

BELT STRUCTURE & CONVEYOR SYSTEMS



Conveyor Structure



Turn Key Projects:
Engineering, Manufacturing, Install



Belt Drives & Terminal Groups



WWW.PIONEERCONVEYOR.COM



TABLE OF CONTENTS

TECHNICAL INFO.....	3-4
PIONEER STYLE.....	6-9
CATENARY STYLE.....	10-11
IMPACT STRUCTURE.....	12
RETRO-FIT.....	13-14
TERMINAL GROUPS.....	15-16
TURN KEY PROJECTS.....	16-17
INLINE STRUCTURE.....	18-22

INTRODUCTION

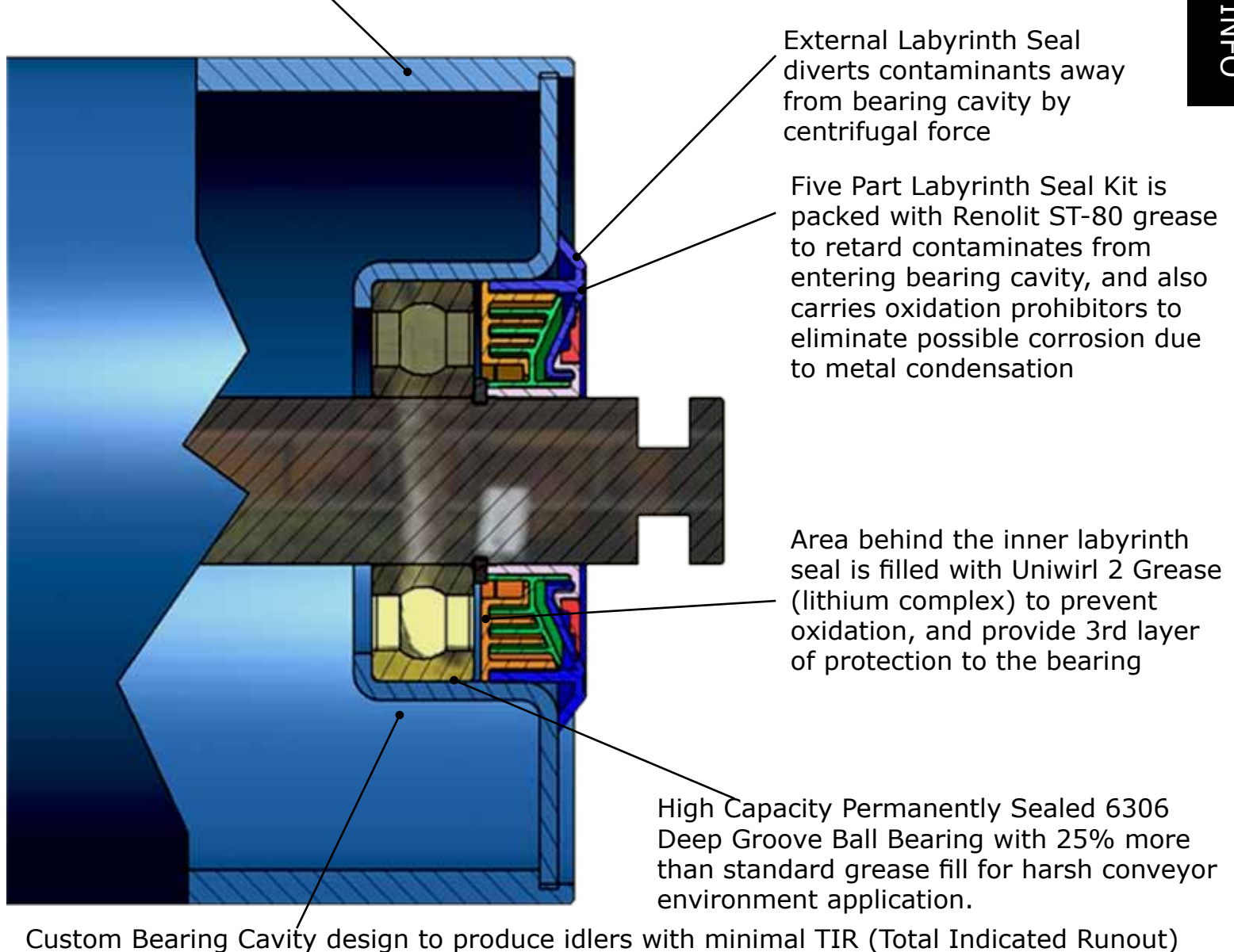
Pioneer Conveyor is a leading bulk material conveyor manufacturing firm serving customers throughout North America and across the globe. Pioneer has designed and manufactured thousands of standard and custom conveyor systems for a multitude of applications.

Pioneer has complete engineering, machining, fabrication, and manufacturing departments on-site to design and manufacture your next conveyor project. Pioneer Conveyor is a certified CEMA (Conveyor Equipment Manufacturers Association) member www.cemanet.org. All of Pioneer Conveyor’s products are designed and manufactured significantly above required CEMA specification requirements. This allows Pioneer to offer our customers the most attractive warranty in the industry.

Pioneer Conveyor’s mission is to raise the bar for the worldwide conveyor systems one customer at a time. “Our success will be measured by our ability to increase the expectations of all conveyor system consumers so that they will never settle for anything less than receiving the highest quality products at a great price, custom engineered for their unique applications, delivered on-time, and monitored closely by the regional sales engineers.”

Give us a call and have one of our Sales Engineers visit your site, to discuss your conveyor requirements!

Available in 1/4" wall or Seven Gage Tube ASTM 513 Specified Steel Tube with tight tolerance on Ovality, OD, and Straightness



APPLICATION

- System component for conveyor structure used for moving bulk materials.
- Modify your troughing angle to maximum material transport based on belt speed and material characteristics
- For assistance determine what is best for you contact us

MODELS / SIZES

- Available in 20° and 35° trough angles.
- Available in 18", 24", 36", 42", 48", 54", 60" and 72" belt widths.
- Also available in CEMA B and CEMA C

3/4" SEAL PRODUCT

The new Pioneer CEMA C design features low roll resistance (< 4 in lb) with a solid 3/4" shaft that provides structural integrity that minimizes shaft slope at the bearing location increasing bearing life. Idlers are fitted with a Modified Geometry Tapered Roller Bearing.

Available in 1/4" wall and 7 or 9 Gg tube. ASTM 513 Specified Steel Tube with tight tolerance on Ovality, OD, and Straightness. Also, ask us about our 9 gauge light-duty product line.

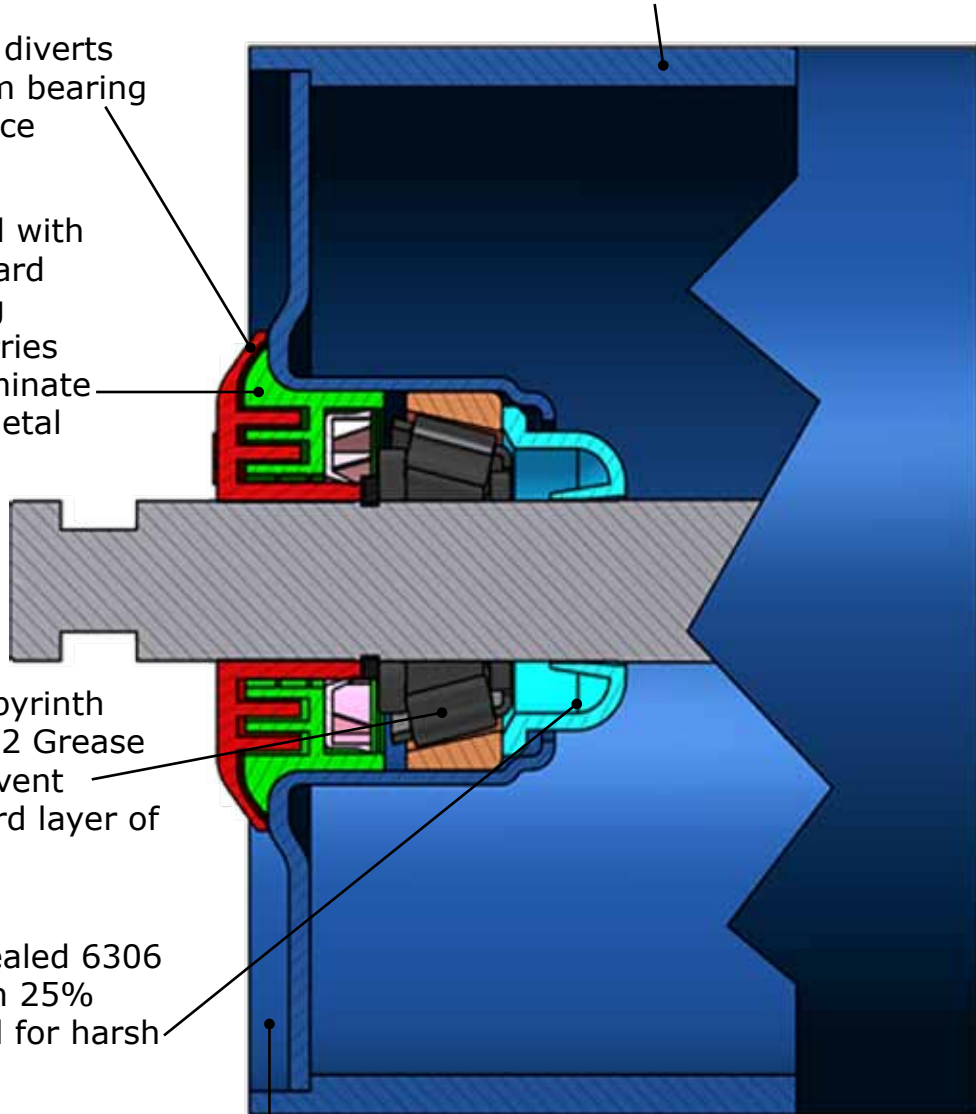
External Labyrinth Seal diverts contaminants away from bearing cavity by centrifugal force

Labyrinth Seal Kit is packed with Renolit ST-80 grease to retard contaminants from entering bearing cavity, and also carries oxidation inhibitors to eliminate possible corrosion due to metal condensation

Area behind the inner labyrinth seal is filled with Uniwirl 2 Grease (lithium complex) to prevent oxidation, and provide 3rd layer of protection to the bearing

High Capacity Permanently Sealed 6306 Deep Groove Ball Bearing with 25% more than standard grease fill for harsh conveyor environment application

Custom Bearing Cavity design to produce idlers with minimal TIR



APPLICATION

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- Modify your troughing angle to maximum material transport based on belt speed and material characteristics
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MODELS / SIZES

- Available for 20° and 35° trough angles
- Available in 18", 24", 36", 42", 48", 54" and 60" belt widths
- Also available in CEMA B and CEMA D

17 MM SEAL PRODUCT

Pioneer Conveyor manufactures a B series idler for 18" through 48" belt widths, the new Pioneer CEMA B design features low roll resistance (< 3 in lb) with a solid 17mm shaft that provides structural integrity that minimizes shaft slope at the bearing location which increases bearing life. Idler rolls are fitted with special 17mm deep groove, high capacity, sealed for life, precision ball bearings. This all means that when you receive a Pioneer CEMA B idler you receive a high efficiency idler with minimal maintenance requirements that is guaranteed to have a long operational life.

