

CRUSHING

SCREENING

WASHING

CONVEYING

COMPONENTS

PLANTS

CONSTRUCTION

AFTERMARKET

CONVEYING COMPONENTS PRODUCT HANDBOOK



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CONVEYOR IDLERS

Lean Manufacturing For Higher Quality Products at Faster Lead Times



BENEFITS

- » Annually, our components are installed on 1,000+ Superior brand conveyors
- » Standard or application-specific bearing seals extend the life of idlers in all environments
- » Powder coat paint offers long-lasting, color-durable finish

SPECIFICATIONS

- » Bearing Sizes: 17mm - 60mm
- » Diameters: 4" - 8" (101mm - 203mm)
- » Belt Widths: 24" - 120" (609mm - 3,048mm)
- » Single or double tube designs
- » Stainless steel shaft and frame upgrades

SUPERIOR IDLER PRODUCT OFFERINGS



CEMA Rated Idlers



Impact Rolls



Moxie® Rolls



DX Idlers



Double Tube (DT) Idlers



Vulcanized Roll

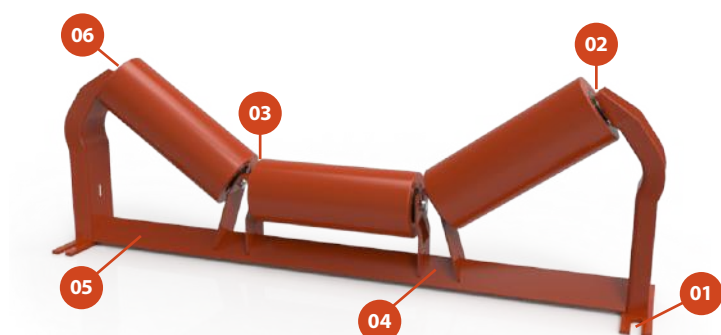
STEEL ROLL OFFERING BY CLASS

CLASS	BEARING	DIAMETER inch (mm)	SHELL THICKNESS inch (mm)	BELT WIDTH inch (mm)	TUBE
CEMA B	17mm	4", 5" (101, 127)	1/8", 5/32" (3.1, 3.9)	18" - 48" (457 - 1,219)	Single
CEMA C	20mm	4", 5", 6" (101, 127, 152)	1/8", 5/32", 3/16" (3.1, 3.9, 4.7)	18" - 60" (457 - 1,524)	Single
CEMA D	25mm	5", 6" (127, 152)	5/32", 3/16" (3.9, 4.7)	24" - 72" (609 - 1,828)	Single
DX	30mm	5", 6" (127, 152)	1/4" (6.3)	30" - 72" (762 - 1,828)	Single
CEMA E	40mm	6", 7" (152, 177)	1/4" (6.3)	36" - 96" (914 - 2,438)	Single
40DT	40mm	6", 7" (152, 177)	1/4" x 2 (6.3 x 2)	36" - 72" (914 - 1,828)	Double
45DT	45mm	6", 7", 7.5" (152, 177, 190)	1/4" x 2 (6.3 x 2)	54" - 108" (1,371 - 2,743)	Double
CEMA F	50mm	7", 8" (177, 203)	1/2", 3/4" (12.7, 19.0)	42" - 120" (1,066 - 3,048)	Single
50DT	50mm	7", 8" (177, 203)	1/4" x 2 (6.3 x 2)	42" - 120" (1,066 - 3,048)	Double
60DT	60mm	7", 8" (177, 203)	1/4" x 2 (6.3 x 2)	60" - 120" (1,524 - 3,048)	Double

IMPACT ROLL OFFERING BY CLASS

CLASS	BEARING	DIAMETER inch (mm)	BELT WIDTH inch (mm)	IDLER TYPES	
				EI	RETI
CEMA B	17mm	4", 5" (101, 127)	18" - 48" (457 - 1,219)	tires	tires
CEMA C	20mm	4", 5", 6" (101, 127, 152)	18" - 60" (457 - 1,524)	tires	tires
CEMA D	25mm	5", 6" (127, 152)	24" - 72" (609 - 1,828)	tires	tires
DX	30mm	5", 6" (127, 152)	30" - 72" (762 - 1,828)	vulcanized	vulcanized
CEMA E	40mm	6", 7" (152, 177)	36" - 96" (914 - 2,438)	tires	tires
CEMA F	50mm	7", 8" (177, 203)	42" - 120" (1,066 - 3,048)	vulcanized	vulcanized
CEMA G	60mm	7", 8" (177, 203)	60" - 120" (1,524 - 3,048)	vulcanized	vulcanized
40DT	40mm	6", 7" (152, 177)	36" - 72" (914 - 1,828)	vulcanized	vulcanized
45DT	45mm	6", 7", 7.5" (152, 177, 190)	54" - 108" (1,371 - 2,743)	vulcanized	vulcanized
50DT	50mm	6", 7", 8" (152, 177, 203)	42" - 120" (1,066 - 3,048)	vulcanized	vulcanized
60DT	60mm	7", 8" (177, 203)	60" - 120" (1,524 - 3,048)	vulcanized	vulcanized

IDLER STAND FEATURES



01/ Open end base allows access for single or double bolt holes.

02/ No fugitive material pinch points between roll and frame.

03/ Narrow roll gap eliminates pinch point, which damages belt.

04/ Non-clogging center stands.

05/ Base angle sheds material and prevents build-up.

06/ Corner or inset weld available.

APPLICATION-SPECIFIC SEALS EXTEND IDLER LIFE IN DESTRUCTIVE ENVIRONMENTS

COLORS AND APPLICATIONS

SEAL COLOR	SEAL NAME	APPLICATION EXAMPLES	BENEFITS
	Standard	Traditional material handling not described above. Typically 80-90% of applications.	While testing our application specific models, we redesigned our standard for the best bearing protection yet.
	Wet	Wash or dredge processes. Frequent washdowns.	Special double contact seal defends bearing from moisture penetration.
	Dry	Crushing and screening producing dust with minimal fines.	Oiled and contact seal protects bearing from dry particles and grit.
	Eco	Overland or long distance material handling sites.	Seal reduces drag and roll resistance for less horsepower at startup/operation.
	Titanium™	Washed sand, fines removal or dredging. Most extreme conditions.	Combination of design characteristics from wet and dry seals for ultimate bearing protection.

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 Carrier	Standard Mount	Inboard Mount

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	Beater Bar Return Rolls
				
Urathon Beater Roll				

PART NUMBER GUIDE

Example: **C6-35E-36-MOX-TTM**

CEMA Rating	Roll Diameter	Troughing Angle	Idler Type	Belt Width	Roll Style	Seal Style
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IDLER TYPES

E Troughing Idler Equal Length Rolls	RETA Return Self-Aligning Idler Roll	SMI Standard Mount Impact Low Profile Idler
EI Rubber Cushion Troughing Idler	RETAI Return Self-Aligning Rubber Cushion Idler	GO Offset Troughing Idler
EA Self-Aligner		EW Wire Rope Idler
BA Bi-Directional Aligning Idler	RETV V-Return Idler	VPE Variable Pitch Idler
RET Return Idler	P Picking Idler Length Rolls	MOX Moxie® Roll
FLT Flat Carrier Idler	U Troughing Idler Unequal Length Rolls	CB CB504 Series
FLTI Flat Carrier Rubber Cushion Idler	CM Low-Profile Channel Mount Idler	LS Live Shaft
RETI Return Rubber Cushion Idler	CMI Channel Mount Impact Low Profile Idler	LSB Live Shaft Beater
RETU Urathon® Return		
RETUSP Spiral Urathon® Return Roll	SM Low-Profile Standard Mount Idler	

ROLL STYLE

MOX Moxie® Rolls	DX DX Idler
DT Double-Tube Idler	

SEAL STYLES

WET Wet Seal	ECO Eco Seal
DRY Dry Seal	TTM Titanium™ Seal

CUSTOM DESIGNED IDLERS

In 40+ years of manufacturing conveyor idlers, we’ve built a treasure trove of unique designs. If you have a special application or constantly fight disruption and maintenance using standard designs, we encourage you to contact us. Here is just a small sampling of some of our custom engineering and manufacturing.

 Lower Channel Idler	 High Angle Conveyor Pressure Idler	 No Center Shift Idler Roller	 Assembly For Pipe Conveyor	 One Way Belt, Low Profile Idler
 Graduated Impact Bed	 Wire Rope Trainer	 Steep Troughing Idler	 20°-35° Impact Low Profile Idler	 Impact Center On Modular Bed
 Cleated Belt Roller	 Urethane Stub Roller	 Deep Angle, Extra Long Idler	 Adjustable Wing Roller Bed	 Heavy Duty V-Return Idler



MOXIE® ROLLS

Shed Sticky Material, Prevent Buildup on Rolls, Maintain Accurate Belt Tracking



EXTREME MATERIAL SHEDDING

BENEFITS

- » Lubricity sheds sticky material, preventing belt mistracking
- » Special composite blend material resists corrosion
- » Lightweight material weighs up to 50% less than steel idlers
- » At least 3X quieter than steel rolls

SPECIFICATIONS

- » CEMA Classes: C and D
- » Diameters: 5" and 6" (127mm and 152mm)
- » Belt Widths: 24" - 72" (609mm - 1,828mm)
- » Stainless steel shaft and frame upgrades

SPECIFICATIONS

CLASS	BEARING	DIAMETER inch (mm)	SHELL THICKNESS inch (mm)	BELT WIDTH inch (mm)
CEMA C	20mm	5" or 6" (127 or 152)	1/2" or 1" (12 or 25)	18" - 60" (457 - 1,524)
CEMA D	25mm	5" or 6" (127 or 152)	1/2" or 1" (12 or 25)	24" - 72" (609 - 1,828)

PART NUMBER GUIDE

Example: **C5-35E-36**MOX

CEMA Rating

Roll Diameter

Troughing Angle

Belt Width

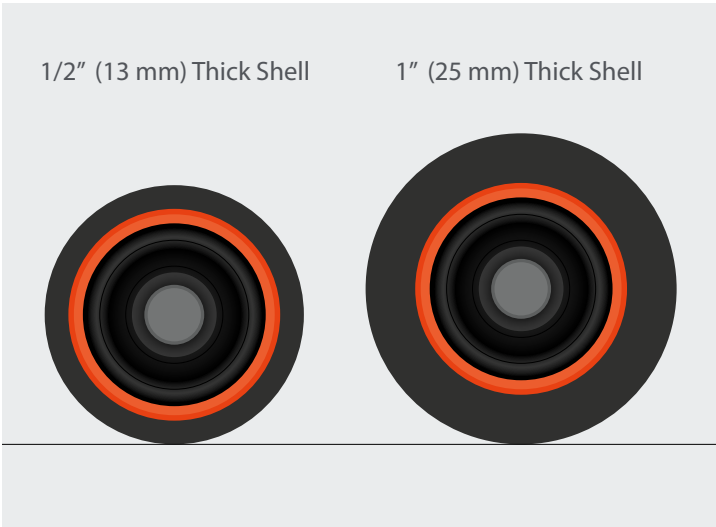
Idler Type

* For return Moxie rolls, substitute troughing angle with "RET."

PHOTO GALLERY



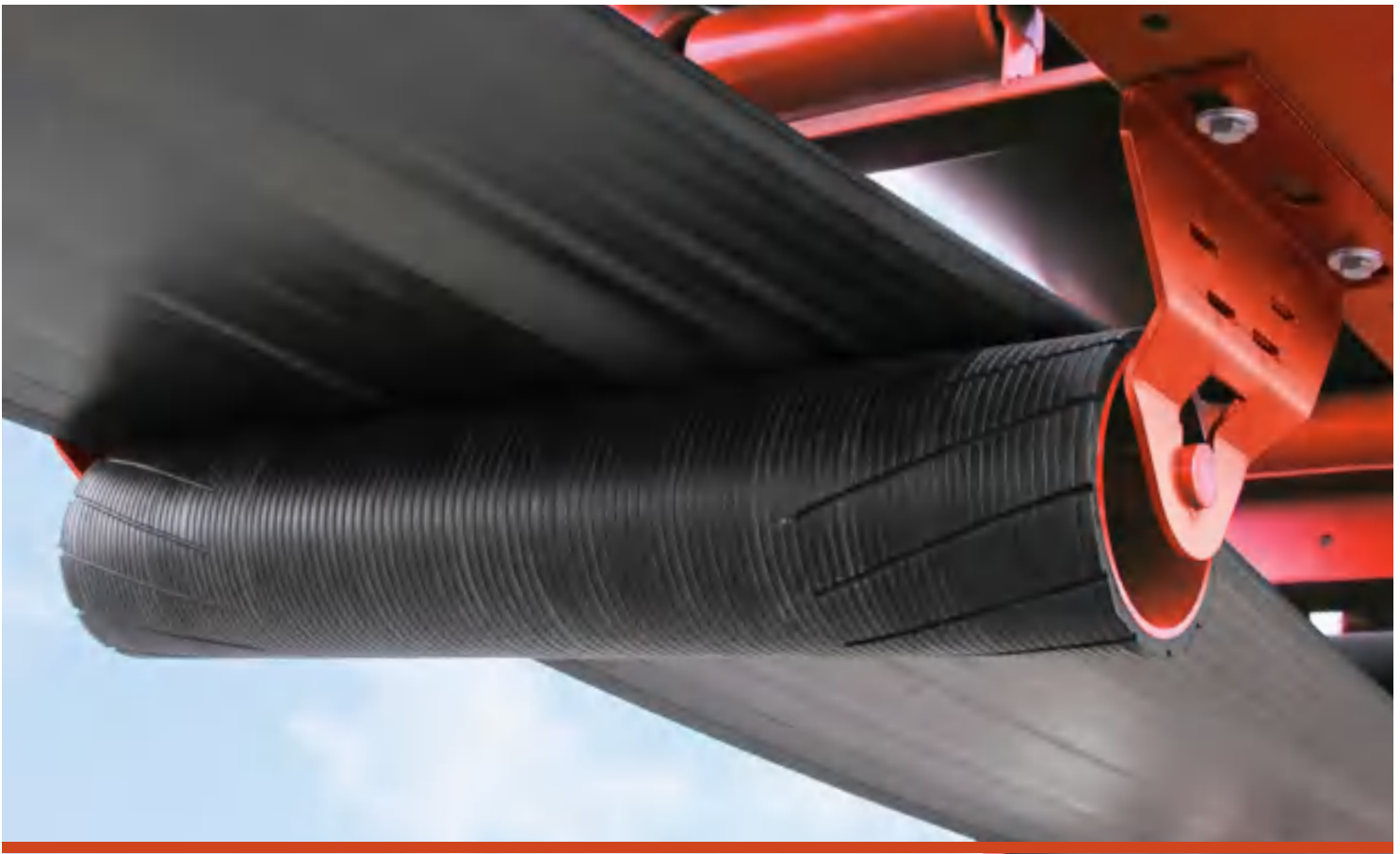
UPGRADE TO STAINLESS STEEL FRAMES



5" (127mm) OR 6" (152mm) DIAMETERS



APPLICATION-SPECIFIC BEARING SEAL OPTIONS



NAVIGATOR® RETURN TRAINER

Constantly Working to Maintain Proper Belt Tracking



INTERNAL FLANGE MOUNT BEARINGS

BENEFITS

- » Continuous belt alignment extends belt life
- » No damaging side contact, which can deteriorate belt
- » Replaceable flange mount bearings clear of material
- » Rubber lagging sheds material
- » Large diameter roll for longer service life

SPECIFICATIONS

- » Diameters: 7" and 10" (177mm - 254mm)
- » Lagging: Add 3/4" (19mm) to diameter
- » Belt Widths: 24" - 72" (609mm - 1,828mm)
- » Model for bidirectional conveyor belts
- » Adjustable Mounting Brackets

