

PRIMARY HEAD PULLEY BELT CLEANERS

Patented



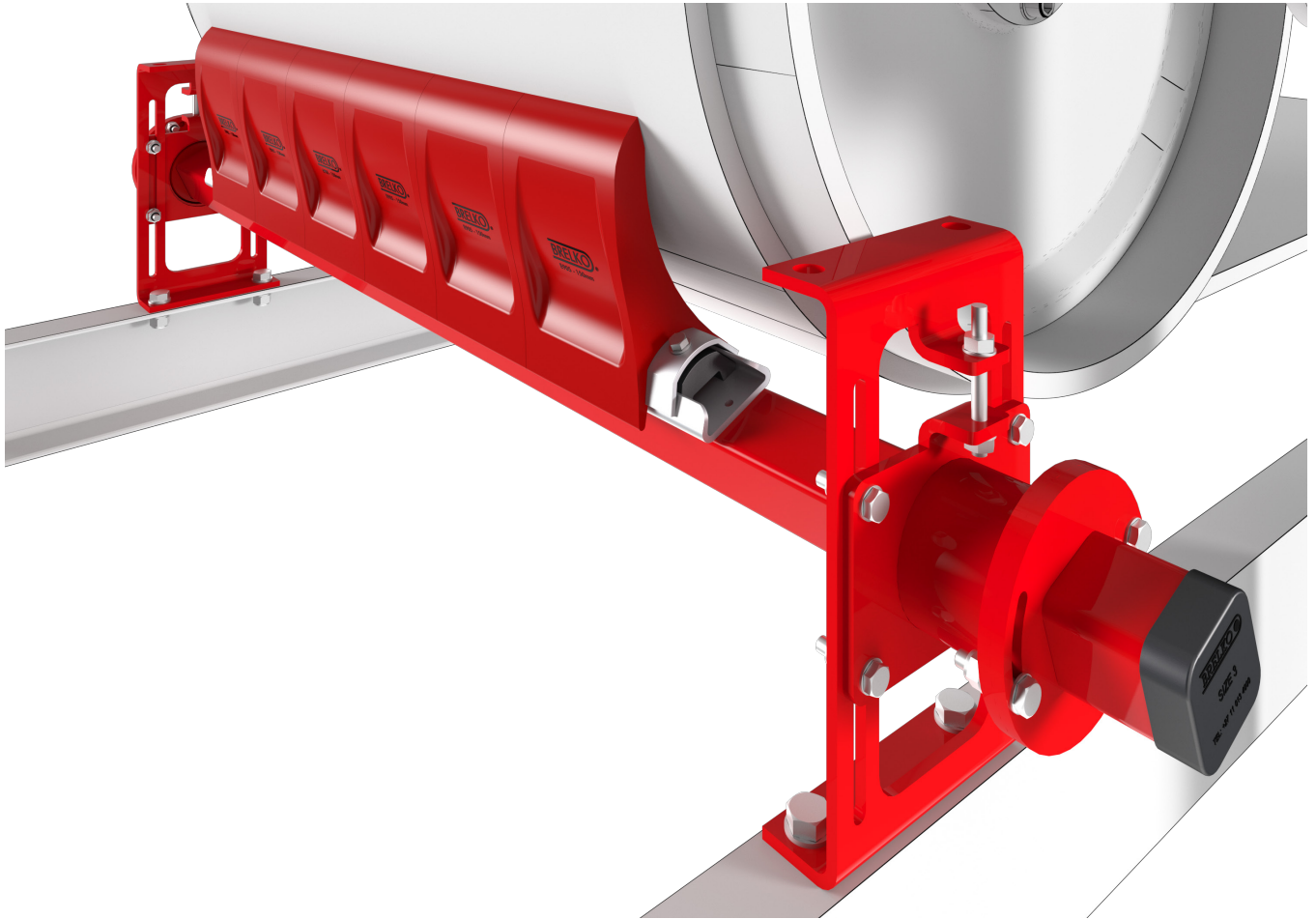
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018



Table of Contents

1.	Disclaimer _____	4
2.	Safety Measures and Warnings _____	4
2.1.	The following symbols may be used in this manual: _____	4
3.	General Information _____	4
3.1.	Technical Specifications _____	5
3.2.	Intended Use _____	6
3.3.	Component Overview _____	7
3.4.	Parts List and Hardware _____	8
3.5.	Dimensions _____	9
3.6.	Order Information _____	14
4.	Before Installing Belt Cleaners _____	16
4.1.	Receiving the Goods _____	16
4.2.	Work Safety _____	16
4.3.	Handling _____	16
4.4.	Storage _____	16
4.5.	Preparation for installing Belt Cleaners _____	17
4.6.	Recommended Tools List _____	18
5.	Installation _____	19
6.	After Installing Belt Cleaners _____	21
7.	Maintenance _____	22
7.1.	New Installation _____	22
7.2.	Routine Visual Inspection (every 2 to 4 weeks) _____	22
7.3.	Routine Physical Inspection (every 6 to 8 weeks) _____	22
8.	Troubleshooting Guide _____	23
9.	EU Declaration of Conformity _____	24

INSTALLATION, OPERATING & MAINTENANCE MANUAL



PRIMARY HEAD PULLEY BELT CLEANERS

PATENTED

Project Name	:	
Project Number	:	
Order Number	:	
	:	
Model Number	:	
Purchase Date	:	
Purchased From	:	
Installation Date	:	

Model number information can be found on the label on the belt cleaner box.

This information will be helpful for any enquires or questions about the Belt Cleaner replacement parts, specifications, or troubleshooting.

1. Disclaimer

Brelko Conveyor Products (Pty) Ltd hereby disclaims any liability for: damage due to contamination of the material; user's failure to inspect, maintain and take reasonable care of the equipment; injuries or damage resulting from use or application of this product contrary to instructions and specifications contained herein. Brelko's liability shall be limited to repair or replacement of equipment shown to be defective.

2. Safety Measures and Warnings

Observe all safety rules given herein along with owner and Government standards and regulations. Know and understand lockout/tag-out procedures as defined by National Standards Institutes, National Standard for Personnel Protection - Lockout/Tag-out of Energy Sources - Minimum Safety Requirements and Occupational Health and Safety.

2.1. The following symbols may be used in this manual:



DANGER

: immediate hazards that will result in severe personal injury or death.



WARNING

: hazards or unsafe practices that could result in personal injury.



CAUTION

: hazards or unsafe practices that could result in product or property damages.

IMPORTANT

: instructions that must be followed to ensure proper installation/operation of equipment.

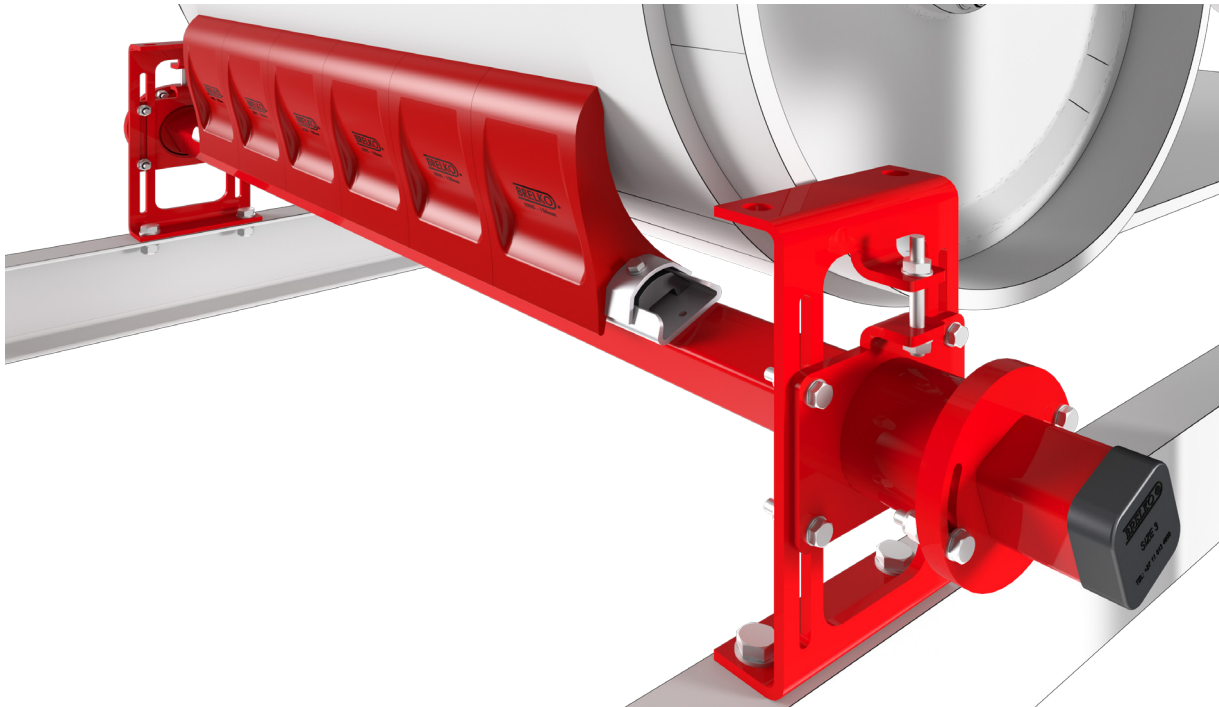
NOTE

: general statements to assist the reader.

