTIN HD BLADE



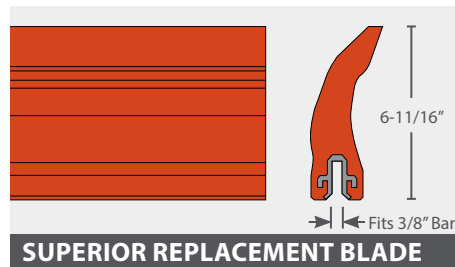
SUPERIOR REPLACEMENT BLADE

MARTIN® PV BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	PIT VIPER PART #
12	07-00540-03	PV1S-18XX
16	07-00541-03	PV1S-18XX
18	07-00542-03	PV1S-24XX
22	07-00543-03	PV1S-24XX
24	07-00544-03	PV1S-30XX
28	07-00545-03	PV1S-30XX
30	07-00546-03	PV1S-36XX
34	07-00547-03	PV1S-36XX
36	07-00548-03	PV1S-42XX
40	07-00549-03	PV1S-42XX
42	07-00550-03	PV1S-48XX
46	07-00551-03	PV1S-48XX
48	07-00552-03	PV1S-54XX
52	07-00553-03	PV1S-54XX
54	07-00554-03	PV1S-60XX
58	07-00555-03	PV1S-60XX
66	07-00556-03	PV1S-72XX
70	07-00557-03	PV1S-72XX



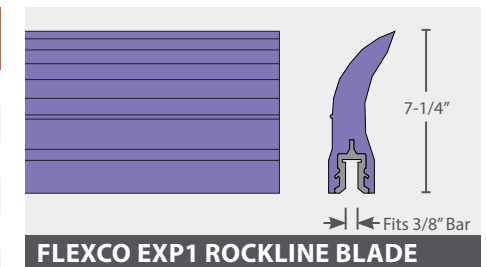
MARTIN PV BLADE



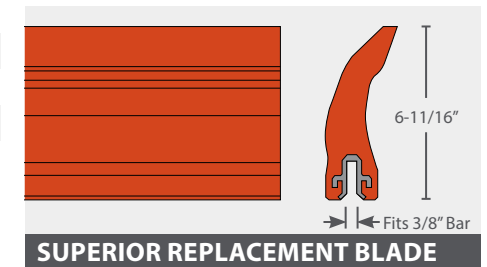
SUPERIOR REPLACEMENT BLADE

FLEXCO E2P1 ROCKLINE® BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	FLEXCO PART #
10	07-00540-04	EZP1-212
16	07-00541-04	EZP1-218
22	07-00542-04	EZP1-224
28	07-00543-04	EZP1-230
34	07-00544-04	EZP1-236
40	07-00545-04	EZP1-242
46	07-00546-04	EZP1-248
52	07-00547-04	EZP1-254
58	07-00548-04	EZP1-260
64	07-00549-04	EZP1-266
70	07-00550-04	EZP1-272



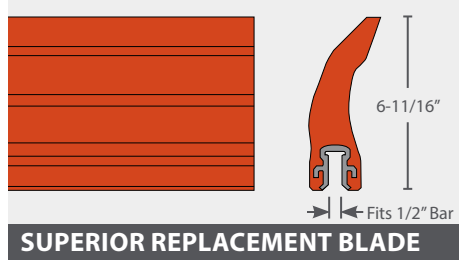
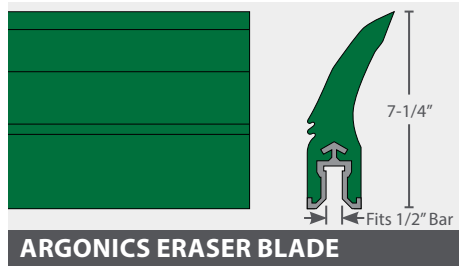
FLEXCO E2P1 ROCKLINE BLADE



SUPERIOR REPLACEMENT BLADE

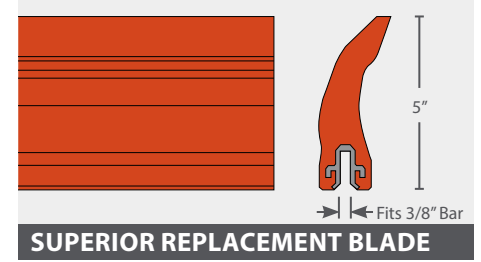
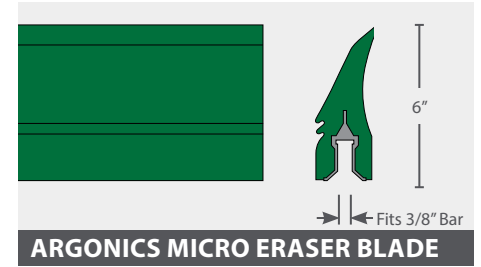
ARGONICS ERASER™ BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	ERASER PART #
16	07-00540-05	CP-REA16M-G83
22	07-00541-05	CP-REA22M-G83
28	07-00542-05	CP-REA28M-G83
34	07-00543-05	CP-REA34M-G83
40	07-00544-05	CP-REA40M-G83
46	07-00545-05	CP-REA46M-G83
52	07-00546-05	CP-REA52M-G83
58	07-00547-05	CP-REA58M-G83