Available in 7 or 9 Gg tube, ASTM 513 Specified Steel Tube with tight tolerance on Ovality, OD, and Straightness

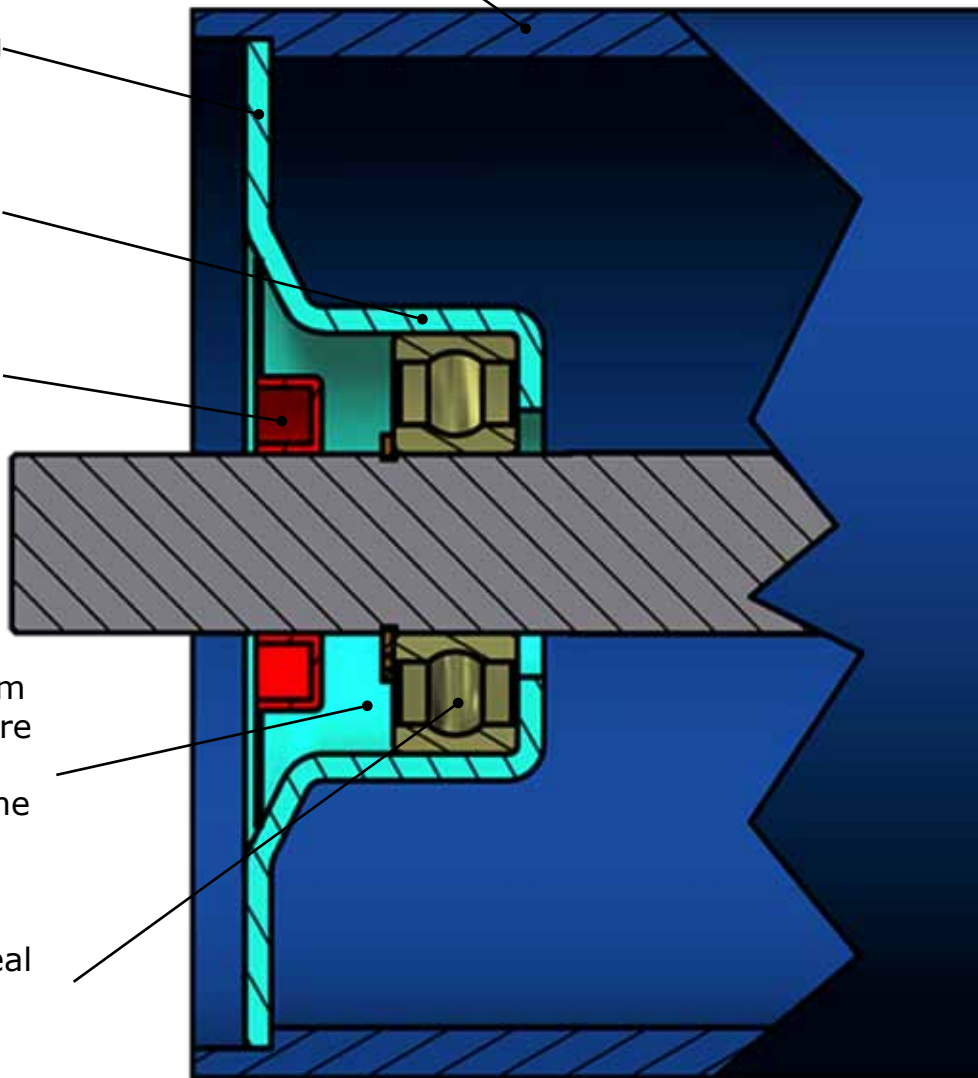
External Labyrinth Seal diverts contaminants away from bearing cavity by centrifugal force

Custom Bearing Cavity design to produce idlers with minimal TIR

Proprietary 17mm Exterior Seal to prevent contaminants from entering the bearing cavity

Bearing Cavity packed with Lithium Complex NLGI #2 Grease to ensure there is zero oxidation or contamination that would reach the sealed bearing

17mm Permanently Lubricate/Seal for Life Precision ball bearing.



APPLICATION

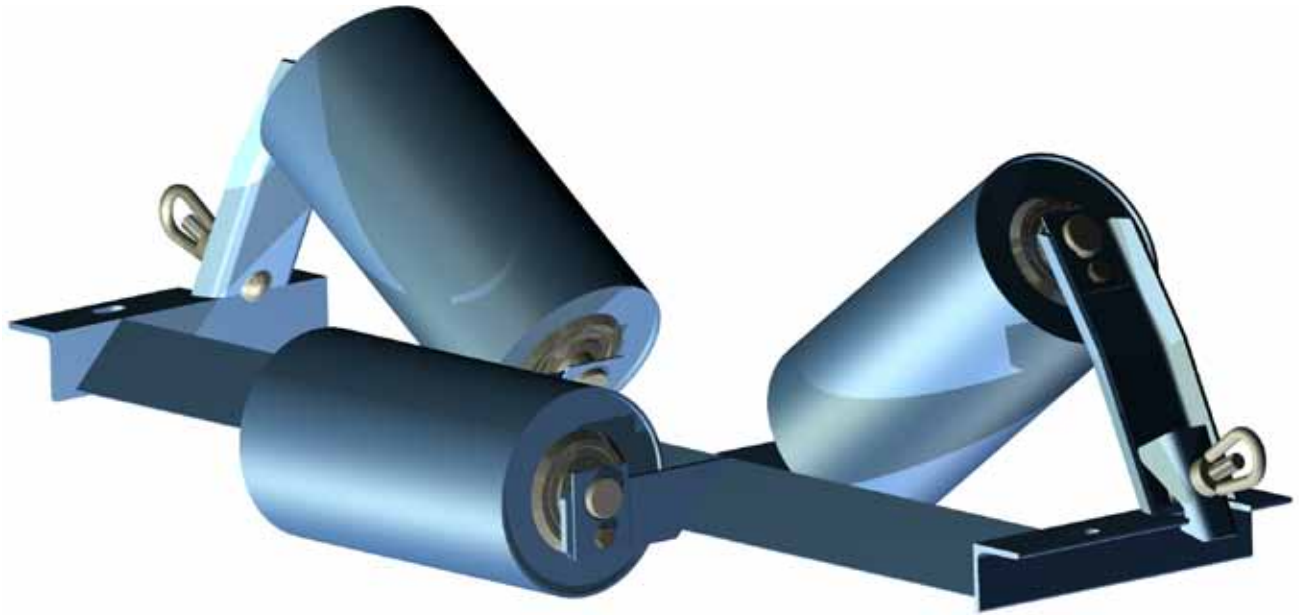
- System component for conveyor structure used for moving bulk materials
- Modify your troughing angle to maximum material transport based on belt speed and material characteristics
- For assistance determine what is best for you contact us

MODELS / SIZES

- Available for 20° and 35° trough angles
- Available in 18", 24", 36", 42" and 48" belt widths
- Also available in CEMA C and CEMA D

PIONEER TROUGHING IDLERS

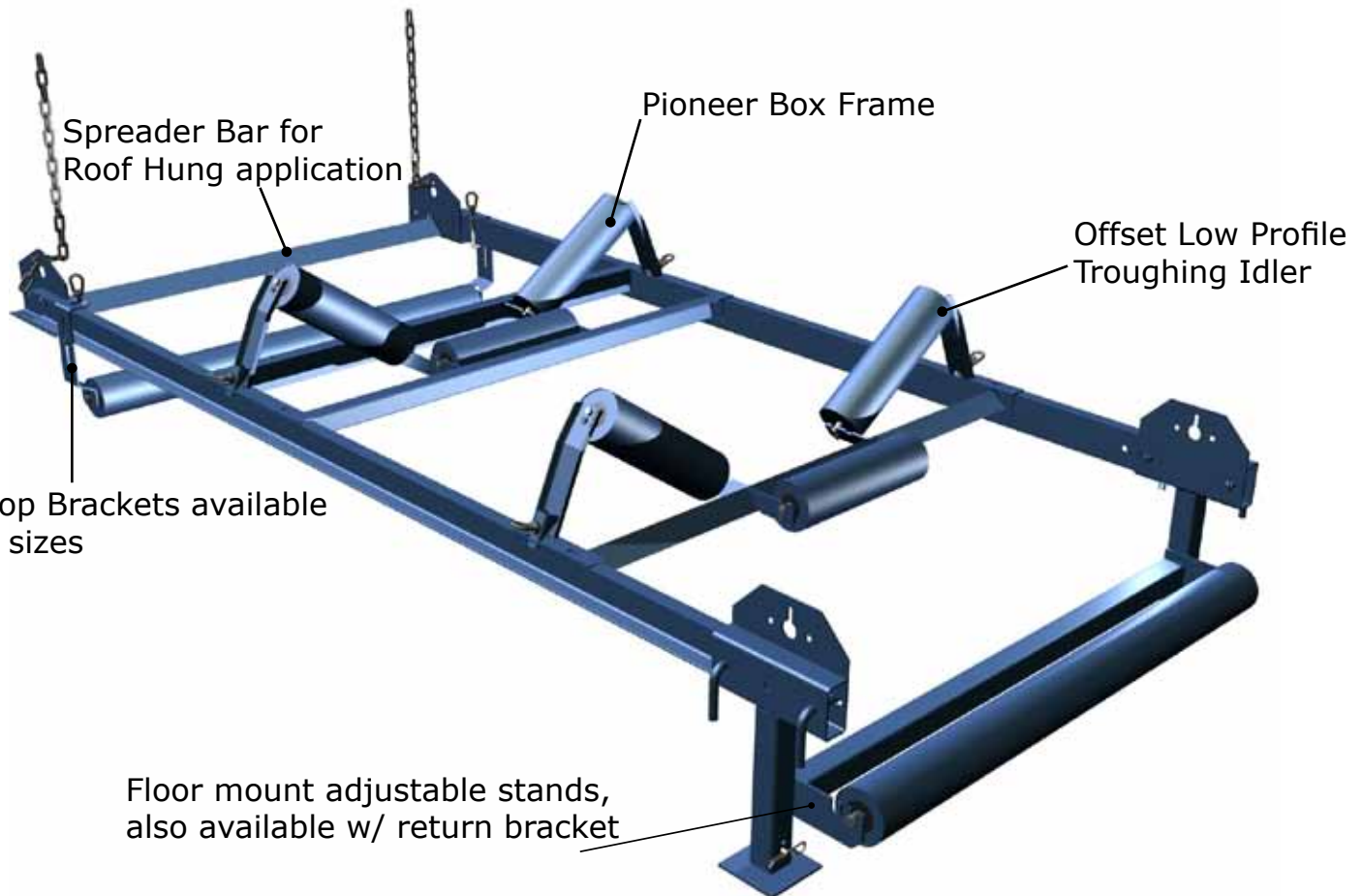
PIONEER STYLE



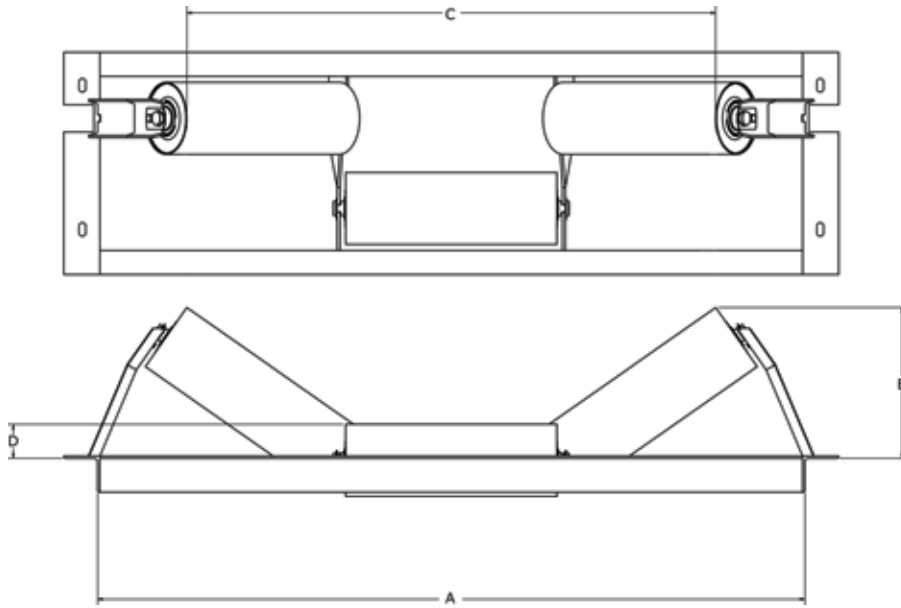
Pioneer style structure is available for 3", 4" or 5" rigid rail/floor mount, or can be roof hung.