3. General Information

Brelko Belt Cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Belt Cleaner is installed a regular maintenance program should be set up. This program will ensure that the Belt Cleaner operates at optimal efficiency and problems can be identified and fixed before the Belt Cleaner stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. Belt Cleaners operate along the length of the conveyor and are in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and by following the correct lockout/tag-out procedures.

3.1. Technical Specifications



APPLICATIONS

- Primary head pulley belt cleaners are primarily intended for use in conveyor bulk material handling applications as the first stage in a multiple cleaner system, the primary belt cleaner removes the majority of material adhering to the belt, leaving only a thin layer of sticky fines.
- Primary head pulley belt cleaners are typically installed on the face of the head pulley, just below the material trajectory.

FEATURES

- Adjustable Brelko torsion twist tensioners allow the cleaner to maintain a constant pressure on the belt, are self-adjusting and allow the cleaner to deflect away from any obstruction, a significant safety feature.
- Specially formulated polymeric blades give maximum life, and keep the possibility of damage to belt repairs and splices to a minimum.
- Patented V-base blade mounting makes blade changing quick and simple.
- Multi-blade construction allows individual blades to deflect for minor obstructions and adapt to belt profile.
- Streamlined cleaner construction prevents material build-up on the cleaner.

SPECIFICATIONS

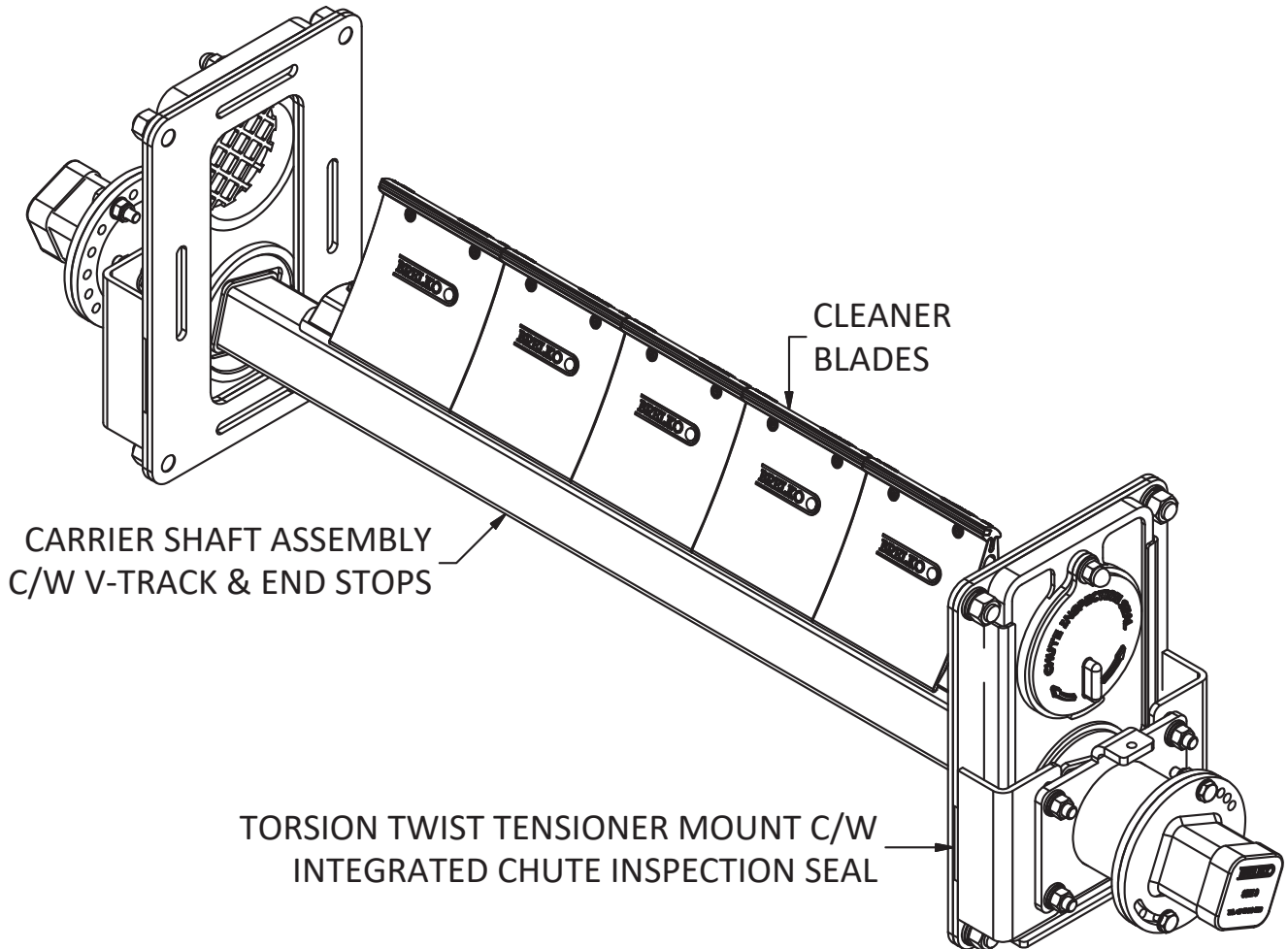
Belt Cleaner	Recommended Belt Width	Max. Belt Speed (m/sec)	Max. Service Temperature	Handles Reversing Belts & Rollback	Available Blade Material		
					Urethane	Tungsten (T3)	Ceramic
E905	400 to 2400	3.0 to 5.0*	90°C Continuous 120°C Intermittent	X	X		
E952	400 to 2400	8.0	90°C Continuous 120°C Intermittent	X	COMPOSITE	X	X
E955	400 to 2400	8.0	140°C	X		X	

Please note: Stainless steel mainframe and mounts are available for corrosive environments.