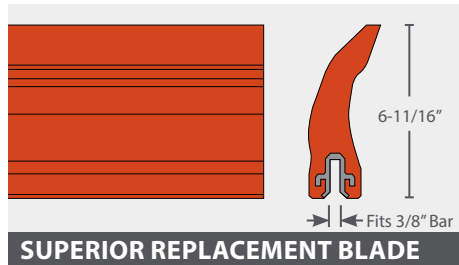
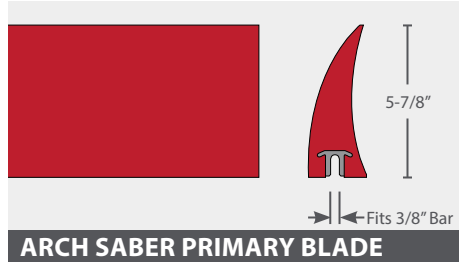
ARGONICS MICRO ERASER™ BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	MICRO ERASER PART #
16	07-00540-06	CP-MEA16M-G83
22	07-00541-06	CP-MEA22M-G83
28	07-00542-06	CP-MEA28M-G83
34	07-00543-06	CP-MEA34M-G83
40	07-00544-06	CP-MEA40M-G83
46	07-00545-06	CP-MEA46M-G83
52	07-00546-06	CP-MEA52M-G83
58	07-00547-06	CP-MEA58M-G83



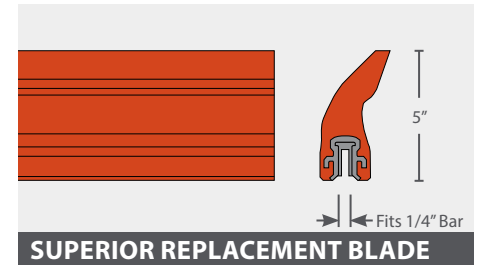
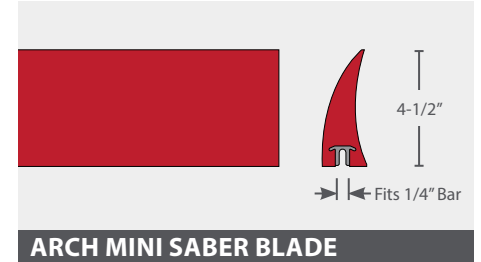
ARCH SABER PRIMARY® BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	ARCH PART # *
16	07-00540-07	18000018
22	07-00541-07	24000024
28	07-00542-07	30000030
34	07-00543-07	36000036
40	07-00544-07	42000042
46	07-00545-07	48000048
52	07-00546-07	54000054
58	07-00547-07	60000060
64	07-00548-07	66000066
70	07-00549-07	72000072



ARCH MINI SABER BELT CLEANER

LENGTH (INCHES)	SUPERIOR PART #	ARCH PART #*
16	07-00540-08	18000018
22	07-00541-08	24000024
28	07-00542-08	38000030
34	07-00543-08	36000036
40	07-00544-08	42000042
46	07-00545-08	48000048



*Arch Part Numbers begin and end with: MCNMN000 [see above] OTA000000000000

*Arch Part Numbers begin and end with: MCNSB000 [see above] OTA000000000000

COMPLETE EXTERRA PRIMARY BELT CLEANER SYSTEM

Part Number	Belt Width	Blade Length	Weight
P-1820481	18"	16"	41
P-1880481	18"	10"	38
P-2420541	24"	22"	47
P-2480541	24"	16"	44
P-3020601	30"	28"	53
P-3080601	30"	22"	50
P-3620661	36"	34"	59
P-3680661	36"	28"	56
P-4220722	42"	40"	65
P-4280721	42"	34"	62
P-4820782	48"	46"	75
P-4880782	48"	40"	72
P-5420842	54"	52"	85
P-5480842	54"	46"	82
P-6020902	60"	58"	95
P-6080902	60"	52"	92
P-6620962	66"	64"	105
P-6680962	66"	58"	102
P-7221022	72"	70"	117
P-7281022	72"	64"	112

COMPLETE EXTERRA PRIMARY BELT CLEANER REPLACEMENT PART NUMBERS

Part Number	Description	Dimensions
32-000097	Assembly Bracket Tensioner	-
32-000094	Bracket Non-Tensioner	-
13-00975	Pin Clip	5/16" x 2-1/2"
07-00540	Primary Scraper Blade	10"
07-00541	Primary Scraper Blade	16"
07-00542	Primary Scraper Blade	22"
07-00543	Primary Scraper Blade	28"
07-00544	Primary Scraper Blade	34"
07-00545	Primary Scraper Blade	40"
07-00546	Primary Scraper Blade	46"
07-00547	Primary Scraper Blade	52"
07-00549	Primary Scraper Blade	58"
07-00548	Primary Scraper Blade	64"
07-00550	Primary Scraper Blade	70"