Available with various roll sizes, CEMA B, C, D & E as well as various belt widths, see details - page 7

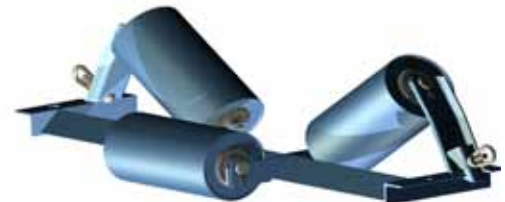
AVAILABLE FOR VARIOUS APPLICATIONS



PIONEER TROUGHING IDLERS



Pioneer Box Frame Idlers



Pioneer Troughing Idlers

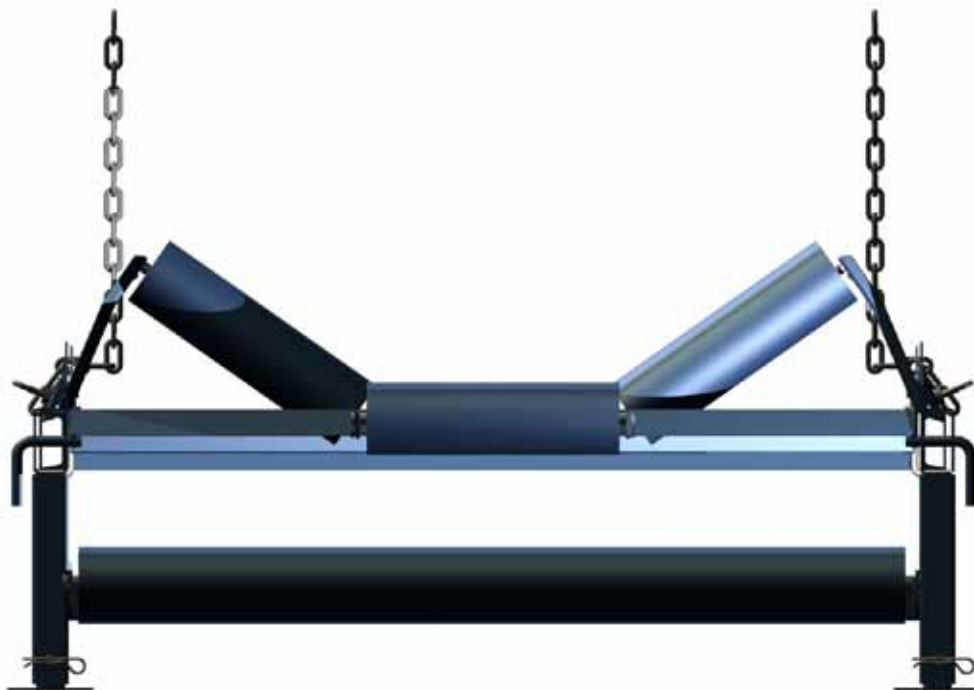
PIONEER STYLE

Pioneer standard product line is available in a variety of belt widths, and can be equipped with 4, 5 or 6 inch rollers. Also, available in 10, 15, 20, 30 and 45 degree troughing angle.

BW	A	B			C			D		
		Ø4	Ø5	Ø6	Ø4	Ø5	Ø6	Ø4	Ø5	Ø6
30	40 7/8		8 9/16			28 7/8			2	
36	46 7/8	6 25/32	9 1/2	6 25/32	31 13/16	34	31 13/16	1 9/16	2	1 9/16
42	53 1/4	7 19/32	10 21/32	7 19/32	36 29/32	39 5/32	36 29/32	1 9/16	2	1 9/16
48	58 7/8		11 27/32			44 7/8			2	
54	62 9/16					48 27/32			3 19/32	
60	68 9/16								3 19/32	

Dimensions are subject to change. Call to confirm.

Pioneer stands can be adjusted to varying heights with a standard 14" adjustable leg.

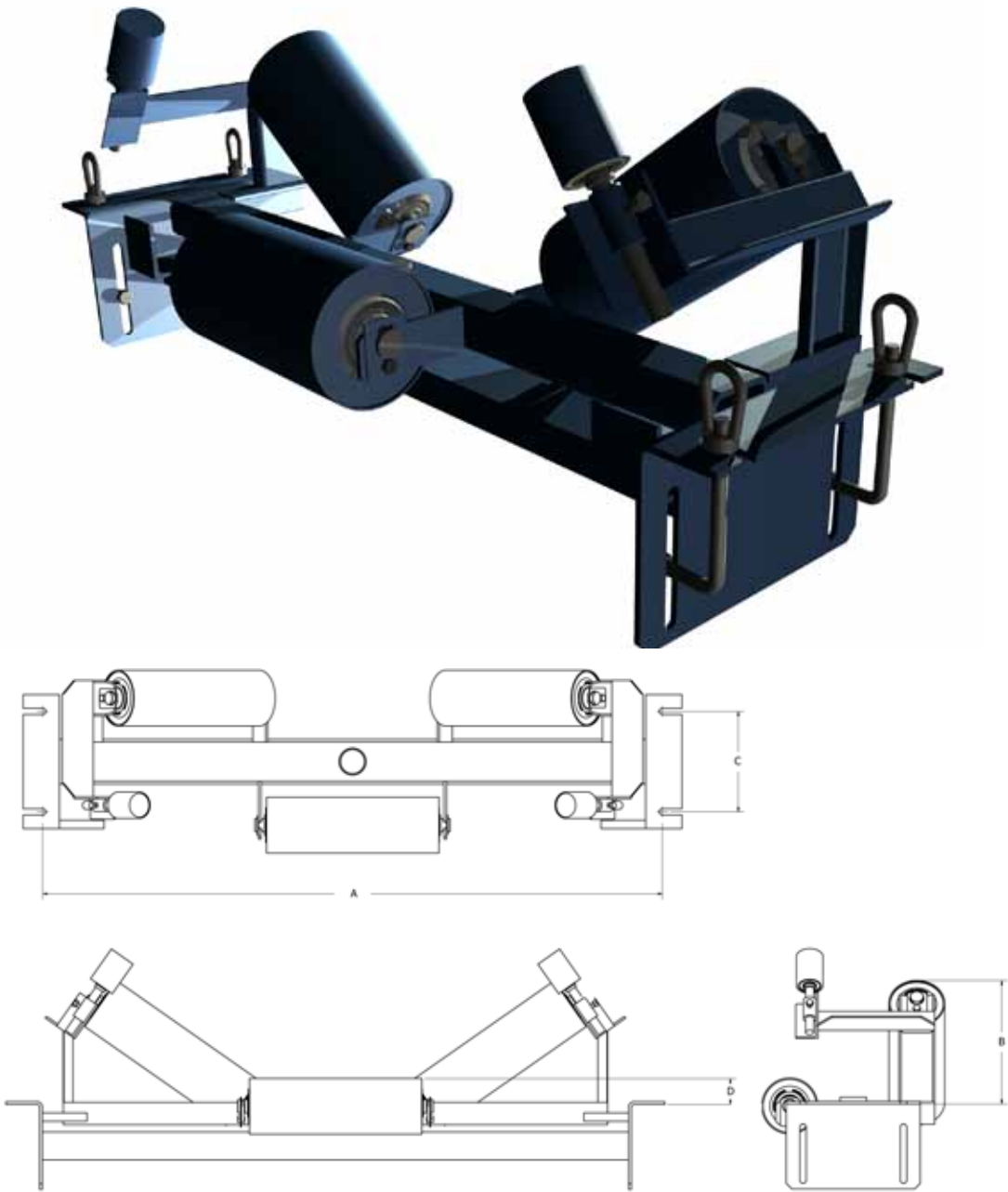


PIONEER BOLT-ON TRAINERS

Pioneer Bolt-on Top Trainers

Trainers are available with 4", 5", 6" and 7" rollers for all belt widths.

PIONEER STYLE

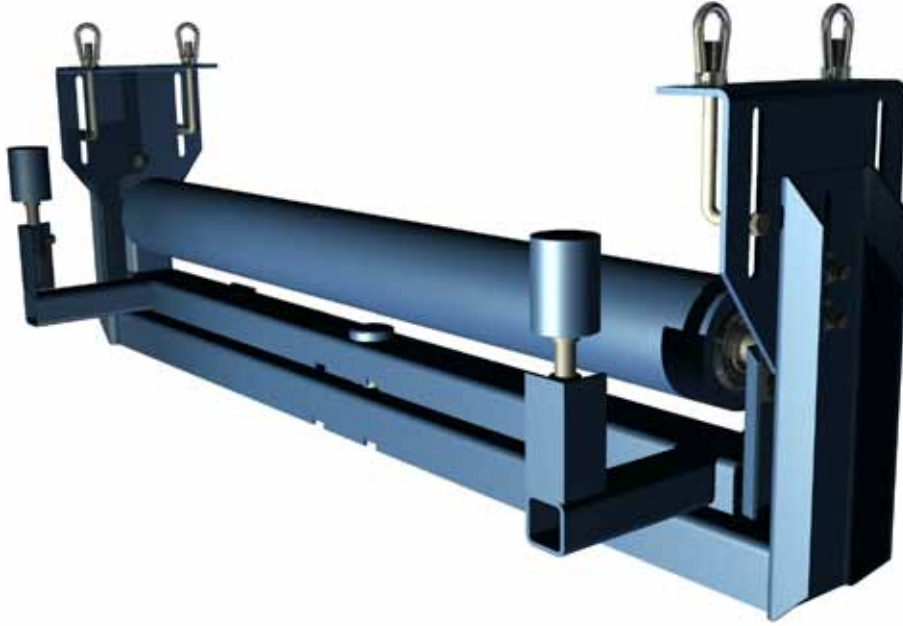


Belt Width	A	B		C	D	
		Ø4	Ø5		Ø4	Ø5
18	n/a	n/a	n/a	5 1/4	8 3/8	8 7/8
24	33	13 3/8	13 13/16	5 1/4	8 3/8	8 7/8
30	39	14 7/16	14 7/8	5 1/4	8 3/8	8 7/8
36	45	15 7/8	16 5/16	5 1/4	8 3/8	8 7/8
42	51	17 1/8	17 9/16	5 1/4	8 3/8	8 7/8
48	57	18 5/16	18 3/4	5 1/4	8 3/8	8 7/8
54	63	19 3/8	19 13/16	5 1/4	8 3/8	8 7/8
60	69	20 7/16	20 7/8	5 1/4	8 3/8	8 7/8

