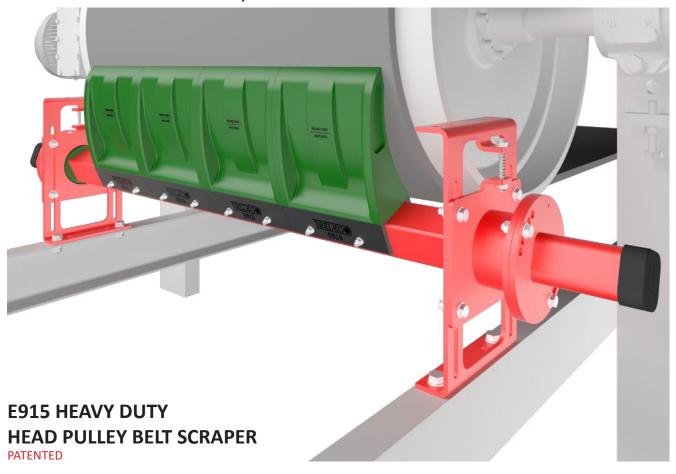


INSTALLATION, OPERATING & MAINTENANCE MANUAL



Project Name : .

Project Number : .

Order Number : .

: .

Model Number : .

Purchase Date : .

Purchased From : .

Installation Date : .

Model number information can be found on the Label found on the scraper carton.

This information will be helpful for any future inquiries or questions about belt scraper replacement parts, specifications or troubleshooting.

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

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Disclaimer

Brelko conveyor products (pty) Itd 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 Note

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.

3. 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:

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

Note:

Note: General statements to assist the reader.

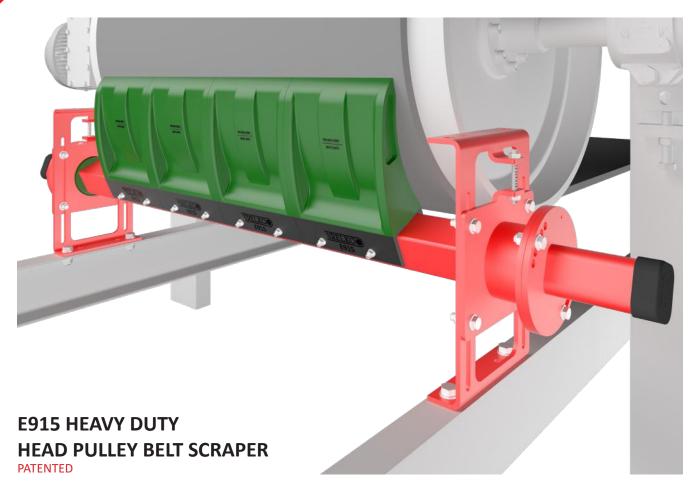
4. General Information

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

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

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APPLICATIONS

- As a Heavy Duty Head Pulley Scraper, working directly on the head pulley.
- As a Head Pulley Scraper, when wet and sticky materials are conveyed.
- Can be installed where there is not enough space for other scrapers.
- Suitable for larger pulley diameters and all types of conveyor belts and metal fasteners systems.

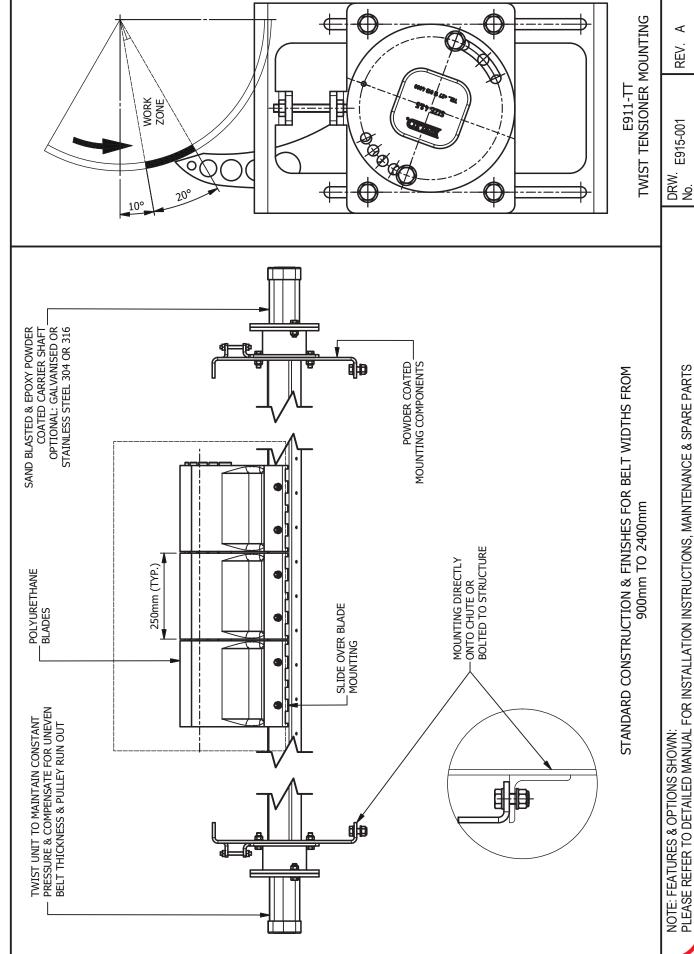
FEATURES

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

BRELKO (R) CONVEYOR PRODUCTS

© 08-2016

E915-TT TWIST TENSIONER MOUNT SINGLE ROW MULTI-BLADE HEAD PULLEY SCRAPER





5. Handling

5.1. 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.