- ()* Max. Belt Speed - 120mm blades = 3.0
- 150mm blades = 5.0

3.2. Intended Use

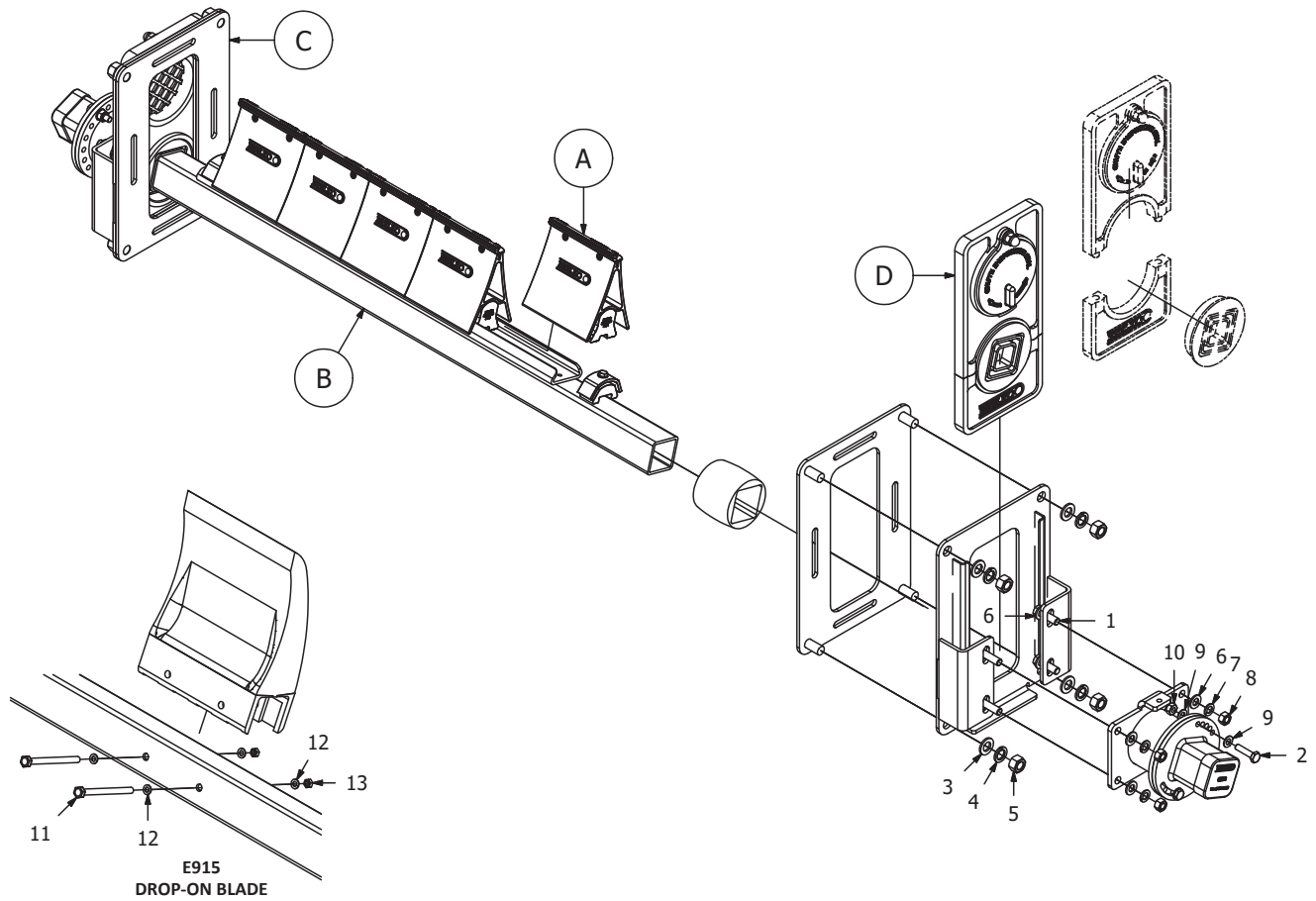
Primary head pulley belt cleaners are primarily intended for use in conveyor bulk material handling applications as the first stage in a multiple cleaner system, the primary belt cleaner removes the majority of material adhering to the belt, leaving only a thin layer of sticky fines.



Primary head pulley belt cleaners are generally tensioned at low pressure against the belt. Low blade-to-belt pressure allows the primary cleaner to be positioned at the scraper cleaning angle against the belt and are typically installed on the face of the head pulley, just below the material trajectory so that the scrapings will return to the main material stream making the conveyor systems safer and more productive.

Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.3. Component Overview



IMPORTANT NOTE:
MODEL E955 DEPICTED IN THE VIEW

(SHEET 1 OF 2)

3.4. Parts List and Hardware

ITEM No.	DESCRIPTION	SIZE (mm)	BELT WIDTH (mm)	CODE
A	CLEANER BLADE OPTIONS: -			
	E905 - POLYURETHANE	120	400 TO 0800	2-7.8
	E905 - POLYURETHANE	150	850 TO 1400	2-7.81
	E915 - POLYURETHANE (DROP ON)	250	1350 TO 2400	2-7.82
	E952-T3 X 4MM - COMPOSITE POLYURETHANE - STL	150	400 TO 2400	2-6.52
	E952-T3 X 4MM - COMPOSITE POLYURETHANE - CRM	150	400 TO 2400	2-6.53
	E955-T3 X 4MM	150	400 TO 2400	2-6.1.9
B	E905 / E952 / E955	SIZE 3	400 TO 1200	PLEASE SPECIFY BELT WIDTH
	CARRIER ASSEMBLY INCL. SHAFT, V-TRACK & END STOPS	SIZE 4	1350 TO 2400	
	E915 (DROP ON)			
	CARRIER ASSEMBLY INCL. SHAFT & END STOPS	SIZE 4	1350 TO 2400	
C	E905 / E952 / E955			
	TORSION TWIST TENSIONER MOUNT ASSEMBLY INCL. CHUTE INSPECTION SEAL & HARDWARE	SIZE 3	400 TO 1200	2-2.3-2
		SIZE 4	1350 TO 2400	2-2.3-3
	E915			
	TORSION TWIST TENSIONER MOUNT ASSEMBLY INCL. CHUTE INSPECTION SEAL & HARDWARE	SIZE 4	1350 TO 2400	2-2.3-4
D	CHUTE INSPECTION SEAL & BOSS ASSEMBLY	SIZE 3 & 4	400 TO 2400	2-10.3

STL = Steel / CRM = Ceramic

Hardware

Torsion Twist Tensioner Mount Size 3 & Size 4

ITEM No.	DESCRIPTION	QTY.
1	BOLT - HEX - M12 X 40 -ZP	4
2	SET SCREW - HEX HD - M8 X 35 - ZP	2
3	WASHER - FLAT - M16 - ZP	4
4	WASHER - SPRING - M16 - ZP	4
5	NUT - HEX - M16 - ZP	4
6	WASHER - FLAT - M12 - ZP	8
7	WASHER - SPRING - M12 - ZP	4
8	NUT - HEX -M12 - ZP	4
9	WASHER - FLAT - M8 - ZP	4
10	NUT - NYLOC - M8 - ZP	4

Note: for single E915 drop-on blade

E915 Drop-on Blade

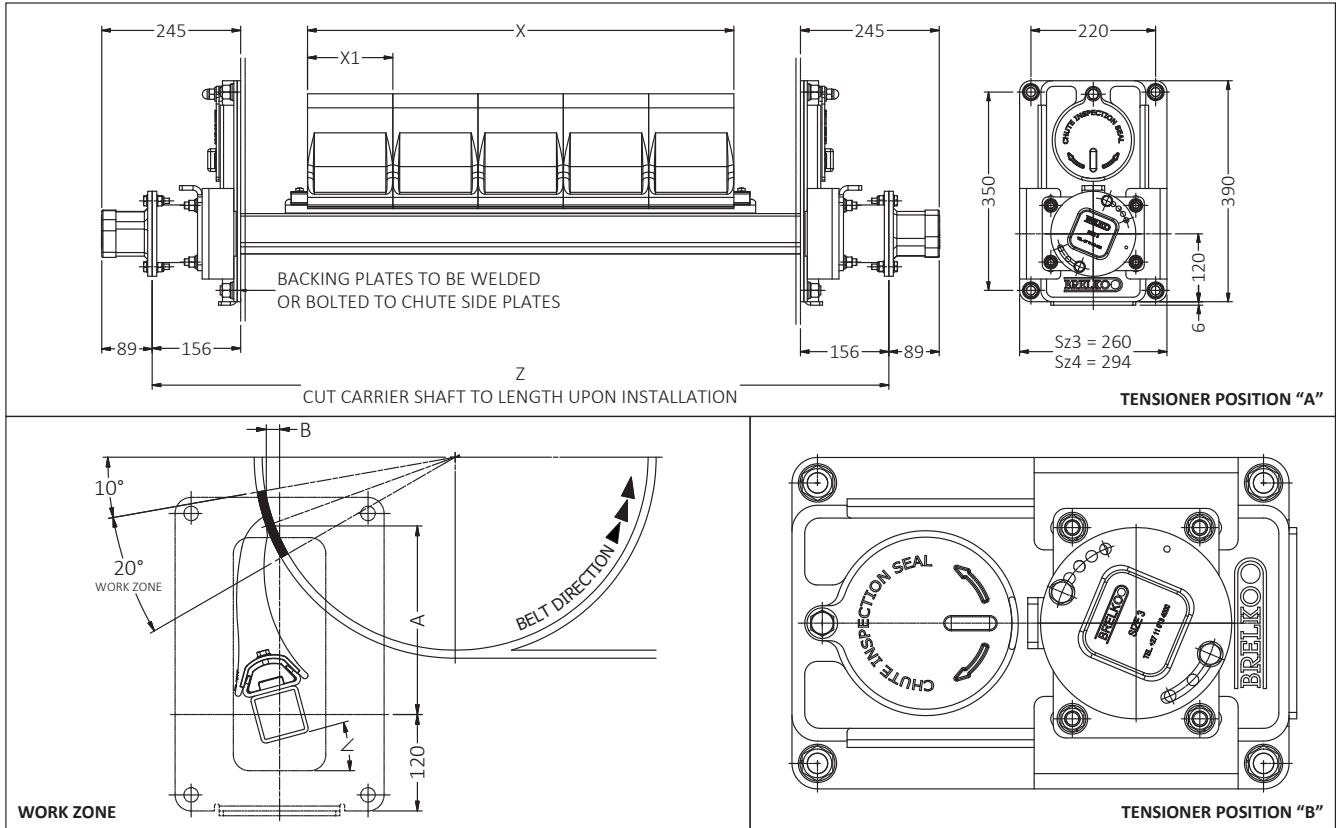
ITEM No.	DESCRIPTION	QTY.
11	BOLT - HEX - M10 X 120 - ZP	2
12	WASHER - FLAT - M10 - ZP	4
13	NUT - HEX - M16 - ZP	2