SPECIFICATIONS

DIAMETER inch (mm)	LAGGING inch (mm)	BELT WIDTH inch (mm)	DROP BRACKETS inch (mm)	BIDIRECTIONAL MODEL
7" (177)	3/4" (19)	24" - 36" (609 - 914)	1.5" or 4.5" (38 or 114)	Yes
10" (254)	3/4" (19)	42" - 72" (1,066 - 1,828)	1.5" or 4.5" (38 or 114)	Yes

PART NUMBER GUIDE

Example: NAV-36 or NAV-36LAG

Roller Style

Belt Width

Lagging Option

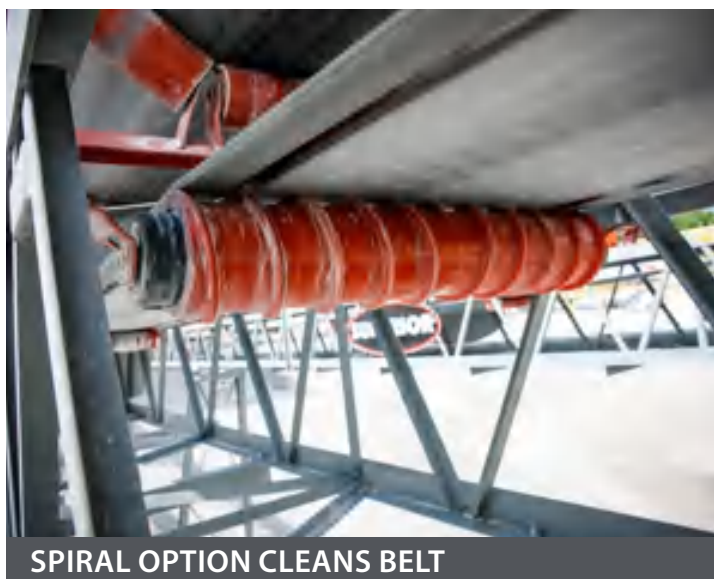
PHOTO GALLERY





URATHON[®] RETURN ROLLS

Avoid Material Build-Up on Conveyor Return Rolls



SPIRAL OPTION CLEANS BELT

BENEFITS

- » Non-Stick properties of urethane reject sticky material
- » In-House urethane production improves consistency and quality control
- » Lasts at least 3X longer than steel or rubber rolls
- » Upgrade to spiral model to add belt cleaning capabilities
- » Lessens maintenance costs and reduces operations downtime

SPECIFICATIONS

- » CEMA Classes: B, C, D and E
- » Diameters: 5" - 7" (127mm - 177mm)
- » Belt Widths: 18" - 96" (457mm - 2,438mm)

SPECIFICATIONS

CLASS	BEARING	DIAMETER inch (mm)	BELT WIDTH inch (mm)	SPIRAL OPTION v (mm)
CEMA B	17mm	5" (127)	18" - 48" (457 - 1,219)	No
CEMA C	20mm	5" or 6" (127 or 152)	18" - 60" (457 - 1,524)	6" Diameter (152)
CEMA D	25mm	5" or 6" (127 or 152)	18" - 72" (457 - 1,828)	6" Diameter (152)
CEMA E	40mm	6" or 7" (152 or 177)	36" - 96" (914 - 2,438)	6" Diameter (152)

PART NUMBER GUIDE

Example: **C5-RETU-36**

CEMA Rating

Roll Diameter

Idler Type

Belt Width

* Spiral option is only available in 6" diameter (152 mm)

PHOTO GALLERY



NEW!
Wet
Dry
Eco
Titanium
Standard

APPLICATION-SPECIFIC BEARING SEAL OPTIONS



URATHON® BEATER ROLLS

Cost-Effectively Shake Off Carryback Material



BENEFITS

- » Maintenance free lobed discs cause light vibration
- » Carryback material dislodges from bottom side of belting
- » Purchase as individual discs or complete, pre-assembled idler
- » Ideal installation above stockpile, screen or bin

SPECIFICATIONS

- » CEMA Classes: C and D
- » Diameters: 4" - 6" (101mm - 152mm)
- » Belt Widths: 18" - 72" (457mm - 1,828mm)

SPECIFICATIONS

CLASS	ROLL DIAMETER inch (mm)	DISC DIAMETER inch (mm)	BELT WIDTH inch (mm)	NUMBER OF DISCS inch (mm)	DISC WIDTH inch (mm)
CEMA C	4", 5", or 6" (101, 127, or 152)	7.5", 9.5", or 10.5" (190, 241, or 266)	18" - 60" (457 - 1,524)	One every 9" - 12" (228 - 304)	3.5" (88)
CEMA D	4", 5", or 6" (101, 127, or 152)	7.5", 9.5", or 10.5" (190, 241, or 266)	18" - 72" (457 - 1,828)	One every 9" - 12" (228 - 304)	3.5" (88)

PART NUMBER GUIDE

Example: **C5-RETUB-42**

CEMA Rating

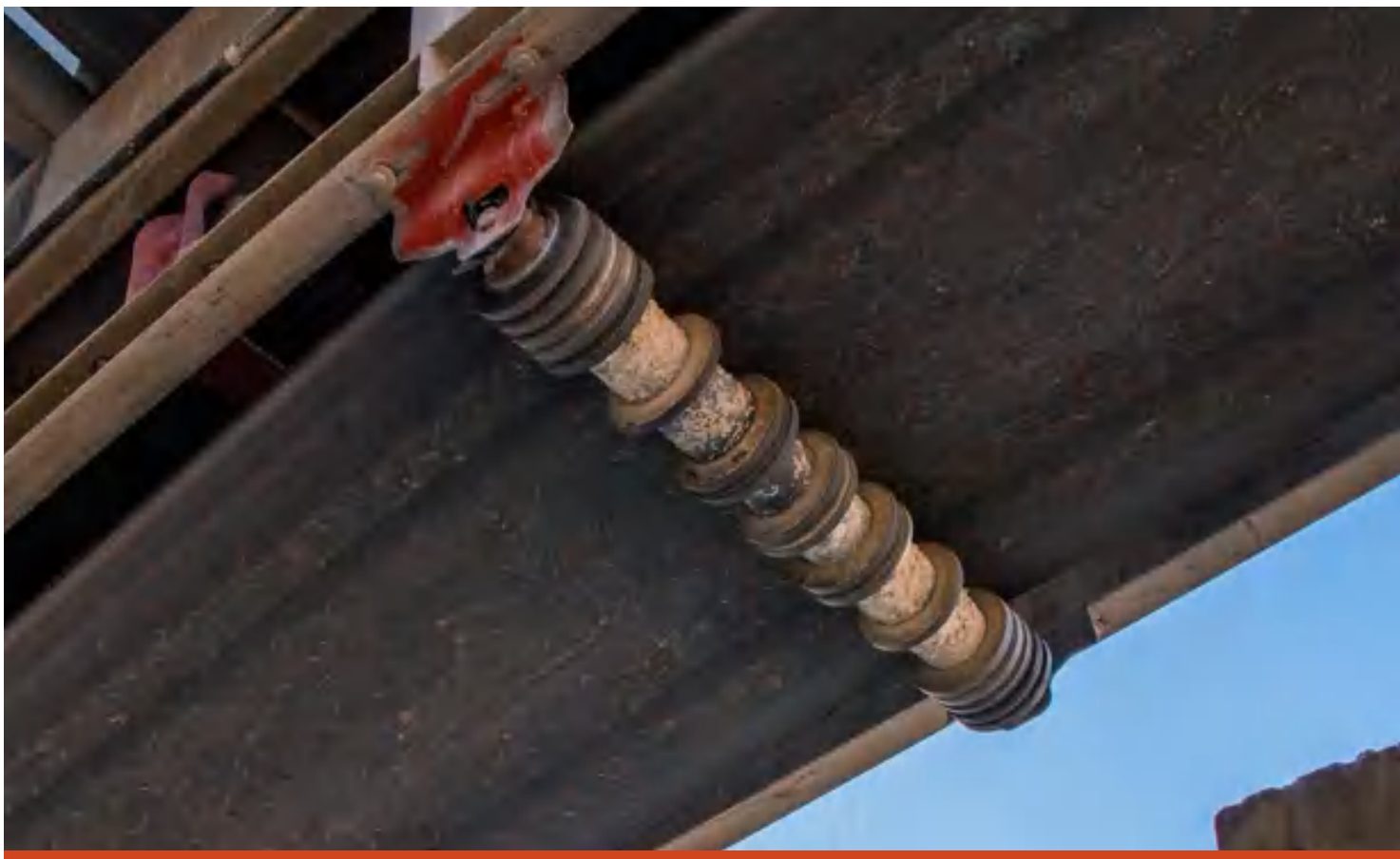
Roll Diameter

Idler Type

Belt Width

PHOTO GALLERY





RUBBER RETURN ROLLS

Cost Effective, Material Shedding Idler Return Rolls



RUBBER DISC OR LAGGED OPTION

BENEFITS

- » Rubber has a longer wear life than steel
- » Reducing the time needed for replacement and maintenance

DISC STYLE

- » CEMA Classes: B, C, D and E
- » Diameters: 4" - 7" (101mm - 177mm)
- » Belt Widths: 18" - 96" (457mm - 2,438mm)

LAGGED STYLE

- » CEMA Classes: B, C, D and E
- » Diameters: 4" - 7" (101mm - 177mm)
- » Rubber Thickness: 1/2" or 1" (12mm - 25mm)
- » Belt Widths: 18" - 96" (457mm - 2,438mm)



BEATER BAR RETURN ROLLS

Vibration Created When Roller Beats Belt Removes Carryback



BENEFITS

- » Rods create beating motion to remove carryback material
- » Gaps in roll allow material to escape
- » Live shaft supports belt loads and extends bearing life
- » Works perfectly with cleated belts

SPECIFICATIONS

- » Shaft Size: 1-7/16" or 1-15/16" (36mm or 49mm)
- » Diameters: 5" or 6" (127mm or 152mm)
- » Belt Widths: 18" - 72" (457mm - 1,828mm)



SELF-ALIGNING IDLERS

Economic Belt Tracking Tool in Troughing or Return Side Options



BENEFITS

- » Mistracking causes idler to steer or pivot
- » Pivoting idler shift belt into proper tracking
- » Concave-shaped guide rollers restrain belt from running up
- » Rollers made from high-grade urethane
- » Urethane side guide rollers are softer on belting

SPECIFICATIONS

- » CEMA Classes: B, C, D, E and F
- » Diameters: 4" - 7" (101mm - 177mm)
- » Belt Widths: 18" - 96" (457mm - 2,438mm)
- » Available for bi-directional belts



40 SERIES IDLER

Interchange with Powerscreens Rollers



SUPPORTS ALL TROUGHING ANGLES

BENEFITS

- » Replacement rolls and parts for Powerscreen equipment
- » Universal center stand applies to all sizes
- » Separately replaceable rolls and stands
- » Thick steel for long-lasting dependability

SPECIFICATIONS

- » Diameters: 4" (101mm)
- » Belt Widths: 24" - 54" (609mm - 1,371mm)
- » Angles: 20°, 30°, 45° and 60°
- » Made with 11 gauge steel



CONVEYOR PULLEYS

Working Together So Pulleys Are Designed Correctly For Your Applications



CHEVRON® PULLEY

BENEFITS

- » Designed and built by Superior and installed on all conveyors
- » Continuous improvement to design-build processes
- » CEMA, Mine and Super duties, plus engineered class for all applications
- » Distributor stock or fastest industry lead time from factories

SPECIFICATIONS

- » Classes: CEMA, Mine Duty, Super Duty and Engineered

DRUM PULLEY PRODUCT OFFERING

	CEMA DUTY	MINE DUTY		SUPER DUTY
		Prime™ Mine Duty	Mine Duty	
Drum Pulleys				
Belt Style	Fabric	Fabric	Fabric	Fabric
Belt Burden	No Load	Full-Load	Full-Load	Full-Load
Starts and Stops	Infrequent	Frequent	Frequent	Frequent
Belt/Feed Characteristics	Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded

NOTE: Additional capabilities available on request

WING PULLEY PRODUCT OFFERING

	CEMA DUTY		MINE DUTY		SUPER DUTY	
	Standard Wing	Chevron Wing	Standard Wing	Chevron Wing	Standard Wing	Chevron Wing
Wing Pulleys						
Belt Style	Fabric	Fabric	Fabric	Fabric	Fabric	Fabric
Belt Burden	No Load	Full-Load	Full-Load	Full-Load	Full-Load	Full-Load
Starts and Stops	Infrequent	Frequent	Frequent	Frequent	Frequent	Frequent
Belt/Feed Characteristics	Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded	Non-Uniformly Loaded
Wing Bar Thickness	Standard: 1/4" x 1-1/2" Available: 3/8" and 5/8" x 1-1/2", 1" x 2" Round: 3/4", and 1"	1" x 1/2" Half-Round	Standard: 5/8" x 1-1/2" Available: 3/4" x 2", 1" x 1/2"; 3/4" Round: 1" and 1-1/2"	1" Round	Standard: 3/4" x 2" Round: 1" and 1-1/2"	1-1/2" Round

NOTE: Additional capabilities available on request

CORE®SYSTEMS DESIGN



PRE-ASSEMBLED



IN APPLICATION

APPLICATION ENGINEERED

- » Ensures power requirements are met
- » Rust prevention treatment on shaft

MANUFACTURING CAPABILITIES

- » Certified by American Welding Society (AWS D1.1)
- » On-site weld inspection, nondestructive testing and x-rays
- » Machined rims, lagging, balancing and thermal stress relief
- » Keyless locking assemblies create tightest fit around shaft

AVAILABLE ON REQUEST

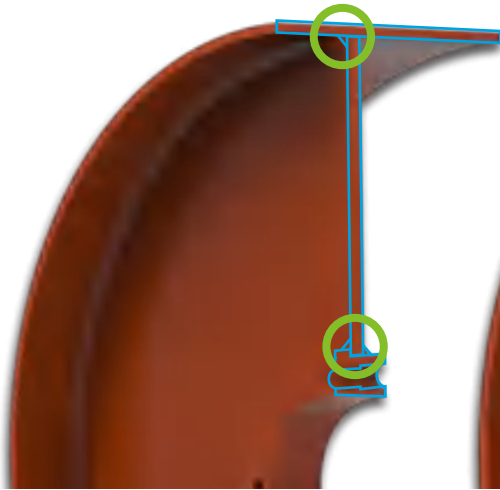
- » Assembly drawings
- » Industry leading brands of power transmission components

PRE-ASSEMBLED PACKAGES

- » Eliminates the headaches of on-site assembly
- » Reduces installation time

FAST SERVICE AND SUPPORT

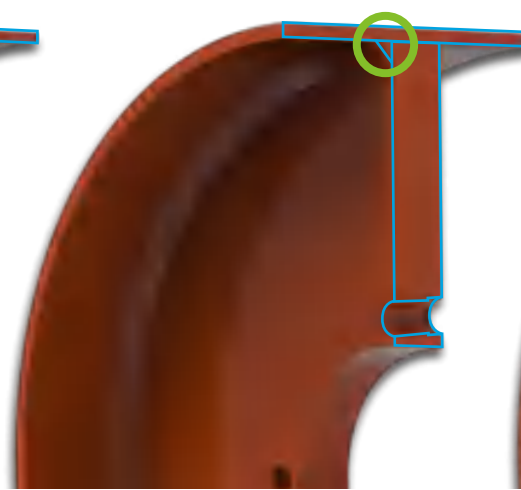
- » Expedited services available
- » **24/7 emergency support**
- » Nationwide distribution
- » Two-year warranty



CLASS ONE

WELDED HUB

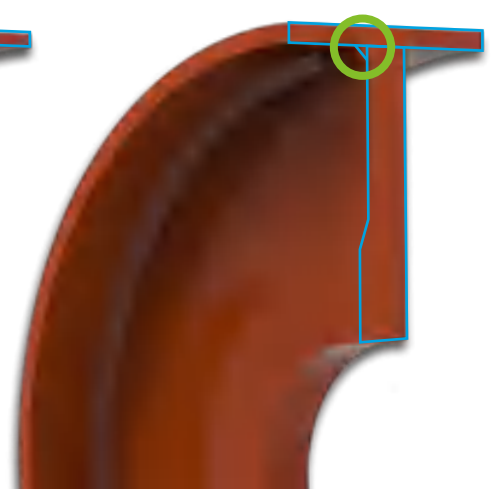
- » Best value in applications where high tension is not the chief concern.



