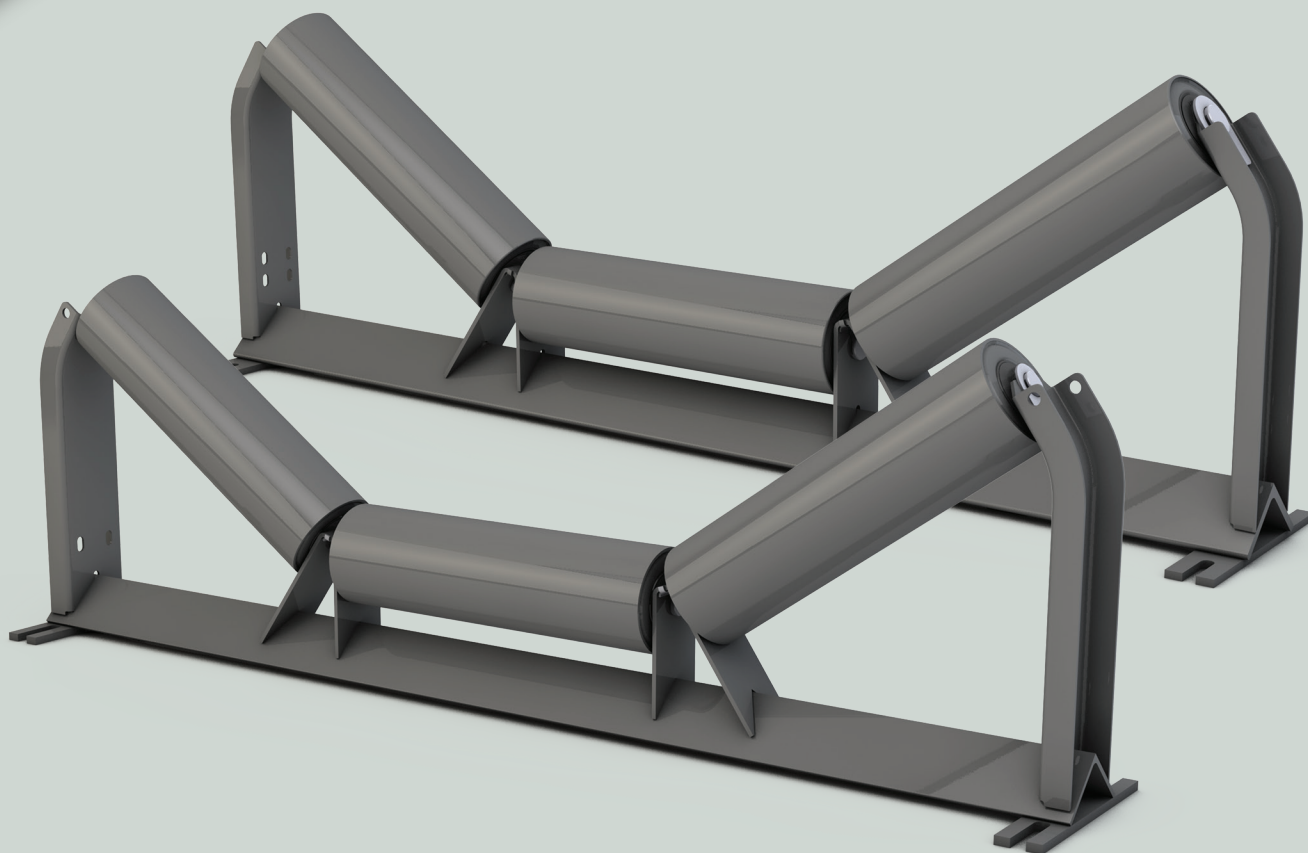


Features & Benefits

# BELT CONVEYOR IDLERS





# B Series Idler Features

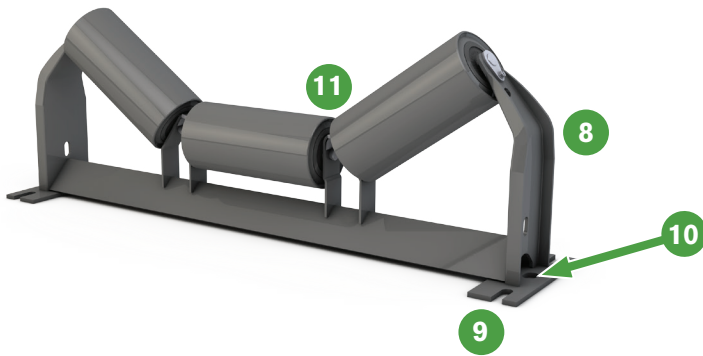
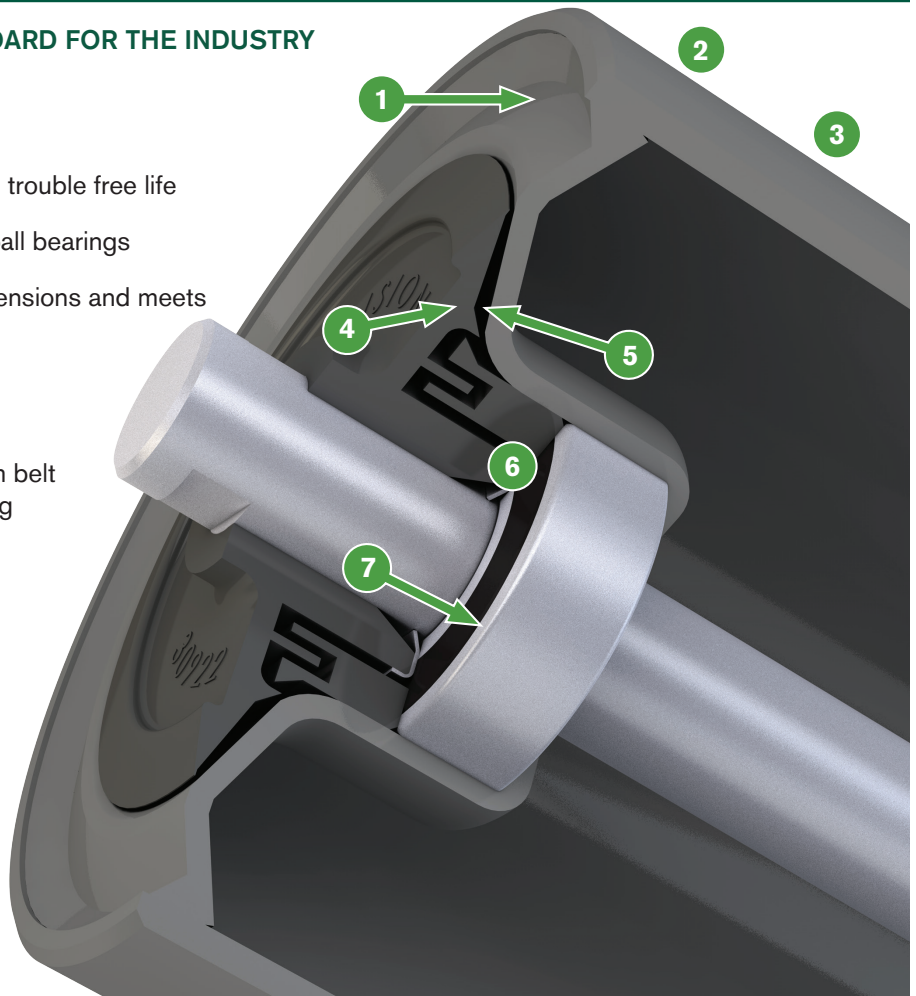
## B SERIES IDLERS THAT SETS A STANDARD FOR THE INDUSTRY

### FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conforms to CEMA standards for dimensions and meets or exceeds B series load ratings

### HIGHLIGHTS

1. End bell to tube welds protected from belt wear by the full thickness of the tubing
2. Full thickness tubing for the length of the roll
3. Low T.I.R. or run-out
4. Large diameter stationary outer seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. High quality ball bearing with manufacturer's contact seals and grease
8. Deep formed channel end brackets



9. Foot pads with two bolt mounting to alleviate frame rocking
10. Single center bolt mounting option
11. Minimal roll gaps

### CEMA B LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	UNEQUAL	
	20°	35°	45°		20°	35°
18	410	410	410	220		
24	410	410	410	190	390	410
30	410	410	410	165	220	390
36	410	410	369	155	190	220
42	390	363	351	140	165	220
48	380	353	342	125	155	190

# C Series Idler Features

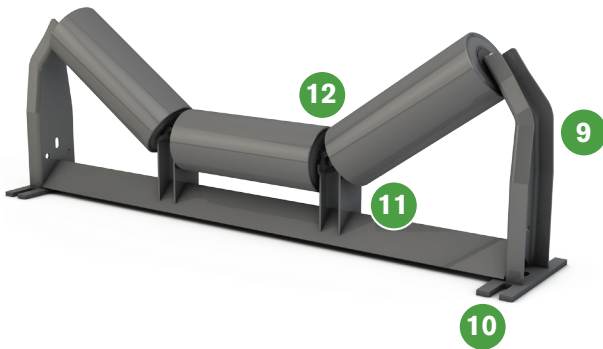
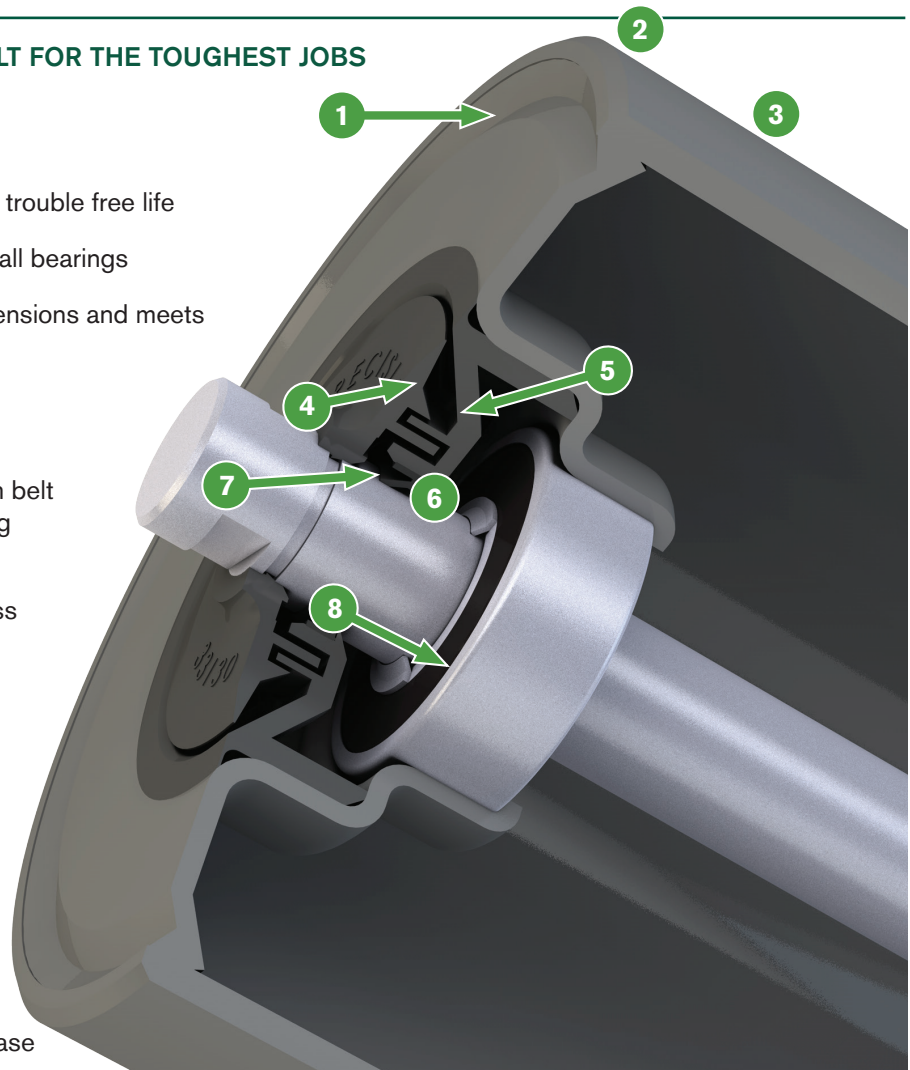
## C SERIES IDLERS DESIGNED AND BUILT FOR THE TOUGHEST JOBS

### FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conforms to CEMA standards for dimensions and meets or exceeds C series load ratings

### HIGHLIGHTS

1. End bell to tube welds protected from belt wear by the full thickness of the tubing
2. Full thickness tubing for the length of the roll with additional wall thickness options available
3. Low T.I.R. or run-out
4. Large diameter stationary outer seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. Long lasting nitrile contact seal protected from the environment
8. High quality ball bearing with manufacturer's contact seals and grease



9. Wide heavy duty formed end brackets
10. Heavy duty foot pads for a solid base
11. Wide center brackets for heavy loads
12. Minimal roll gaps

### CEMA C LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	TWO-ROLL V-RETURNS	UNEQUAL (Picking)	LIVE SHAFT
	20°	35°	45°				
18	900	900	900	475	500	475	1,200
24	900	900	900	325	500	475	1,200
30	900	900	900	250	500	475	1,200
36	900	837	810	200	500	325	1,200
42	850	791	765	150	500	250	1,100
48	800	744	720	125	500	200	1,000
54	750	698	675	CEMA D	500	150	875
60	700	650	630	CEMA D	500	125	780
66				CEMA D	500		

# D Series Idler Features

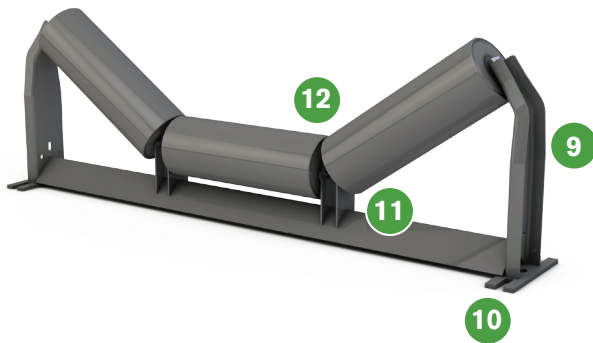
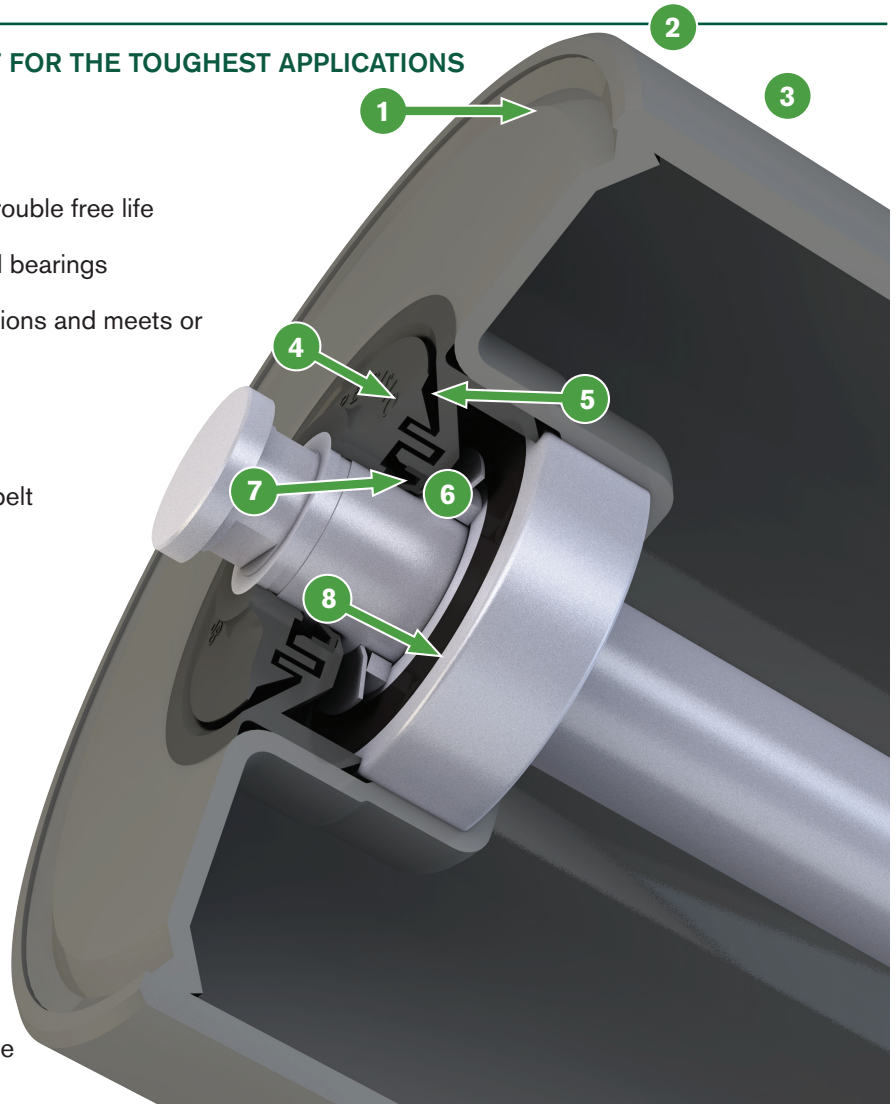
## D SERIES IDLERS DESIGNED AND BUILT FOR THE TOUGHEST APPLICATIONS

### FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conform to CEMA standards for dimensions and meets or exceeds D series load ratings

### HIGHLIGHTS

1. End bell to tube welds protected from belt wear by the full thickness of the tubing
2. Full thickness tubing for the length of the roll with additional wall thickness options available
3. Low T.I.R. or run-out
4. Large diameter stationary outer seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. Long lasting nitrile contact seal protected from the environment
8. High quality ball bearings with manufacturer's contact seals and grease



9. Wide heavy duty formed end brackets
10. Heavy duty foot pads for a solid base
11. Wide center brackets for heavy loads
12. Minimal roll gaps

### CEMA D LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	TWO-ROLL V-RETURNS	UNEQUAL (Picking)	LIVE SHAFT
	20°	35°	45°				
18	1,200	1,200	1,200	600	850	600	1,400
24	1,200	1,200	1,200	600	850	600	1,400
30	1,200	1,200	1,200	600	850	600	1,400
36	1,200	1,200	1,200	600	850	600	1,400
42	1,200	1,200	1,200	500	850	600	1,400
48	1,200	1,200	1,200	425	850	530	1,275
54	1,200	1,116	1,080	375	850	440	1,150
60	1,150	1,070	1,035	280	850	400	1,000
66				215	850		
72	1,050	977	945	155	850	280	850
78				125	850		



# E Series Idler Features

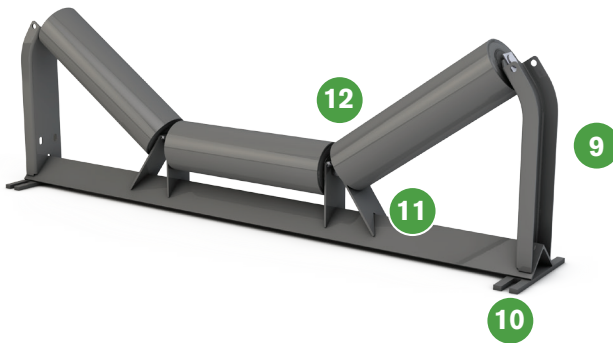
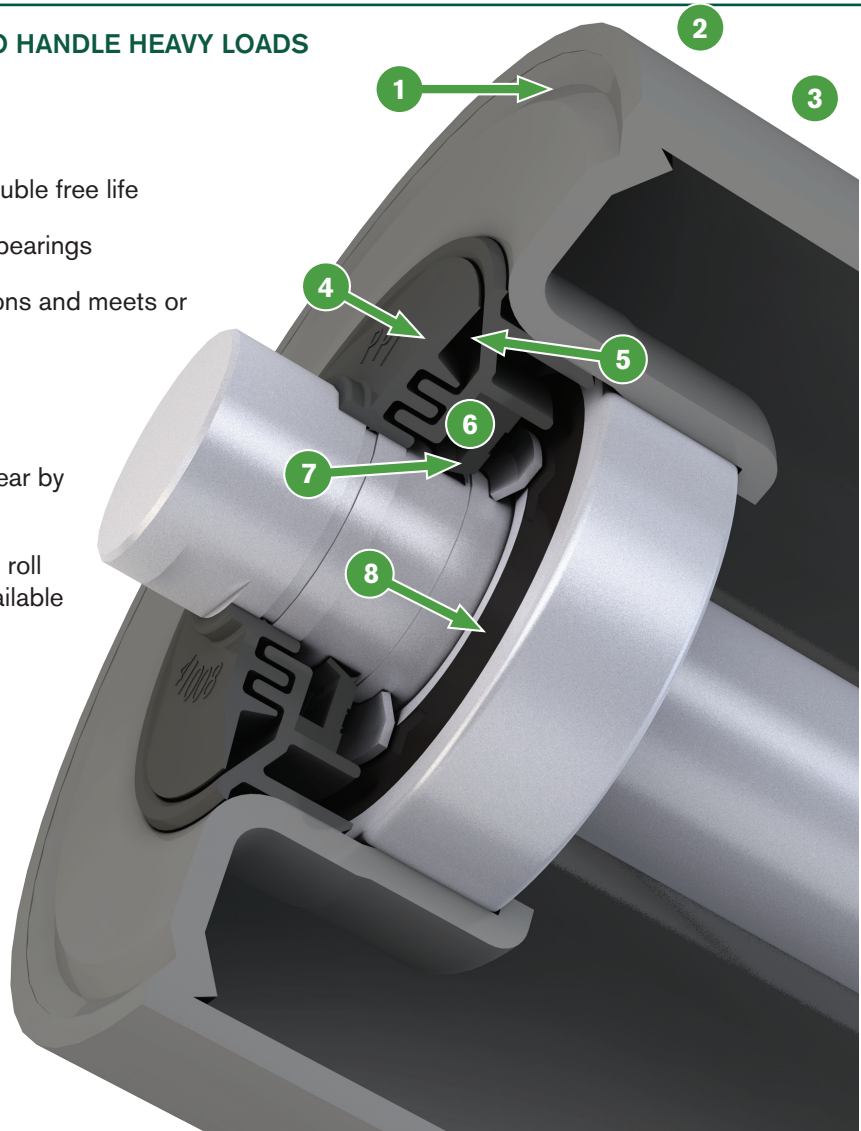
## E SERIES IDLER DESIGNED AND BUILT TO HANDLE HEAVY LOADS

### FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conform to CEMA standards for dimensions and meets or exceeds E series load ratings

### HIGHLIGHTS

1. End bell to tube welds protected from wear by the full thickness of tubing
2. Full thickness tubing for the length of the roll with additional wall thickness options available
3. Low T.I.R. or run-out
4. Large diameter stationary seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. Long lasting nitrile contact seal protected from the environment
8. High quality ball bearings with manufacturer's contact seals and grease



9. Wide heavy duty formed end brackets
10. Heavy duty foot pads for a solid base
11. Wide center brackets for heavy loads
12. Minimal roll gaps

### CEMA E LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	TWO-ROLL V-RETURNS	UNEQUAL (Picking)	LIVE SHAFT
	20°	35°	45°				
36	1,800	1,800	1,800	1,000	1,300	1,260	2,100
42	1,800	1,800	1,800	1,000	1,300	1,200	2,100
48	1,800	1,800	1,800	1,000	1,300	1,000	2,100
54	1,800	1,800	1,800	925	1,300	1,000	2,100
60	1,800	1,800	1,800	850	1,300	1,000	2,100
66	1,800	1,800	1,800	775	1,300	1,000	2,100
72	1,800	1,800	1,800	700	1,300	925	2,100
78				625	1,300		2,100
84	1,800	1,674	1,620	550	1,300	775	1,825
90				475	1,300		
96	1,750	1,628	1,575	400	1,300	625	
102				250	1,300		

# E Plus Series Idler Features

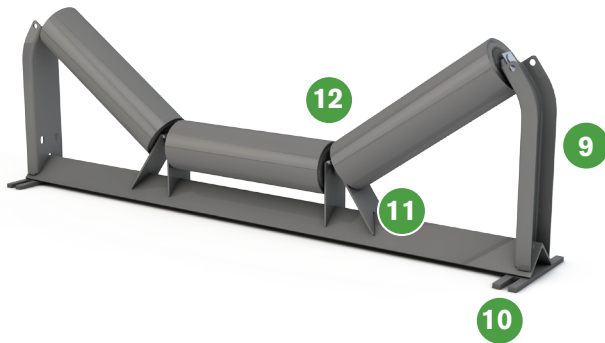
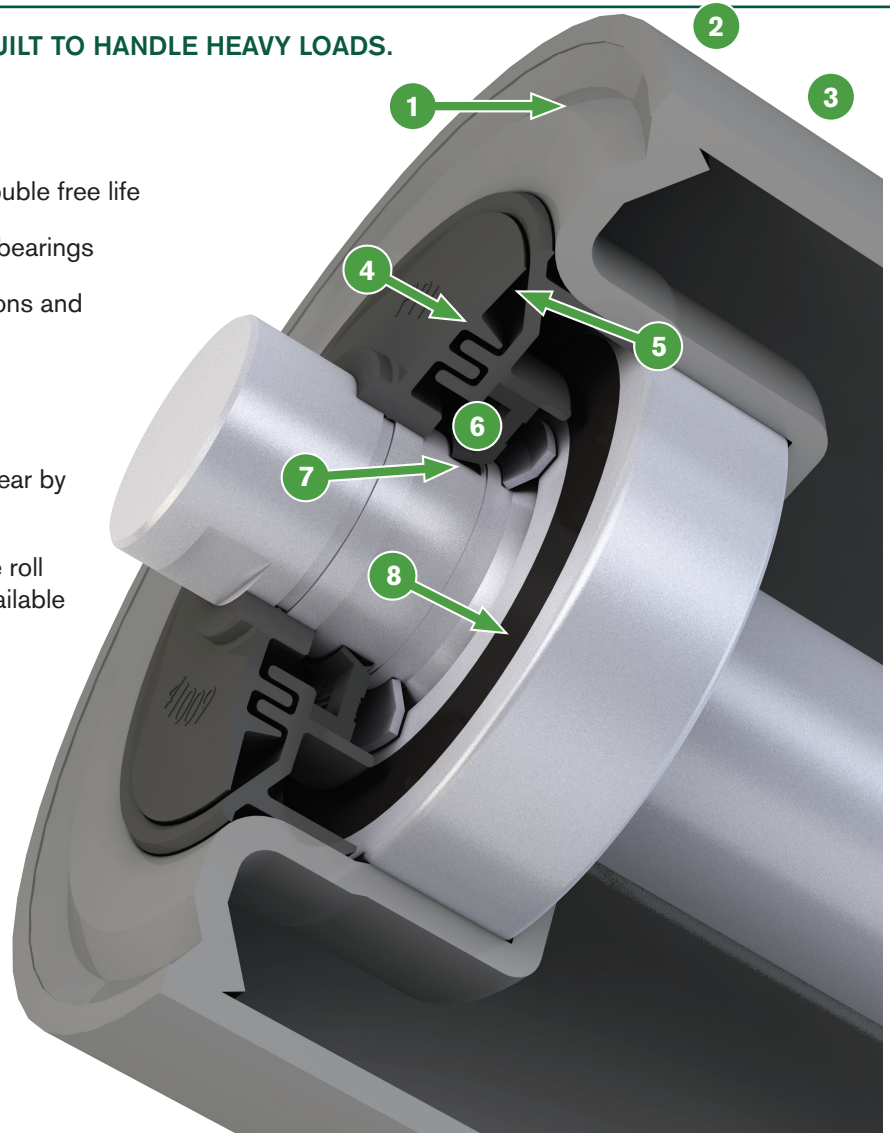
E PLUS SERIES IDLER DESIGNED AND BUILT TO HANDLE HEAVY LOADS.

## FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conform to CEMA standards for dimensions and exceeds E series load ratings

## HIGHLIGHTS

1. End bell to tube welds protected from wear by the full thickness of the tubing
2. Full thickness tubing for the length of the roll with additional wall thickness options available
3. Low T.I.R. or run-out
4. Large diameter stationary seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. Long lasting nitrile contact seal protected from the environment
8. Large diameter, high quality ball bearings to handle the big loads, with manufacturer's contact seals and grease



9. Wide heavy duty formed end brackets
10. Heavy duty foot pads for a solid base
11. Wide center brackets for heavy loads
12. Minimal roll gaps

## PPI E PLUS LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	TWO-ROLL V-RETURN	UNEQUAL (Picking)	LIVE SHAFT
	20°	35°	45°				
36	2,100	2,100	2,100	1,200	1,600	1,495	2,100
42	2,100	2,100	2,100	1,200	1,600	1,440	2,100
48	2,100	2,100	2,100	1,200	1,600	1,200	2,100
54	2,100	2,100	2,100	1,110	1,600	1,200	2,100
60	2,100	2,100	2,100	1,020	1,600	1,200	2,100
66	2,100	2,100	2,100	930	1,600	1,155	2,100
72	2,095	2,095	2,095	840	1,600	1,110	2,100
78	2,095	2,095	2,095	720	1,600	980	2,100
84	2,090	2,090	2,090	605	1,600	850	1,825
90	2,085	2,085	2,085	520	1,600	795	
96	2,080	2,080	2,080	440	1,600	680	
102	2,075	2,075	2,075	275	1,600	510	

# F Series Idler Features

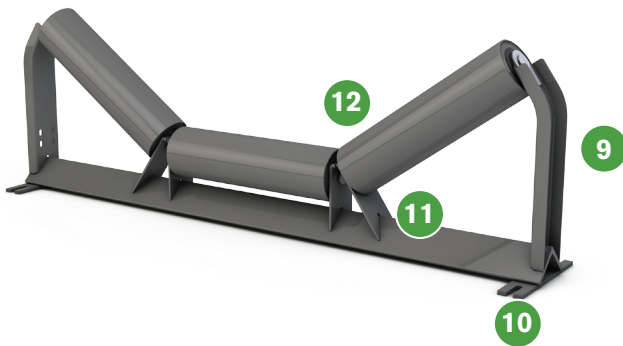
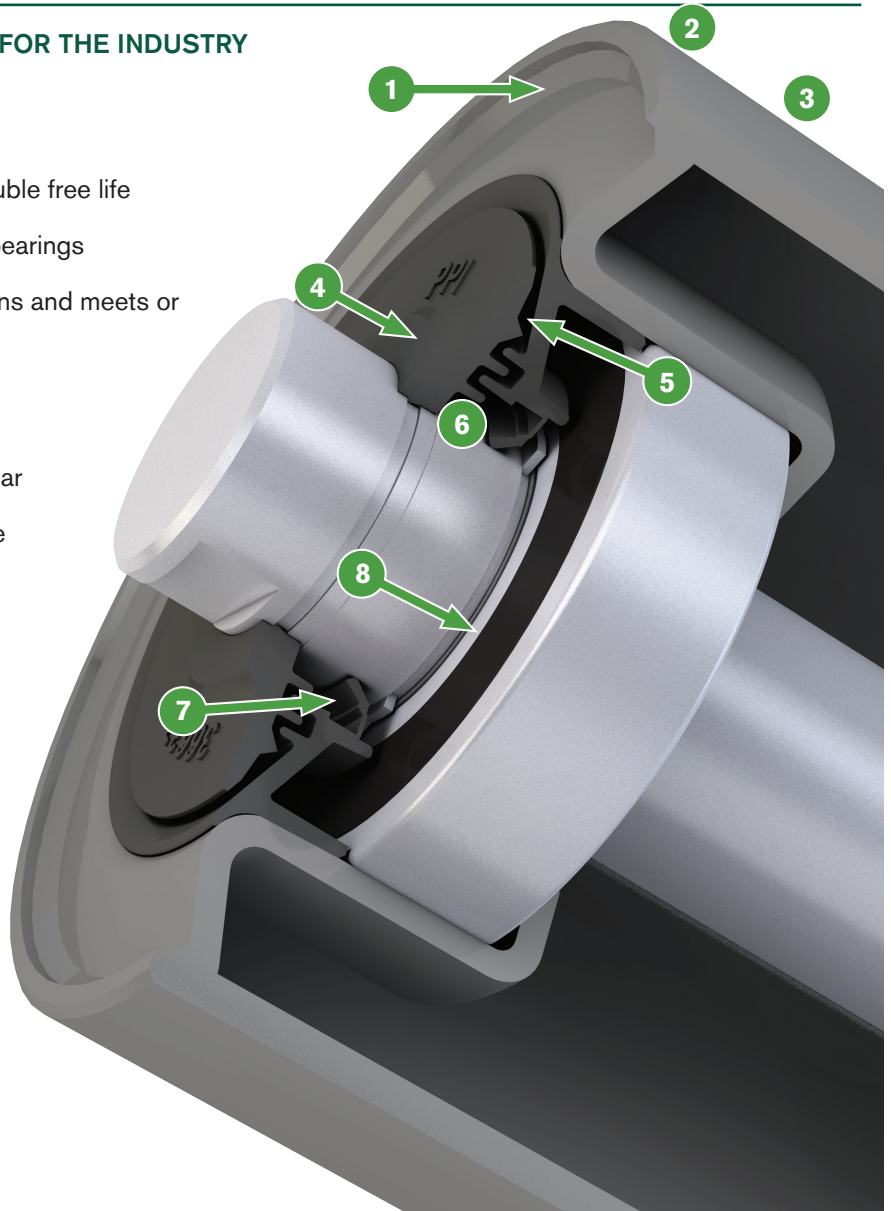
## F SERIES IDLER THAT SETS A STANDARD FOR THE INDUSTRY