Note: for single E915 drop-on blade

(SHEET 2 OF 2)

3.5. Dimensions

3.5.1. Standard Twist Tensioner Mount - E905



E905	BELT WIDTH	400	450	500	600	650	750	800	850	900	1000	1050	1200	
	No. BLADES	3	3	4	4	5	6	6	5	5	6	6	7	
	SIZE RANGE	3												
	ANGLE < (25°)	MIN	20°											
		MAX	25°											
	A	192						240						
	B	58						61						
	X	360	360	480	480	600	720	720	750	750	900	900	1050	
X1	120						150							
Z	1500						2000							

E905	BELT WIDTH	1350	1400	1500	1600	1650	1800	2000	2100	2200	2400		
	No. BLADES	8	8	9	10	10	11	12	13	13	14		
	SIZE RANGE	4											
	ANGLE < (25°)	MIN	20°										
		MAX	25°										
	A	247											
	B	64											
	X	1200	1200	1350	1500	1500	1650	1800	1950	1950	2100		
X1	150												
Z	2500					3000							

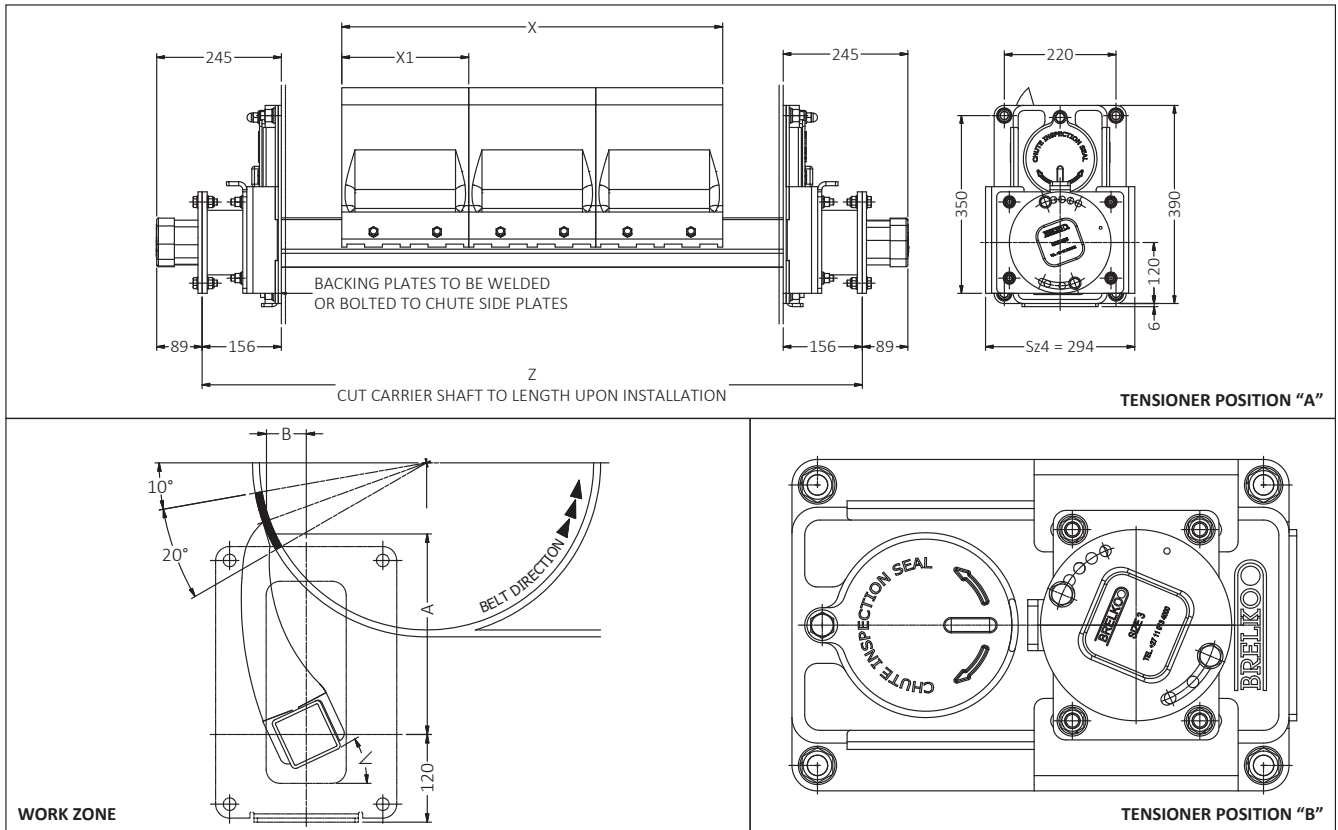
Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.



All technical and dimensional information is subject to change.
All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.



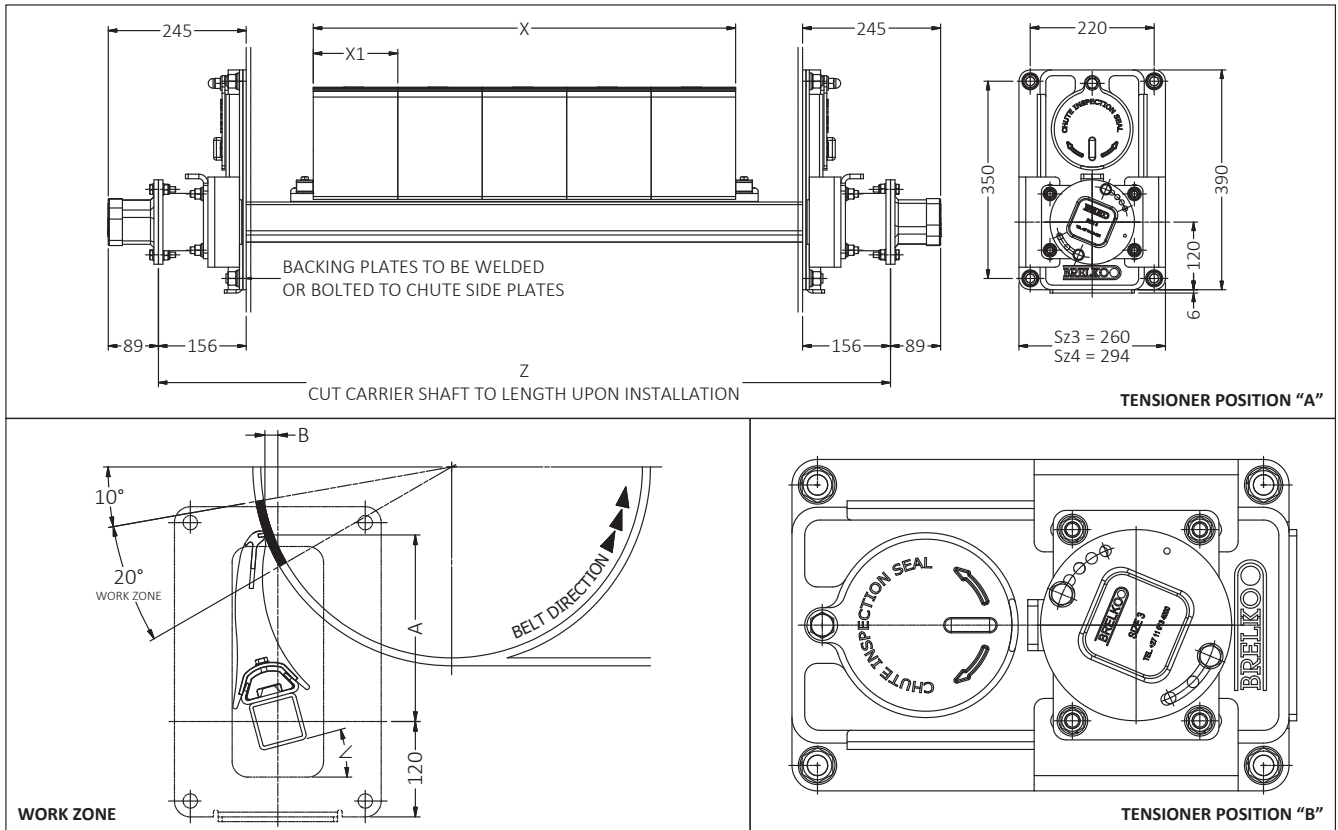
3.5.2. Standard Twist Tensioner Mount - E915



