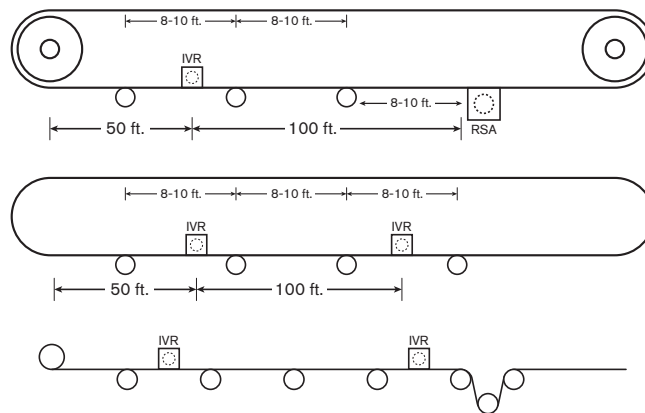
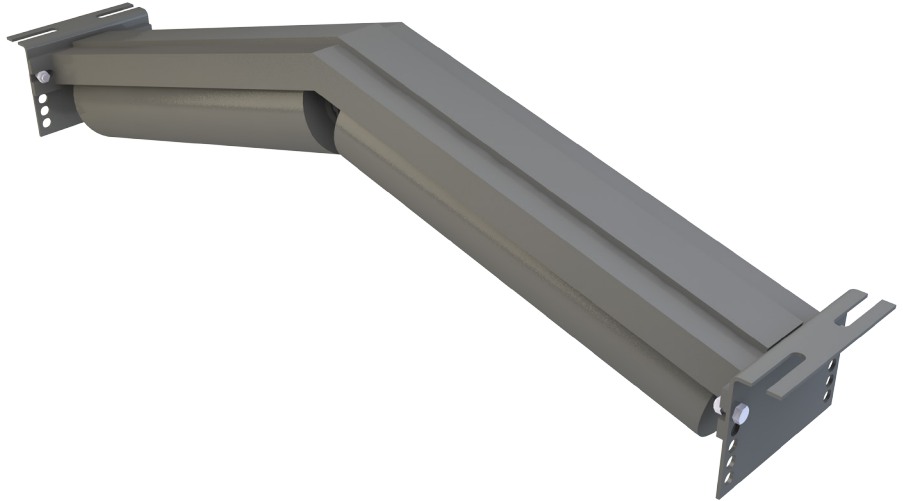


INVERTED V-RETURN

FEATURES AND BENEFITS:

- Positive tracking
- Sealed for life
- Adjustable
- No swivels
- Works on reversing belts
- Available in C, D, & E



Typically, two Inverted V>Returns (IVR) are used on each conveyor. One near the head and one near the tail. If the conveyor is long, the user may want to add additional IVR(s). The IVR is placed between 2 existing conventional return rolls as illustrated.

Maintain at least 4-5 feet between the IVR and other returns. This will allow the belt to flex without damage, while creating a center channel to keep the belt on track.

The IVR is adjustable and can be lowered to create more of a channeling effect on the belt.

C5-15IVR-36SB-4

CEMA Series C, D, E	Drop Bracket 4 - C & D / 7 - E
Roll Diameter C - 5, 6 D - 5, 6 E - 6, 7	Bearing Type Sealed Ball bearing
Inverted Angle 15 degrees	Belt Width 18, 24, 30, 36, 42, 48, 54, 60, 72, 84
	Frame Type - Inverted Vee Return

CAUTION: As one places more displacement force on the belt, it will create a higher load on the IVR and the adjacent returns, decreasing the life of the rolls. Care should be taken not to exceed the load capacity of the IVR or adjacent returns.