5.2. 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 scraper or plough, check that it is securely attached to the lifting equipment. Always observe 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.

If using a cutting torch or welding machine, test atmosphere for gas level or dust content.



5.3. Handling

When scrapers are unloaded from the transportation vehicle onto customer's platform, place them on boards spaced max 1m apart at a minimum of 5cm from the ground.

5.4. Storage

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

5.5. Preparations for installing Belt Scrapers

Before installation, check all measurements and any of the other geometric design

5.6. Recommended Tools List

	BELT SCRAPERS						
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						
2	ADJUSTABLE SPANNERS						
1	PIPE WRENCH (3" MINIMUM)						
1	SOCKET RATCHET SET (6mm - 30mm)						
2	2 RINGSET SPANNERS - M13, 15, 16, 17, 18, 19, 24						
1	STANLEY KNIFE						
2	M46 SET SPANNERS						
2	M65 SET SPANNERS						
1	HARD FACE HAMMER – 4pd						
1	SOFT FACE HAMMER - 1KG						
3M	NYLON ROPE						
2	"G" CLAMPS - 6" - 8"						
1	JIMMY LEVER						



6. Maintenance

Brelko belt scrapers are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the scraper is installed a regular maintenance program should be set up. This program will ensure that the scraper operates at optimal efficiency and problems can be identified and fixed before the scraper stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. The E911 Head Pulley Scraper operates at the discharge end of the conveyor and is 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 observing the correct lockout/tag-out procedures.

6.1. New Installation

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

6.2. Routine Visual Inspection (every 2~4 weeks)

- A visual inspection of the scraper 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 scraper components
- If fugitive material is built up on the scraper or in the transfer area
- If there is cover damage to the belt
- If there is vibration or bouncing of the scraper 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 scraper maintenance.

6.3. Routine Physical Inspection (every 6~8 weeks)

When the conveyor is not in operation and properly locked and tagged out a physical inspection of the scraper to perform the following tasks:

- Clean material build-up off of the scraper blade and pole.
- 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 scraper pole 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 scraper blade on the belt. Adjust the pressure if necessary, refer to scraper model installation guide.

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



PARTS LIST - REF. DRW. No.: E915-002

ITEM No.	DESCRIPTION	SIZE	SHAFT LENGTH (mm)	BELT WIDTH (mm)	PART No.
A.	Carrier Assembly	Size 3 Size 4	2000 2500	900-1200 1350-1500	2-8.1.3 2-8.1.4
		Size 4	3000	1650-1800	2-8.1.41
В.	Torsion Twist Tensioner and mount assembly including bearing, bushes, mounting brackets and tensioner units.	Size 3 Size 4	N/A N/A	900-1200 1350-2400	2-2.38 2-2.39
	(All Belt Widths will be supplied with 2 Twist Tensioner Units)				
C.	Poly Blades	250mm	N/A	N/A	2-7.85
D.	Optional / 3-Piece Shaft Assembly including	Size 3	2000	900-1200	2-8.1.3-3P
	inner carrier shaft, outer carrier shafts.	Size 4	2500	1350-1500	2-8.1.4-3P
		Size 4	3000	1650-1800	2-8.1.41-3P
		Size 5	4000	2100-2400	2-8.1.5-3P

NOTE! Always quote belt width.

ASSEMBLY INSTRUCTIONS

- 1. All scrapers will be supplied with carrier shaft wrapped and clearly marked with the model number, scraper blade grade and belt width. Torsion twist tensioner mountings will be separately boxed. Scrapers will be supplied with all nuts and bolts to complete the assembly and installation.
- 2. 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 scraper ordered.
- 3. Normally scrapers are supplied with blades(3) assembled on the carrier shaft(1). If not, locate blades on carrier shaft as shown; if necessary use a rubber mallet to tap the blades into position. Firmly tighten all bolts and nuts.
- 4. Proceed with installation as per installation guide.



⋖ REV.