E915	BELT WIDTH	900	1000	1050	1200	1350	1400	1500	1600	1650	1800	2000	2100	2200	2400	
	No. BLADES	3	3	4	4	5	5	5	6	6	6	7	7	7	8	
	SIZE RANGE	4														
	ANGLE < (25°)	MIN	20°													
		MAX	25°													
	A	304														
	B	62														
	X	750	750	1000	1000	1250	1250	1250	1500	1500	1500	1750	1750	1750	1750	2000
	X1	250														
Z	2000				2500				3000							

Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.5.3. Standard Twist Tensioner Mount - E952



E952	BELT WIDTH	400	450	500	600	650	750	800	850	900	1000	1050	1200	
	No. BLADES	2	2	3	3	3	4	4	5	5	6	6	7	
	SIZE RANGE	3												
	ANGLE < (25°)	MIN	20°											
		MAX	25°											
	A	228												
	B	57												
	X	300	300	450	450	450	600	600	750	750	900	900	1050	
	X1	150												
Z	1500						2000							

E952	BELT WIDTH	1350	1400	1500	1600	1650	1800	2000	2100	2200	2400		
	No. BLADES	8	8	9	10	10	11	12	12	13	13		
	SIZE RANGE	4											
	ANGLE < (25°)	MIN	20°										
		MAX	25°										
	A	235											
	B	60											
	X	1200	1200	1350	1500	1500	1650	1800	1800	1950	1950		
	X1	150											
Z	2500					3000							

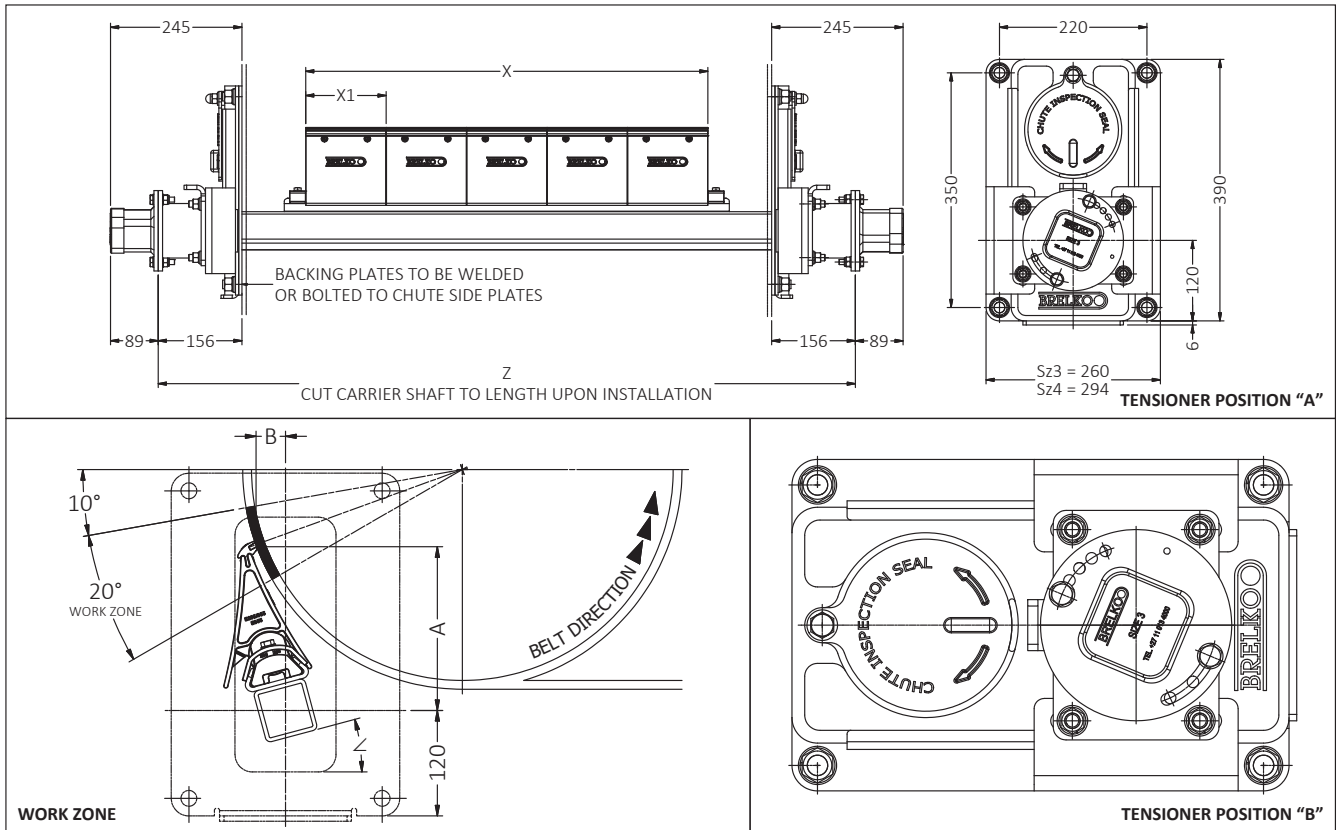
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3.5.4. Standard Twist Tensioner Mount - E955