CLASS TWO

INTEGRAL HUB

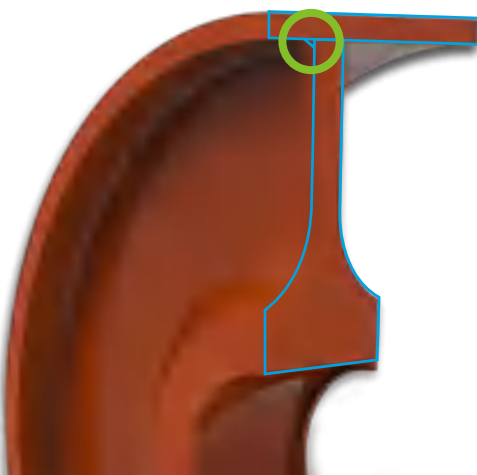
- » One piece machined integral end disc.
- » Eliminates two welds of hub to end disc, a common fatigue point.
- » Optimized for XT bushings, others available upon request.



CLASS THREE

PROFILE DISC

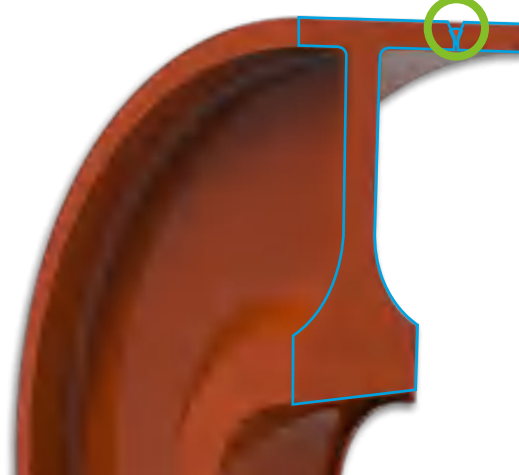
- » Solid profiled end disc.
- » Machined one side reduces stress and eliminates hub to end disc welds.
- » Designed for Keyless Locking Devices.
- » Stress free assembly without damaging effect of keyways.



CLASS FOUR

TURBINE END DISC

- » One piece solid end disc.
- » Machined on both sides for 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.

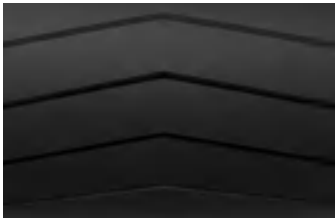
○ = WELD

LAGGING OPTIONS*



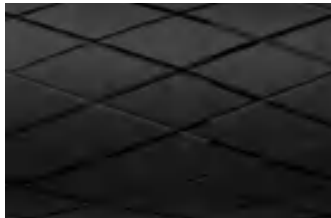
HERRINGBONE

- » Drive pulley
- » 3/8" (10mm) min. thickness



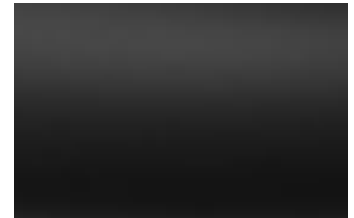
CHEVRON

- » Drive pulley
- » 3/8" (10mm) min. thickness



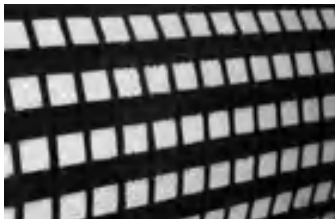
DIAMOND

- » Bidirectional
- » 3/8" (10mm) min. thickness



SMOOTH

- » Snub and bend pulley
- » 1/4" (6.3mm) min. thickness



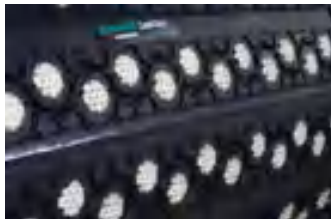
RICHWOOD COMBI-LAGG®

- » Pulleys greater than 475 PIW
- » 5% more grip than other tiles
- » 2X friction of standard lagging
- » 5/8" (16mm) min. thickness



RICHWOOD REDI-LAGG™

- » Weld-on pulley lagging
- » 1/2" (13mm) min. thickness



RICHWOOD COMBI-GRIP

- » Pulleys up to 475 PIW
- » Water shedding grooves
- » 5/8" (16mm) thickness



URETHANE

- » Abrasion resistance
- » Chemical resistance
- » Less water absorption than rubber

* Other Options: Abrasion resistant rubber; Oil resistant neoprene rubber; Anti-static, fire retardant MSHA rubber; Custom durometers (60 is standard)

UNIQUE PULLEYS



SPIRAL DRUM PULLEY



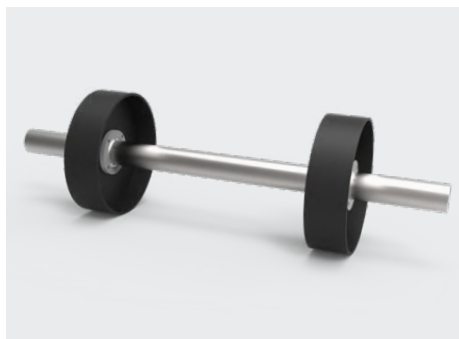
SPIRAL WING PULLEY



ROUND BAR SUPER WING PULLEY



BEATER BAR



DEFLECTION WHEEL



DEAD SHAFT PULLEYS



CHEVRON® PULLEY

The Original V-Shaped Pulley That Revolutionized Wing Pulleys



UPGRADE TO ABRASION RESISTANT STEEL

BENEFITS

- » Sheds material better than traditional wings
- » Resists wings from bending and increases belt life
- » Constant contact between pulley and belt reduces noise
- » Easier on mechanical belt splices

SPECIFICATIONS

- » Classes: CEMA, Mine Duty and Super Duty
- » Diameters: 10" - 48" (254mm - 1,219mm)
- » Face Widths: 12" - 78" (304mm - 1,981mm)
- » Abrasion resistant (AR) steel upgrade

SPECIFICATIONS

CLASS	SIDE PROFILE	DIAMETER inch (mm)	FACE WIDTH inch (mm)	WING THICKNESS inch (mm)	WEAR BAR THICKNESS inch (mm)	WEAR BAR STYLE	ABRASION RESISTANCE UPGRADE
CEMA Duty		8" - 36" (203 - 914)	12" - 78" (304 - 1,981)	3/16" or 1/4" (4 or 6)	1-1/2" (38.1) Half Round	1/2 Round	Yes
Mine Duty		12" - 48" (304 - 1,219)	12" - 78" (304 - 1,981)	1/4" - 5/16" (6 - 8)	1" (25.4) Round	Full Round	Yes
Super Duty		12" - 48" (304 - 1,219)	12" - 78" (304 - 1,981)	3/8" (9)	1-1/2" (38.1) Round	Full Round	Yes

FEATURES AND BENEFITS



- 01/ V-Shape deflects material, preventing fugitive entrapment.
- 02/ Reduction of trapped material extends belt and pulley service life.
- 03/ Constant belt contact reduces vibration and noise by up to 50 dB.
- 04/ Rounded wing cap is easier on mechanical belt splices.
- 05/ Designed without center plate, which can cut belts as wings wear.
- 06/ Linked wings at center removes material trapping pinch point.
- 07/ AR steel option extends service life in harshest applications.

PART NUMBER GUIDE

Example: CHVS-4275XT70-AR

Style	Type	Diameter	Face Width	Hub Type	AR Steel Bars
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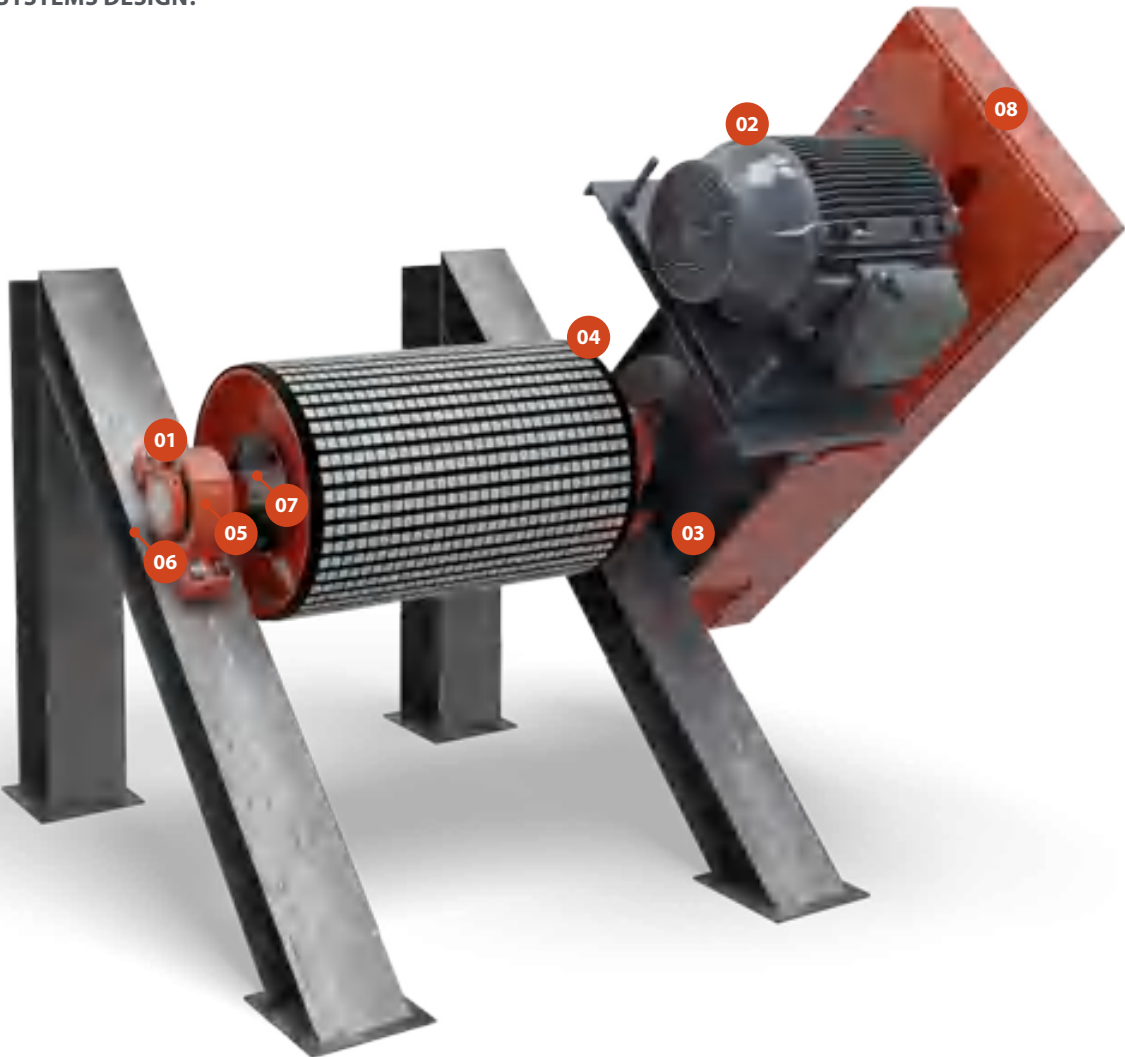
CORE SYSTEMS® DESIGN

OEM's Can Achieve 15-30% Savings and Increase Your Margins



BENEFITS

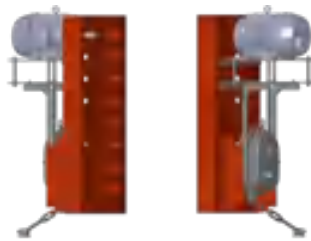
- » Single source supplier of conveyor drive components
- » Avoid painfully sourcing all pieces and parts on your own
- » Right-sized by engineering team to guarantee functionality
- » One of the largest purchasers of PT components in the world
- » As a result, take advantage of our competitive pricing
- » Pre-assembled packages erase hassle of on-site assembly



1. BEARINGS



2. MOTORS



3. DRIVES



4. GEARING



5. SHAFTING



6. COUPLINGS



7. BUSHINGS



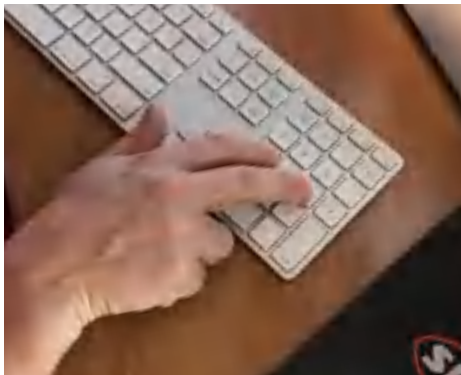
8. GUARDING



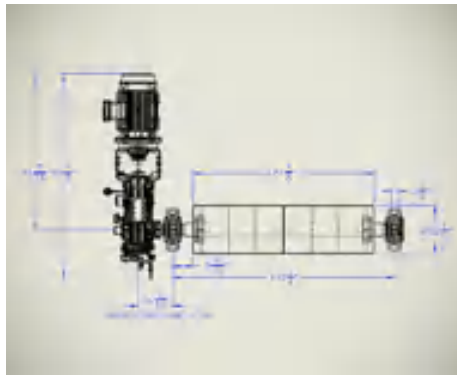
ONE POINT OF CONTACT



FREIGHT CONSOLIDATION



PART NUMBER CONVERSION



DRAWING SUPPORT



PERFORMANCE-MATCHED



PRE-ASSEMBLED PACKAGES

ONE POINT OF CONTACT

- » Design and engineering
- » Quoting
- » Manufacturing
- » Drive package assembly
- » Delivery

SUPERIOR BUYING POWER

- » Largest buyer of conveyor parts
- » We pass the savings to you

FREIGHT CONSOLIDATION

- » Consolidation of shipments
- » Stocked warehouses ready for delivery
- » Typical turnaround times are 3-7 days
- » Optional 1-2 day expediting

PART NUMBER CONVERSION

- » Integration with your back-end
- » Convert to your system
- » Allow us to do the work for you