COMPLETE EXTERRA SFL DUAL BELT CLEANER SYSTEM

Belt Width	Blade Length	Primary Blade Only	D1 SFL Dual Belt Cleaner	D2 SFL Dual Belt Cleaner
			Tungsten	Tungsten
18"	16"	SFLP-182048	SFLD1-182048T	-
18"	10"	SFLP-188048	SFLD1-188048T	-
24"	22"	SFLP-242054	SFLD1-242054T	-
24"	16"	SFLP-248054	SFLD1-248054T	-
30"	28"	SFLP-302060	SFLD1-302060T	SFLD2-302060T
30"	22"	SFLP-308060	SFLD1-308060T	SFLD2-308060T
36"	34"	SFLP-362066	SFLD1-362066T	SFLD2-362066T
36"	28"	SFLP-368066	SFLD1-368066T	SFLD2-368066T
42"	40"	SFLP-422072	SFLD1-422072T	SFLD2-422072T
42"	34"	SFLP-428072	SFLD1-428072T	SFLD2-428072T
48"	46"	SFLP-482078	SFLD1-482078T	SFLD2-482078T
48"	40"	SFLP-488078	SFLD1-488078T	SFLD2-488078T
54"	52"	SFLP-542084	SFLD1-542084T	SFLD2-542084T
54"	46"	SFLP-548084	SFLD1-548084T	SFLD2-548084T
60"	58"	SFLP-602090	SFLD1-602090T	SFLD2-602090T
60"	52"	SFLP-608090	SFLD1-608090T	SFLD2-608090T

COMPLETE EXTERRA SFL DUAL BELT CLEANER REPLACEMENT PART NUMBERS

Part Number	Description	Dimensions
32-000188	In-Field Mounting Bracket	-
07-10090	Secondary Scraper Blade - Outside Urethane Replacement	3"
07-10091	Secondary Scraper Blade - Tungsten Replacement	3"
13-00975	Pin Clip	5/16" x 2-1/2"
07-00540	Primary Scraper Blade	10"
07-00541	Primary Scraper Blade	16"
07-00542	Primary Scraper Blade	22"
07-00543	Primary Scraper Blade	28"
07-00544	Primary Scraper Blade	34"
07-00545	Primary Scraper Blade	40"
07-00546	Primary Scraper Blade	46"
07-00547	Primary Scraper Blade	52"
07-00549	Primary Scraper Blade	58"
07-00548	Primary Scraper Blade	64"
07-00550	Primary Scraper Blade	70"



QUICK SPECS

Accuracy: $\pm 1/2\%$

Belt Width: Up to 72" (1,828 mm)

Capacity: Up to 3,000 TPH

Idler Class: CEMA B - E



BELT SCALE

Accurate, Dependable Monitoring of Production

- Unique **flush-mount design** means no cutting or interference with conveyor frame. ■
- Sturdy weighbridge prevents wobbling or tipping for quick, **stress-free installation**. ■
- Modular design** fits to any belt width between 18" (457mm) - 72" (1,828 mm). ■
- Step-by-step, **easy to understand integrator technology** has large, color graphic display. ■

SPECIFICATIONS

STANDARD TECHNICAL DATA

Accuracy	±1/2%
Belt Width	18" - 72" (mm)
Capacity	Up to 3,000 TPH
Idler Class	CEMA B - E
Input Power	12-24VDC or 100-240VAC
Inputs/Outputs	4/3
Additional Outputs	(3) relay
Enclosure	Outdoor
Temperature	5-140° F (-15-60° C)
Load Cells	2 - 4
Communication port	(2) RS232
Warranty	2 years



STANDARD

- Battery backup
- Calibration weights
- Ethernet port (Modbus TCP)
- Speed sensor
- Superior scale quality idler
- USB Port

OPTIONS

- Angle compensator sensor
- Junction box
- Networking communications
- Remote rate display
- Scoreboard display
- Ticket printer
- Wireless communication

INTEGRATOR

- Large color graphic display
- Easy to follow scale set up wizard
- Four modes of menu driven calibration
 - ↳ Zero calibration
 - ↳ Test weight calibration
 - ↳ Material test calibration
 - ↳ Automatic digital calibration
- Standard on-board Ethernet port
- Simultaneously connect printer and scoreboard display
- Self-Diagnostics
 - ↳ Independently view load cell status
 - ↳ Speed sensor frequency
 - ↳ Angle sensor readings
 - ↳ Configuration set up parameters
 - ↳ I/O settings



QUICK SPECS

Cartridges: 5" or 10"

Bars: 48" or 60"

Belt Widths: 24" - 72"