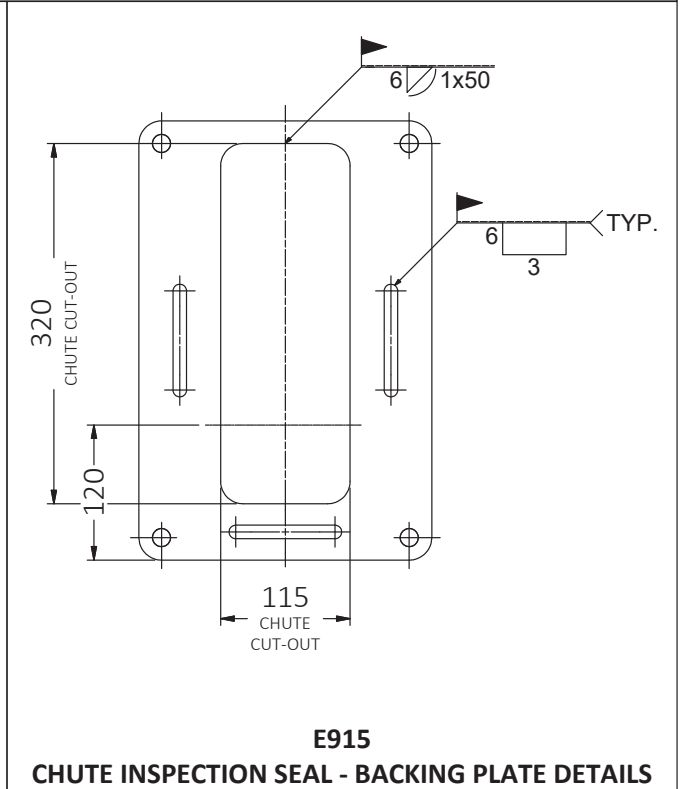
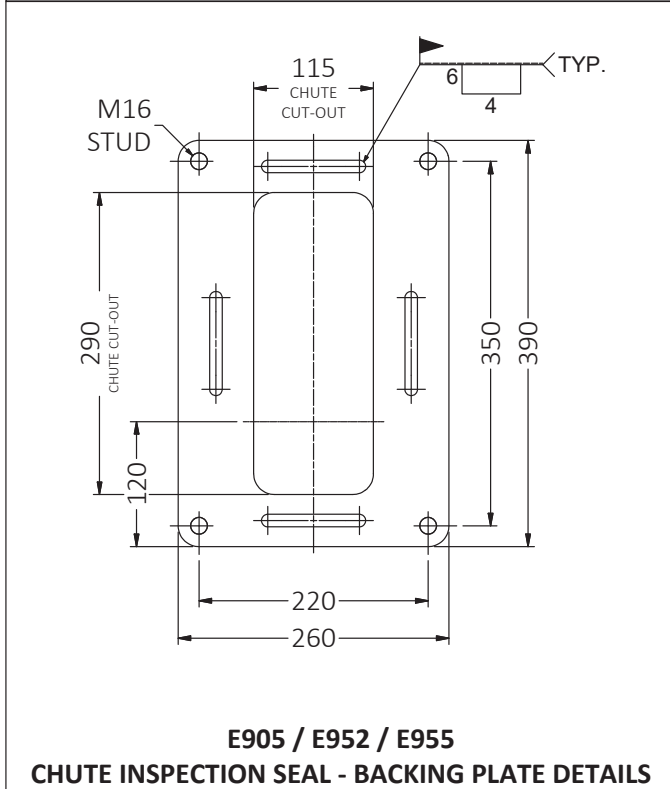
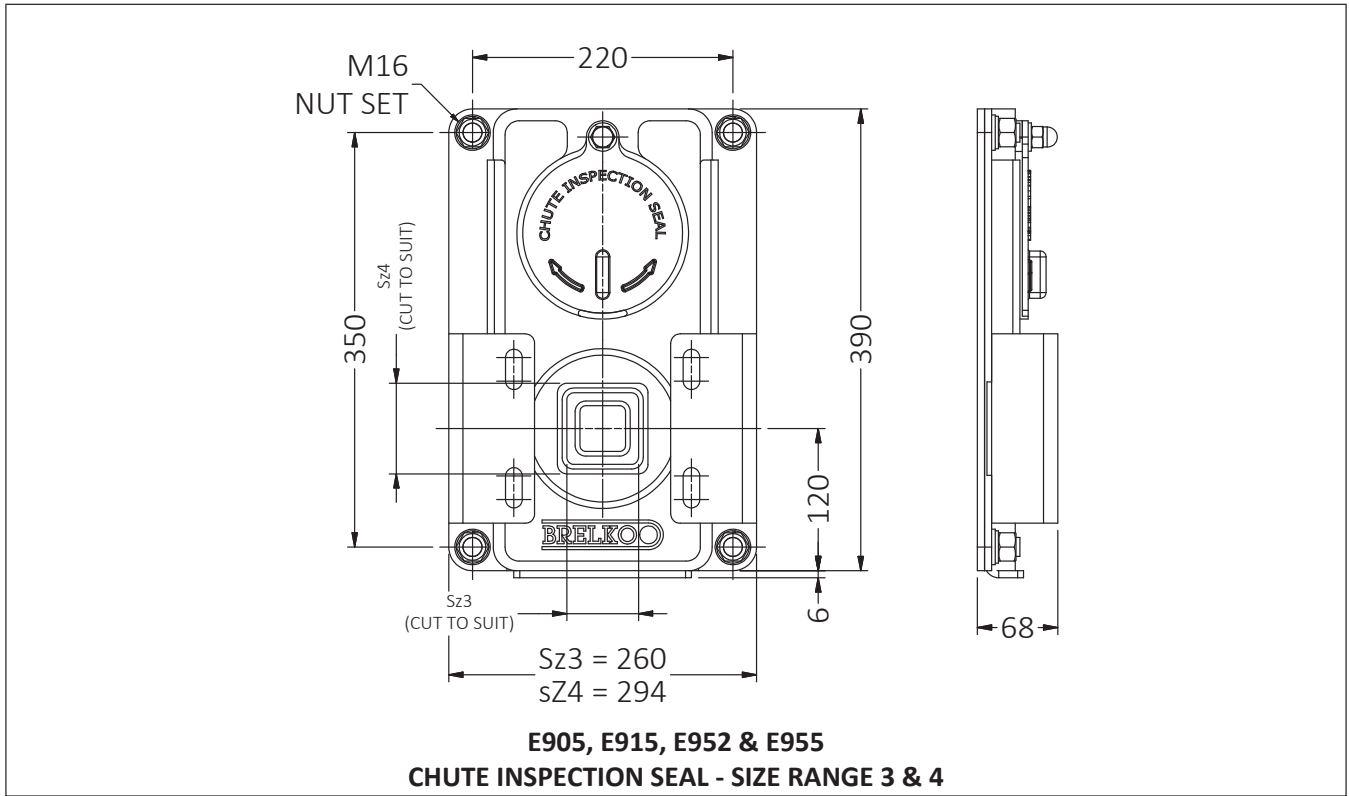


E955	BELT WIDTH	400	450	500	600	650	750	800	850	900	1000	1050	1200
	No. BLADES	2	2	3	3	3	4	4	5	5	6	6	7
	SIZE RANGE	3											
	ANGLE <	15°											
	A	189											
	B	34											
	X	300	300	450	450	450	600	600	750	750	900	900	1050
	X1	150											
Z	1500						2000						

E955	BELT WIDTH	1350	1400	1500	1600	1650	1800	2000	2100	2200	2400	
	No. BLADES	8	8	9	10	10	11	12	12	13	13	
	SIZE RANGE	4										
	ANGLE <	15°										
	A	196										
	B	36										
	X	1200	1200	1350	1500	1500	1650	1800	1800	1950	1950	
	X1	150										
Z	2500					3000						

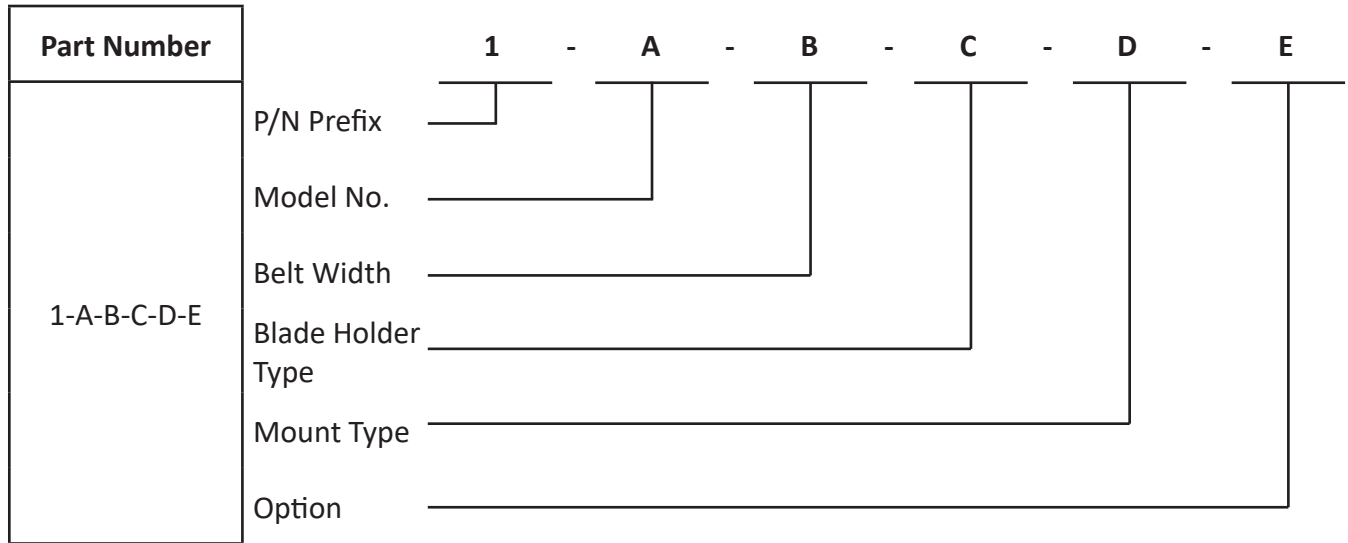
Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.5.5. Primary Belt Cleaner Chute Inspection Seal



Note: only standard features and options are shown. For additional options or specifying non-standard products, please consult your Brelko representative for assistance.

3.6. Order Information



MODEL NUMBER
Please specify.
Example: : E905
 : E952

MOUNT TYPE
Please specify.
Example: Blank = Standard Torsion Twist Tensioner
 CP-I = Compact Torsion Twist Tensioner - Internal
 CP-E = Compact Torsion Twist Tensioner - External

BELT WIDTH
Please Specify.
Example : 0400 = 400 Belt Width
 : 1200 = 1200 Belt Width
Note: All measurements in millimetre (mm).