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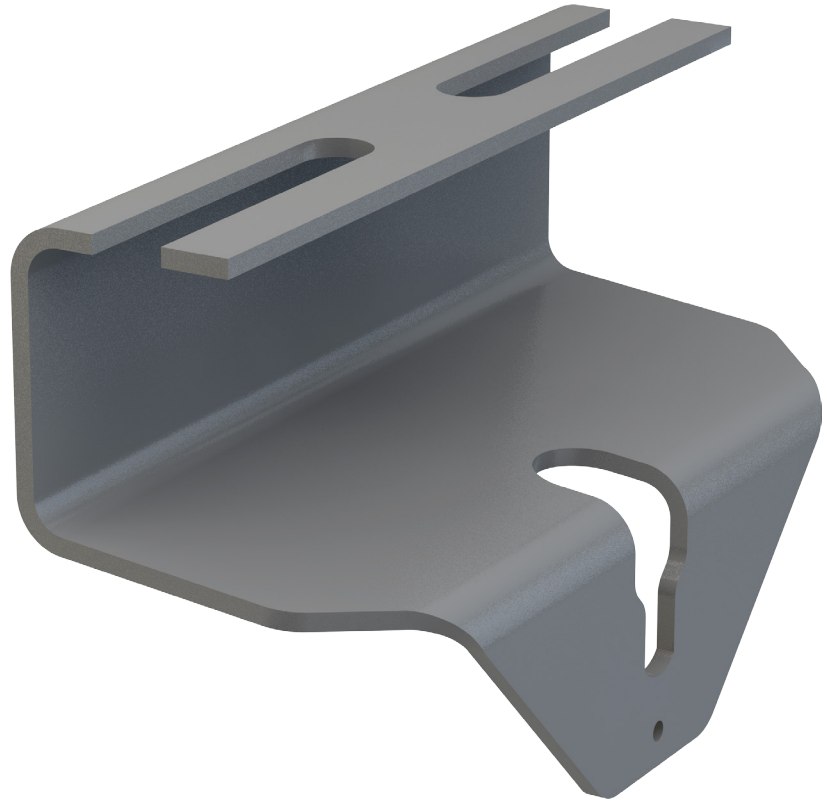
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BELTSAYER™ II

FEATURES AND BENEFITS:

- Protect your belt from rubbing
- Uses standard rolls
- BeltSaver™ II use a standard width roll & BeltSaver™ II Bracket #14207



Before



After

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RETRACTABLE FRAME IDLER

FEATURES AND BENEFITS:

- Allows for easy roll change-out for all roll positions, minimizing downtime
- Excellent choice for impact zones where there is frequent roll maintenance
- Minimizes the distance the belt must be lifted off the 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 cans
- Available in 20° 35° & 45° trough angles
- CEMA C, D & E available



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RETURN ROLL GUARD

FEATURES AND BENEFITS:

- Safety regulations require that moving parts within 7 feet of a floor, platform, walking area, or working surface need to be guarded
- O.S.H.A. & M.S.H.A. do not approve safety devices. Compliance with these regulations is managed by the individual inspectors in your area
- Available in 1 1/2" drop, 4 1/2" drop & heavy duty
- Heavy Duty is a 4 1/2" drop with 5/8" bolt slot that will fit CEMA D idlers plus it has 4 guard positions - for adjustment beyond normal belt sag



Belt Width	Bolt Centers	1 1/2" Shield Length	1 1/2" Drop	Wt.	4 1/2" Shield Length	4 1/2" Drop	Wt.	Heavy Duty 4 1/2" Drop	Wt.
14	23	19 3/4	RG14B	2.5	20 1/2	RG14A	3.3	HDRG14A	3.8
16	25	21 3/4	RG16B	2.6	22 1/2	RG16A	3.5	HDRG16A	3.9
18	27	23 3/4	RG18B	2.7	24 1/2	RG18A	3.6	HDRG18A	4
20	29	25 3/4	RG20B	2.9	26 1/2	RG20A	6.7	HDRG20A	4.2
24	33	29 3/4	RG24B	3.1	30 1/2	RG24A	4	HDRG24A	4.4
30	39	35 3/4	RG30B	3.5	36 1/2	RG30A	4.3	HDRG30A	4.8
36	45	41 3/4	RG36B	3.8	42 1/2	RG36A	4.7	HDRG36A	5.1
42	51	47 3/4	RG42B	4.2	48 1/2	RG42A	5.1	HDRG42A	5.5
48	57	53 3/4	RG48B	4.6	54 1/2	RG48A	5.4	HDRG48A	5.9
54	63	59 3/4	RG54B	4.9	60 1/2	RG54A	5.8	HDRG54A	6.2
60	69	65 3/4	RG60B	5.3	66 1/2	RG60A	6.2	HDRG60A	6.6
72	81	77 3/4	RG72B	6	78 1/2	RG72A	6.9	HDRG72A	7.3