SEALING SYSTEM

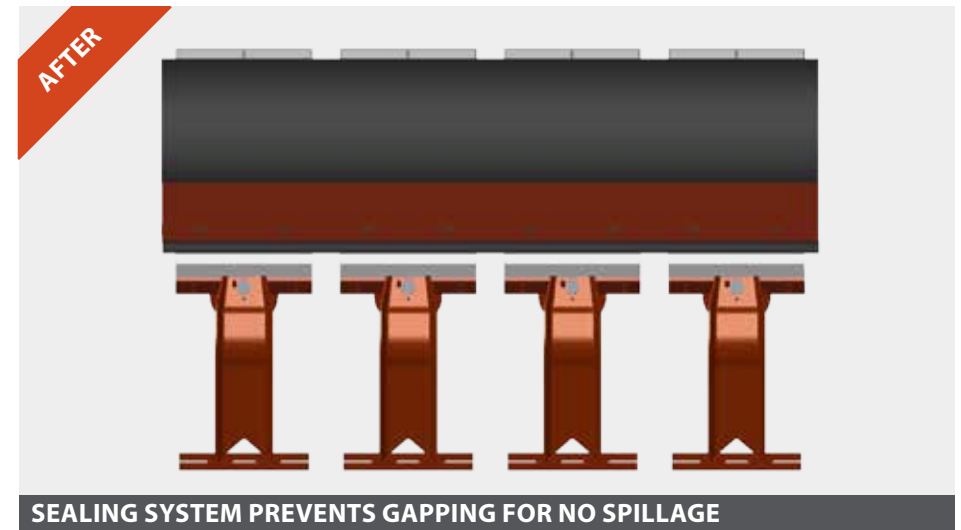
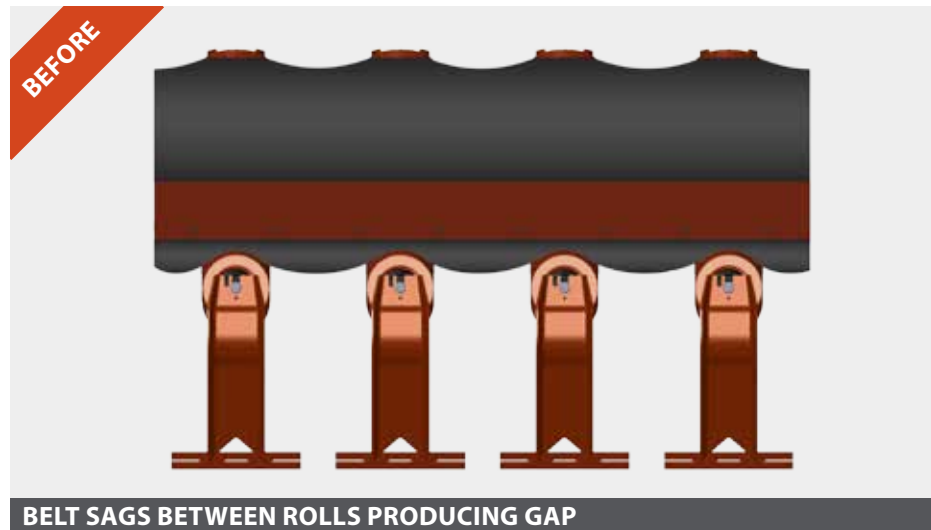
Prevents Material Spillage in Load Zones

- System is designed to **maintain a tight seal** between conveyor belt and hopper skirting. ■
- Eliminates belt sagging**, which commonly forms between idler rolls in conveyor load zones. ■
- Sealing cartridges **retrofit to existing idler frames** for fast installation. ■
- Available in single cartridge (5" width), double cartridge (10" width) or sealing bars. ■

SPECIFICATIONS

FULL SEALING SYSTEM					REPLACEMENT CARTRIDGES			
Roll Diameter (inch)	Steel Roll Center Roll		Impact Cushion Center Roll		Double Cartridges		Seal Bar	
	Double Cartridge	Slide Bars	Double Cartridge	Slide Bars	5"	6"	48"	60"
C-5"	C5S-20E-(24-72)-410	C5S-20E-(24-72)-448	C5S-20EI-(24-72)-410	C5S-20EI-(24-72)-448	D5S-(24-72)-2	D6S-(24-72)-2	38-000026	38-000027
C-6"	C6S-20E-(24-72)-410	C6S-20E-(24-72)-448	C6S-20EI-(24-72)-410	C6S-20EI-(24-72)-448				
D-5"	D5S-20E-(24-72)-410	D5S-20E-(24-72)-448	D5S-20EI-(24-72)-410	D5S-20EI-(24-72)-448				
D-6"	D6S-20E-(24-72)-410	D6S-20E-(24-72)-448	D6S-20EI-(24-72)-410	D6S-20EI-(24-72)-448				

HOW IT WORKS



OPTIONS





WINGS ADJUST TO DIFFERENT ANGLES



CUSTOM ENGINEERED DESIGNS



QUICK SPECS

Lengths: 4' or 5'

Diameter: 5" or 6" Existing Roller

Belt Widths: 24" - 72"



IMPACT BED

Protect Conveyor Belts from the Beating of Large Material Lumps

- Energy absorbing impact bars protect belting from falling material.
- Rigid, structurally sound frame for extra support.
- Bars made of low-friction UHMW and high impact SBR rubber.
- Wings adjust to 20°, 35° and 45° and available in 4' or 5' lengths.