OPTIONS
Blank = Standard
Other = Consult your Brelko representative for available options.

Cleaner Blade Selection Guide

1	Polyurethane Low abrasion, high impact, low / medium speed belts. Cleaner models: E905 and E915.
2	Composite Polyurethane c/w Cast Stainless Steel Blade Holder & Tungsten Carbide - T3 x 4mm thick High abrasion, impact, corrosion, high speed belts. Cleaner models: E952 STL
3	Composite Polyurethane c/w Cast Ceramic Blade High abrasion, low impact, corrosion, high speed belts. Cleaner models: E952 CRM.
4	Nylon Torsion Holder c/w Triplex Tungsten Carbide - T3 x 4mm thick High abrasion, impact, corrosion, high speed belts. Cleaner model: E955

Cleaner Mounting Selection Guide

1	<p>Standard Torsion Twist Tensioner</p> <p>Auto compensating for blade wear, varying belt thickness, ease passage of belt fasteners, handles reversing belts and rollback.</p> <p>Cleaner models: E905, E915, E952 and E955.</p>
2	<p>Compact Torsion Twist Tensioner</p> <p>Auto compensating for blade wear, varying belt thickness, ease passage of belt fasteners, handles reversing belts and rollback. Suitable for compact installations.</p> <p>Cleaner models: E905, E952, and E955</p>

“The above guidelines are not exhaustive or definitive; please contact us if in any doubt”

Note: Improper selection, installation & maintenance of cleaners could cause serious injuries, plant, and equipment damage. Only use trained & qualified personnel for these functions.

4. Before Installing Belt Cleaners

4.1. Receiving the Goods

Check that the shipment contains all the items specified on the delivery note. If this does not match the delivery note or if the items show any transportation damage, **list it on the freight bill**. Describe the damage and the number of incorrect or faulty items and **contact your supplier immediately**.

Defective parts should not be used under any circumstances. Claims must be made within 8 days from the arrival of goods. Brelko do not cover claims or exchange of product if installation was not carried out according to installation instructions.

4.2. Work Safety

Always use protective gloves and clothing. Always use a lifeline and soft-sole footwear when work will be carried out on raised platforms. Before you move a Belt Cleaner, check that it is securely attached to the lifting equipment. Always follow local safety regulations.



Before removing/installing equipment, lock out/tag out energy source to conveyor, and/or conveyor accessories.



Turn off and lock out/tag out energy source according to local standards. If equipment will be installed in an enclosed area, test gas level or duct content before using a cutting torch or welding. Using a cutting torch or welding in an area with gas or dust may cause an explosion.

4.3. Handling

Belt Cleaners are supplied semi-assembled in a cardboard box. Care should be taken not to damage the box when unloaded from the transportation vehicle onto customer's platform.

4.4. Storage

Belt Cleaners can be stored unpacked or in transportation package. Belt Cleaners must not be stored unpacked on top of one another, protect the Belt Cleaners by storing them in the transportation package in a cool dry area on a flat surface.

4.5. Preparation for installing Belt Cleaners

Cleaners will be wrapped and clearly marked with the model number, cleaner blade grade and belt width. Note: Cleaners will be supplied with all nuts and bolts to complete the assembly and installation

4.5.1. E905 & E952

1. Referring to the parts list and installation data sheet check that the correct parts and quantities have been supplied for the model and belt width of cleaner ordered.
2. Normally cleaners are supplied with the blades assembled on the carrier shaft. If not, assemble as shown, use a rubber mallet to tap the blades into the “V” track. Do not over-tighten the end stop set screws.

Note: use a lithium base grease as a lubricant to ease future removal of the blades from the “V” track

4.5.2. E915

1. Referring to the parts list and installation data sheet check that the correct parts and quantities have been supplied.
2. Normally cleaners are supplied with the blades assembled on the carrier shaft. If not, assemble as shown.

4.5.3. E955

1. Referring to the parts list and installation data sheet check that the correct parts and quantities have been supplied for the model and belt width of cleaner ordered.
2. Normally cleaners are supplied with the blades assembled on the carrier shaft. If not, assemble as shown using a lithium base grease as a lubricant to ease future removal of blades. If necessary, use a rubber mallet to tap the blades into the “V” track. Do not over-tighten the end stop set screws.
3. Check that the blades are free to deflect forwards and backwards. If any blades foul those adjacent, slightly slacken the end stop set screws, and tap the torsion holders sideways until the blades clear each other. Tighten end stop set screws.

Note: There should be 0.25mm to 0.5mm gap between blades

4.6. Recommended Tools List

QTY	DESCRIPTION
2	EXTENSION CORD (20m MINIMUM)
1	PORT-A-PACK (OXY-ACETYLENE)
1	PRICKER
1	COMBINATION GAUGE (WITH SPIRIT LEVEL)
1	STRAIGHT EDGE (1M MINIMUM)
1	90° SET SQUARE
1	5M TAPE MEASURE
1	ADJUSTABLE SPANNERS
1 SET	PIPE WRENCH (3" MINIMUM)
1	SOCKET RATCHET SET (6mm - 30mm)
2	RING SET SPANNERS - M13, 15, 16, 17, 18, 19, 24
2	STANLEY KNIFE
1	M46 SET SPANNERS
1	M65 SET SPANNERS
1	HARD FACE HAMMER - 4lb
1	SOFT FACE HAMMER - 1kg
1	NYLON ROPE
1	"G" CLAMPS - 6" - 8"
1	JIMMY LEVER

5. Installation

1. Refer to the assembly instructions, parts list, and parts list drawing to confirm that all the necessary parts have been supplied and that the cleaner is correctly assembled.
2. Remove the backing plates from the nearside and far side torsion twist tensioner assemblies and set aside for later use. The backing plate can be used as a template to mark out the near and far side chute openings.
3. Referring to the installation data sheet and dimensions given in the dimension table, determine the cleaner work zone and select the optimum position for the cleaner.
4. After establishing the position for the cleaner on the head pulley, mark and cut out the near and far side chute openings.

Note: Cover the conveyor belt, and head pulley to prevent burning during cutting and welding activities.

Note: The chute inspection seal assemblies can be omitted, and the near and far side torsion twist tensioners can be bolted directly to the chute sides. A separate chute access door may then be required for inspection and maintenance access. Please consult a Brelko representative for this installation option.

5. Weld the near and far side chute inspection seal backing plates to the chute side plates or bolt to the chute side plates.
6. Attach the near and far side chute inspection seal assemblies to the chute inspection seal backing plates and firmly tighten all nuts.
7. Remove the upper chute inspection seal bodies and chute inspection seal carrier shaft bosses from the chute inspection seal mounting brackets and set aside for later use.
8. Remove the near and far side torsion twist tensioner assemblies from the chute inspection seal mounting brackets.
9. Remove the torsion twist tensioners from the polyurethane bearing housings and set aside for later use.
10. Remove one or both carrier shaft end caps and install the cleaner through the nearside chute opening.
11. Position the carrier shaft assembly centrally with reference to the belt edges and head pulley and attach the nearside and far side polyurethane bearing housings to the chute inspection seal brackets. Tighten bolts and nuts finger tight only, as further adjustment of the cleaner will be required.
12. Using the near and far side polyurethane bearing housings as reference, determine exact carrier length and mark off; remove the polyurethane bearing housings and carrier shaft assembly.
13. Carefully cut carrier shaft to the required length and de-burr the shaft ends, reposition carrier shaft centrally with reference to belt edges and head pulley and fit the near and far side chute inspection seal carrier shaft bosses over the carrier shaft ends.

Note: it will be required to cut the carrier bosses to match the size of the carrier shaft supplied with the belt cleaner. This step must be done carefully to prevent any injuries.

14. Locate the carrier shaft and chute inspection seal bosses in the lower chute inspection seal body and fit the near and far side polyurethane bearings over the carrier shaft ends.

Note: ensure the carrier shaft remains central to the head pulley with reference to the belt edges.

15. Locate the upper chute inspection seal bodies in the chute inspection seal mounting brackets to form a dust tight seal around the chute inspection seal bosses, use a rubber mallet to tap the parts together to form a dust tight seal between the parts.

Note: check that the carrier shaft rotates freely in the chute inspection seal assembly. If not, slightly slacken the near and far side upper and lower chute inspection seal bodies.