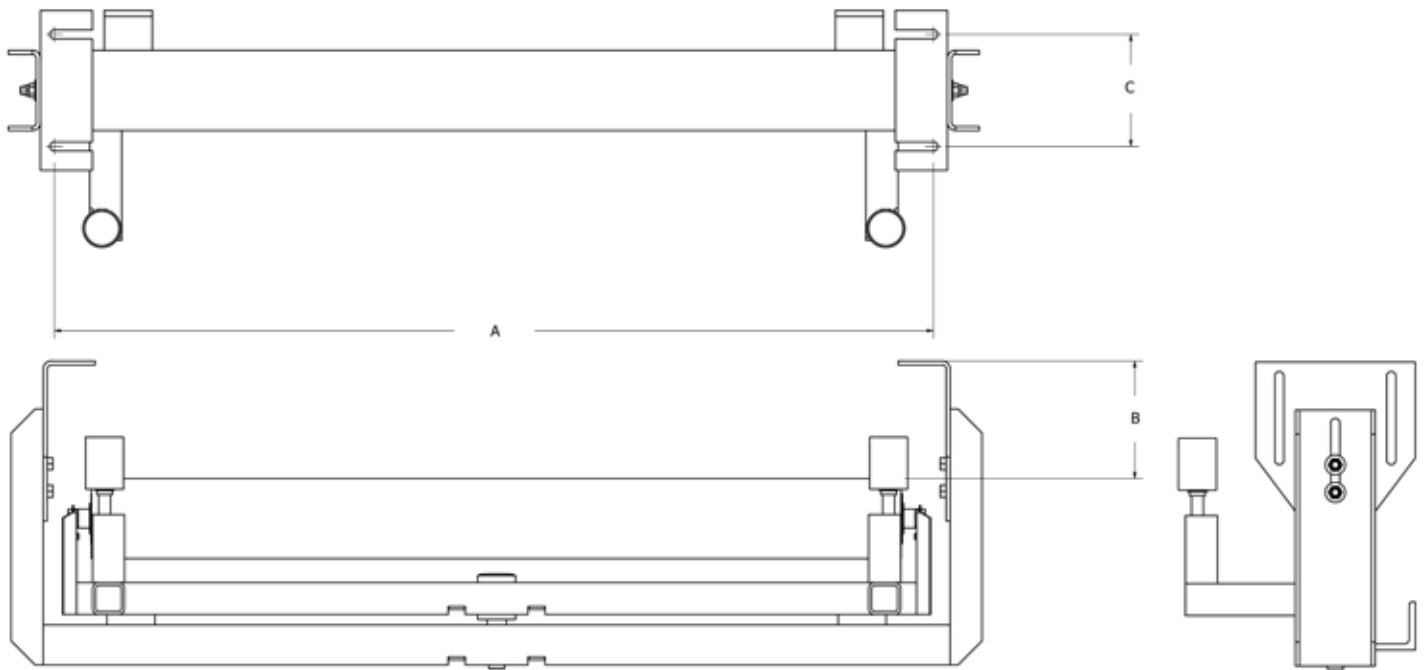
Dimensions are subject to change. Call to confirm.

Pioneer Bolt-on Bottom Trainers

Bottom Trainers are available with 4", 5", 6" and 7" rollers for all belt widths. for various belt widths.



PIONEER STYLE



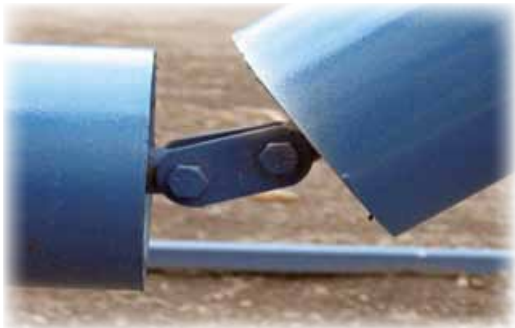
Belt Width	A	B		C
		Ø 4	Ø 5	
18	n/a	4 31/32	4 15/32	7
24	33	4 31/32	4 15/32	7
30	39	4 31/32	4 15/32	7
36	45	4 31/32	4 15/32	7
42	51	4 31/32	4 15/32	7
48	57	4 31/32	4 15/32	7
54	63	4 31/32	4 15/32	7
60	69	4 31/32	4 15/32	7

Dimensions are subject to change. Call to confirm.

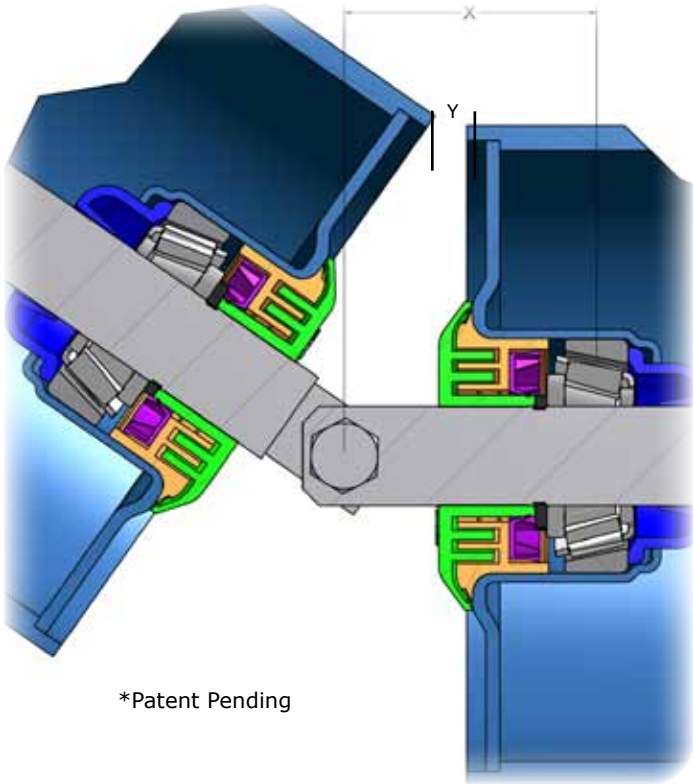
CATENARY TOPS

Pioneer Conveyor's Catenary Top Structure Enhanced Technology

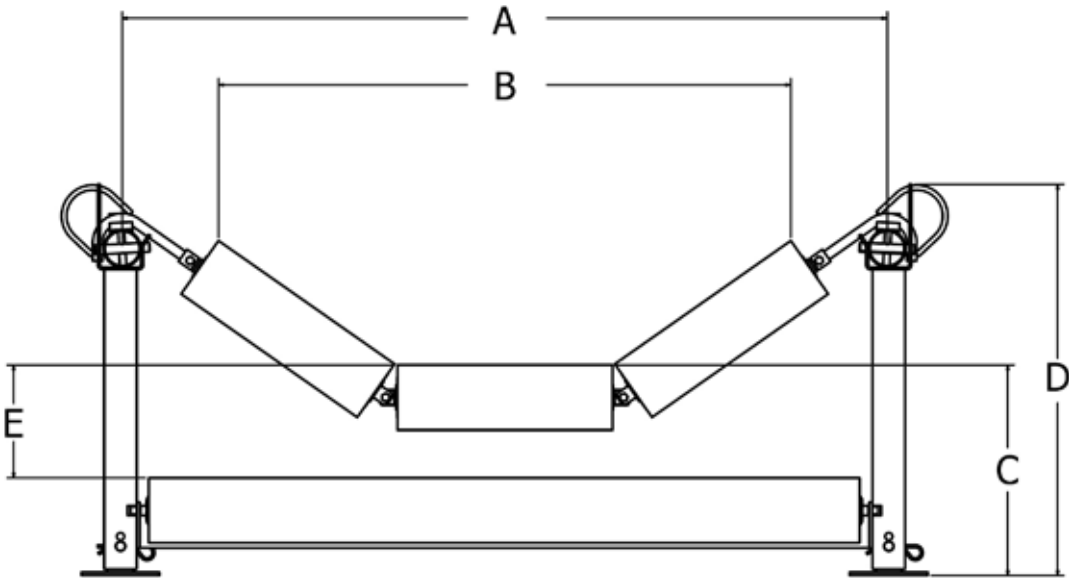
- Eliminates one degree of freedom from each connecting link, resulting in longer L_{10} life expectancy
- Minimizes distance (x) at critical load points
- Reduces roll gap by over 1/4", reduces belt wear (y)



Conventional Style Linking



Pioneer Conveyor's Catenary structure is engineered for optimal performance. Our patent-pending catenary tops, and training components are designed to our clients specifications to provide quick installation, easy retrieval and virtually maintenance free conveyor lines.



BELT WIDTH	A	B	C		D	
			MIN	MAX	MIN	MAX
30	40 3/4	36 5/32	7 3/16	17 1/4	25 3/4	35 13/16
36	46 3/4	42 5/32	5 5/8	15 11/16	29 1/2	39 9/16
42	48 3/4	44 5/32	6 7/8	16 15/16	27 7/8	37 15/16
48	58 3/4	54 5/32	16 3/16	26 1/4	30 5/8	40 11/16
54	64 3/4	60 5/32	13 7/8	23 15/16	35 1/2	45 9/16
60	70 3/4	66 5/32	12	22 1/16	37 3/4	47 13/16
72	82 3/4	78 5/32	9 1/2	19 9/16	37 3/4	47 13/16
84	94 3/4	90 5/32	9	19 1/16	37 3/4	47 13/16

Dimensions are subject to change. Call to confirm.

CATENARY TRAINERS

Pioneer Conveyor delivers a line catenary training structure engineered to ensure that material remains on the belt without interfering with the conveyor structure. Optimized for belt-tracking and performance the Pioneer Catenary Training lining offers a medium to heavy duty solution that can be deployed in any conveying environment or application. Both tops and bottoms work with mechanical or vulcanized belts, and are designed to be easily installable, a versatile 'out-of-the-box' solution and durable while remaining budget conscious. Available for above ground or underground application.

CATENARY TOP TRAINERS



CATENARY BOTTOM TRAINERS



CATENARY STYLE

Experiencing heat point violations?

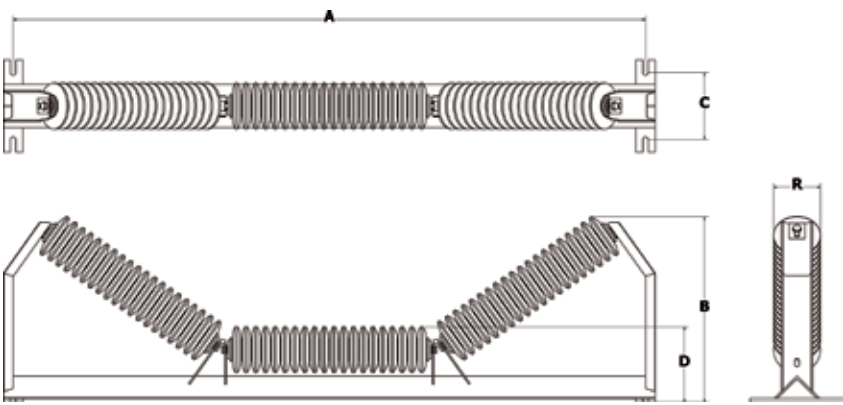
If you're experience issues with heat point violations, Pioneer Conveyor can provide high quality trainers that greatly reduce our customer's HPV.

Top and Bottom Trainers available for 36", 42", 48", 54", 60" and 72" belt widths

Dimensions are subject to change. Call to confirm.

IMPACT TOPS

Pioneer Conveyor offers various impact structures to eliminate structure damage at any impact point in a conveyor system. Individual impact top idlers, cross belt sliders or bolt down slider beds are available for various belt sizes and applications.



Belt Width	A	B	C	D
18	27	12 9/32	5 3/4	8 5/16
24	33	13 5/8	5 3/4	8 5/16
30	39	14 1/2	5 3/4	8 5/16
36	45	15 15/16	5 3/4	8 5/16
42	51	17 1/16	7 1/2	8 5/16
48	57	18 1/4	7 1/2	8 5/16
54	63	20 1/4	9	8 5/16
60	69	20 1/2	9	8 5/16

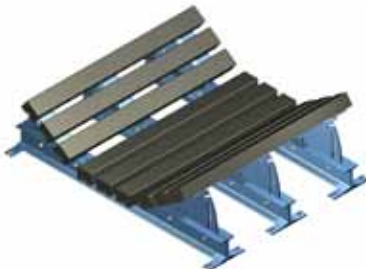
Dimensions are subject to change. Call to confirm.

CROSS BELT SLIDERS



Cross Belt Sliders can be deployed for a minimal maintenance impact application. Shown here as part of a Pioneer Tail Piece assembly. Available in various sizes and can be customized to meet the customers specifications.