DRAWING SUPPORT

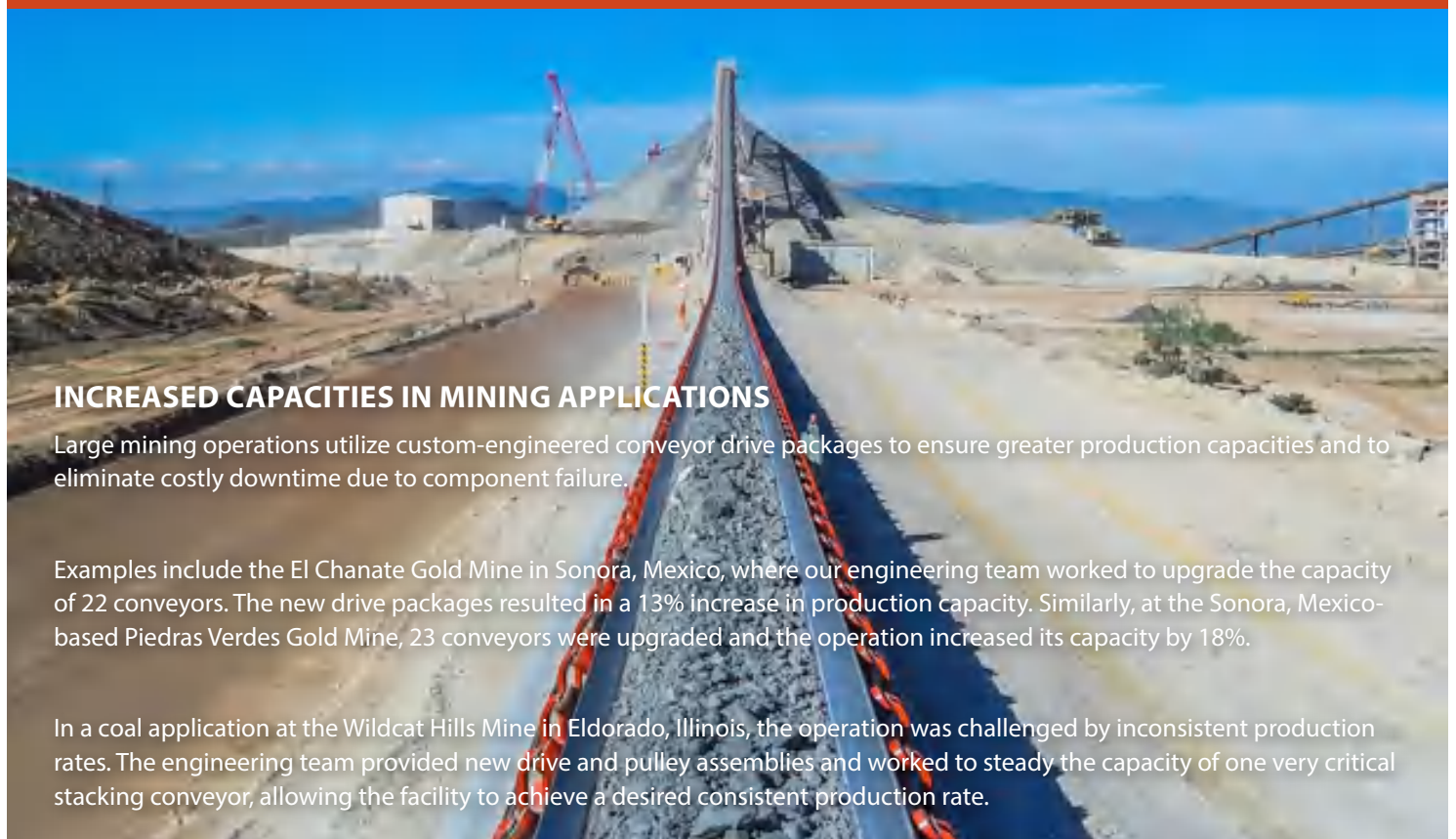
- » Drawings available in multiple formats
- » Receive any and all drawing files

PERFORMANCE-MATCHED

- » Properly designed for application
- » Sized specifically for your conveyor
- » Prevents failures and downtime

PRE-ASSEMBLED PACKAGES

- » Eliminates assembly time and labor
- » On-site assembly is confusing



INCREASED CAPACITIES IN MINING APPLICATIONS

Large mining operations utilize custom-engineered conveyor drive packages to ensure greater production capacities and to eliminate costly downtime due to component failure.

Examples include the El Chanate Gold Mine in Sonora, Mexico, where our engineering team worked to upgrade the capacity of 22 conveyors. The new drive packages resulted in a 13% increase in production capacity. Similarly, at the Sonora, Mexico-based Piedras Verdes Gold Mine, 23 conveyors were upgraded and the operation increased its capacity by 18%.

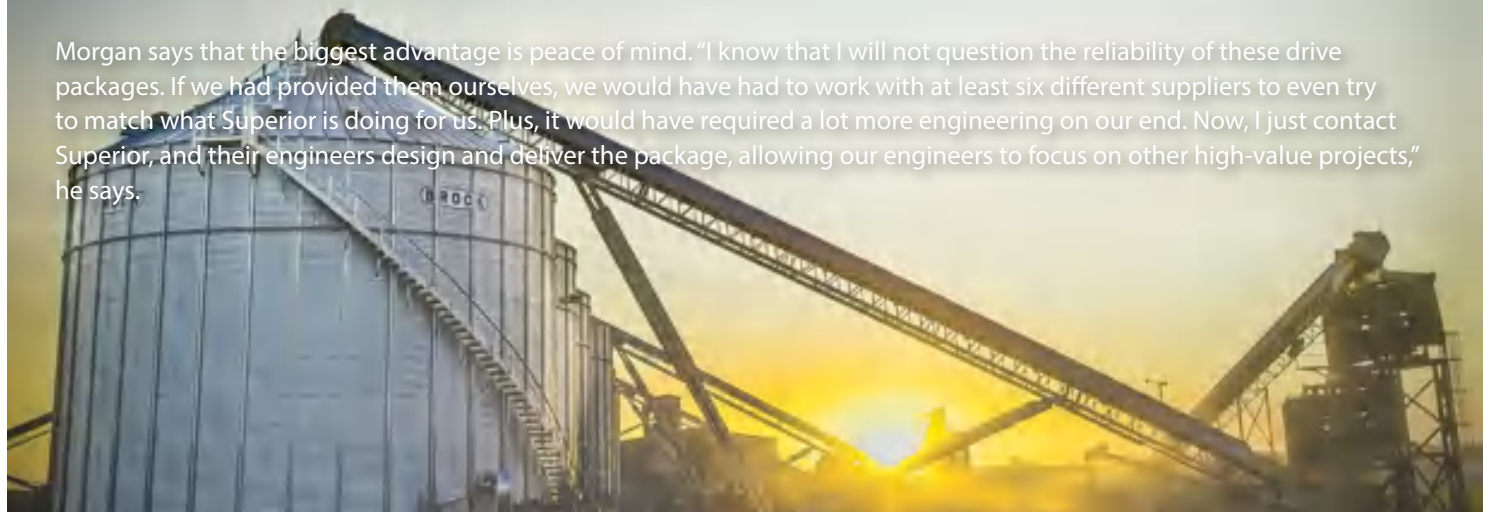
In a coal application at the Wildcat Hills Mine in Eldorado, Illinois, the operation was challenged by inconsistent production rates. The engineering team provided new drive and pulley assemblies and worked to steady the capacity of one very critical stacking conveyor, allowing the facility to achieve a desired consistent production rate.

A MAJOR BULK MATERIAL HANDLING OPERATION

Superior recently supplied complete drive packages to Wisconsin-based Agra Industries, a company that designs and fabricates agricultural material handling and storage facilities. Agra Industries was contracted to provide the conveying systems for a new wood pellet facility at the Port of Wilmington on the North Carolina coast.

"Superior Industries has the knowledge and the experience to design the drive packages to fit the parameters that we need," says Barry Morgan, director of projects for Agra Industries.

Morgan says that the biggest advantage is peace of mind. "I know that I will not question the reliability of these drive packages. If we had provided them ourselves, we would have had to work with at least six different suppliers to even try to match what Superior is doing for us. Plus, it would have required a lot more engineering on our end. Now, I just contact Superior, and their engineers design and deliver the package, allowing our engineers to focus on other high-value projects," he says.





EXTERRA® PRIMARY BELT CLEANER

Beefier Blade Lasts Longer Than Comparable Primary Scrapers



BENEFITS

- » Up to 40% more urethane than other blades
- » Thicker tip for more cleaning at crucial point of attack
- » In-house urethane production improves quality, consistency and lead times

SPECIFICATIONS

- » Aggregate Duty
- » Belt Widths: 18" - 72" (457mm - 1,828mm)
- » Blade Widths: Belt Width -2" (-51mm) or -8" (-203mm)
- » Pole Lengths: 48" - 114" (1,219mm - 2,895mm)
- » Optional Mounting Brackets

SPECIFICATIONS

Belt Widths		Blade Width				Pole Length				Tensioner(s)
		Belt Width - 8"		Belt Width - 2"		Standard		XL		
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	qty
EXTERRA PRIMARY BELT CLEANER SPECIFICATIONS										
18"	457	10"	254	16"	406	48"	1,219	60"	1,524	1
24"	609	16"	406	22"	558	54"	1,371	66"	1,676	1
30"	762	22"	558	28"	711	60"	1,524	72"	1,828	1
36"	914	28"	711	34"	863	66"	1,676	78"	1,981	1
42"	1,066	34"	863	40"	1,016	72"	1,828	84"	2,133	2
48"	1,219	40"	1,016	46"	1,168	78"	1,981	90"	2,286	2
54"	1,371	46"	1,168	52"	1,320	84"	2,133	96"	2,438	2
60"	1,524	52"	1,320	58"	1,473	90"	2,286	102"	2,590	2
66"	1,676	58"	1,473	64"	1,625	96"	2,438	108"	2,743	2
72"	1,828	64"	1,625	70"	1,778	102"	2,590	114"	2,895	2

PART NUMBER GUIDE

Product

Belt Width

Blade Width

Pole Length

Tensioner Quantity

Click Tensioner (C)

SAMPLE PART NUMBER: P-1820481C

FEATURES



- 01/ Easy to adjust tensioning nut
- 02/ Universally-designed mounting
- 03/ Beefy, long lasting blade
- 04/ Heavy duty mounting pole

A smaller, detailed view of the tensioning mechanism, showing the tensioning nut and the mounting bracket it connects to the pole.

UPGRADE TO THE CLICK TENSIONING SYSTEM!



EXTERRA® SECONDARY BELT CLEANER

Simplified Installation Cuts Valuable Maintenance Time



BENEFITS

- » Design of positioner pin simplifies installation and replacement
- » Adjustable angle for mechanical or vulcanized splices
- » 3" (76mm) segments conform to belt for effective cleaning
- » Tungsten carbide tips (standard); urethane (optional)

SPECIFICATIONS

- » Aggregate Duty
- » Belt Widths: 18" - 72" (457mm - 1,828mm)
- » Blade Widths: Belt Width - 3" (-76mm)
- » Pole Lengths: 48" - 114" (1,219mm - 2,895mm)
- » Belt Speed: up to 750 FPM (3.8 m/sec)

SPECIFICATIONS

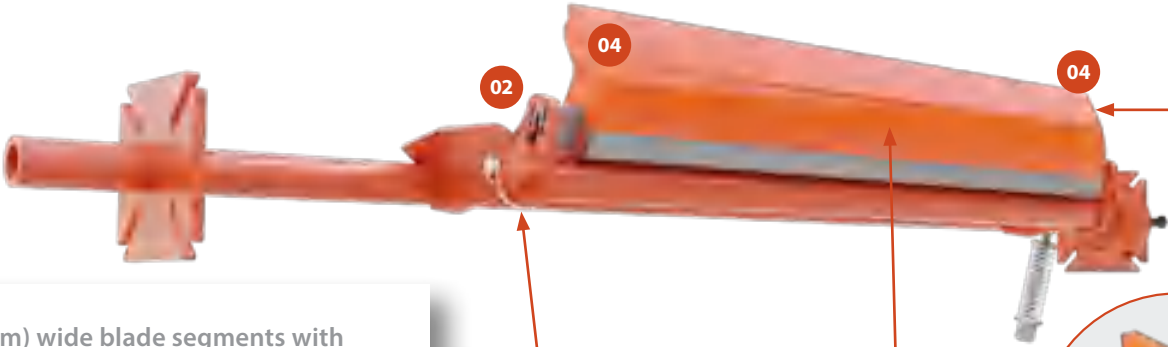
Belt Widths		Blade Width Belt Width -3"		Pole Length				Tensioner(s)
				Standard		XL		
inch	mm	inch	mm	inch	mm	inch	mm	qty
EXTERRA SECONDARY BELT CLEANER SPECIFICATIONS								
18"	457	15"	381	48"	1,219	60"	1,524	1
24"	609	21"	533	54"	1,371	66"	1,676	1
30"	762	27"	685	60"	1,524	72"	1,828	1
36"	914	33"	838	66"	1,676	78"	1,981	1
42"	1,066	39"	990	72"	1,828	84"	2,133	2
48"	1,219	45"	1,143	78"	1,981	90"	2,286	2
54"	1,371	51"	1,295	84"	2,133	96"	2,438	2
60"	1,524	57"	1,447	90"	2,286	102"	2,590	2
66"	1,676	63"	1,600	96"	2,438	108"	2,743	2
72"	1,828	69"	1,752	102"	2,590	114"	2,895	2

PART NUMBER GUIDE

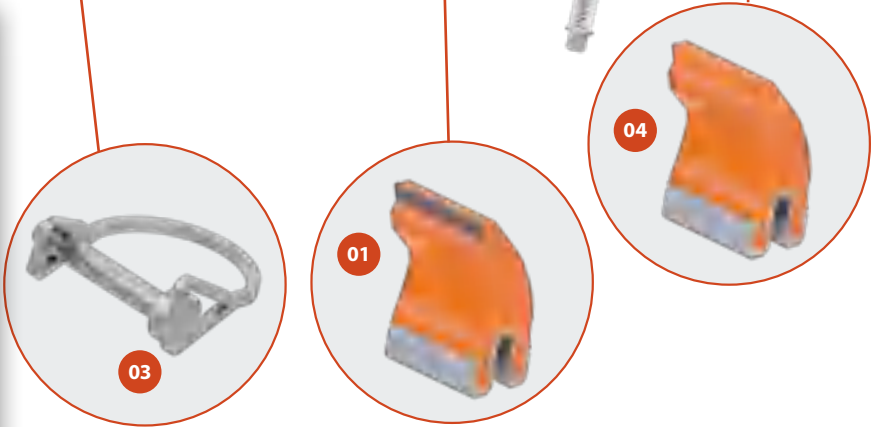
Product	Belt Width	Blade Width	Pole Length	Tensioner	Secondary Blade Style
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SAMPLE PART NUMBER: S-180348RT

FEATURES



- 01/ 3" (76 mm) wide blade segments with tungsten carbide tips individually conform to belt for effective cleaning (solid urethane also available)
- 02/ Adjustable blade angle accommodates mechanical and vulcanized splices
- 03/ Positioner pin improves ease of installation and blade replacement
- 04/ End segment is all urethane to prevent grooving in belt





EXTERRA® REPLACEMENT BLADES

Jam Packed with More Material Where it's Needed Most

SUPERIOR
Exterra® Belt
Cleaner

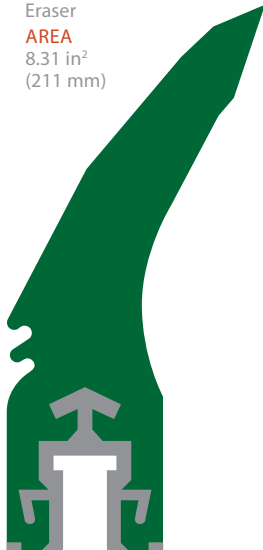
AREA
8.41 in²
(214 mm)



SUPERIOR

ARGONICS
Eraser

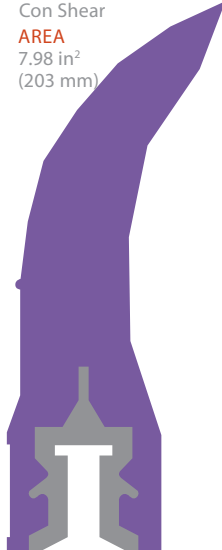
AREA
8.31 in²
(211 mm)