### FEATURES

- Designed and manufactured for a long trouble free life
- Maintenance free high quality sealed ball bearings
- Conform to CEMA standards for dimensions and meets or exceeds F series load ratings

### HIGHLIGHTS

1. End bell to tube welds protected from wear
2. Additional wall thickness options available
3. Low T.I.R. or run-out
4. Large diameter stationary seal
5. Highly effective centrifugal seal
6. Effective radial and labyrinth seals
7. Long lasting nitrile contact seal protected from the environment
8. Large diameter, high quality ball bearings to handle the big loads with manufacturer's contact seals and grease



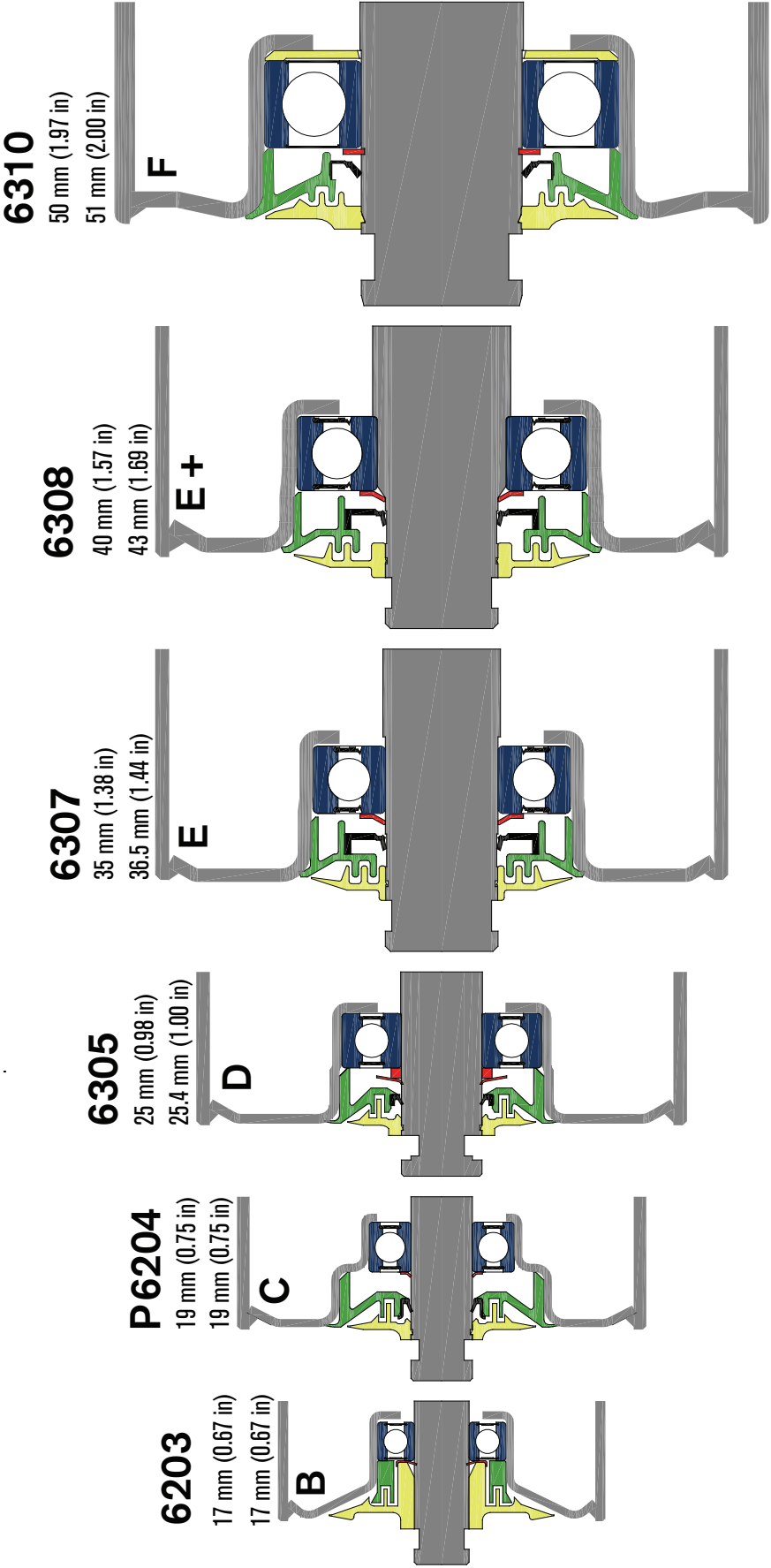
9. Wide heavy duty formed end brackets
10. Heavy duty foot pads for a solid base
11. Wide center brackets for heavy loads
12. Minimal roll gaps

### CEMA F LOAD RATINGS

BELT WIDTH	TROUGHING ANGLE			RETURN & FLAT	TWO-ROLL V-RETURN*	UNEQUAL (Picking)
	20°	35°	45°			
60	3,000	3,000	3,000	1,500	2,100	2,000
66	3,000	3,000	3,000	1,350	2,100	2,000
72	3,000	3,000	3,000	1,200	2,100	1,900
78	3,000	3,000	3,000	1,050	2,100	1,700
84	3,000	3,000	3,000	900	2,100	1,500
90	3,000	3,000	3,000	750	2,100	1,350
96	2,800	2,800	2,800	600	2,100	1,200
102	2,800	2,800	2,800		2,100	1,050
108	2,800	2,800	2,800		2,100	900
114	2,800	2,800	2,800		2,100	750
120	2,800	2,800	2,800		2,100	600
126					2,100	

\*For V>Returns, consider using CEMA E.