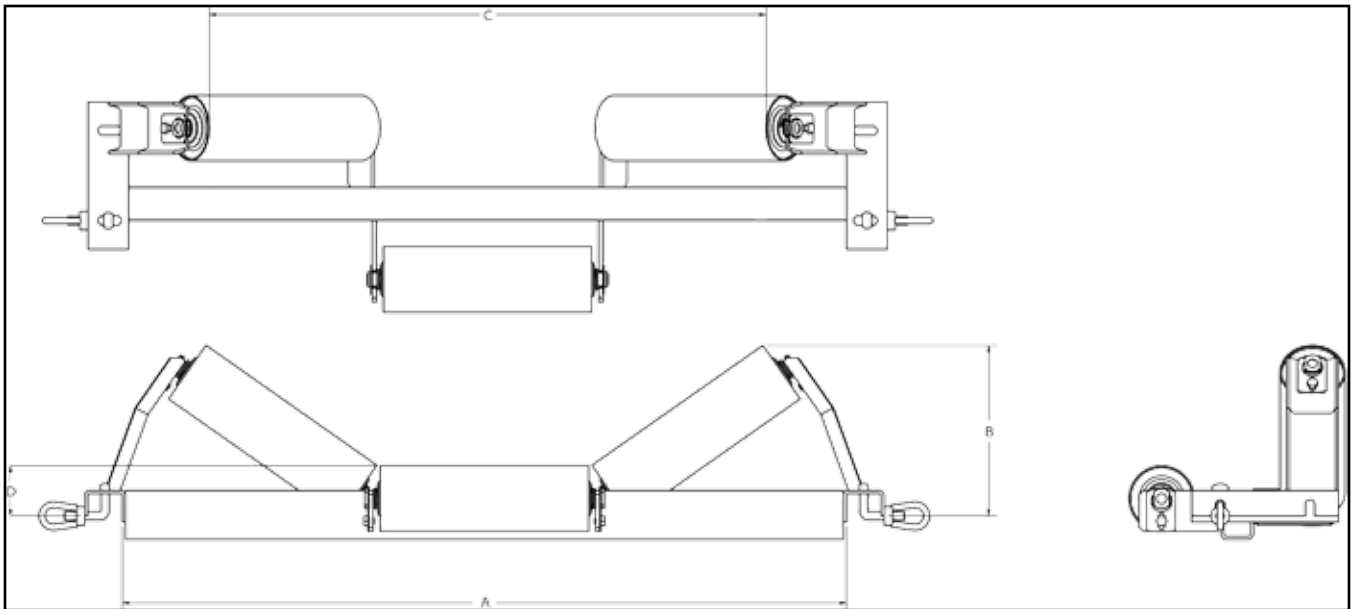
BOLT DOWN SLIDER BEDS



Pioneer Bolt-on Slides are available in CEMA C or CEMA D specs, and also can be custom designed and manufactured to suites the needs of your mine. Available in standard belt widths: 18, 24, 30, 36, 42, 48, 54, 60, 72 and 84.

IMPACT STRUCTURE

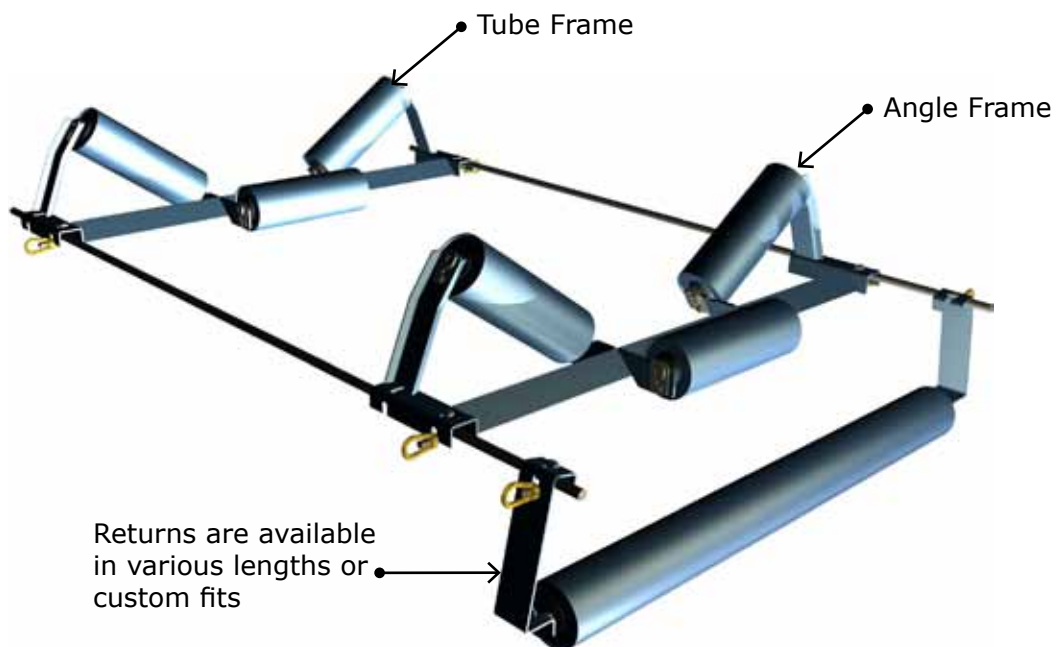
LA TUBE / ANGLE FRAME TROUGHING IDLERS



Belt Width	A	B		C		D	
		Ø 4	Ø 5	Ø 4	Ø 5	Ø 4	Ø 5
30	36 3/8					3 1/8	3 19/32
36	44 3/8	10 13/32	10 13/16	33 7/8	33 5/16	3 1/8	3 19/32
42	50 1/2	11 15/32	11 7/8	39 5/16	38 5/16	3 1/8	3 19/32
48	56 1/2				43 25/32	3 1/8	3 19/32
54	62 9/16				48 27/32	3 1/8	3 19/32
60	68 9/16					3 1/8	3 19/32

Dimensions are subject to change. Call to confirm.

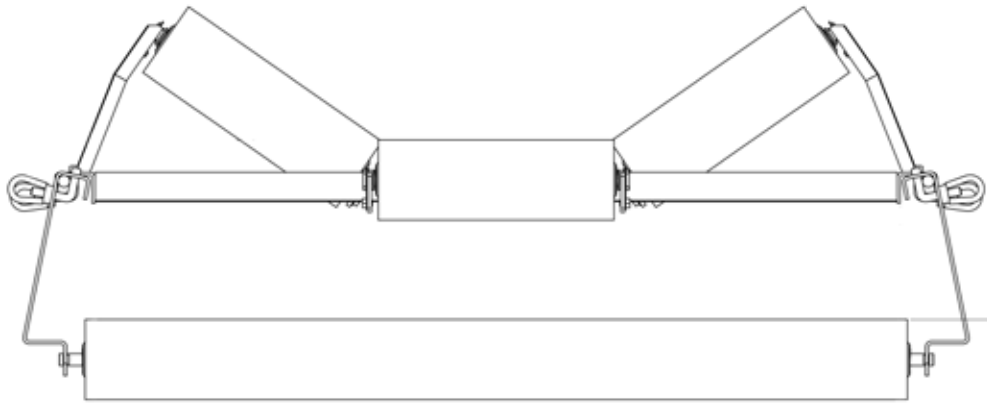
LA STYLE WIRE ROPE STRUCTURE



RETRO-FIT

LA WIRE ROPE STYLE

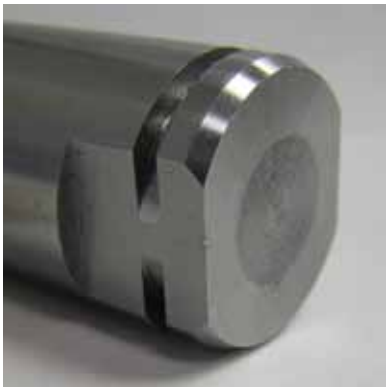
LA Wire Rope Style is available in belt widths of 30, 36, 42, 48, 54 and 60.



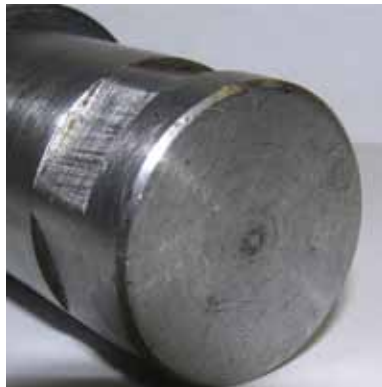
** Available with various size return brackets.*

RETROFIT REPLACEMENT IDLERS

Pioneer Conveyor offers a variety of retrofit and replacement capabilities for all steel and impact idlers. Retrofits are available for any frame style, and provides a seamless transition for adapting retrofits to your custom application.



LA STYLE



BIG HUB STYLE



CUSTOM ADAPTERS



DUAL-APPLICATION



30MM TO 3/4"
REPLACEMENT



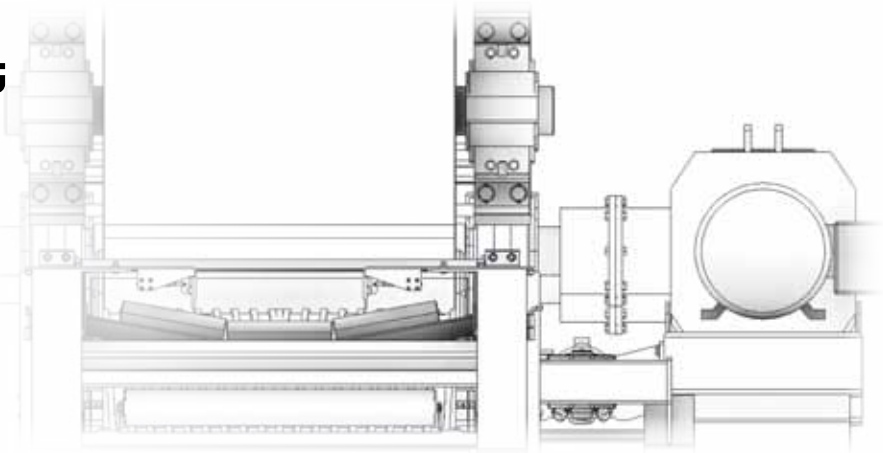
PIONEER CATENARY

Pioneer Conveyor's terminal groups and conveyor components are engineered to handle all bulk material handling requirements. Terminal group components are prototype simulated, and fabricated to assure minimal maintenance and ease of installation. All components are applied to application specific scenarios to determine optimal performance across all elements of the conveying system.