COMPETITOR

FLEXCO
Con Shear

AREA
7.98 in²
(203 mm)



COMPETITOR

MARTIN
Pit Viper

AREA
6.77 in²
(172 mm)



COMPETITOR

MARTIN
QC#1 HD

AREA
6.07 in²
(154 mm)



COMPETITOR

ARCH
Saber

AREA
6.41 in²
(163 mm)



COMPETITOR



Rock Face to Load Out®

REPLACEMENT BLADE PART NUMBERS

MARTIN® QC™ #1 STANDARD BELT CLEANER		
Length inches (mm)	Superior Part #	QC #1 Part #
10" (254)	07-00540-01	32773-1211
16" (406)	07-00541-01	32773-1811
22" (559)	07-00542-01	32773-2411
28" (711)	07-00543-01	32773-3011
34" (864)	07-00544-01	32773-3611
40" (1,016)	07-00545-01	32773-4211
46" (1,168)	07-00546-01	32773-4811
52" (1,321)	07-00547-01	32773-5411
58" (1,478)	07-00548-01	32773-6011
64" (1,625)	07-00549-01	32773-6611
70" (1,778)	07-00550-01	32773-7211

MARTIN® QC™ #1 STANDARD BELT CLEANER		
Length inches (mm)	Superior Part #	HD Part #
12" (305)	07-00540-02	35381-1811
18" (457)	07-00541-02	35381-2411
24" (610)	07-00542-02	35381-3011
28" (711)	07-00549-02	35381-3411
30" (762)	07-00543-02	35381-3611
34" (864)	07-00553-02	35381-4011
36" (914)	07-00544-02	35381-4211
40" (1,016)	07-00550-02	35381-4611
42" (1,067)	07-00545-02	35381-4811
48" (1,219)	07-00546-02	35381-5411
54" (1,317)	07-00547-02	35381-6011
66" (1,676)	07-00548-02	35381-7211

MARTIN® PV BELT CLEANER		
Length inches (mm)	Superior Part #	Pit Viper Part #
12" (305)	07-00540-03	PV1S-18XX
16" (406)	07-00541-03	PV1S-18XX
18" (457)	07-00542-03	PV1S-24XX
22" (559)	07-00543-03	PV1S-24XX
24" (610)	07-00544-03	PV1S-30XX
28" (711)	07-00545-03	PV1S-30XX
30" (762)	07-00546-03	PV1S-36XX
34" (864)	07-00547-03	PV1S-36XX
36" (914)	07-00548-03	PV1S-42XX
40" (1,016)	07-00549-03	PV1S-42XX
42" (1,067)	07-00550-03	PV1S-48XX
46" (1,168)	07-00551-03	PV1S-48XX
48" (1,219)	07-00552-03	PV1S-54XX
52" (1,321)	07-00553-03	PV1S-54XX
54" (1,317)	07-00554-03	PV1S-60XX
58" (1,478)	07-00555-03	PV1S-60XX
66" (1,676)	07-00556-03	PV1S-72XX
70" (1,778)	07-00557-03	PV1S-72XX

FLEXCO EZP1 ROCKLINE® BELT CLEANER		
Length inches (mm)	Superior Part #	Flexco Part #
10" (254)	07-00540-04	EZP1-212
16" (406)	07-00541-04	EZP1-218
22" (559)	07-00542-04	EZP1-224
28" (711)	07-00543-04	EZP1-230
34" (864)	07-00544-04	EZP1-236
40" (1,016)	07-00545-04	EZP1-242
46" (1,168)	07-00546-04	EZP1-248
52" (1,321)	07-00547-04	EZP1-254
58" (1,478)	07-00548-04	EZP1-260
64" (1,625)	07-00549-04	EZP1-266
70" (1,778)	07-00550-04	EZP1-272

REPLACEMENT BLADE PART NUMBERS

ARGONICS ERASER™ BELT CLEANER		
Length inches (mm)	Superior Part #	Eraser Part #
16" (406)	07-00540-05	CP-REA16M-G83
22" (559)	07-00541-05	CP-REA22M-G83
28" (711)	07-00542-05	CP-REA28M-G83
34" (864)	07-00543-05	CP-REA34M-G83
40" (1,016)	07-00544-05	CP-REA40M-G83
46" (1,168)	07-00545-05	CP-REA46M-G83
52" (1,321)	07-00546-05	CP-REA52M-G83
58" (1,478)	07-00547-05	CP-REA58M-G83

ARGONICS MICRO ERASER™ BELT CLEANER		
Length inches (mm)	Superior Part #	Micro Eraser Part #
16" (406)	07-00540-06	CP-MEA16M-G83
22" (559)	07-00541-06	CP-MEA22M-G83
28" (711)	07-00542-06	CP-MEA28M-G83
34" (864)	07-00543-06	CP-MEA34M-G83
40" (1,016)	07-00544-06	CP-MEA40M-G83
46" (1,168)	07-00545-06	CP-MEA46M-G83
52" (1,321)	07-00546-06	CP-MEA52M-G83
58" (1,478)	07-00547-06	CP-MEA58M-G83

ARCH SABER PRIMARY® BELT CLEANER		
Length inches (mm)	Superior Part #	Arch Part # *
16" (406)	07-00540-07	18000018
22" (559)	07-00541-07	24000024
28" (711)	07-00542-07	30000030
34" (864)	07-00543-07	36000036
40" (1,016)	07-00544-07	42000042
46" (1,168)	07-00545-07	48000048
52" (1,321)	07-00546-07	54000054
58" (1,478)	07-00547-07	60000060
64" (1,626)	07-00548-07	66000066
70" (1,778)	07-00549-07	72000072

ARCH MINI SABER BELT CLEANER		
Length inches (mm)	Superior Part #	Arch Part #**
16" (406)	07-00540-08	18000018
22" (559)	07-00541-08	24000024
28" (711)	07-00542-08	38000030
34" (864)	07-00543-08	36000036
40" (1,016)	07-00544-08	42000042
46" (1,168)	07-00545-08	48000048

*Arch Part Numbers begin and end with: MCNMN000 [see above] 0TA00000000000

*Arch Part Numbers begin and end with: MCNSB000 [see above] 0TA00000000000

COMPLETE EXTERRA PRIMARY BELT CLEANER SYSTEM			
Part Number	Belt Width inches (mm)	Blade Length inches (mm)	Weight
P-1820481	18" (457)	16" (406)	41
P-1880481	18" (457)	10" (254)	38
P-2420541	24" (610)	22" (559)	47
P-2480541	24" (610)	16" (406)	44
P-3020601	30" (762)	28" (711)	53
P-3080601	30" (762)	22" (559)	50
P-3620661	36" (914)	34" (864)	59
P-3680661	36" (914)	28" (711)	56
P-4220722	42" (1,067)	40" (1,016)	65
P-4280721	42" (1,067)	34" (864)	62
P-4820782	48" (1,219)	46" (1,168)	75
P-4880782	48" (1,219)	40" (1,016)	72
P-5420842	54" (1,317)	52" (1,321)	85
P-5480842	54" (1,317)	46" (1,168)	82
P-6020902	60" (1,524)	58" (1,478)	95
P-6080902	60" (1,524)	52" (1,321)	92
P-6620962	66" (1,676)	64" (1,626)	105
P-6680962	66" (1,676)	58" (1,478)	102
P-7221022	72" (1,828)	70" (1,778)	117
P-7281022	72" (1,828)	64" (1,626)	112

EXTERRA PRIMARY BELT CLEANER REPLACEMENT PART #		
Part Number	Description	Dimensions inches (mm)
32-000097	Assembly Bracket Tensioner	-
32-000094	Bracket Non-Tensioner	-
13-00975	Pin Clip	5/16" x 2-1/2" (8 x 63)
07-00540	Primary Scraper Blade	10" (254)
07-00541	Primary Scraper Blade	16" (406)
07-00542	Primary Scraper Blade	22" (559)
07-00543	Primary Scraper Blade	28" (711)
07-00544	Primary Scraper Blade	34" (864)
07-00545	Primary Scraper Blade	40" (1,016)
07-00546	Primary Scraper Blade	46" (1,168)
07-00547	Primary Scraper Blade	52" (1,321)
07-00549	Primary Scraper Blade	58" (1,478)
07-00548	Primary Scraper Blade	64" (1,626)
07-00550	Primary Scraper Blade	70" (1,778)

COMPLETE EXTERRA SFL DUAL BELT CLEANER SYSTEM				
Belt Width inches (mm)	Blade Length inches (mm)	Primary Blade Only	D1 SFL Dual Belt Cleaner	D2 SFL Dual Belt Cleaner
			Tungsten	Tungsten
18" (457)	16" (406)	SFLP-182048	SFLD1-182048T	-
18" (457)	10" (254)	SFLP-188048	SFLD1-188048T	-
24" (610)	22" (559)	SFLP-242054	SFLD1-242054T	-
24" (610)	16" (406)	SFLP-248054	SFLD1-248054T	-
30" (762)	28" (711)	SFLP-302060	SFLD1-302060T	SFLD2-302060T
30" (762)	22" (559)	SFLP-308060	SFLD1-308060T	SFLD2-308060T
36" (914)	34" (864)	SFLP-362066	SFLD1-362066T	SFLD2-362066T
36" (914)	28" (711)	SFLP-368066	SFLD1-368066T	SFLD2-368066T
42" (1,067)	40" (1,016)	SFLP-422072	SFLD1-422072T	SFLD2-422072T
42" (1,067)	34" (864)	SFLP-428072	SFLD1-428072T	SFLD2-428072T
48" (1,219)	46" (1,168)	SFLP-482078	SFLD1-482078T	SFLD2-482078T
48" (1,219)	40" (1,016)	SFLP-488078	SFLD1-488078T	SFLD2-488078T
54" (1,317)	52" (1,321)	SFLP-542084	SFLD1-542084T	SFLD2-542084T
54" (1,317)	46" (1,168)	SFLP-548084	SFLD1-548084T	SFLD2-548084T
60" (1,524)	58" (1,478)	SFLP-602090	SFLD1-602090T	SFLD2-602090T
60" (1,524)	52" (1,321)	SFLP-608090	SFLD1-608090T	SFLD2-608090T

EXTERRA SFL DUAL BELT CLEANER REPLACEMENT PART #		
Part Number	Description	Dimensions inches (mm)
32-000188	In-Field Mounting Bracket	-
07-10090	Secondary Scraper Blade - Outside Urethane Replacement	3" (76)
07-10091	Secondary Scraper Blade - Tungston Replacement	3" (76)
13-00975	Pin Clip	5/16" x 2-1/2" (8 x 63)
07-00540	Primary Scraper Blade	10" (254)
07-00541	Primary Scraper Blade	16" (406)
07-00542	Primary Scraper Blade	22" (559)
07-00543	Primary Scraper Blade	28" (711)
07-00544	Primary Scraper Blade	34" (864)
07-00545	Primary Scraper Blade	40" (1,016)
07-00546	Primary Scraper Blade	46" (1,168)
07-00547	Primary Scraper Blade	52" (1,321)
07-00549	Primary Scraper Blade	58" (1,478)
07-00548	Primary Scraper Blade	64" (1,626)
07-00550	Primary Scraper Blade	70" (1,778)



EXTERRA® SFL DUAL BELT CLEANER

Primary and Secondary Cleaning System Sharing One Mounting Pole



AUTOMATIC PROPER TENSION TO BOTH BLADES

BENEFITS

- » No manual tensioning during life of primary blade
- » No additional structure to accommodate secondary blade
- » Entire assembly mounted inside chute without shaft extending through chute
- » Efficient solution for wet and sticky applications that allows for maximum belt cleanliness

SPECIFICATIONS

- » Aggregate Duty
- » Belt Widths: 18" - 60" (457mm - 1,524mm)
- » Blade Widths: Belt Width -8" (-203mm)
- » Pole Lengths: 48" - 114" (1,219mm - 2,895mm)
- » Optional Mounting Brackets

SPECIFICATIONS

Blade Lengths		Belt Widths		Blade Widths	
inch	mm	inch	mm	inch	mm
PULLEY DIAMETERS (12" - 20") SPECIFICATIONS					
Minus 8"	-203mm	18" - 60"	450 -1,500	10" - 52"	250 -1,300

Blade Lengths		Belt Widths		Blade Widths	
inch	mm	inch	mm	inch	mm
PULLEY DIAMETERS (21" - 30") SPECIFICATIONS					
Minus 8"	-203mm	30" - 60"	750 -1,500	22" - 52"	550 -1,320

