

SPECIAL PRODUCTS

# BELT CONVEYOR IDLERS



## NEW SPECIALTY IDLER PRODUCTS

PPI has the ability to design and manufacture nearly any idler product to fit your application. Call your PPI sales representative for more information.



### INVERTED V-RETURN

Positive tracking with no swivel mechanism to get bound up. Adjustable frame is mounted on the clean side of the belt, eliminating material build up on the rolls. Works on the return side of the conveyor for reversing belts and single directional belts.



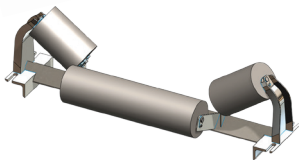
### UNDER SLUNG FRAME

Offset Center roll eliminates roll gap. Lower profile and height for tight places reduces head room above the trougher.



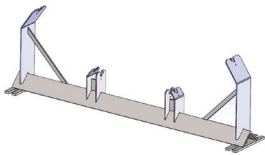
### UNDER SLUNG BOX FRAME

In-line or offset center roll. Lower profile and height for tight places reduces head room above the trougher. Rigid box frame for tough applications.



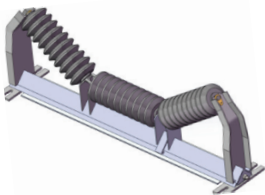
### LOW PROFILE OFF-SET CENTER ROLL

Offset Center roll eliminates roll gap. Lower profile and height for tight places. Reduces head room needed above the trougher. Inverted angle cross member to help shed material.



### STAINLESS STEEL FRAME

Frame components made of 304 Stainless Steel are available in CEMA C and D. Commonly used with polymer or plastic rolls for corrosion resistance. Standard steel rolls may be used. Drop Brackets and End Stands are available.



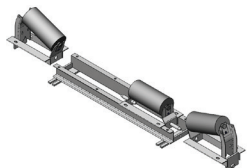
### RETRACTABLE IDLER ON ANGLE FRAME

Allows for easy roll change-out for all roll positions, minimizing downtime. Excellent choice for impact areas where there is frequent roll maintenance. Minimizes the distance the belt must be lifted for replacement of rolls. Uses PPI's proven seal design with our rugged idler rolls. Available with impact rolls or steel rolls.



### RETRACTABLE IDLER ON C-CHANNEL FRAME

Allows for easy roll change-out for all roll positions, minimizing downtime. Excellent choice for impact areas where there is frequent roll maintenance. Minimizes the distance the belt must be lifted for replacement of rolls. Uses PPI's proven seal design with our rugged idler rolls. Available with impact rolls or steel rolls.



### RETRACTABLE IDLER ON 3-PART C-CHANNEL FRAME

Allows for easy roll change-out for all roll positions, minimizing downtime. Excellent choice for impact areas where there is frequent roll maintenance. Minimizes the distance the belt must be lifted for replacement of rolls. Uses PPI's proven seal design with our rugged idler rolls. Can be used in areas with tight space constraints. Available with impact rolls or steel rolls.



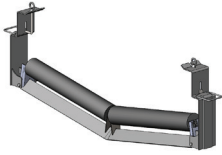
### OFFSET CENTER ROLL, REMOVABLE END BRACKET, BOX FRAME

In-line or offset center roll. Removable end bracket eases roll change out process. Lower profile and height for tight places. Reduces head room needed above the trougher. Rigid box frame for tough applications.



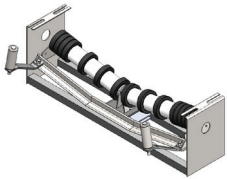
### OFFSET CENTER ROLL, 3-PART RETRACTABLE, BOX FRAME

Offset Center roll eliminates roll gap. Lower profile and height for tight places. Reduces head room needed above the trougher. Rigid box frame for tough applications. Allows for easy roll change-out for all roll positions, minimizing downtime. Excellent choice for impact areas where there is frequent roll maintenance. Minimizes the distance the belt must be lifted for replacement of rolls. Can be used in areas with tight space constraints. Available with impact rolls or steel rolls.



### SWING DOWN V-RETURN

Built in a V configuration with two rolls to aid in keeping the belt centered. Swing down frame allows for easier roll replacement by eliminating the need to lift the belt. Available with rubber disc idler rolls and steel idler rolls.



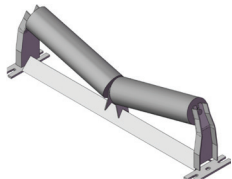
### V-RETURN SELF-ALIGNER

Designed to pivot and aid in steering the belt to the center of the conveyor. Made to help center the belt when transient conditions force the belt off center. Built in a V configuration to match PPI's V-Return Idlers.



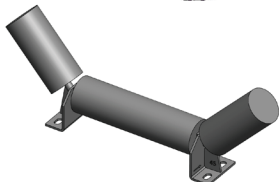
### DEAD END SELF-ALIGNER

Works for both reversing and single direction conveyors. The dead end actuator is more responsive than traditional reversing guide rolls and slider plate minimizing belt wander. Rounded actuators are belt friendly. Available in Troughing, Return and V-Return configurations.



### TWO-ROLL TV

Weight savings idler that uses only two rolls to create a trough for use on portable equipment. Replaceable rolls and can be made in 15°, 20° and other angles. Uses PPI's proven seal design with our rugged idler rolls.



### CANTILEVER WING IDLERS

Weight savings idler that reduces frame weight for use on portable equipment. Replaceable center rolls and available in many wing roll angles. Uses PPI's proven seal design with our rugged idler rolls.