16. Locate the near and far side polyurethane bearing housings over the polyurethane bearings, and attach the near and far side polyurethane bearing housings to the chute inspection seal brackets. Firmly tighten all bolts and nuts.
17. Locate the torsion twist tensioners into the carrier shaft ends and insert the holding bolt into the matching holes between the torsion twist tensioner and polyurethane bearing housing flanges. Tighten holding bolts and nuts finger tight only, as further adjustment of the cleaner will be required.
18. Using a large tool, turn the torsion twist tensioners to bias cleaner against the head pulley and insert the holding bolts. The tensioner only needs to be rotated until the first set of holding bolt holes between the polyurethane bearing housing and torsion twist tensioner assemblies align.
19. Firmly tighten all nuts and bolts.
20. Start the conveyor and check that all blades are in full contact with the belt surface. If further adjustment is required stop the conveyor and adjust the cleaner until the next set of holding bolt holes between the polyurethane bearing housing and torsion twist tensioner assemblies align or until optimum cleaning is achieved.

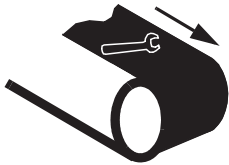
6. After Installing Belt Cleaners

IMPORTANT

Read entire section before starting work.

1. Remove all tools and fire-retardant cover from installation area and conveyor belt. Thoroughly wipe chute or stringers clean above Belt Cleaner on both sides of belt.

WARNING



Failure to remove tools from installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.

DANGER



Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

2. Turn on conveyor and check if all blades are moving freely and cleaning in full contact with the belt surface.
Note: allow belt to run through at least three to five revolutions.

WARNING



Before adjusting Belt Cleaner, turn off and lock out / tag out energy source to conveyor and conveyor accessories.

3. If further adjustment is required lock out / tag out energy source.
4. Adjust the cleaner half a turn of the spindle nuts towards the belt until all blades are cleaning satisfactory.
Note: Do not over adjust the cleaner.

IMPORTANT

5. Make sure all fasteners are tight. Tighten if necessary.

7. Maintenance

Brelko Belt Cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Belt Cleaner is installed a regular maintenance program should be set up. This program will ensure that the Belt Cleaner operates at optimal efficiency and problems can be identified and fixed before the Belt Cleaner stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. Service tasks can be done only with the conveyor stopped and by following the correct lockout/tag-out procedures.

7.1. New Installation

After the new Belt Cleaner has run for a few days, a visual inspection should be made to ensure the Belt Cleaner is performing properly. Make adjustments as needed.

7.2. Routine Visual Inspection (every 2 to 4 weeks)

A visual inspection of the Belt Cleaner and belt can determine:

- If the mounts are adjusted at the correct pressure for optimal cleaning
- If the belt looks clean or if there are areas that are dirty
- If the blade is worn out and needs to be replaced
- If there is damage to the blade or other cleaner components
- If fugitive material is built up on the cleaner or in the transfer area
- If there is cover damage to the belt
- If there is vibration or bouncing of the cleaner on the belt
- If a snub pulley is used, a check should be made for material build-up on the pulley
- If any of the above conditions exist, a decision should be made on when the conveyor can be stopped for cleaner maintenance.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for Belt Cleaner Maintenance.

7.3. Routine Physical Inspection (every 6 to 8 weeks)

When the conveyor is not in operation and properly locked and tagged out, perform a physical inspection of the Belt Cleaner performing the following tasks:

- Clean material build-up off the cleaner blade and carrier shaft.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Check blade for proper installation and condition. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner carrier shaft assembly for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- Check the pressure of the cleaner blade on the belt. Adjust the pressure, if necessary, refer to installation guide.

When maintenance tasks are completed, test run the conveyor to ensure the Belt Cleaner is performing properly.

8. Troubleshooting Guide

Problem	Possible Cause	Possible Solution
Poor cleaning performance	Cleaner under-tensioned	Adjust to correct pressure - refer installation instructions
	Cleaner over-tensioned	Adjust to correct pressure - refer installation instruction
	Cleaner installed in wrong location	Verify dimension - refer installation drawing
	Cleaner blade worn or damaged	Replace cleaner blade
Rapid Blade Wear	Tension on cleaner too high/low	Adjust to correct tension - refer installation instruction
	Cleaner not located correctly	Check cleaner location for correct dimensions
	Blade cleaning angle incorrect	Check cleaner location for correct dimensions
	Material too abrasive for blade	Option: switch to alternate cleaner tip grade (contact Brelko for available options)
	Mechanical splice damaging blade	Repair, skive or replace splice
Centre wear on blade (smile effect)	Blade smaller than material path	Add additional blade to match material path
	Tension on cleaner too high/low	Adjust to correct pressure - refer installation instruction
Unusual wear or damage to blade	Mechanical splice damaging blade	Repair, skive or replace splice
	Belt damaged or ripped	Repair or replace belt
	Cleaner not correctly located	Verify dimension - refer installation drawing
	Damage to pulley or pulley lagging	Repair or replace pulley
Vibration or noise	Cleaner not located correctly	Verify dimension - refer installation drawing
	Blade attack angle incorrect	Verify dimension - refer installation drawing
	Cleaner running on empty belt	Use a spray bar when the belt is empty
	Cleaner tension too high/low	Adjust to correct pressure or slightly adjust to diminish
	Cleaner locking bolts not secure	Check and tighten all bolts and nuts
	Cleaner not square to head pulley	Verify dimension - refer installation drawing
	Material build-up in chute	Clean up build-up on cleaner and in chute
Cleaner being pushed away from pulley	Cleaner tension not set correctly	Ensure correct pressure / increase tension slightly
	Sticky material is overburdening cleaner	Increase pressure / add primary (head pulley) cleaner
	Cleaner not set up correctly	Confirm location dimensions are equal on both sides

All technical and dimensional information is subject to change. All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.

9. EU Declaration of Conformity

according to 2006/42/EC, appendix IIB for incorporation of partly completed machinery

We, Brelko Conveyor Products (PTY) Ltd

of, 44 Chambers Street, Reuven Extension 1, Booysens, Johannesburg, South Africa

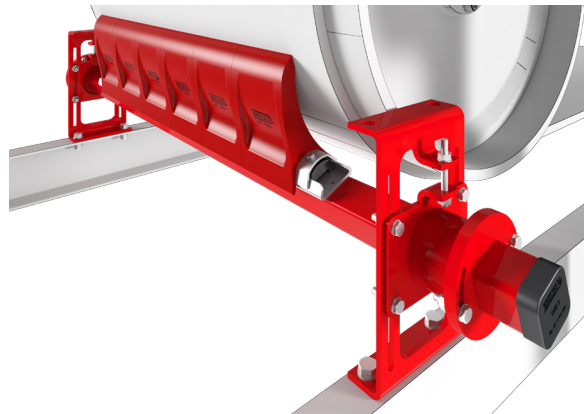
Declare that the declaration of Conformity is issued under our sole responsibility and belongs to the following product range:

Model Number(s) : 1-A-B-C-D-E

Type : Primary Head Pulley Belt Cleaner

Part Number : See shipping documents (example: 1-E905-0400)

Machinery of the declaration:



PRIMARY HEAD PULLEY BELT CLEANER

Complies with the applicable Essential Health and Safety Regulations (EHSR) of the:-

2006/42/EC - Machinery and its amending directive; and additional EU regulation,
2014/34/EU - Manufacturer ATEX and its amending directive

Directive 2014/34/EU - Specific marking of explosion protection



The following harmonised standards has been applied:

BS EN IEC 60079-00:2018	Explosive atmospheres	-	Part 01: Machinery General requirements;
BS EN ISO 80079-36:2016	Explosive atmospheres	-	Part 36: Non-electrical Machinery for explosive atmospheres Basic method and requirements
BS EN ISO 80079-37:2016	Explosive atmospheres	-	Part 37: Non-electrical Machinery for explosive atmospheres Non-electrical type of protection constructional safety "c"

The above listed products are also produced under an integrated management system compliant with the international standards:

ISO 9001:2015 - Quality Management System
ISO 14001:2015 - Environmental Management System; and,
ISO 45001:2018 - Occupational Health and Safety Management System.

This partly completed machinery must not be put into operation until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive 2006/42/EG, where appropriate.

This declaration is invalidated by any modification outside the scope of those intended by the manufacturer.

Head Office

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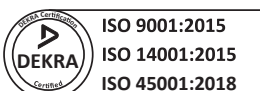
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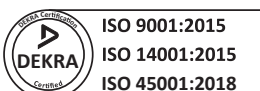
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