



# SpinGuard Seal Technology

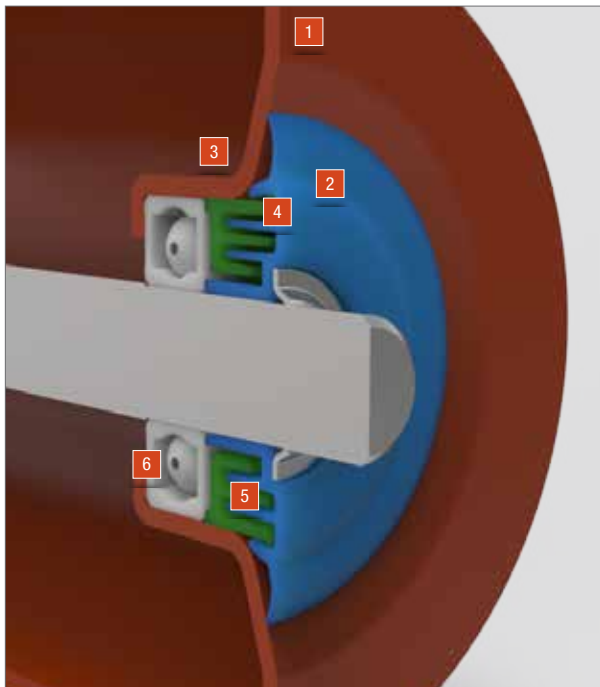


FIG 1.1 SPINGUARD SEAL CUTAWAY

- 1 Flat Surface**
  - ▶ Material will not build up across the flat end disc surface
- 2 Stationary External Seal**
  - ▶ Stationary external seal helps prevent material pinch points between the frame and the end of the roller
- 3 Centrifugal Force Chamber**
  - ▶ Centrifugal force creates a self-cleaning flinger effect, keeping water and dirt out
- 4 Contact Seal**
  - ▶ First defense against contaminants is the contact seal, which creates less drag than a rubber seal
- 5 Triple Labyrinth Seal**
  - ▶ Second defense is the triple labyrinth seal 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 more durable and is less susceptible to corrosion
- 6 Ball Bearing**
  - ▶ Factory sealed metric ball bearing on all CEMA rated idlers

# Idler Features



- 1 Base Plate**
  - ▶ Open end stand design gives better access for single or double bolt hole mounting
- 2 No Pinch Points**
  - ▶ No pinch points between roll and frame means no fugitive material jamming
- 3 Locking Mechanism**
  - ▶ Integrated locking tab or retainer clip holds roll tight to the frame and offers easy roll change out
- 4 Narrow Roll Gap**
  - ▶ No pinch point that leads to belt damage
- 5 Center Stands**
  - ▶ Non-clogging
- 6 Base Angle**
  - ▶ Sheds material, preventing build-up



# Producer Perspective



PLANT SUPT. AT EASTERN COLORADO AGGREGATES, LA JUNTA, CO

## Fugitive Material

“ In the beginning, our plant was stocked by another brand and some of them were lasting just three months! We run a lot of wet sand and they weren't making the cut. ”

## Seal Power

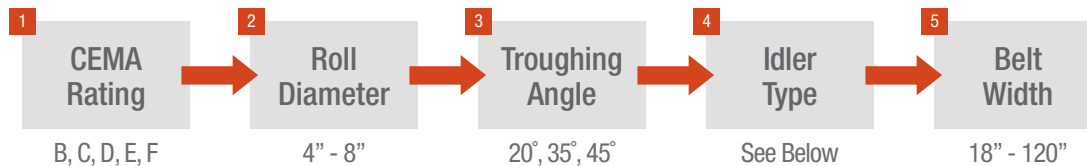
“ With other brands, the problems were directly related to bearing failure. Sand was getting through the seals and into the can. I read about Superior's seal in magazines and now I'm witnessing it! ”

## Competitive Comparison

“ Comparing brand to brand, we get three – sometimes four – times the life with Superior Idlers. They definitely fit the bill! ”

## Part Number Guide

Example: C6-35E-36



### 1 CEMA Rating or Series

- ▶ Specify either CEMA B, C, D, E, or F

### 2 Roll Diameter

- ▶ Specify either 4, 5, 6, 7 or 8 for the roll size diameter

### 3 Troughing Angle

- ▶ Specify either 20, 35, or 45 for the troughing angle

### 4 Idler Type

- ▶ Specify the idler identification letter for the particular idler, you may need from the chart to the right

### 5 Belt Width

- ▶ Specify the belt width

## Idler Type

E: Troughing Idler Equal Length Rolls

EI: Rubber Cushion Troughing Idler

EA: Self-Aligner

BA: Bi-Directional Aligning Idler

RET: Return Idler

FLT: Flat Carrier Idler

FLTI: Flat Carrier Rubber Cushion Idler

RETI: Return Rubber Cushion Idler

RETU: Urathon® Return

RETUSP: Spiral Urathon® Return Roll

RETA: Return Self-Aligning Idler Roll

RETAI: Return Self-Aligning Rubber Cushion Idler

RETV: V-Return Idler

P: Picking Idler Length Rolls

U: Troughing Idler Unequal Length Rolls

CM: Low-Profile Channel Mount Idler

CMI: Channel Mount Impact Low Profile Idler

SM: Low-Profile Standard Mount Idler

SMI: Standard Mount Impact Low Profile Idler

GO: Offset Troughing Idler

EW: Wire Rope Idler

VPE: Variable Pitch Idler

MOX: Moxie® Roll

CB: CB504 Series

LS: Live Shaft

LSB: Live Shaft Beater

# Idler Styles



Products Available in CEMA Rated Idlers					
Idler Style	CEMA B	CEMA C	CEMA D	CEMA E	CEMA F
Equal Troughing	X	X	X	X	X
Moxie® Rolls	–	X	X	–	–
Unequal Troughing	–	X	X	X	X
Feeder/Picking	–	X	X	X	X
Channel Mount Low Profile	X	X	X	–	–
Impact	X	X	X	X	X
Offset Center Roll	X	X	–	–	–
Wire Rope	–	X	X	–	–
Variable Pitch	–	X	X	X	–
V-Return	–	X	X	X	–
Self-Aligner	X	X	X	X	X
Self-Aligning Return	X	X	X	X	–
Live Shaft Return	–	X	X	–	–
Beater Bar	–	X	X	–	–
Flat-Carrier	X	X	X	X	X
Rubber Cushion Flat Carrier	X	X	X	X	–
Steel Return	X	X	X	X	X
Rubber Lagged Return	–	X	X	–	–
Rubber Disc Return	X	X	X	X	–
Urathon® Return Roll	X	X	X	X	–
Spiral Urathon® Return Roll	–	X	X	X	–
Garland Return	–	X	–	–	–