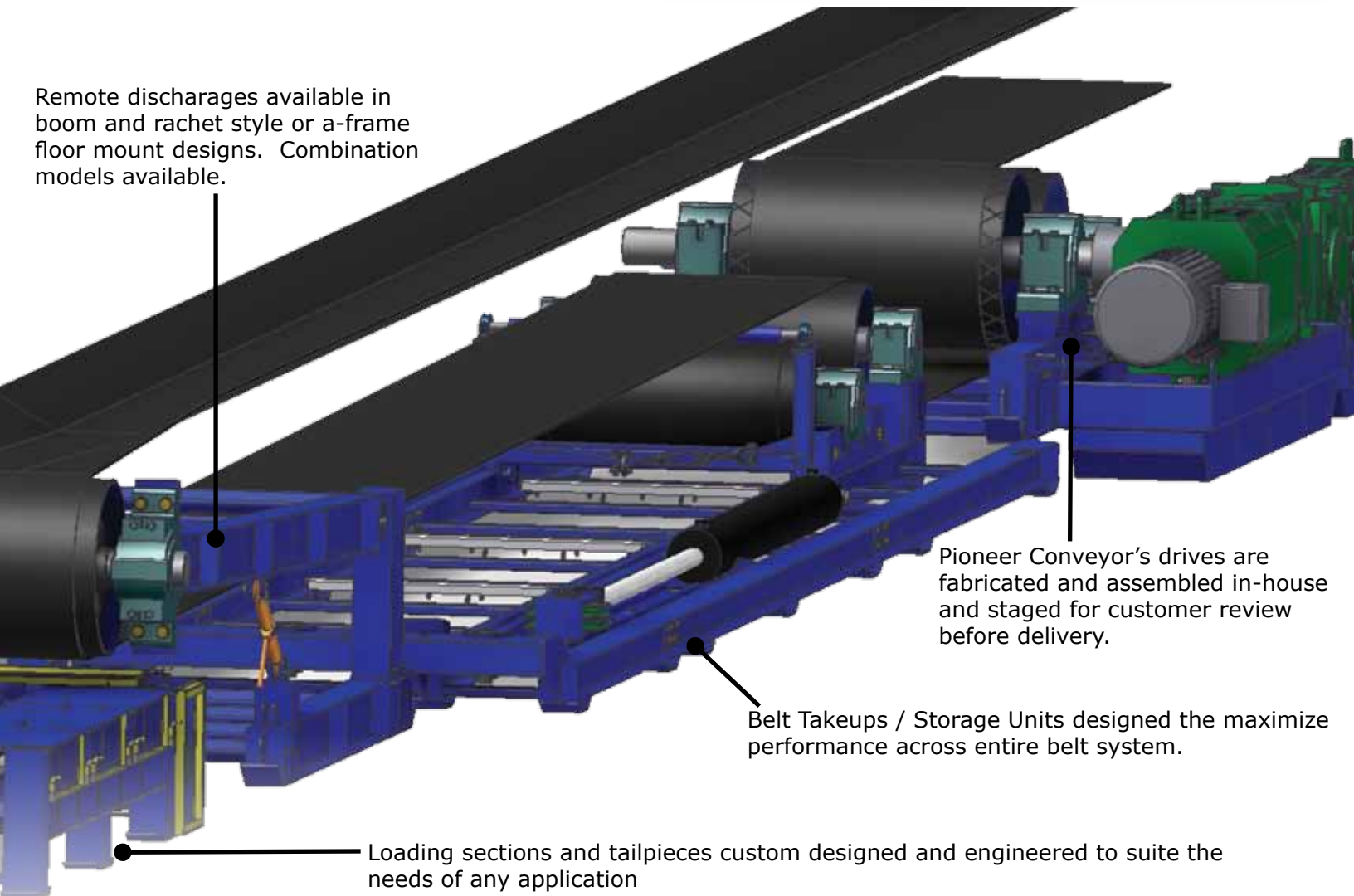
Primary components are available for the customer's underground or surface needs, and can be designed to work with existing conveyor components. All terminal group components are designed heavy-duty for any bulk material handling needs while maintaining cost efficient solutions.

FEATURED COMPONENTS

- Conveyor Belt Drives
- Remote Discharges / Combo Drives
- Belt Take Ups / Storage Units
- Tail Pieces / Take ups
- Custom Designs



Remote discharges available in boom and ratchet style or a-frame floor mount designs. Combination models available.



Pioneer Conveyor's drives are fabricated and assembled in-house and staged for customer review before delivery.

Belt Takeups / Storage Units designed the maximize performance across entire belt system.

Loading sections and tailpieces custom designed and engineered to suite the needs of any application

BELT DRIVES



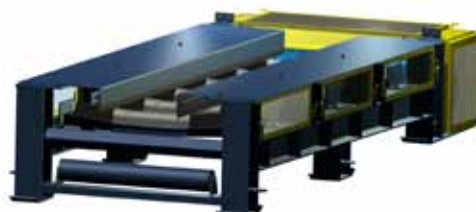
Pioneer offers a line pre-engineered base and combination drives. Engineered solutions are available and built to customer specifications. Drives are fabricated and welded with heavy duty applications in mind. Combination drives feature discharge, take-up and drive pulley. All drives are built to be easily installed and easily moved.

TAKE UPS / BELT STORAGE



Take ups are available in various lengths, or can be custom engineered to handle customer specific applications. Pioneer take-ups can be used in any bulk material handling environment to eliminate belt slack and tension.

LOADING STATIONS / TAIL SECTIONS



Pre-engineered or custom designs available for material acceptance from any loading equipment or conveyors. Tail sections are equipped with moon sliders or inline impact bars, and features removable guarding and spiral tail pulleys. Available for flat floor mount or sloped applications.

Pioneer Conveyor provides turn key projects for a variety of different industries and materials including any bulk material handling needs, and trusses, screening and loadout facilities and aggregates plants. Pioneer work's for our customers to ensure seamless project management from beginning to end whether the need is project management, fabrication and installation or technical and engineering support.

**Project:**

Turnkey Overland Project

Location:

Morgantown, West Virginia

Components & Services:

- 48" overland conveyor system
- Dual 100 ft radial stackers
- Screen building, dual 1000 thp screens
- Transfer building, drive house
- Flop and knife gates
- Directional chute design

Project:

Truck Loadout and Scale House

Location:

Bluefield, Virginia

Components & Services:

- Mechanical design and engineering
- 142' and 123' tapered end truss systems
- 12' x 120' stacker tube
- Various chutes and transfer points

**Project:**

Refuse Conveyor Project

Location:

Maidsville, West Virginia

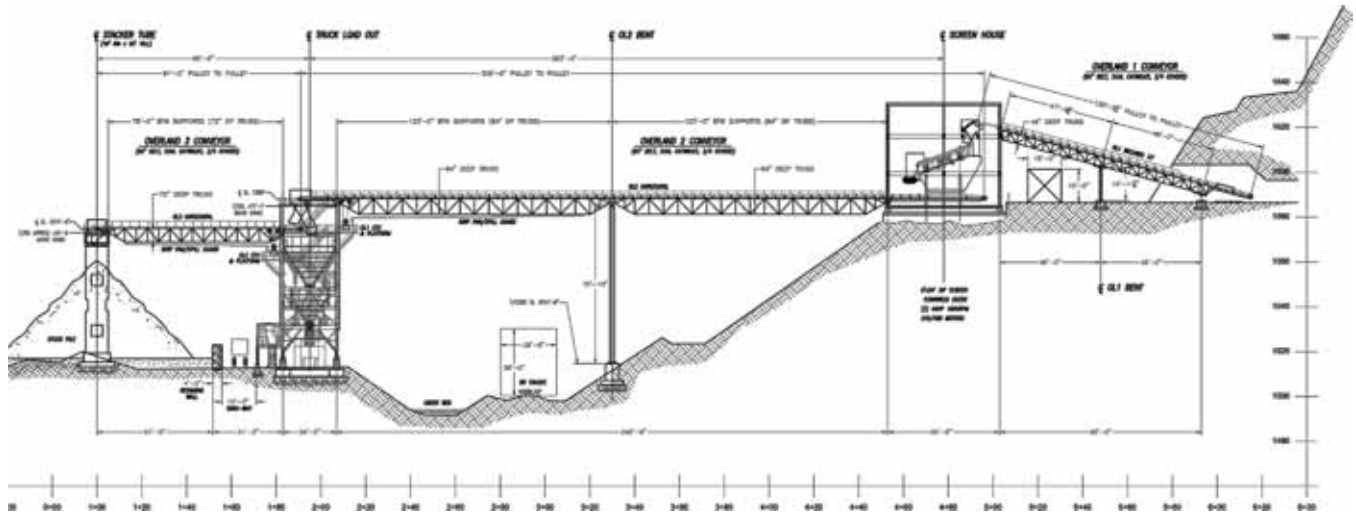
Components & Services:

- 36" overland conveyor system
- 100 ft radial stacker
- Interface w/ existing structure
- Material direction change

ENGINEERING SERVICES

Pioneer Conveyor engineering services specialize in complex material handling and bulk conveyor systems for heavy industrial and mining facilities. All technical services and products required for facility systems are engineered in-house using state-of-the-art technologies. Pioneer Conveyor engineering can provide developmental concepts and prototypes, general arrangement drawings for bid packages, detail and fabrication drawings and site installation plans.

CONVEYOR SYSTEM ENGINEERING

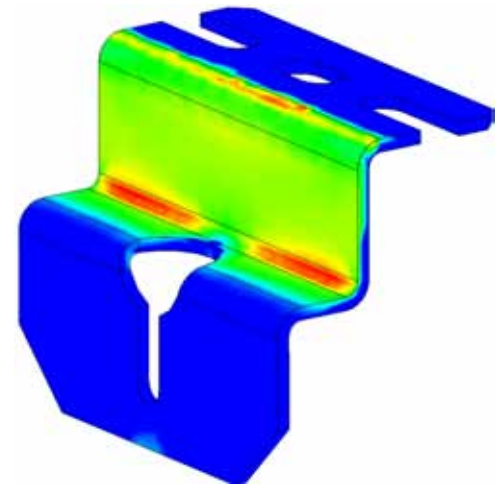


DIGITAL PROTOTYPING

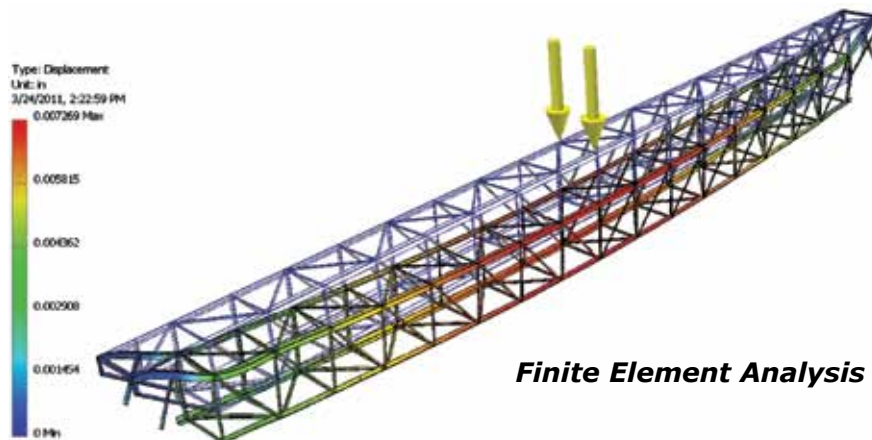
Stress Analysis

- Early design optimization
- Dynamically simulate application conditions
- Understand load points
- Create a safer component

Pioneer Conveyor constructs digital prototypes of all conveyors, components and design elements to optimize parts and material usages. Using these technologies allows our engineers to see the problem before it happens.