COMMON APPLICATIONS



EXTENDED DISCHARGE HEIGHT



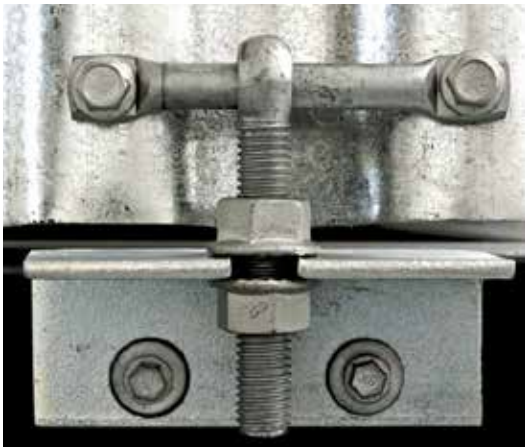
SHARP, DAMAGING MATERIAL



LARGE MATERIAL LUMPS



HIGH CAPACITY APPLICATIONS



FULL STYLE LOCK HINGE



RIGID, CORRUGATED CONSTRUCTION



QUICK SPECS

Belt Widths: 24"- 60"

Cover Length: 41.88"

Standard Covers: Full, 3/4 and 1/2
(Custom Sizes Available Upon Request)



CONVEYOR BELT COVERS

Accurate, Dependable Monitoring of Production

- Rigid, corrugated, 22 gauge construction is **infinitely stronger than smooth.** ■
- Folded edges double the thickness for **increased strength** and safe to handle lifting points. ■
- Installation is **not dependent on location** of existing idler frames. ■
- Full style is hinged on both sides for **access at any point along the conveyor.** ■

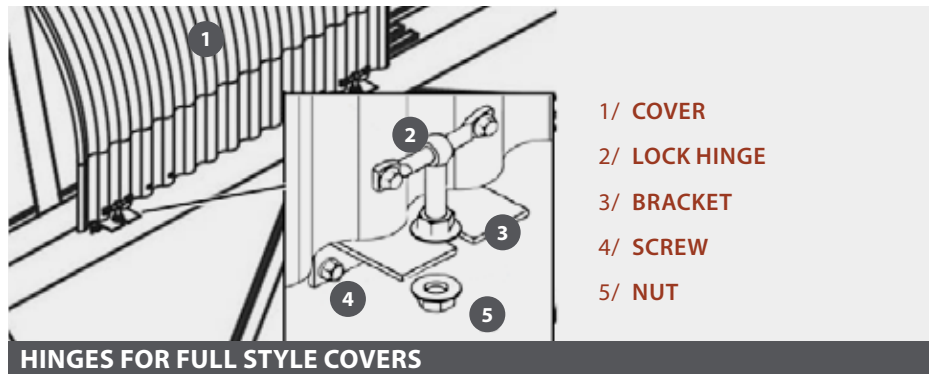
SPECIFICATIONS

COVER STYLES	
Style	Application
Full*	100% coverage of belt.
3/4*	Open access on one side of belt.
1/2	Open access on both sides of belt.

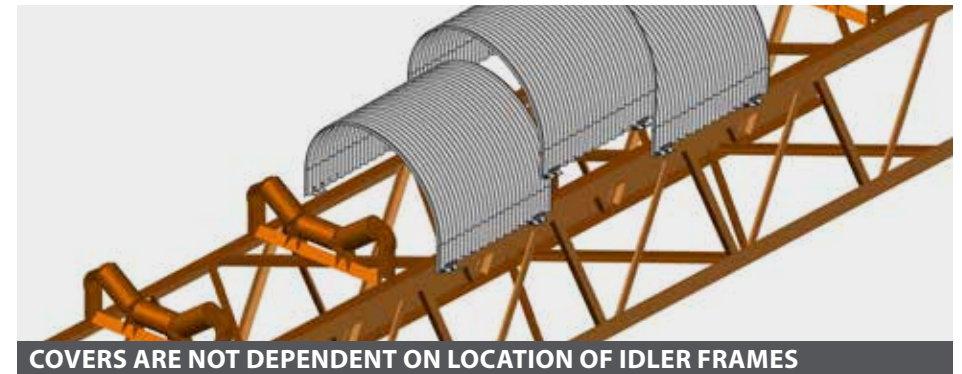
*Standard covers are available for immediate delivery. Other styles are built to order.

COVER MATERIALS	
Material	Application
Galvanized*	Approved resistance in nearly every environment.
Lacquered Steel	Colored to blend in with surroundings or branding.
HPS 200	Fiber reinforced polyester, colored covers for highly corrosive environments.
Stainless Steel	Highly corrosive environments.
Aluminum	Lightest weight material for easy manipulation.
Fiberglass	Avoid contamination in the food industries.