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SEALED BALL BEARING

FEATURES AND BENEFITS:

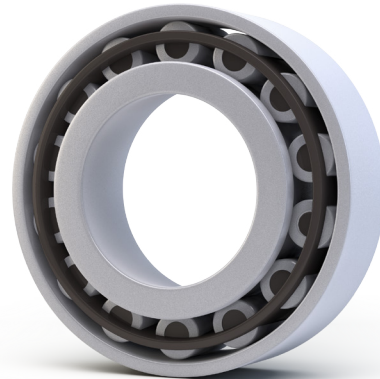
Sealed Ball Idler Bearing

- Low maintenance
- LXT sealing PLUS factory sealed
- Low operating costs
- Low rotational resistance
- 16 minutes of angular deflection

Versus

Tapered Roller Bearing

- Must be re-greased
- NOT factory sealed
- Pumps grease away
- Bearing must be preloaded
- 3 minutes of angular deflection



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FEATURES AND BENEFITS:

- Sensor protection
 - Mounted inside our CEMA D idler roll for protection from the environment by our LXT sealing system
- Overload protection
 - Protects the sensor from short circuits and wiring problems
- Multifunction
 - The same sensor works with AC/DC/NPN/PNP
- Maintenance free

Mounting

- Clean side return "CSR" (preferred)
 - Versatile - belt width independent
 - Longer life due to no load
 - Flexible mounting
- Other mounting options
 - Troughing "TE" wing roll
 - Return "FL" roll
 - Universal mount
- Smart Monitor™
 - Acts as a low speed indicator
 - Plug into light, alarm, or cut off switch
 - 120 VAC standard
 - 120 VAC 4-20 mA option
 - 9-36 VDC option
 - 220 VAC 4-20 mA option
 - Required if your controller circuit does not have a PLC



Patent #5,954,186

Smart Roll™ & Smart Monitor™ are trademarks of Precision Pulley & Idler

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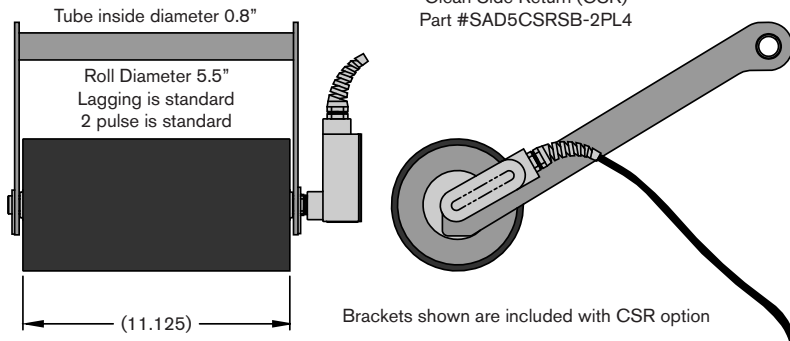
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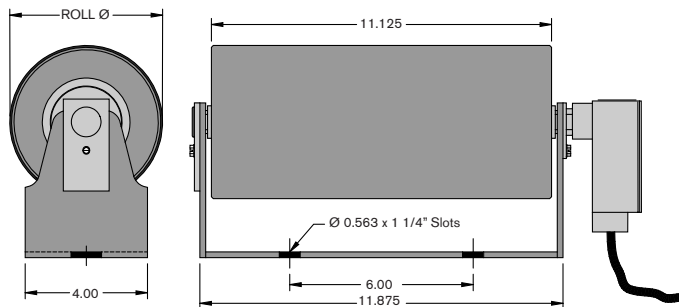
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All Smart Rolls requires Smart Monitor or PLC.