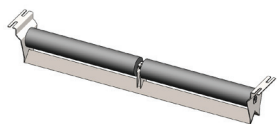
### CLEAN SIDE RETURN HOLD DOWN

Used on the return side of the belt to hold the belt in place, especially useful with cupped belts. The adjustable frame accommodates many belt widths and is positioned on the clean side of the belt. Uses PPI's proven seal design with our rugged idler rolls.



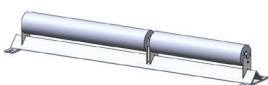
### BANKED IDLERS

Banked Idlers, both trougher and return are designed to allow the conveyor belt to travel around a horizontal curve. Idlers are made with different angles of tilt as required. PPI has designed banked frame idlers for several projects where a horizontal curve conveyor is required.



### TWO-ROLL FLAT RETURN

Used to aid in the replacement of idler rolls by using two lighter weight rolls instead of one heavier roll. Rolls can be of equal length or different lengths. Available with rubber disc idler rolls or steel idler rolls.



### TWO-ROLL FLAT CARRIER

Used to aid in the replacement of idler rolls by using two lighter weight rolls instead of one heavier roll. Rolls can be of equal length or different lengths. Available with rubber disc idler rolls or steel idler rolls.

## SPECIAL ENGINEERED IDLERS

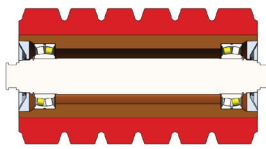
PPI designs and builds many different styles of idlers for specific customer requirements, here are some examples. If your application requires a specific or special design, contact PPI.



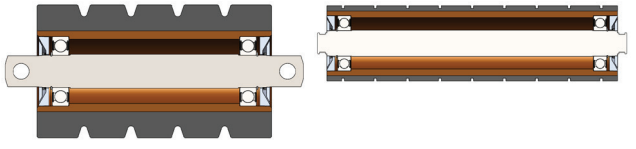
## PPI ENGINEERED IDLER ROLLS

- Rolls heavier than CEMA F are available
  - 2.362" (60 mm) 6312 ball bearing
  - 2.559" (65 mm) spherical roller bearing
- Special lagging requirements
- Stub rolls
- Radius crown

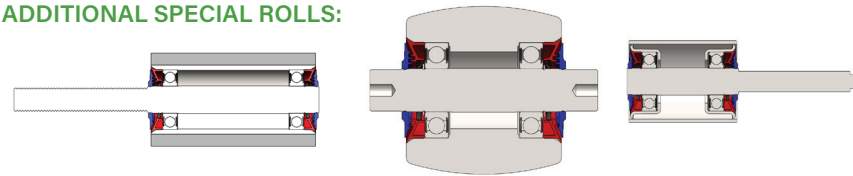
### 65 mm SPHERICAL:



### 6312:

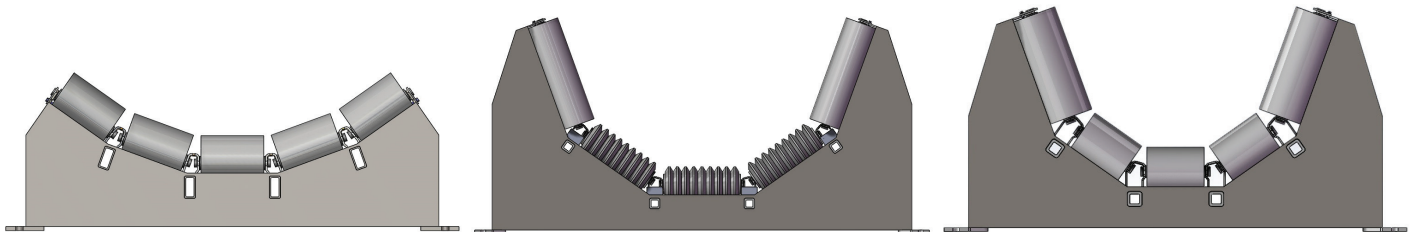


### ADDITIONAL SPECIAL ROLLS:



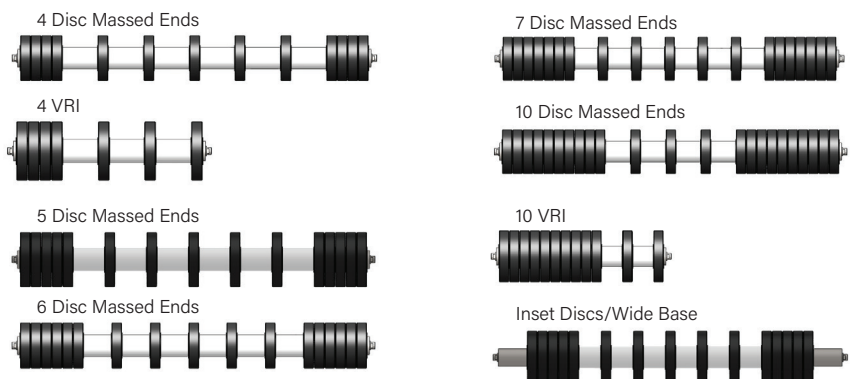
## FIVE-ROLL TROUGHERS

Five-roll troughing idlers are available in many different configurations with steel idler rolls or rubber disc idler rolls. Other options include equal length rolls or shorter center rolls with longer outer wing rolls. Five-roll troughing idler configurations match with the natural trough of the conveyor belt providing a more gentle curve.



## RUBBER DISC MASSED END OPTIONS

Many options are available. PPI is able to match customer requirements for disc location.



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