CONVEYOR COVERS



HINGES FOR FULL STYLE COVERS

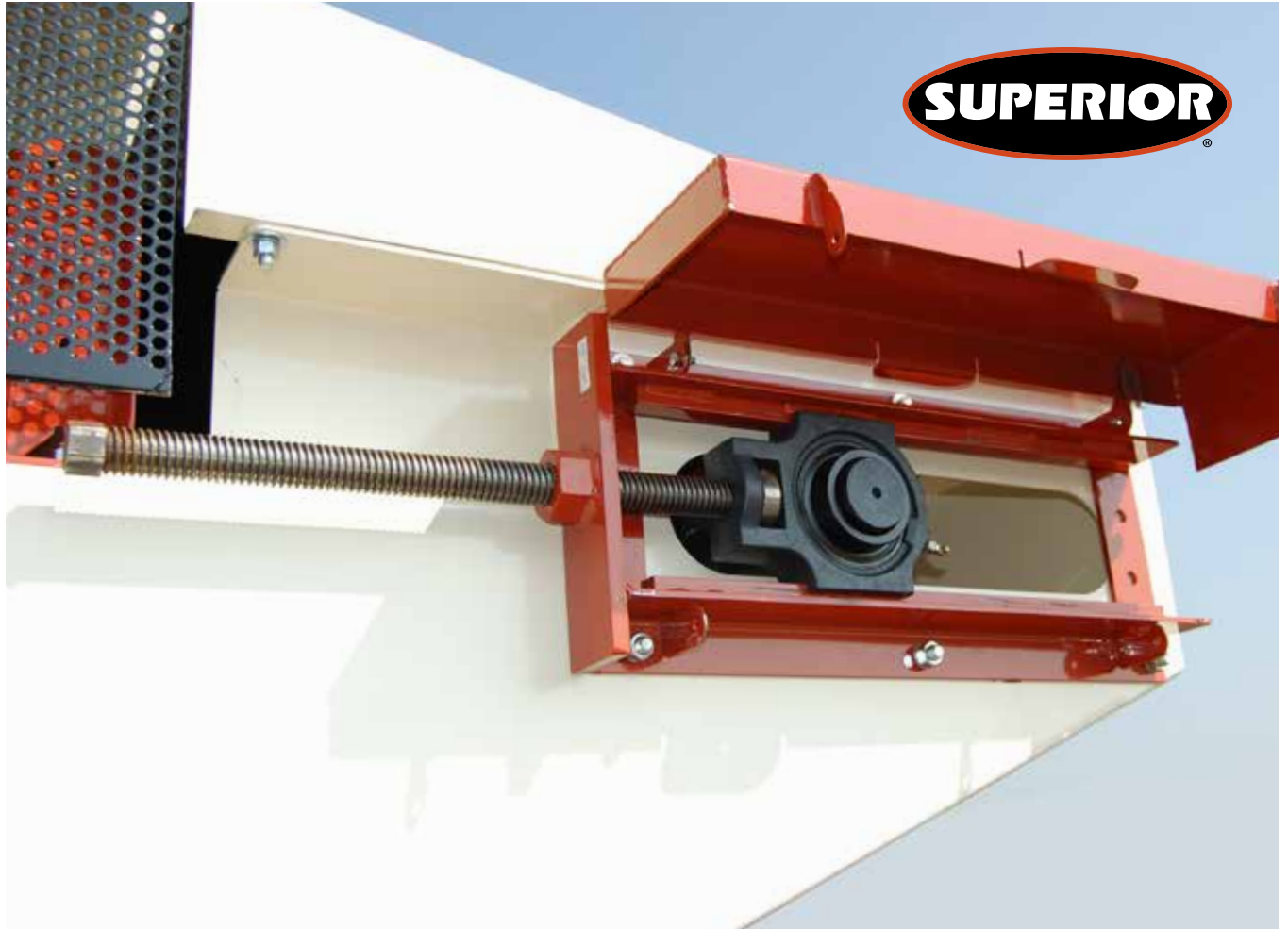


COVERS ARE NOT DEPENDENT ON LOCATION OF IDLER FRAMES

PHOTO GALLERY



NON-SHARP FOLDED EDGES SAFE TO HANDLE



QUICK SPECS

Styles: Pillow Block, Wide Slot, Top Angle

Mounting: Side or Top Positions

Bearing Diameters: 1/2" - 9"



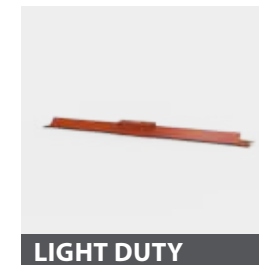
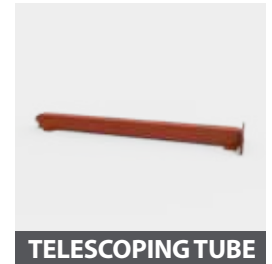
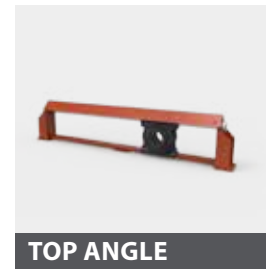
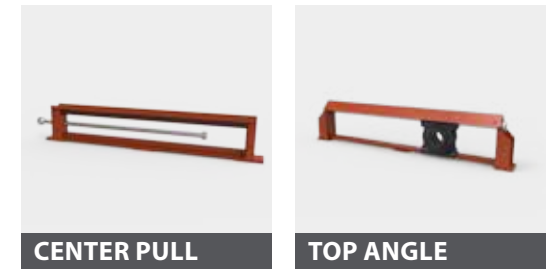
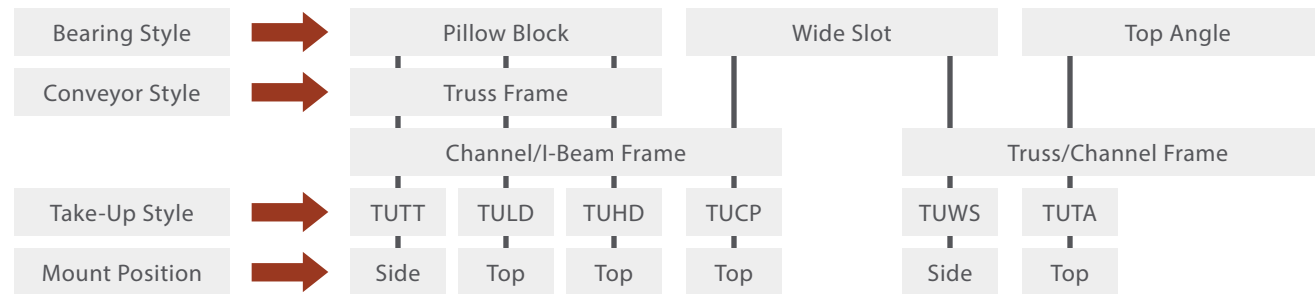
CONVEYOR TAKE-UPS