### Return Roll Guard

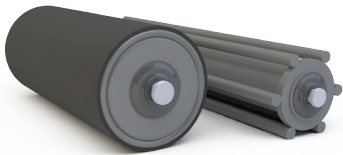
Available for CEMA B, C and D in 1 1/2 & 4 1/2 drop

CIR/CIRW return roll guards also available



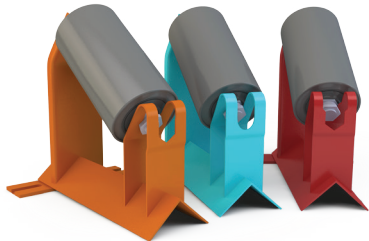
### Impact Products

Extend the life of your belt with rugged multi-action impact absorption that reduces damage to your belt. Available in multiple lengths and reinforced frames for increased strength.



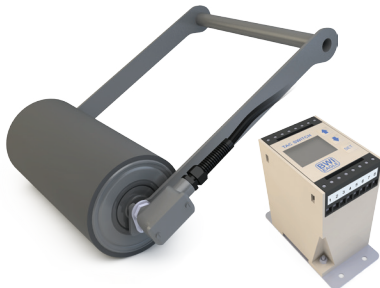
### Specialty Rolls

With Life Xtending Technology, Precision problem solvers reduce buildup and wear with PPI's proven seal design. Beater rolls, lagged idler rolls, poly idler roll covering. Rubber grooved rolls, scale quality rolls, spiral urethane rolls, urethane sleeve rolls and 1/4" wall thickness tubing are a few of the problem solvers PPI has to offer.



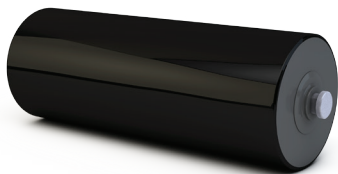
### Retro Rolls™

Fit different brands of CEMA B, C, D, E & F as well as ISO & DIN idler rolls with PPI's proven seal design



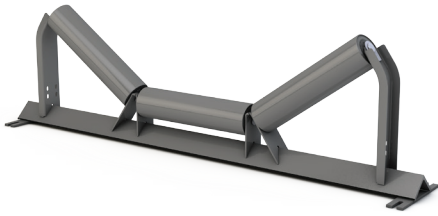
### Smart Roll/Smart Monitor

Belt speed indicator with sensor protection, overload protection, multi-function and maintenance-free for simple and effective belt speed monitoring.



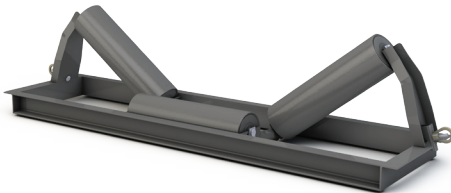
### HDPE Roll

Utilize PPI's proven seal design to prevent debris from getting to the bearings. Excellent abrasion and corrosion resistance with a significant weight reduction.



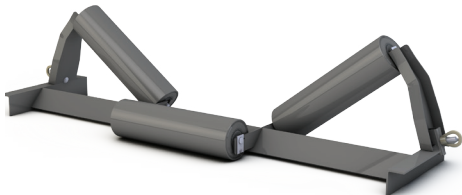
### Wide Base Idler

Troughing idler frames are provided for conveyor frames with bolt mounting centers that are belt width plus 15"



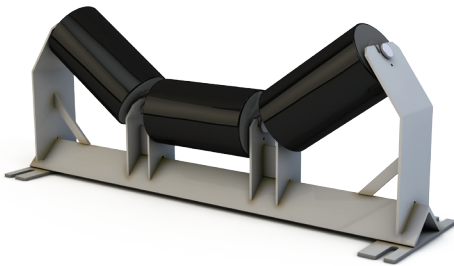
### Offset Box Frame Idler

Offset center roll to eliminate gap between center roll and wing roll in a heavy duty box style frame



### Offset Single Beam

Offset center roll to eliminate gap between center roll and wing roll



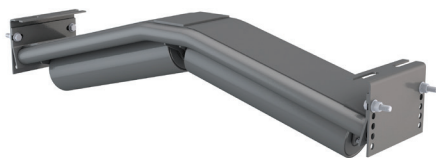
### Stainless Steel Frame

CEMA C and D idler frames in corrosion resistant 304 stainless steel. Available with standard C & D rolls and polymer CEMA C rolls



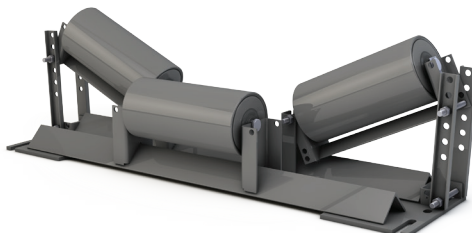
### Retractable Frame Idler

Allows for easier roll change out in areas with tight space constraints.



### Inverted V-Return

Positive tracking, sealed for life rolls can be adjusted up or down. Works on reversing belts.



### Transition Idler

Wing rolls can be adjusted in 2 1/2° increments to reduce belt stress in transition areas.

Available with in-line rolls and offset center rolls



#### **CORPORATE OFFICE**

300 SE 14th Street P.O. Box 287  
Pella, Iowa 50219-0287 USA  
800.247.1228 641.628.3115  
Fax 641.628.3658  
[www.ppipella.com](http://www.ppipella.com)



#### **WEST COAST SERVICE CENTER**

Sacramento, California 95828  
800.821.9798  
Fax 916.386.0545

#### **SOUTHWEST SERVICE CENTER**

Arlington, Texas 76105  
800.247.1228  
Fax 641.628.3658

#### **SOUTHEAST SERVICE CENTER**

Cleveland, Tennessee 37312  
800.247.1228  
Fax 641.628.3658

#### **NORTHEAST SERVICE CENTER**

Lewisberry, Pennsylvania 17339  
800.247.1228  
Fax 641.628.3658