PART NUMBER GUIDE

Product

Belt Width

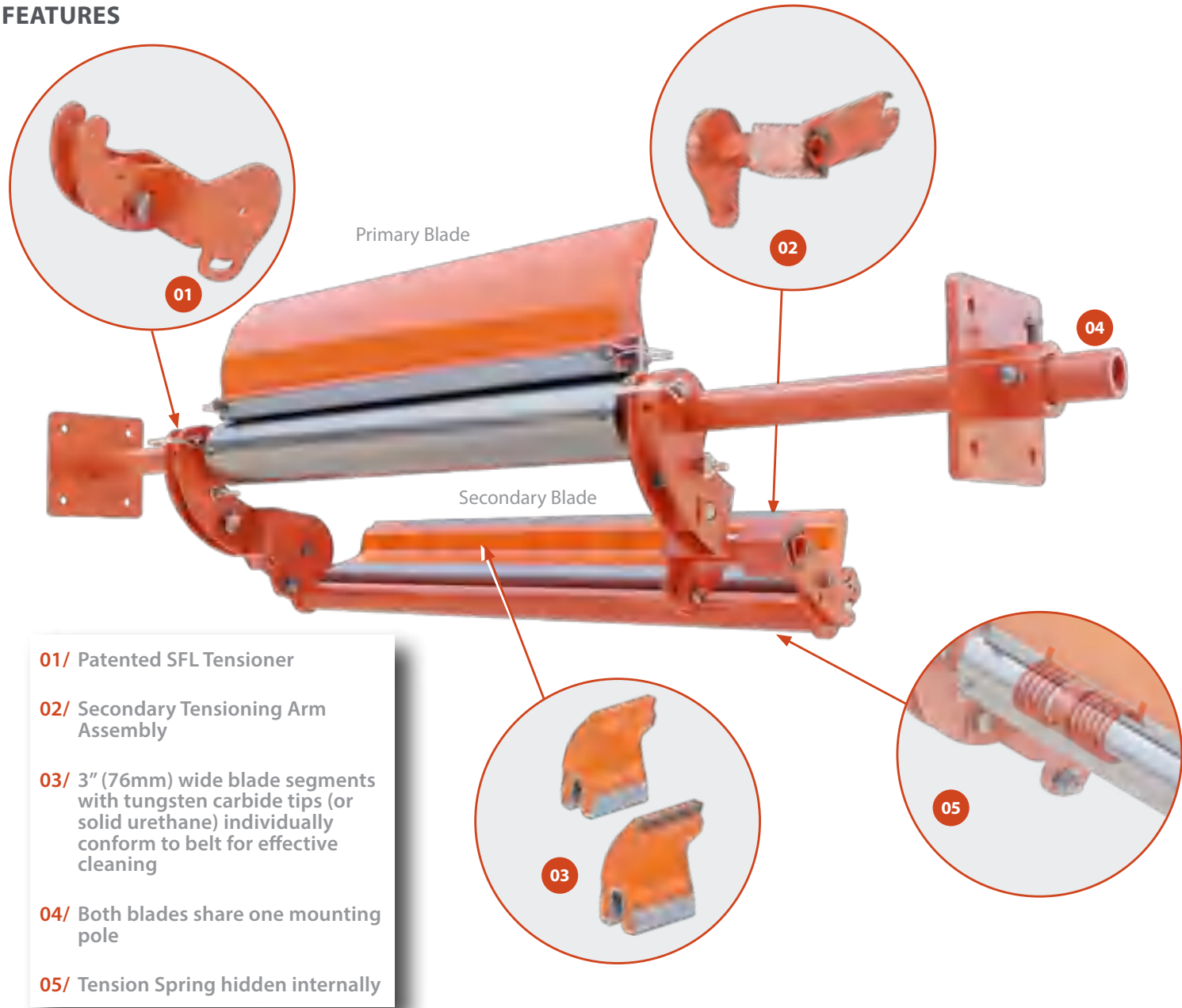
Blade Width

Pole Length

Secondary Blade Style

SAMPLE PART NUMBER: SFLDN1-188048T

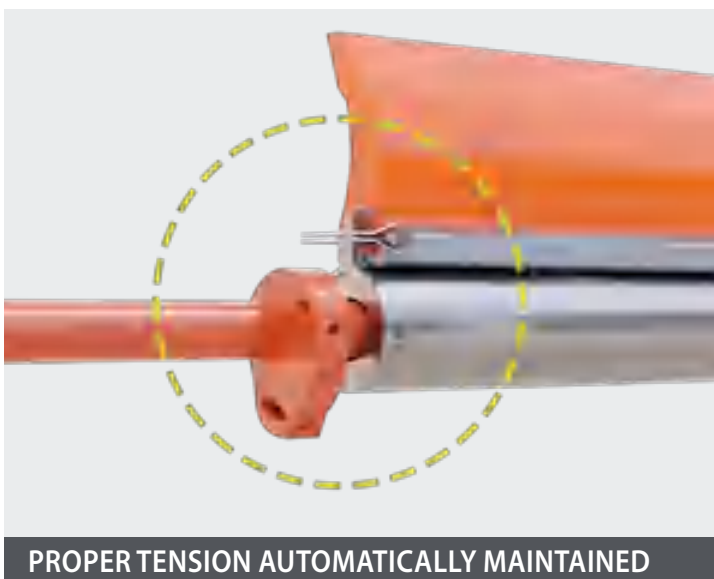
FEATURES





EXTERRA[®] SFL PRIMARY BELT CLEANER

Set It And Forget It



BENEFITS

- » Set tension during installation of blade
- » Unique spring mechanism maintains proper tension
- » No need to reset tension until blade is replaced
- » Save maintenance time and money

SPECIFICATIONS

- » Aggregate Duty
- » Belt Widths: 18" - 72" (457mm - 1,828mm)
- » Blade Width: Belt Width -2" (-51mm) or -8" (-203mm)
- » Pole Lengths: 48" - 114" (1,219mm - 2,895mm)
- » Optional Mounting Brackets

SPECIFICATIONS

Belt Widths		Blade Width				Pole Length				Tensioner(s)
		Belt Width -8"		Belt Width -2"		Standard		XL		
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	qty
EXTERRA SFL PRIMARY BELT CLEANER SPECIFICATIONS										
18"	457	10"	254	16"	406	48"	1,219	60"	1,524	1
24"	609	16"	406	22"	558	54"	1,371	66"	1,676	1
30"	762	22"	558	28"	711	60"	1,524	72"	1,828	1
36"	914	28"	711	34"	(863	66"	1,676	78"	1,981	1
42"	1,066	34"	863	40"	1,016	72"	1,828	84"	2,133	2
48"	1,219	40"	1,016	46"	1,168	78"	1,981	90"	2,286	2
54"	1,371	46"	1,168	52"	1,320	84"	2,133	96"	2,438	2
60"	1,524	52"	1,320	58"	1,473	90"	2,286	102"	2,590	2
66"	1,676	58"	1,473	64"	1,625	96"	2,438	108"	2,743	2
72"	1,828	64"	1,625	70"	1,778	102"	2,590	114"	2,895	2

PART NUMBER GUIDE

Product

Belt Width

Blade Width

Pole Length

SAMPLE PART NUMBER: SFLPN-182048

FEATURES

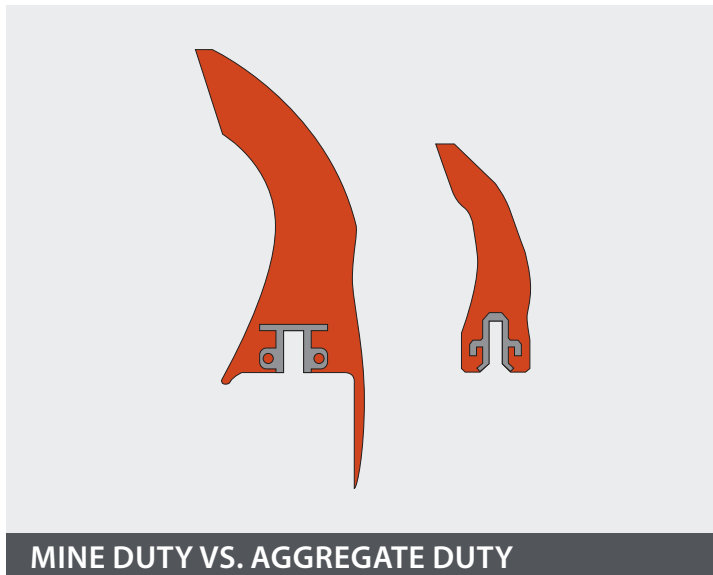


- 01/ Patented SFL tensioner
- 02/ Universally-designed mounting
- 03/ Beefy, long lasting blade
- 04/ Heavy duty mounting pole



MINE DUTY EXTERRA® PRIMARY BELT CLEANER

Extra Bulky Blade For Long Lasting Cleaning in Heaviest Applications



MINE DUTY VS. AGGREGATE DUTY

BENEFITS

- » SFL technology requires one time tensioning at installation
- » Tension is automatically maintained until blade replacement
- » 3-piece pole system eases install in chutes and tight spaces
- » Segmented blades conform to belt for effective cleaning
- » Exceptional performances on larger pulley assemblies

SPECIFICATIONS

- » Mine Duty
- » Left, Right and Dual Tensioner
- » Blade Widths: 24" - 108" (609mm - 2,743mm)
- » Material Widths: Belt Width -6" (-152mm)
- » Pole Lengths: 45" - 133" (1,143mm - 3,378mm)
- » Pulley Diameter: 20" up to 84" (508mm - 2,133mm)

SPECIFICATIONS

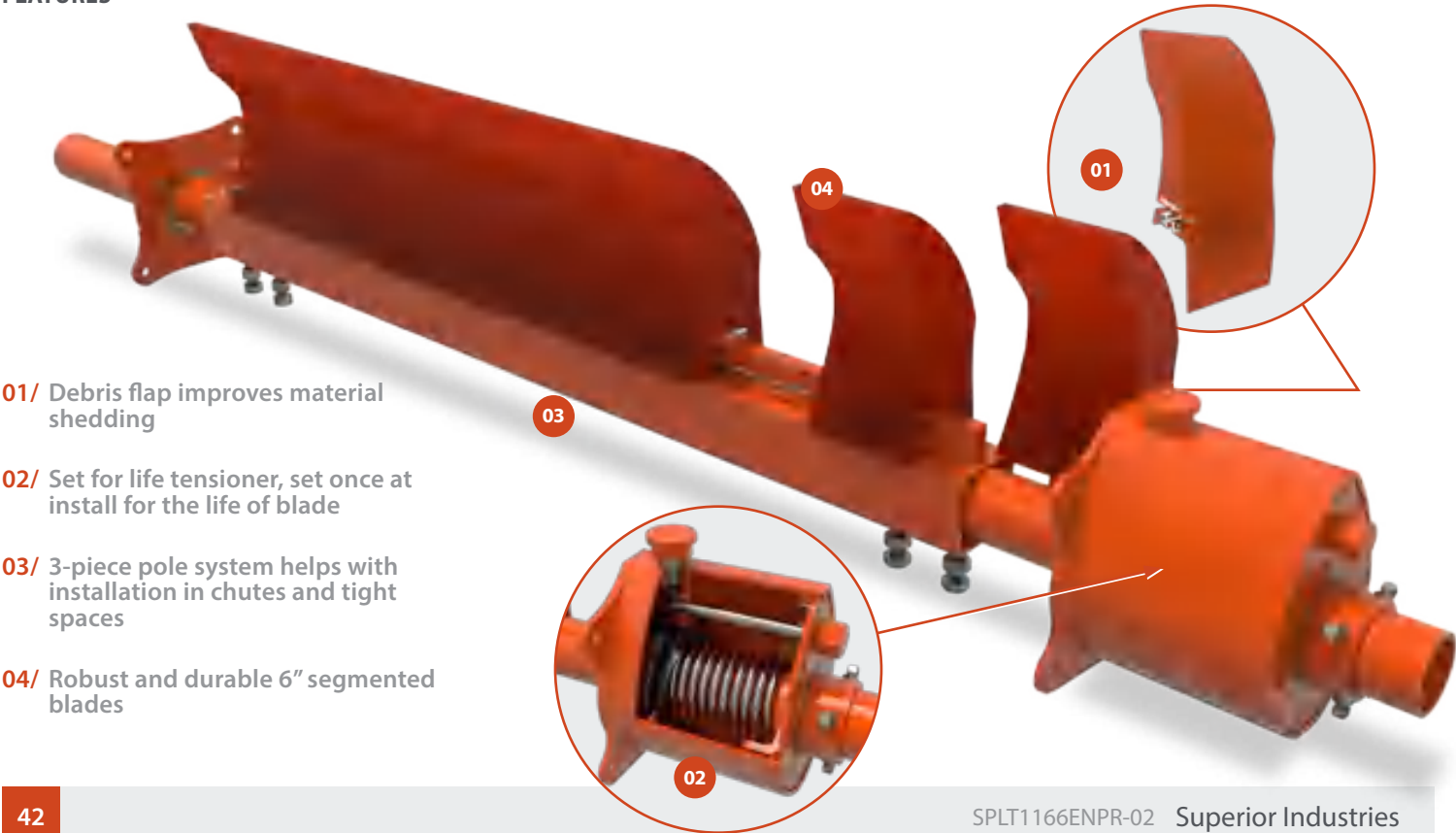
BELT WIDTHS inch (mm)	BLADE WIDTH [INCH (MM)]	POLE LENGTH [INCH (MM)]		TENSIONER QUANTITY
	Belt Width -6"	Standard	XL	
24" (609)	18" (457)	45" (1,143)	69 (1,752)	1
30" (762)	24" (609)	51" (1,295)	75 (1,905)	1
36" (914)	30" (762)	57" (1,447)	81 (2,057)	1
42" (1,066)	36" (914)	75" (1,905)	99 (2,514)	1
48" (1,219)	42" (1,066)	81" (2,057)	105 (2,667)	1
54" (1,371)	48" (1,219)	85" (2,159)	109 (2,768)	1
60" (1,524)	54" (1,371)	89" (2,260)	113 (2,870)	1
66" (1,676)	60" (1,524)	93" (2,362)	Custom Order	1
72" (1,828)	66" (1,676)	109" (2,768)	Custom Order	1
78" (1,981)	72" (1,828)	113" (2,870)	Custom Order	2
84" (2,133)	78" (1,981)	117" (2,971)	Custom Order	2
96" (2,438)	90" (2,286)	125" (3,175)	Custom Order	2
108" (2,743)	102" (2,590)	133" (3,378)	Custom Order	2

PART NUMBER GUIDE

Example: **PMD-03006L**

Product	Belt Width	Blade Width	Tensioner
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FEATURES





IMPACT BED

Protect Conveyor Belt From Beating of Large Material Lumps



BENEFITS

- » Energy absorbing bars protect belt from falling material
- » Designed with UHMW and high impact SBR rubber
- » Depending on application, wings adjust to 20°, 35° and 45°
- » Rigid, structurally sound frame for extra support
- » Fits well with high capacity application

SPECIFICATIONS

- » Belt Widths: 24" - 72" (609mm - 1,828mm)
- » Lengths: 4' or 5' (1.2m or 1.5m)
- » Standard Duty: Up to 200 lbs/ft (91kg)
- » Medium Duty: Up to 960 lbs/ft (435kg)
- » Engineered Class Designed to Application

SPECIFICATIONS

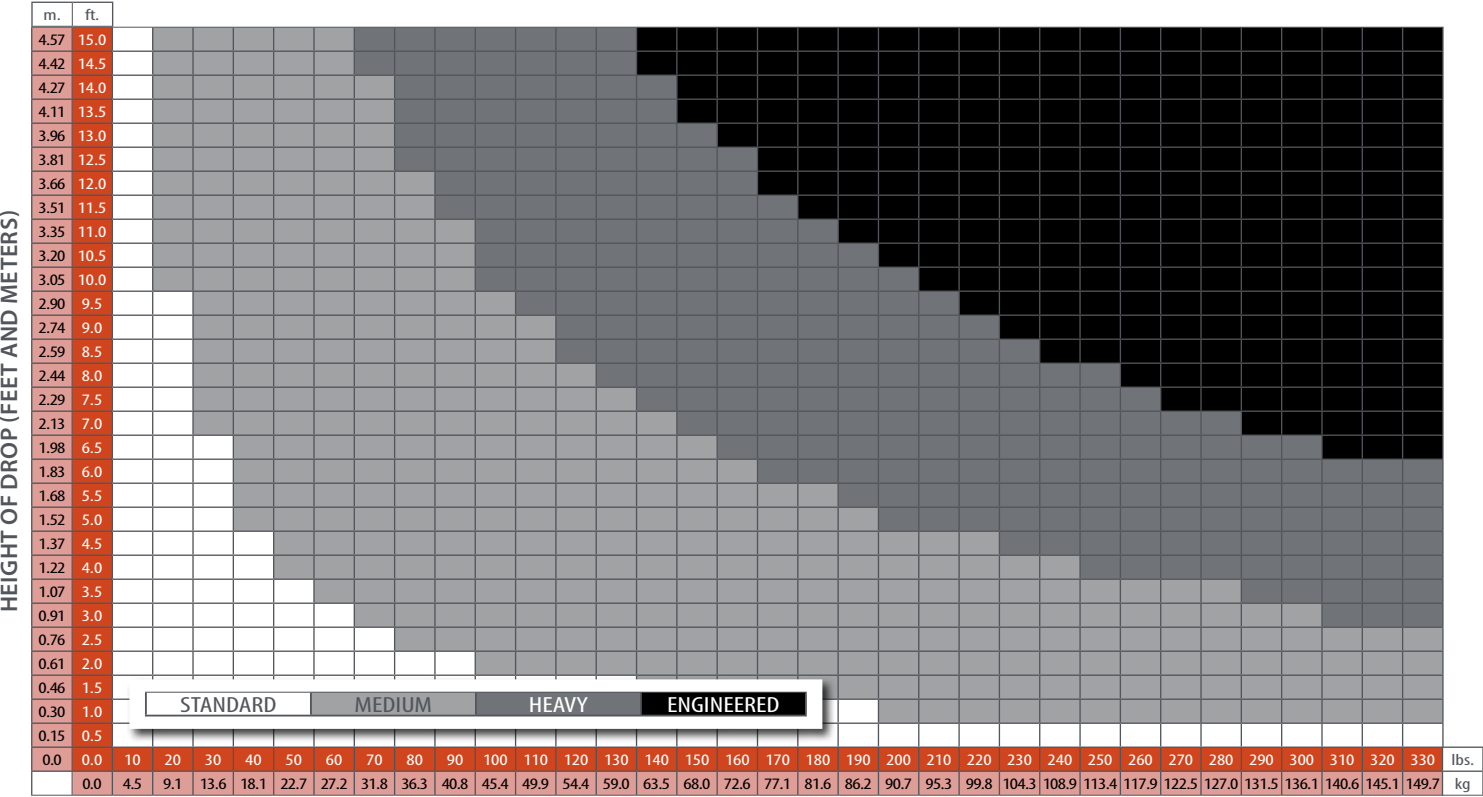
BAR LENGTH inch (mm)	BELT WIDTH inch (mm)
18" (450)	24" - 72" (609-1,828)
48" (1200)	24" - 72" (609-1,828)
60" (1500)	24" - 72" (609-1,828)

PART NUMBER GUIDE

Example: I-C5455-542

Product	CEMA Class	Idler Diameter	Degree	Bed Length	Belt Width	Duty
---------	------------	----------------	--------	------------	------------	------

IMPACT BED SIZING CHART





IMPACT CRADLE

Curved Design Provides Maximum Belt Protection



BENEFITS

- » Curved design eliminates space between belt and bed
- » Additional support prevents tears and other impact damage
- » Urethane segments absorb shock and dissipate contact energy
- » Designed to fit into existing idler mounting footprint
- » Easily replaceable impact bars slide off side of frame.