Accurately Maintain Belt Tension to Prevent Slippage

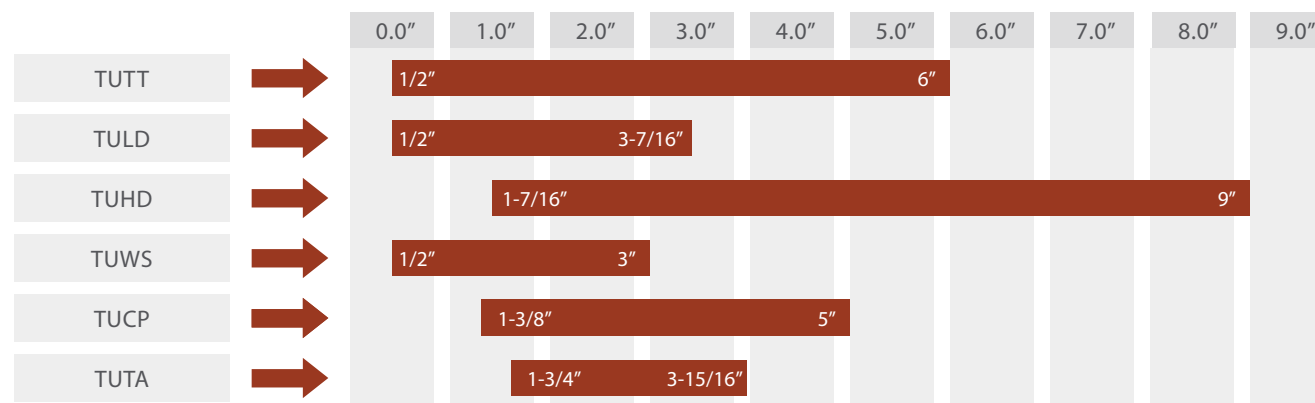
- ACME thread design provides quick movement and **reliability in corrosive conditions.** ■
- Durable powder coat finish for long high quality, **abrasion resistant coating.** ■
- Common models stocked by local distribution or **quick lead times** for custom models from manufacturing plant. ■
- Six diverse models** to cover a majority of conveyor styles and applications. ■

TAKE-UP SELECTION GUIDE

SCENARIO ONE: STYLE



SCENARIO TWO: BEARING SIZE



SCENARIO THREE: BEARING TYPE

Take-Up Style	BEARING TYPE					
	SealMaster	Browning	Link-Belt	Rexnord	Dodge	SKF
TUTT	NP, MP	VPS, SPB1000, PBE	PB22400, EPB22400, C35	ZA, ZEP	SC, SCM, S2000, Type E, Imperial	-
TULD (Roller)	NP, MP	VPS, SPB1000	PB22400, C35	ZA	SCM, S2000, Imperial	-
TUHD (Roller)	USRB	VPS, SPB1000, PBE, SAF22500	PB22400, EPB22400, PLB	ZA, ZAF, ZEP	S2000, Type E, USAF, TAF, Imperial	SAF
TUWS (Ball)	MST	VTWS	-	-	WSTU-SC, WSTU-SCM	-
TUCP (Roller)	-	TUE-920, ST-1000	-	ZT-2000, ZT-5000	Type E (WSTU-E), S-2000 (WSTU-S2)	-
TUTA	-	-	ETPB-22400	-	Type E (TPE), Type G (SC), Type GM (SCM), S-2000	-



QUICK SPECS

Operating Temp: -4°F to 140°F

Discharge Period: 1-12 months

Dimensions: Approx. 2.5" x 5.5"



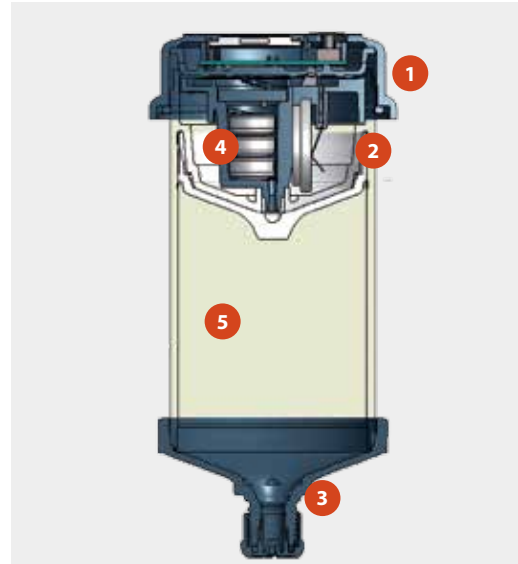
AUTO GREASER

Temperature Compensating Electrochemical Lubrication System

- **Simple to set**, install and maintain with a highly intuitive operating menu.
- Lubricates equipment while it is running to provide **optimal lubricant exchange**.
- **Reduces work load** by automating an otherwise manual process.
- Continues to lubricate **without the need for shutdown** and isolation.