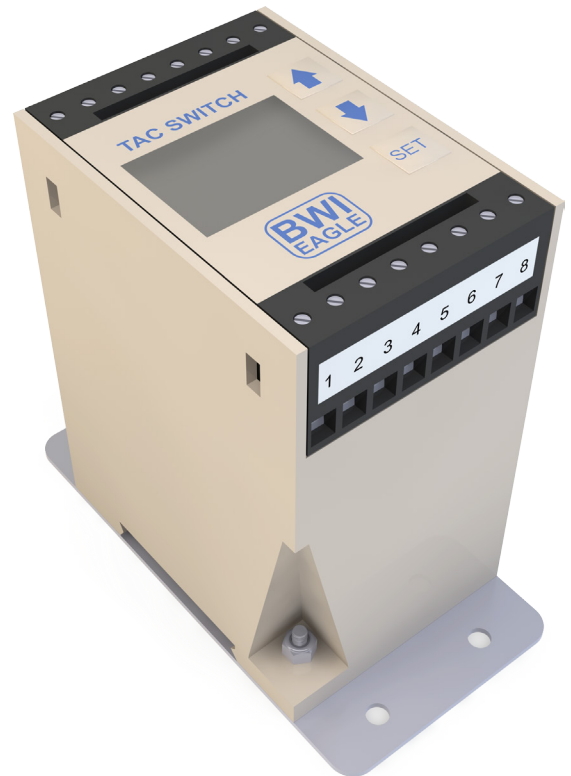
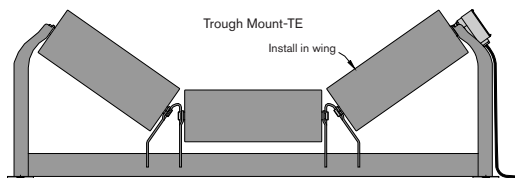
Clean Side Return
requires smart monitor or PLC



Universal Mount



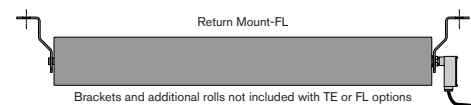
Troughing/Return Idler Roll
requires smart monitor or PLC



# Pulses	Speed (FPM)		Range	Applications
	min	MAX		
6	5	700	Low	Feeders/Metering
2	10	2000	Normal	Normal
1	20	4000	High	High Speed

Note: Actual speed limitations may exceed these limits, depending upon roll diameter and electronics. For more details refer to the Smart Roll & Smart Monitor operation and maintenance manuals.

Troughing/Return Idler Roll
requires smart monitor or PLC



Wiring and integration into your system should be done by a qualified electrician. Wiring diagrams are available in the O&M manuals on our website at <http://www.ppipella.com>.

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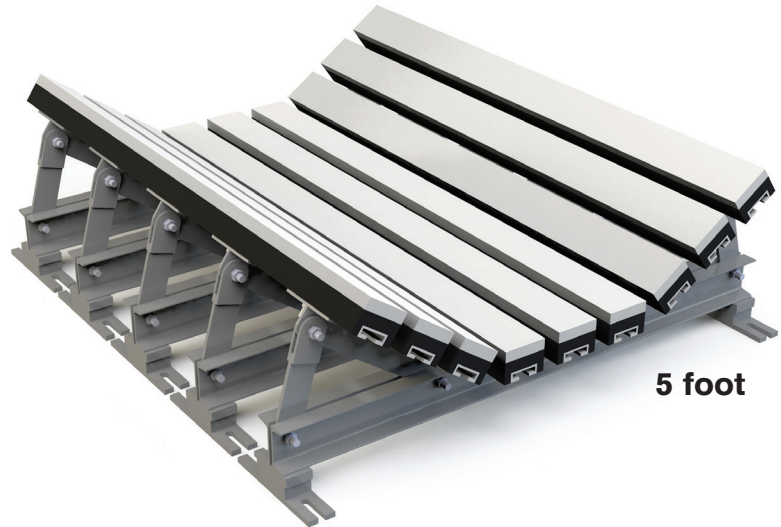
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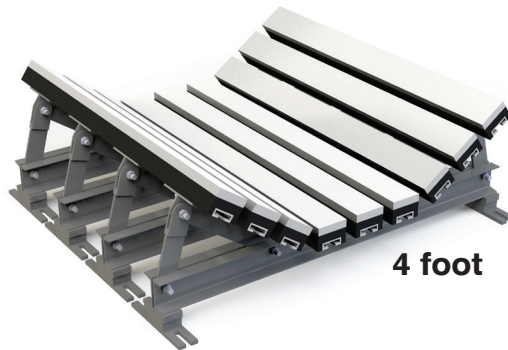
MEDIUM DUTY IMPACT BED