SPECIFICATIONS

- » Belt Widths: 24" - 72" (609mm - 1,828mm)
- » Length: 12" (304mm)
- » CEMA Classes: C, D and E
- » Diameters: 5" - 7" (127mm - 177mm)
- » Troughing Angles: 20° or 35°

SPECIFICATIONS

CEMA CLASS	DIAMETER inch (mm)	BELT WIDTH inch (mm)	BED LENGTH feet (m)
CEMA C	5", 6" (127, 152)	24" - 60" (609 - 1,524)	12' (3.6)
CEMA D	5", 6" (127, 152)	24" - 72" (609 - 1,828)	12' (3.6)
CEMA E	6", 7" (152, 177)	36" - 84" (914 - 2,133)	12' (3.6)

PART NUMBER GUIDE

Example: IC-C6-35E-42

Product	CEMA Class	Idler Diameter	Degree	Idler Style	Belt Width
---------	------------	----------------	--------	-------------	------------

PHOTO GALLERY





SEALING SYSTEM

Prevents Material Spillage in Load Zones



BENEFITS

- » Maintain tight seal between belt and hopper skirting
- » Eliminate belt sagging and prevent spillage in load zones
- » Cartridges retrofit to existing idler frames
- » Quick installation saves time and cuts costs

SPECIFICATIONS

- » Fit to CEMA C or D idler frames
- » 5" (127mm) cartridges
- » 10" (254mm) cartridges
- » Belt Widths: 24" - 72" (609mm - 1,828mm)

SPECIFICATIONS

FULL SEALING SYSTEM				
Roll Diameter (inch)	Steel Roll Center Roll		Impact Cushion Center Roll	
	Double Cartridge	Slide Bars	Double Cartridge	Slide Bars
C-5" (127mm)	C5S-20E-(24-72)-410	C5S-20E-(24-72)-448	C5S-20EI-(24-72)-410	C5S-20EI-(24-72)-448
C-6" (152mm)	C6S-20E-(24-72)-410	C6S-20E-(24-72)-448	C6S-20EI-(24-72)-410	C6S-20EI-(24-72)-448
D-5" (127mm)	D5S-20E-(24-72)-410	D5S-20E-(24-72)-448	D5S-20EI-(24-72)-410	D5S-20EI-(24-72)-448
D-6" (152mm)	D6S-20E-(24-72)-410	D6S-20E-(24-72)-448	D6S-20EI-(24-72)-410	D6S-20EI-(24-72)-448

REPLACEMENT CARTRIDGES			
Double Cartridges		Seal Bar	
5" (127mm)	6" (152mm)	48" (1,219mm)	60" (1,524mm)
D5S-(24-72)-2	D6S-(24-72)-2	38-000026	38-000027

PART NUMBER GUIDE

Example: **C5S-20E-36-410**

CEMA Class	Idler Diameter	Product	Degree	Idler Style	Belt Width	Number of Frames	Cartridge Type
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STYLES

105 (1) Frame (1) Single Cartridge

110 (1) Frame (1) Double Cartridge

410 (4) Frames (1) Double Cartridge/Frame

TYPES

E Steel Roll

EI Impact Roll

SEALING CARTRIDGES OPTIONS

Sealing Style

» Sealing Cartridge (5" or 10" ,
(127mm or 254mm)

Idler Frame

» CEMA C

» CEMA D

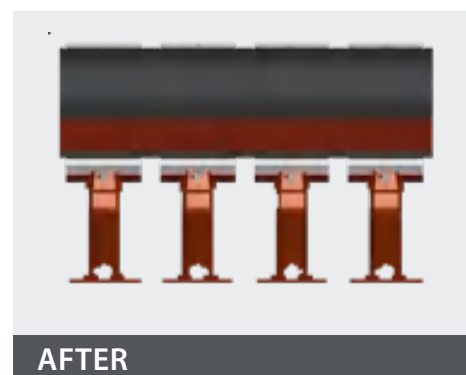
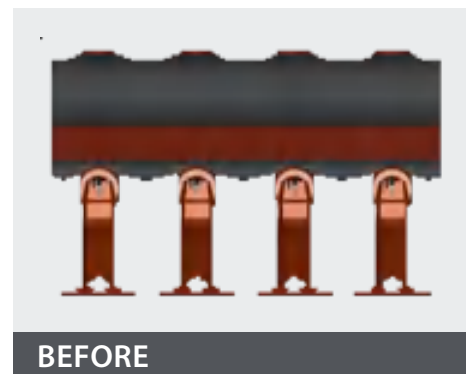
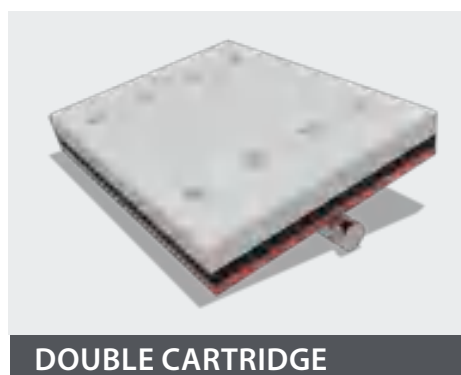
HOW IT WORKS

Before

» Belt sags between rolls producing gap

After

» Sealing system prevents gapping for
no spillage





SLIDER BED

Prevents Material Spillage in Load Zones



BENEFITS

- » Maintains a continuous tight seal between belt and hopper skirting
- » Eliminate belt sagging and prevent spillage in load zones
- » Upgrade to impact rolls for improved impact absorption

SPECIFICATIONS

- » Fit to CEMA C or D idler frames
- » 48" (1,219mm) or 60" (1,524mm) bars
- » Belt Widths: 24" - 72" (600mm - 1,800mm)

SPECIFICATIONS

ROLL DIAMETER inch	BELT WIDTH inch (mm)
C-5" (127mm)	24"-72" (600-1800)
C-6" (152mm)	24"-72" (600-1800)
D-5" (127mm)	24"-72" (600-1800)
D-6" (152mm)	24"-72" (600-1800)

PART NUMBER GUIDE

Example: **C5S-20E-36-448**

CEMA Class	Idler Diameter	Product	Degree	Idler Style	Belt Width	Number of Frames	Bed Length
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TYPES

- E Steel Roll
- EI Impact Roll

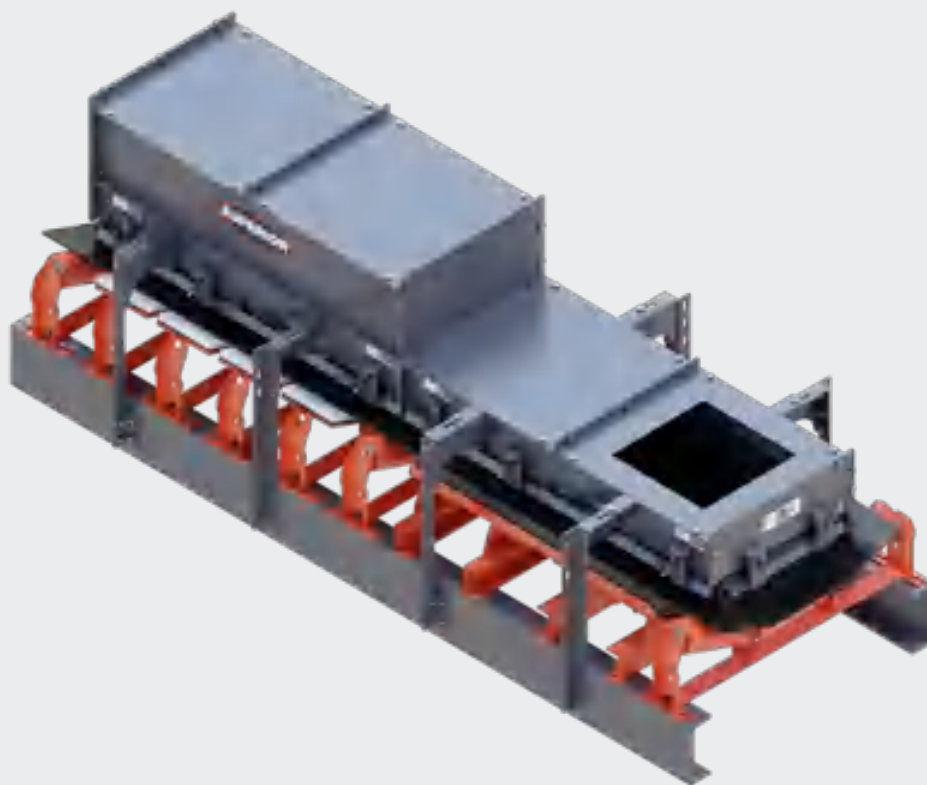
STYLES

- 448 (4) Frames (4) 4-ft Bars
- 560 (5) Frames (5) 5-ft Bars

SEALING BARS OPTIONS

- Center Idler Roll
- » Standard Steel
- » Impact Roll





CONVEYOR SKIRTING SYSTEMS

Dust Containment System Keeps Material on the Belt, Not in the Air or on the Ground

FEATURES

- » Easy enough for you to install on your own without the help of an outside contractor
- » Retrofits to most existing conveyors with little field fabrication required
- » Unique design of stilling zone encourages further dust settling in load zone
- » Adjustable components like legs and clamps for maximum sealing in all environments

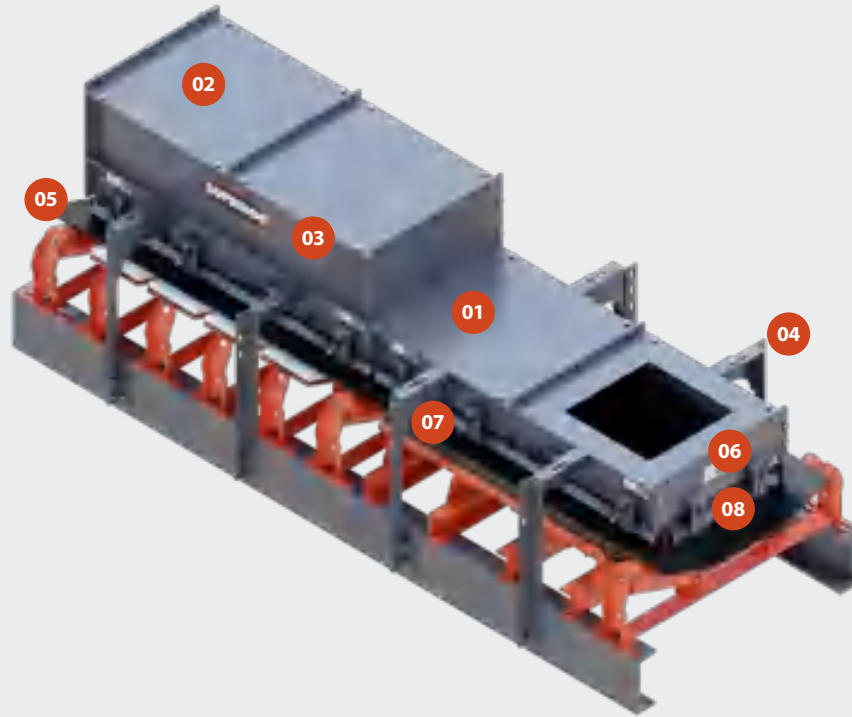


STILLING BOX SECTION

AVAILABLE FOR BELT WIDTHS:

inches	mm	inches	mm
18	457	48	1219
24	609	54	1371
30	762	60	1524
36	914	66	1676
42	1066	72	1828

FEATURES



01/ DUST CONTAINMENT

Keeps material on the conveyor belt. Reduces respirable airborne dust.

02/ STILLING ZONE

Provides more time for dust to settle on the conveyor belt

03/ INTERNAL DUST BAFFLES

Increased dust settling through the stilling zone.

04/ ADJUSTABLE LEGS

Allows for better fit to the system.

05/ SKIRTING RUBBER

Different options to suit the application.

06/ TAIL SEALING SECTION

Keeps “tumbling and swirling material” from exiting the skirting as spillage, or from being trapped under the skirting.

07/ SKIRT CLAMPING SYSTEM

Clamping system is easier to make adjustments than bolt-on systems.

08/ WEDGE CLAMP

Low cost , easy to adjust clamping system. No nuts to seize. Also easier and faster to use than wedge clamp. No tools required to adjust skirting.