FEATURES

- 1/ AUTO GREASER CONTROL UNIT
- 2/ LC UNIT WITH INTEGRATED BATTERY
- 3/ BUILT-IN ROBUST SUPPORT FLANGE WITH 1/4" NPT OUTSIDE THREAD
- 4/ GAS GENERATING CELL
- 5/ LUBRICANT
- 6/ DISPLAY (DISCHARGE PERIOD + FUNCTION)
- 7/ PUSH BUTTON PROGRAMMING
- 8/ RE-USABLE CONTROL UNIT



LUBRICATOR CARTRIDGE WITH CAP



CAP

PART NUMBER GUIDE

REPLACEMENT PARTS		
Part Number	Description	
03-03003	Lube Cart. Kit, Cap, Dust Cover	
03-03002	Lubricator Cartridge, Dust Cover	
03-03001	Cap, Auto Lubricator	
08-02768	Black Pipe Nipple A	
08-02569	Black Tee-Pipe B	
08-10025	Adaptor C	



45° ELBOW AND 90° TEE AVAILABLE



TOP VIEW OF STEEL ADAPTOR



BOTTOM VIEW OF STEEL ADAPTOR



FLEXIBLE (YELLOW) GUARD PANELS

Part Number	Product Description	Product Lengths
38-000030	Side Guard - 1/4" Mesh	100' x 4'
38-000032	Bottom Guard - 3/4" Mesh	50' x 4'

STEEL GUARD PANELS

Part Number	Product Description	Product Lengths
10-02139	Steel Mesh	4' x 5'

QUICK SPECS

Flexible Mesh Size: 1/4" or 3/4"

Flexible Roll Lengths: 100' x 4' or 50' x 4'

Steel Dimensions: 4' x 5'



GUARD PANELS

Simple to Install Safety Solution

- Stock flexible guard panels on sight for quick **solutions to MSHA identified hazards.** ■
- Using a shears or cutter, flexible guard panels **easily cut to any size** or shape. ■
- All guards panels ship with self-tapping screws and washers for **all-in-one kits.** ■
- Flexible guard panel material is **UV resistant and colored yellow** for easy detection. ■



SHIELDALL™ ROLL GUARD



RETURN ROLL GUARDS		
Belt Width (inches)	Single Guard Part Number	ShieldAll Guard Part Number
18"	44-050118	44-040118
24"	44-050124	44-040124
30"	44-050130	44-040130
36"	44-050136	44-040136
42"	44-050142	44-040142
48"	44-050148	44-040148
54"	44-050154	44-040154
60"	44-050160	44-040160
72"	44-050172	44-040172
84"	-	44-040184
96"	-	44-040196

QUICK SPECS

BELT WIDTH

Single Guard: Up to 72"

ShieldAll Guard: Up to 96"

ROLL DIAMETERS

Single Guard: Up to 6"

ShieldAll Guard: Up to 7"

DROP BRACKETS

1-1/2" or 4-1/2"



RETURN ROLL GUARDS

Conveyor Pinch Point Protection

- Basket shape of ShieldAll Roll Guard **catches idler in the event it should release** from brackets. ■
- ShieldAll Roll Guard is manufactured with UHMW cage to **prevent material build-up**. ■
- For easy access, simply remove stainless steel pins to **drop open side of cage for maintenance**. ■
- Single Return Roll Guards easily **mounts to existing drop brackets**. ■

SAFETY SOLUTION OPTIONS



SHIELDALL™ RETURN GUARD

Belt Width	Part Number
18"	44-040118
24"	44-040124
30"	44-040130
36"	44-040136
42"	44-040142
48"	44-040148
54"	44-040154
60"	44-040160
72"	44-040172
84"	44-040184
96"	44-040196



RETURN IDLER CAGE*

Belt Width	Part Number
18"	44-500018
24"	44-500024
30"	44-500030
36"	44-500036
42"	44-500042
48"	44-500048
54"	44-500054
60"	44-500060
72"	44-500072
84"	44-500084
96"	44-500096



RETURN IDLER BASKET

Belt Width	Part Number
18"	44-600018
24"	44-600024
30"	44-600030
36"	44-600036
42"	44-600042
48"	44-600048
54"	44-600054
60"	44-600060
72"	44-600072
84"	44-600084
96"	44-600096

Feature	ShieldAll Return Guard	Return Idler Cage	Return Idler Basket
Falling Idler Protection	●	●	●
Pinch Point Protection	●	●	○
Allows Material to Fall Through	○	●	●
Allows Access to Idler	●	●	●
Mounts to CEMA Idler Bolt Pattern	●	●	○
Steel Construction	○	●	●
UHMW Construction	●	○	○

* Belt saver drop brackets available upon request





SUPERIOR-IND.COM SPHB1026ENWB-01