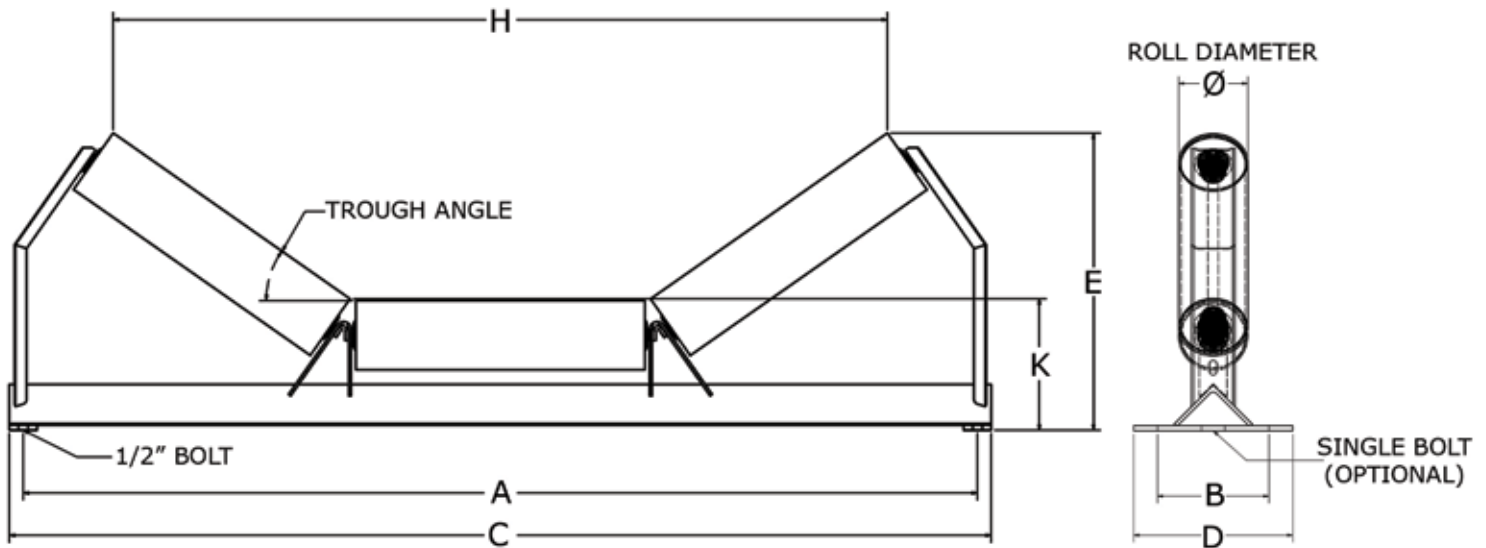


Pioneer Drop Hanger Stress Analysis



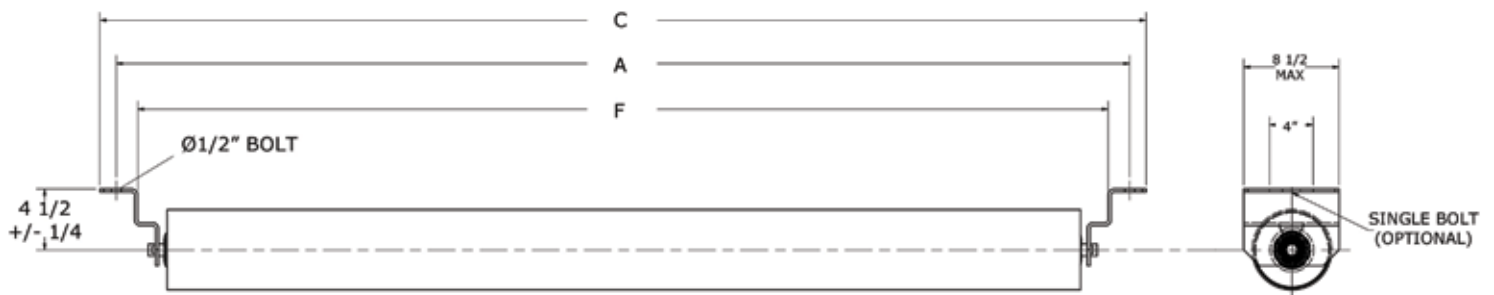
Finite Element Analysis & Design - Truss

CEMA B INLINE TOPS



Belt Width	Trough Angle	E Max		H Max		K +/- 1/4"	
		Ø 4	Ø 5	Ø 4	Ø 5	Ø 4	Ø 5
18	20	10	10 1/4	22	21 3/4	7	7 1/2
18	35	11 1/2	12	20 1/4	19 3/4	7	7 1/2
24	20	10 3/4	11 1/4	28	27 3/4	7	7 1/2
24	35	12 3/4	13 1/4	25 3/4	25 1/4	7	7 1/2
30	20	11 1/2	12	34	33 3/4	7	7 1/2
30	35	13 3/4	14 1/4	31 1/4	30 3/4	7	7 1/2
36	20	12 1/4	12 3/4	40	39 3/4	7	7 1/2
36	35	15	15 1/2	37	36 1/2	7	7 1/2
42	20	13 1/2	14	46	45 3/4	7 1/2	8
42	35	16 3/4	17 1/4	42 1/2	42	7 1/2	8
48	20	13 3/4	15	52	51 3/4	7 1/2	8
48	35	18	18 1/2	48	47 1/2	7 1/2	8

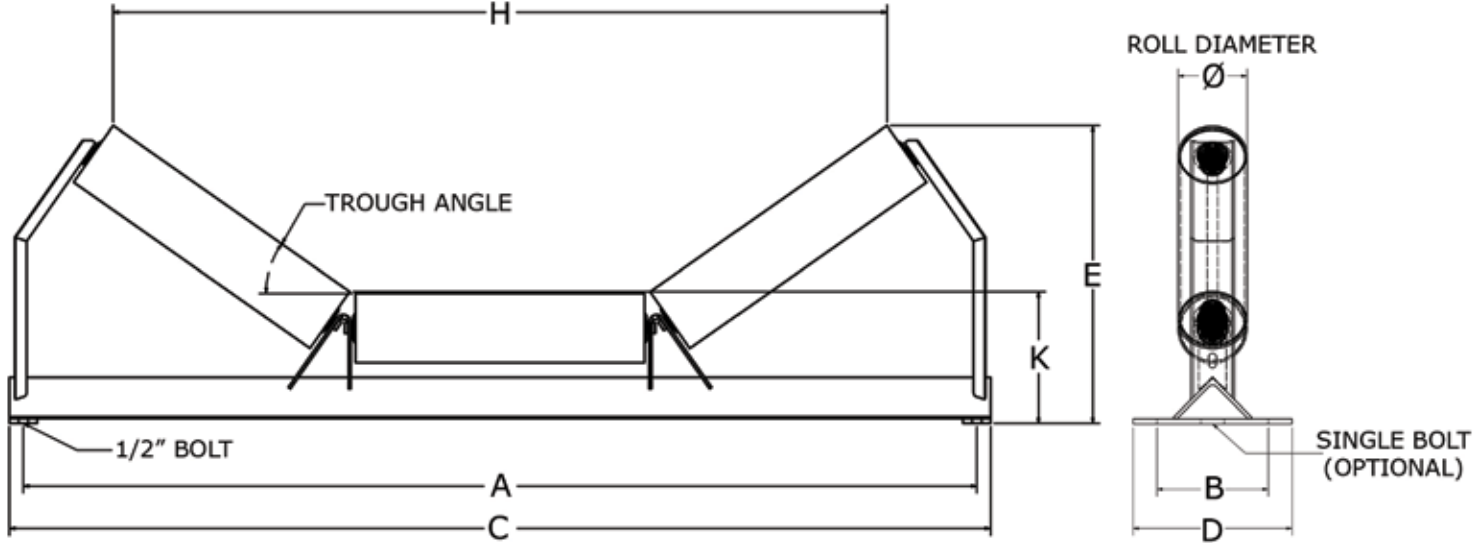
CEMA B RETURN BRACKETS



Belt Width	A Std Base	C Max	F Min
18	27	29 1/2	22
24	33	35 1/2	28
30	39	41 1/2	34
36	45	47 1/2	40
42	51	53 1/2	46
48	57	59 1/8	52

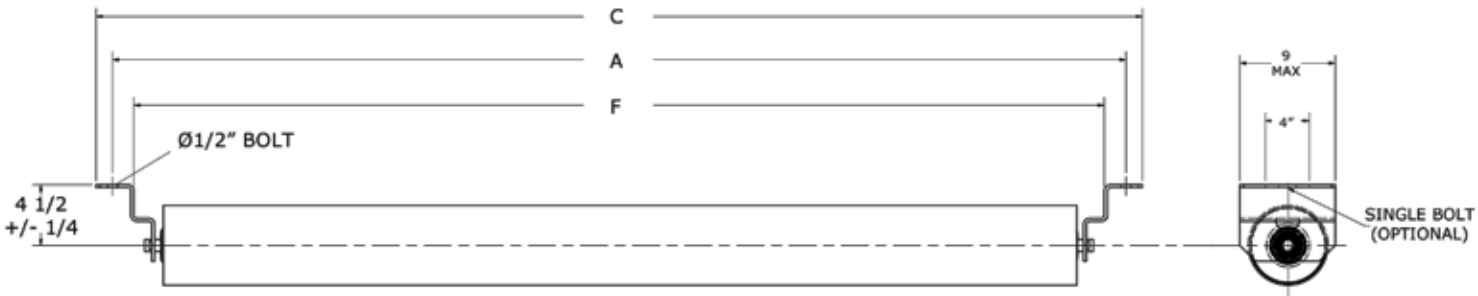
Dimensions are subject to change. Call to confirm.

CEMA C INLINE TOPS



Belt Width	Trough Angle	E Max			H Max			K (+/- 1/4")		
		Ø 4	Ø 5	Ø 6	Ø 4	Ø 5	Ø 6	Ø 4	Ø 5	Ø 6
18	35	12 1/2	13	-	21	21	3	8	8 1/2	-
24	35	13 3/4	14 1/4	14 3/4	26 1/2	26 1/2	25	8	8 1/2	9
30	35	15	15 1/2	16	32	32	30 1/2	8	8 1/2	9
36	35	16 1/4	16 3/4	17 1/4	37 1/2	37 1/2	36	8	8 1/2	9
42	35	17 3/4	18 1/4	18 3/4	43	43	41 1/2	8 1/2	9	9 1/2
48	35	19	19 3/4	20	48 1/2	48 1/2	47	8 1/2	9	9 1/2
54	35	20 1/4	21	21 1/4	49	49	47 1/2	8 3/4	9 1/4	9 3/4
60	35	21 1/2	22 1/4	22 1/2	59 1/2	59 1/2	58	8 3/4	9 1/4	9 3/4

CEMA C DROP BRACKETS

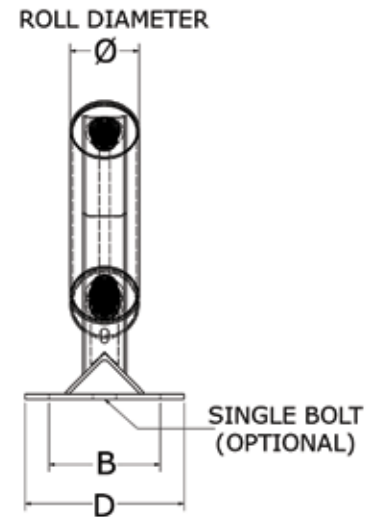
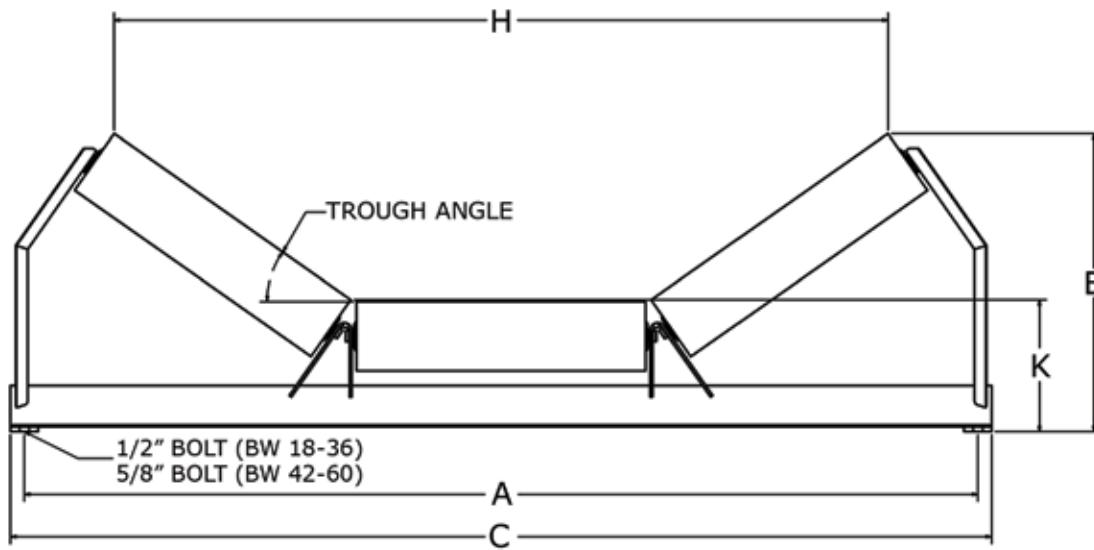


Belt Width	A Std Base	C Max	F Min
18	27	29 1/2	23
24	33	35 1/2	29
30	39	41 1/2	35
36	45	47 1/2	41
42	51	53 1/2	47
48	57	59 1/8	53

Dimensions are subject to change. Call to confirm.