FEATURES AND BENEFITS:

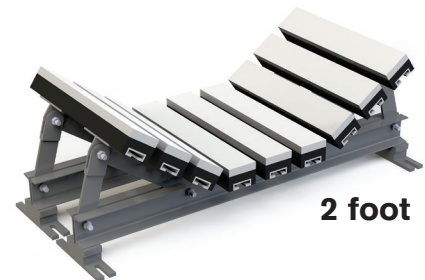
- Simple, cost effective way to provide continuous support of your conveyor belt against the skirting material.
- UHMW slider rails for skirt board sealing.
- No moving parts.
- Seals skirt boards in loading zone to reduce spillage.
- Supports conveyor belt in loading zone.
- C-Channel frames for increased strength.
- Wings fold down for easier maintenance.
- Available in 2 foot, 4 foot and 5 foot lengths.
- Modular design allows multiple units to be fitted end to end to form the length needed.
- Match center roll height of PPI CEMA C and D idlers.
- Belt width 18" through 72".



5 foot



4 foot



2 foot

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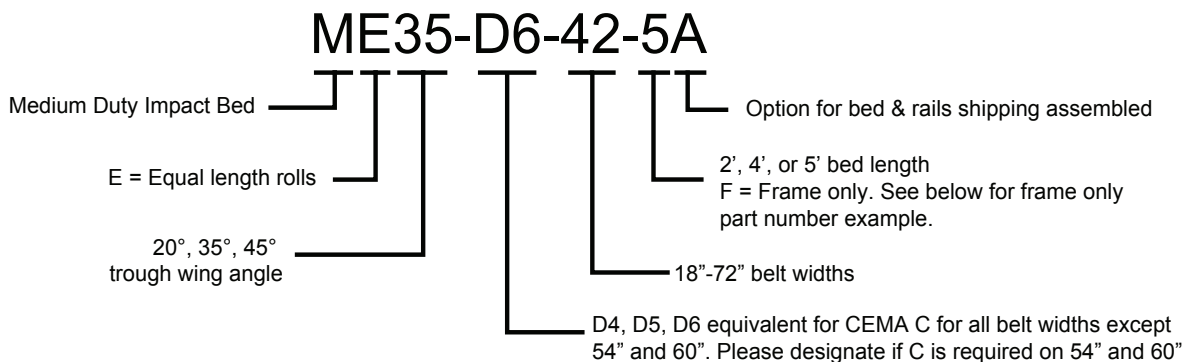
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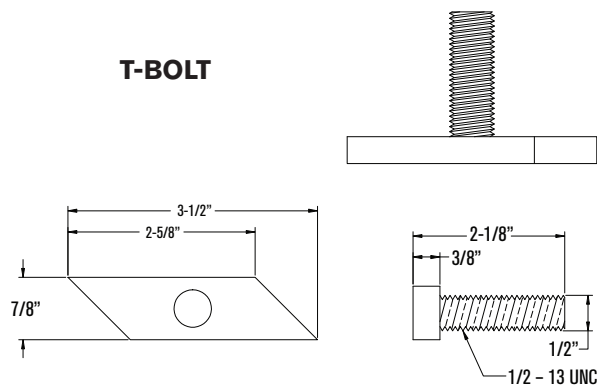
MEDIUM DUTY IMPACT BED PART NUMBERING



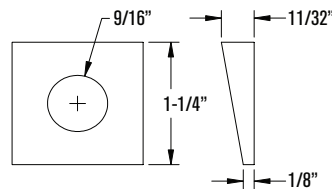
SLIDER RAIL & HARDWARE REPLACEMENT PARTS

ITEM	PART NUMBERS
2' RAIL	SRAIL 2
4' RAIL	SRAIL 4
5' RAIL	SRAIL 5
T-BOLT*	44253
1/2" CONICAL SELF LOCKING HEX NUT	513200
1/2" FLAT WASHER	511190
HARDWARE SHIM*	504113

*Diagrams shown on the right.



HARDWARE SHIM



FRAME ONLY

Example: ME35-D6-42F

Please note: No rails included. Frames will come with hardware in separate box.

WING SUPPORT HARDWARE

5/8" x 2" long bolt: P/N 500390

5/8" conical self-locking hex nut: P/N 513201

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