SINGLE SIDE GUARD

RETURN ROLL GUARDS

Conveyor Pinch Point Protection



DUAL RETURN ROLL GUARD

BENEFITS

- » Meet safety regulations for guarding moving parts
- » Pinch point protection from return rolls
- » Multiple models depending on application or MSHA guidance

SAFETY SOLUTION OPTIONS



RETURN IDLER CAGE

Belt Width inch (mm)	Part Number	Belt Width inch (mm)	Part Number
18" (457)	44-500018	54" (1,372)	44-500054
24" (609)	44-500024	60" (1,524)	44-500060
30" (762)	44-500030	72" (1,829)	44-500072
36" (914)	44-500036	84" (2,134)	44-500084
42" (1,067)	44-500042	96" (2,438)	44-500096
48" (1,219)	44-500048		



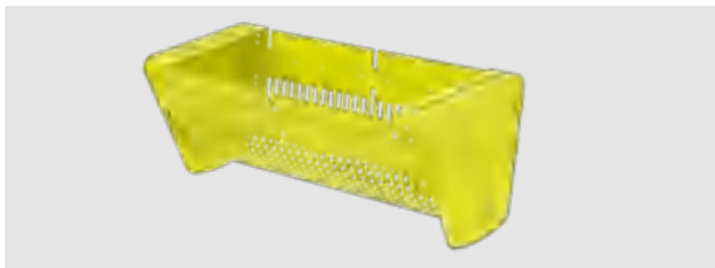
RETURN IDLER BASKET

Belt Width inch (mm)	Part Number	Belt Width inch (mm)	Part Number
18" (457)	44-600018	54" (1,372)	44-600054
24" (609)	44-600024	60" (1,524)	44-600060
30" (762)	44-600030	72" (1,829)	44-600072
36" (914)	44-600036	84" (2,134)	44-600084
42" (1,067)	44-600042	96" (2,438)	44-600096
48" (1,219)	44-600048		



SINGLE SIDE GUARD

Belt Width inch (mm)	Part Number	Belt Width inch (mm)	Part Number
18" (457)	44-050118	48" (1,219)	44-050148
24" (609)	44-050124	54" (1,372)	44-050154
30" (762)	44-050130	60" (1,524)	44-050160
36" (914)	44-050136	72" (1,829)	44-050172
42" (1,067)	44-050142		



SHIELDALL™ RETURN GUARD

Belt Width inch (mm)	Part Number	Belt Width inch (mm)	Part Number
18" (457)	44-040118	54" (1,372)	44-040154
24" (609)	44-040124	60" (1,524)	44-040160
30" (762)	44-040130	66" (1,676)	44-040166
36" (914)	44-040136	72" (1,829)	44-040172
42" (1,067)	44-040142	84" (2,134)	44-040184
48" (1,219)	44-040148	96" (2,438)	44-040196

SPECIFICATIONS

Feature	ShieldAll Return Guard	Return Idler Cage	Return Idler Basket	Single Side Guard
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	●	○	○	●



FLEXIBLE GUARD PANELS

Simple to Install Safety Solution



BENEFITS

- » Stock on-site for quick fix after MSHA visit
- » Easily cut to any size or shape
- » Packaged with self-tapping screws and washers
- » UV resistant and yellow for easy detection

SPECIFICATIONS

- » Mesh Size: 1/4" (6.35mm) or 3/4" (19.05mm)
- » Roll Lengths: 100' x 4' (30m x 1.2m) or 50' x 4' (15m x 1.2m)
- » Steel mesh available in 4' x 5' (1.2m x 1.5m) sheets



SAFETY HANDRAIL

Patented Simple Solution Prevents Entanglement in Belting



BENEFITS

- » Economic solution requires no time consuming wiring
- » Use in place of e-stop cable (depending on local MSHA standards)
- » Universally mounts to all idler frames
- » Ships with all installation hardware

SPECIFICATIONS

- » Length: 10' (3.0m)
- » Diameter: 1-1/4" (31mm)
- » Bracket recommended every 8'-10' (2.4m-3.0m)



CONVEYOR TAKE-UPS

Accurately Maintain Belt Tension to Prevent Drive Slippage and Reduce Excessive Belt Sag



BENEFITS

- » ACME rod with wider threads for reliable performance in dirty, dusty environments
- » Long-lasting powder coat finish
- » Six models to cover many applications
- » Inventory at our factories for quick delivery
- » Universally designed dimensions and bolt holes for easy replacement

APPLICATION

- » Typically installed on conveyors less than 150'
- » Portable conveyors



TELESCOPING TUBE (TUTT)

- » Four bolt design easily attaches to frame
- » Designed for installation in tight locations
- » Tube protects rod from damage



WIDE SLOT (TUWS)

- » Compact frame for installation in tight locations
- » Designed for light duty to medium duty conveyors
- » Optional MSHA approved cover



LIGHT DUTY (TULD)

- » Narrow frame for installation in tight locations
- » Designed for light to medium duty conveyors



HEAVY DUTY (TUHD)

- » Narrow frame for installation in tight locations
- » Designed for short heavy duty conveyors



TOP ANGLE (TUTA)

- » Rod protected from falling material
- » Designed for short heavy duty conveyors



CENTER PULL (TUCP)

- » Designed for short heavy duty conveyors with high belt tension requirements

TAKE-UP SELECTION GUIDE

STEP 1 - DETERMINE TAKE-UP STYLE

	Bearing Style			Mounting Position	
	Pillow Block	Wide Slot	Top Angle	Top	Side
TUTT (Telescoping Tube)	X				X
TUWS (Wide Slot)		X			X
TULD (Light Duty)	X			X	
TUHD (Heavy Duty)	X			X	
TUTA (Top Angle)			X	X	
TUCP (Center Pull)		X		X	

STEP 2 - DETERMINE BEARING BORE BASED ON PULLEY SHAFT SIZE

	1"	2"	3"	4"	5"	6"	7"	8"	9"
TUTT	1/2" - 6"								
TUWS	1/2" - 3"								
TULD	1/2" - 3-7/16"								
TUHD	1-7/16" - 9"								
TUTA	1-15/16" - 3-15/16"								
TUCP	1-7/16" - 4-15/16"								

STEP 3 - DETERMINE BEARING TYPE AND SERIES

		Dodge	Rexnord	Link-Belt	SKF	SealMaster	Browning
TUTT	Pillow Block	SC, SCM, S-2000, Type E, Imperial	ZA, ZEP	PB22400, EPB22400, PB22500, EPB22500, PB22600, EPB22600, U200, U300	SY, SYM, SYR, SYE	NP, SP, MP, USRB5000, USRB5000A	VPS, SPB1000, PB900, PBE920
TUWS	Wide Slot Ball Bearing	WSTU-SC, WSTU-SCM				ST, MST	VTWS
TULD	Pillow Block	SC, SCM, S-2000, Imperial	ZA	PB22400, PB22500, PB22600, U200, U300	SY, SYM, SYR	NP, SP, MP, USRB5000, USRB5000A	VPS, SPB1000
TUHD	Pillow Block	S-2000, Imperial, USAF, SAF-XT, SAFS, Type E, Type K, TAF, Double-InterLock, Special Duty, Type C	ZA, ZAF, ZEP, ZP	PB22400, EPB22400, PB22500, EPB22500, PB22600, EPB22600, PLB, PKLB	SYR, SYE, SAF22500, SAF22600	RPB, ERPB, RPBXT, USRB5000, USRB5000A, USRB5500	SPB1000, PB900, PBE920, PB950, PB970, SPB22500
TUTA	Top Angle Roller or Ball Bearing	Type E (TPE), Type G (SC), Type GM (SCM), S-2000		ETPB22400		USTA5000, USTA5000A	
TUCP	Wide Slot Roller Bearing	Type E (WSTU-E), S-2000 (WSTU-S2)	ZT-2000, ZT-5000	TB22400, TB22600		USTU5000	TUE920, STU1000

STEP 4 - DETERMINE TRAVEL LENGTH BASED ON CONVEYOR LENGTH

Length of Conveyor	10'	20'	25'	50'	75'	100'	125'	150'	175'	200'	225'
Take-Up Travel Length (-3% Stretch)	4"	7"	9"	18"	27"	36"	45"	54"	63"	72"	81"

SPECIFICATIONS

CONVEYOR TAKE-UP	BEARING STYLE	MOUNTING POSITION	TRAVEL DISTANCE	MAX CONVEYOR LENGTH
TUTT	Pillow Block	Side	3" - 60"	133'
TUWS	Wide Slot	Side	1-1/2" - 30"	83'
TULD	Pillow Block	Top	6" - 48"	133'
TUHD	Pillow Block	Top	12" - 60"	166'
TUTA	Top Angle	Top	12" - 48"	133'
TUCP	Wide Slot	Top	12" - 42"	116'

FULLY-STOCKED WAREHOUSES



- » Same day ship out on popular sizes
- » Take up frame and bearing included in kits



BELT COVERS

Rigid, Corrugated Construction Is Infinitely Stronger Than Smooth Covers



BENEFITS

- » Sturdy 22-gauge, corrugated steel
- » Folded edges for double thickness and safe handling
- » Installation not dependent on idler frame
- » Wide range of materials to cover any application

SPECIFICATIONS

- » Belt Widths: 24" (609mm) - 72" (1,800mm)
- » Cover Lengths:
 - » Full Covers: 48" (1,219mm)
 - » Partial Covers: 42" (1,066mm) and 18" (457mm) supports
- » Standards: Full, 3/4 and 1/2

OPTIONS

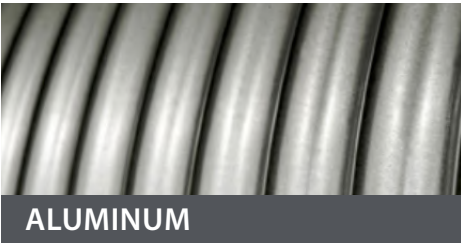
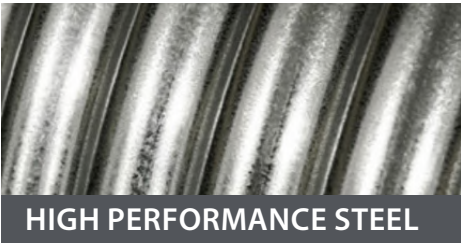


COVER STYLES

STYLE	COVER LENGTH
Full Cover	48" (1,219mm)
3/4 Cover	42" (1,066mm) and 18" (457mm) supports
1/2 Cover	42" (1,066mm) and 18" (457mm) supports
Full Cover w/Window	48" (1,219mm)
Full Low Profile	48" (1,219mm)

COVER MATERIAL

MATERIAL	RATING
(1) Galvanized	Approved corrosive resistance in nearly every environment.
(2) Lacquered Steel	Colored to blend in with surroundings or branding.
(3) HPS 200	Fiber reinforced polyester, colored covers for highly corrosive environments.
(4) Stainless Steel	Highly corrosive environments.
(5) Aluminum	Lightest weight material for easy manipulation.
(6) Fiberglass	Avoid contamination in the food industries.





CLEAN SIDE ROLL INSTALLATION

BELT SPEED SENSOR

Instantly Alert Operators of Problems and Increase Productivity



TROUGHING ROLL INSTALLATION

BENEFITS

- » Sensor sealed inside roll for protection
- » Electronic pulses interpreted by PLC or speed sensor module
- » Control shutdowns, monitor slippage or trigger warnings

SPECIFICATIONS

- » Mounting Options: Clean, Return or Carry Side Idlers
- » Belt Widths: 24" - 72" (609 - 1,828mm)
- » Classes: CEMA C or D
- » Available in DC or AC/DC
 - » AC/DC available in 1, 2, and 6 pulse
 - » DC only available in 4 pulse



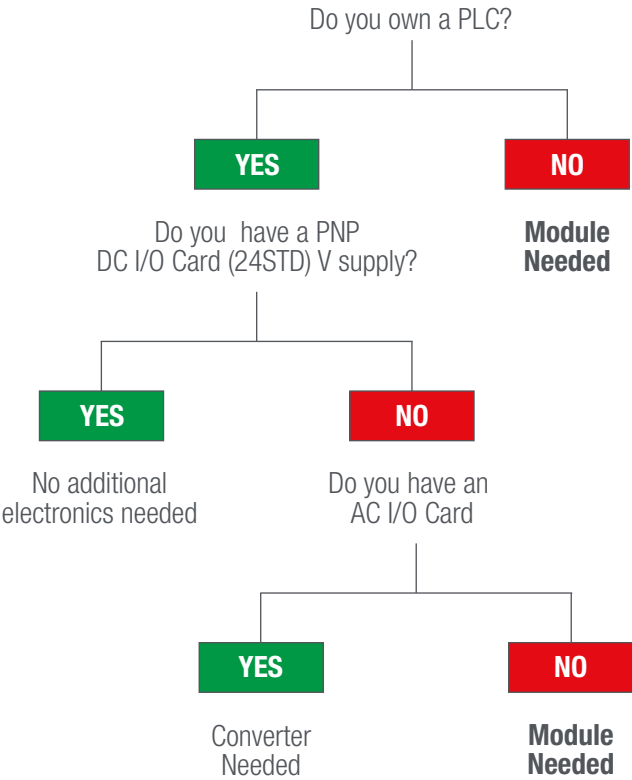
SPEED SENSOR MODULE

- » Sensors require module shown or existing PLC
- » Acts as zero (or low) speed sensor or indicator
- » Integrate with lights, alarms or cut off switches
- » 120 VAC, 240VAC or 24VDC
- » (2) relay outputs
- » (2) transistor outputs
- » (1) analog 4-20mA output
- » DIN rail mounting
- » Optional metal or polymer enclosure

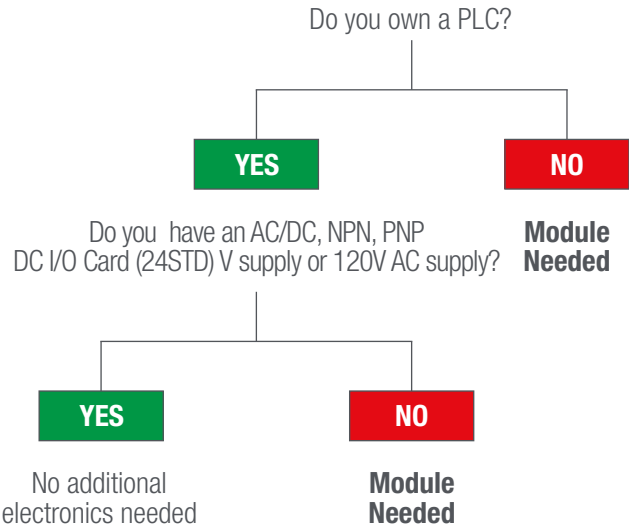
AC/DC COMPATIBLE SPEED ROLL				
Number of Pulses	Speed Feet Per Minute		Range	Applications
	Min.	Max.		
6	5	260	Low	Feeders/Metering
2	10	780	Normal	Normal
1	20	1,560	High	High Speed

DC COMPATIBLE SPEED ROLL				
Number of Pulses	Speed Feet Per Minute		Range	Applications
	Min.	Max.		
4	5	1,560	All	All

DO I NEED A DC ROLL MODULE?



DO I NEED AN AC/DC ROLL MODULE?





BELT SCALE

Accurate, Dependable Monitoring of Production



BENEFITS

- » Flush-mount design means no cutting into conveyor frame
- » Sturdy weighbridge won't wobble or tip
- » Integrator has large, color graphic display
- » Easy to follow scale set up wizard
- » Modular design fits to multiple belt widths
- » Four modes of menu driven calibration

SPECIFICATIONS

- » Accuracy: Up to +/- 1/2%
- » Belt Widths: 18" - 72" (457mm - 1,828mm)
- » Capacity: Up to 3,000 TPH (2,721MTPH)
- » CEMA Class: B, C, D and E

SPECIFICATIONS

STANDARD TECHNICAL DATA	
Accuracy	±1/2%
Belt Width	18" - 72" (457 - 1829mm)
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
Communication port	(2) RS232
Warranty	2 years



JUNCTION BOX

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

- » Four modes of menu driven calibration
 - » Zero calibration
 - » Test weight calibration
 - » Material test calibration
 - » Automatic digital calibration
- » 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



AUTO GREASER

Temperature Independent Automatic Lubrication System



BENEFITS

- » Lengthens life of conveyor components
- » Dispensing rate not affected by ambient temperature
- » Simple handling and setting adjustment
- » Broad range of settings to suit maintenance cycles
- » Suitable for single-point lubrication of roller or sliding bearings

SPECIFICATIONS

- » Ambient Temperature: -4° to 140° F (-20° to 60° C)
- » Discharge Period: 1, 2, 3 ... 12 months
- » Volume: 4.4 oz (130cc)
- » Housing: Transparent Plastic

FEATURES

- 01/ Auto greaser control unit
- 02/ Integrated battery
- 03/ Support flange with 1/4" npt outside thread
- 04/ Gas generating cell
- 05/ Lubricant
- 06/ Display (discharge period + function)
- 07/ Push button programming
- 08/ Reusable control unit



LUBRICATOR CARTRIDGE



CAP

PARTS GUIDE

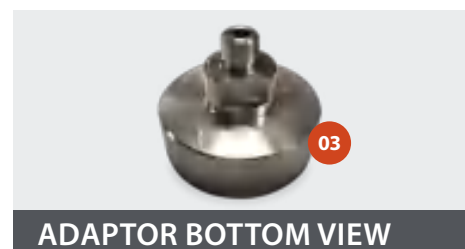
- 01/ Black Pipe Nipple
- 02/ Black tee-Pipe
- 03/ Adapter



45° ELBOW AND 90° TEE



ADAPTOR TOP VIEW



ADAPTOR BOTTOM VIEW



ROCK FACE TO
LOAD OUT

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