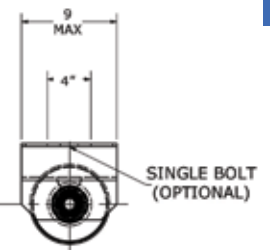
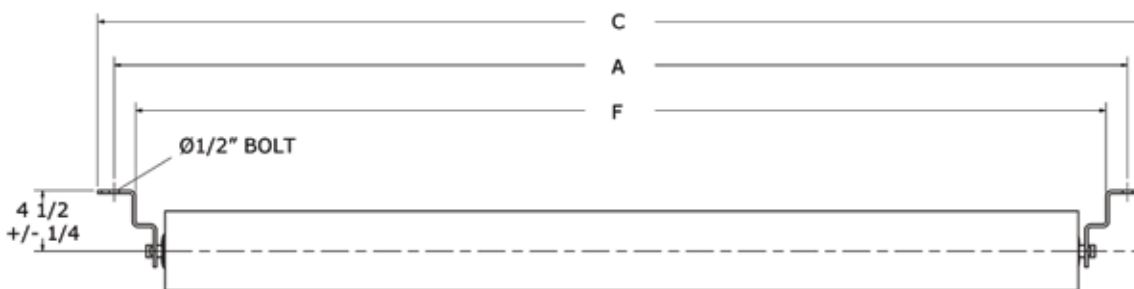
INLINE STRUCTURE

CEMA D INLINE TOPS



Belt Width	Trough Angle	E Max		H Max		K +/- 1/4"	
		Ø 5	Ø 6	Ø 5	Ø 6	Ø 5	Ø 6
24	35	14 1/4	14 3/4	26 1/2	25	8 1/2	9
30	35	15 1/2	16	32	30 1/2	8 1/2	9
36	35	16 3/4	17 1/4	37 1/2	36	8 1/2	9
42	35	18 1/4	18 3/4	43	41 1/2	9	9 1/2
48	35	19 3/4	20	48 1/2	47	9	9 1/2
54	35	21	21 1/4	49	47 1/2	9 1/4	9 3/4
60	35	22 1/4	22 1/2	59 1/2	58	9 1/4	9 3/4
72	35	25	25	68 1/2	69	9 1/2	10

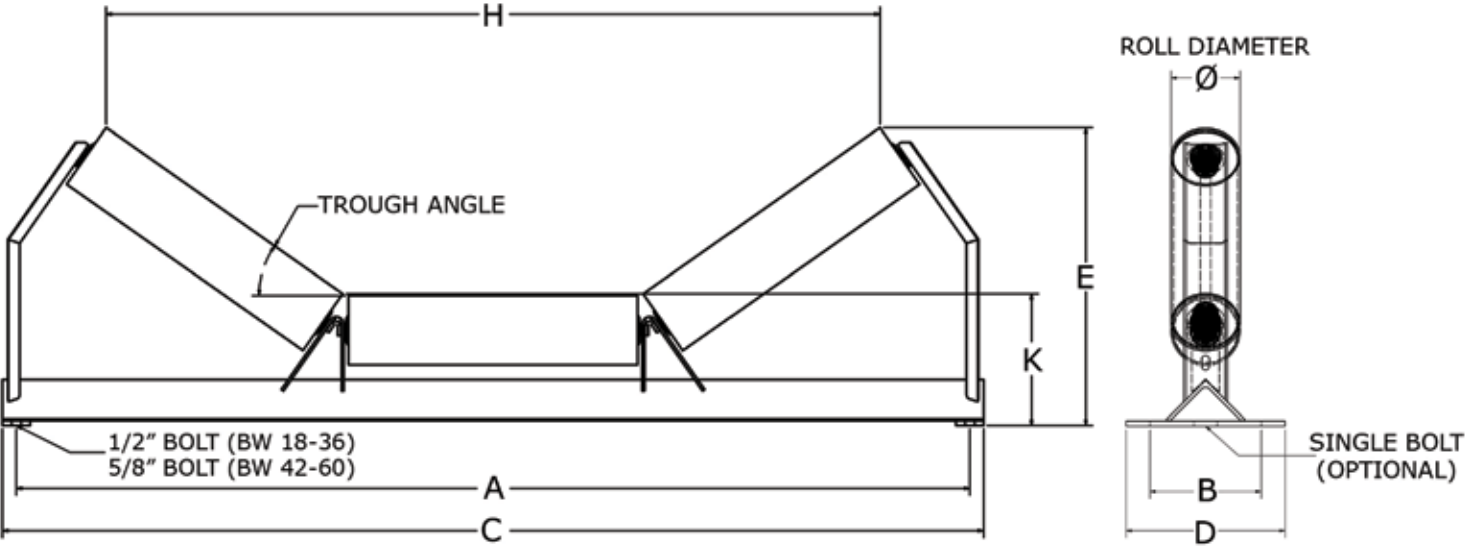
CEMA D DROP BRACKETS



Belt Width	A Std Base	C Max	F Min
24	33	35 1/2	29
30	39	41 1/2	35
36	56	47 1/2	41
42	51	53 1/2	47
48	57	59 1/8	53
54	63	65 1/2	59
60	69	71 1/2	65
66	75	77 1/2	71
72	81	83 1/2	77
78	87	89 1/2	83

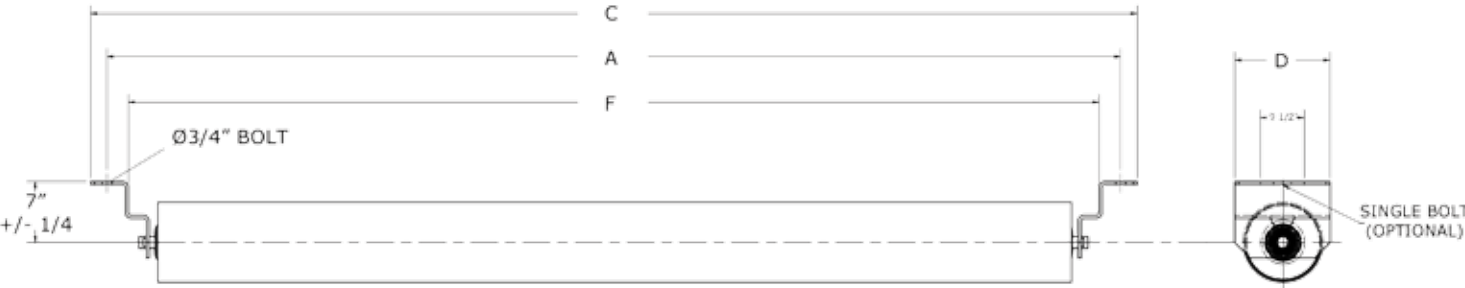
Dimensions are subject to change. Call to confirm.

CEMA E INLINE TOPS



Belt Width	Trough Angle	E Max		H Max		K +/- 1/4"	
		Ø 6	Ø 7	Ø 6	Ø 7	Ø 6	Ø 7
36	35	21	21 1/2	38	38	10 3/4	11 1/4
42	35	22 1/2	23	43 1/2	43 1/2	10 3/4	11 1/4
48	35	24	24 1/2	49	49	10 3/4	11 1/4
54	35	25 1/2	26	54 1/2	54 1/2	10 3/4	11 1/4
60	35	27	27 1/2	60	60	10 3/4	11 1/4
72	35	29	29 1/2	71	71	11 1/2	12
84	35	31	31 1/2	82	82	11 3/4	12 1/4
96	35	33	33 1/2	93	93	11 3/4	12 1/4

CEMA E BOTTOM RETURNS



Belt Width	A Stnd Base	C Max	D Max	F Min
36	45	48 1/2	12 1/2	41
42	51	54 1/2	12 1/2	47
48	57	60 1/2	12 1/2	53
54	63	66 1/2	12 1/2	59
60	69	72 1/2	12 1/2	65
66	75	78 1/2	12 1/2	71
72	81	84 1/2	12 1/2	77
78	87	90 1/2	12 1/2	83
84	93	96 1/2	12 1/2	89
90	99	102 1/2	12 1/2	95
96	105	108 1/2	12 1/2	101
102	111	114 1/2	12 1/2	107

Dimensions are subject to change. Call to confirm.
WWW.PIONEERCONVEYOR.COM

INLINE STRUCTURE

CONVEYOR SPECIFICATION ORDER FORM

Customer Name: _____

Fax Number: _____

Company Name: _____

Customer Email: _____

Phone Number: _____

Conveyor HorsePower Calculations

*Conveyor Length _____

*Conveyor Lift _____

*Belt information _____

Material _____

Desired Belt Speed _____

**required*

Belt Drive

Voltage: _____

Choose Startup Type:

Fluid Coupling / VFD / Crossline Start

Drive Location:

Surface / Underground

Drive Type:

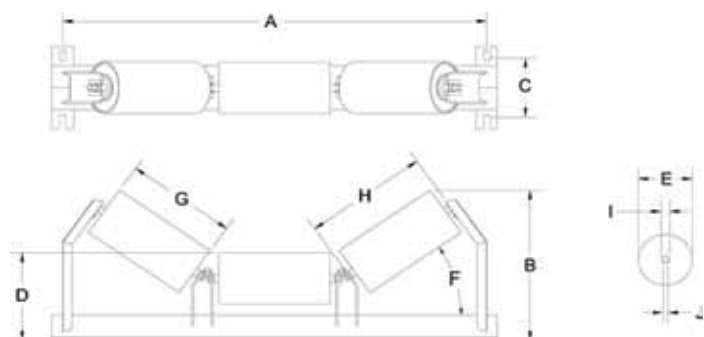
Shaft Mount / Direct Drive / Belt or Chain

Preferred Reducer Mfg: _____

Take-up Style:

Gravity / Hydraulic / Screw

Idler Retrofit Specification:



A. Bolt Hole Center (Length) _____

B. Overall Height _____

C. Bolt Hole Center (Width) _____

D. Height to Center Roll _____

E. Can Diameter _____

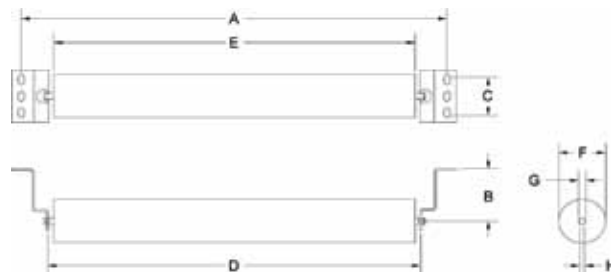
F. Troughing Degree _____

G. Can Length _____

H. Shaft Notch Center to Center _____

I. Notch Measurement / Hub Style _____

J. Shaft Diameter _____



A. Bolt hole centers (length) _____

B. Drop Hanger Height _____

C. Bolt Hole Center (Width) _____

D. Can Diameter _____

E. Shaft Diameter _____

F. Notch / Hub Style _____

G. Shaft Notch to Notch Center _____

Idler Manufacture _____

Belt Width _____

Mine/Plant _____

Amount Required _____

Additional Information

Structure Configuration (choose one)

- Pioneer Style ☐
- Catenary Style ☐
- L.A. Style ☐
- Inline CEMA Series ☐
- Continental Style ☐
- Other _____

Idler Type

Impact ☐

Steel ☐

CEMA Rating

B ☐ E ☐

C ☐ F ☐

D ☐



**For further product information, contact us directly or
visit our website at www.pioneerconveyor.com**