PLEASE SPECIFY BELT WIDTH WHEN ORDERING

PARTS LIST: FOR TWIST TENSIONER MOUNT

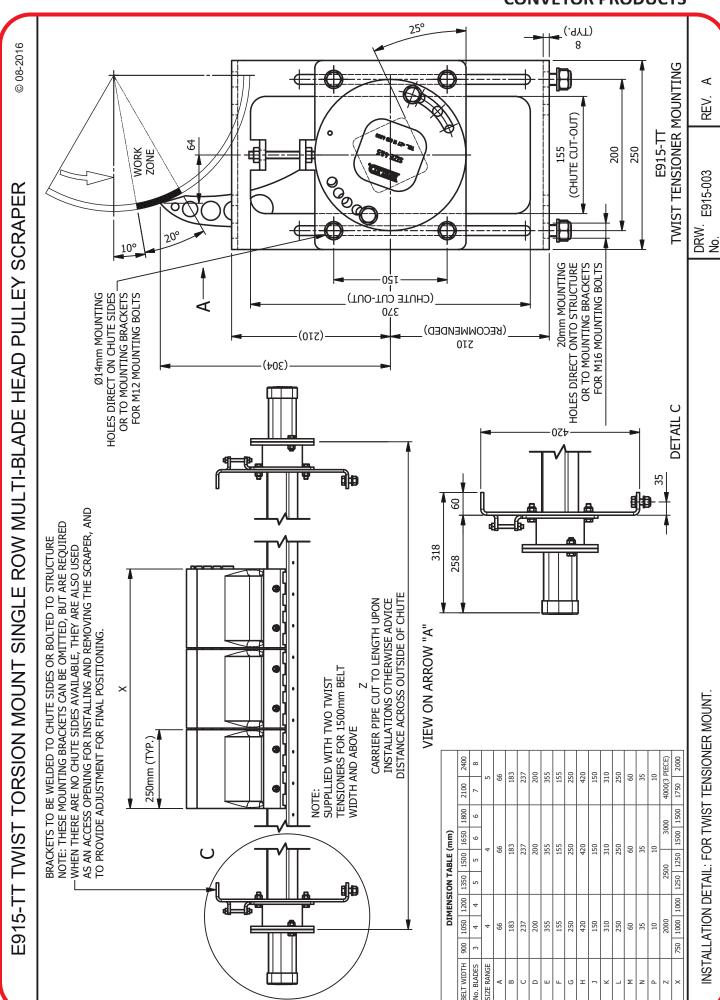
© 08-2016 1x TWIST MOUNT ASSEMBLY & 1x FAR SIDE BEARING ASSEMBLY (BEARING, BUSHES, MOUNTING BRACKET & TWIST UNIT) 2x TWIST MOUNT ASSEMBLY (BEARING, BUSHES, MOUNTING BRACKET & TWIST UNIT) BI DESCRIPTION DRW. E915-002 No. E915-TT TWIST TENSIONER MOUNT SINGLE ROW MULTI-BLADE HEAD PULLEY SCRAPER LEGEND POLY BLADE (250 mm BLADES) CARRIER SHAFT B1 (ON REQUEST ONLY) B (STANDARD) COMPONENT I.D. ۷ O -9a



INSTALLATION GUIDE - REF. DRW. No.: E915-003

- 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 scraper is correctly assembled.
- 2. Remove mounting brackets (7) from nearside bearing assembly (9) and farside bearing assembly (8).
- 3. Referring to the installation data sheet and dimensions given in the dimension table determine the scraper work zone and select the optimum position for the scraper.
- 4. After establishing the optimum position for the scraper on the head pulley, mark and cut out the near and farside chute openings. The farside opening need only accommodate scraper adjustment.
 - Note 1: Shield the conveyor belt and head pulley to prevent burning during cutting and welding activities.
 - Note 2: The mounting brackets (7) may be omitted and the bearing plates bolted directly to the chute sides. Separate chute access doors may then be required for inspection and maintenance access. Please consult a Brelko representative for this installation option.
- 5. With reference to the installation data sheet select the most convenient location for the mounting brackets (7).
 - Note: Mounting brackets (7) can be welded or bolted to the chute sides.
- 6. Tack weld the near and farside mounting brackets (7) to the chute sides or bolt to structure.
- 7. Remove one or both carrier shaft (1) end caps and install scraper through nearside chute opening.
- 8. Position carrier (1) centrally with reference to belt edges and head pulley and attach the nearside bearing assembly (9) and farside bearing assembly (8) to the mounting brackets (7).
- 9. Using nearside bearing assembly (9) and farside bearing assembly (8) as reference determine exact carrier (1) length, mark off; remove carrier (1) and nearside bearing assembly (9) and farside bearing assembly (8).
- 10. Carefully cut carrier shaft (1) to required length and de-burr shaft ends, reposition carrier shaft (1) centrally with reference to belt edges and head pulley.
- 11. Fit farside bearing bush (8a) over carrier shaft (1) end, and insert carrier shaft (1) end into farside bearing assembly (8). Tighten bolts and nuts, finger tight only as further adjustment of the scraper will be required.
- 12. Fit nearside bearing bush (9a) over carrier shaft (1) end, and locate nearside bearing assembly (9) as shown. Tighten bolts and nuts, finger tight only as further adjustment of the scraper will be required.
- 13. Complete welding of near and farside mounting brackets (7) or ensure all mounting brackets (7) nuts and bolts are firmly fastened.
- 14. Locate tension unit (6) and insert holding bolt into matching holes between the nearside bearing assembly (9). Tighten holding bolt and nut, finger tight only as further adjustment of the scraper will be required.
- 15. With reference to the dimension data sheet move scraper into the correct scraping position. Tighten bolts and nuts; do not over tighten nuts and bolts as further adjustment of the scraper might be required.
- 16. Using large tool, turn tension unit to bias scraper against head pulley and insert holding bolt. The tensioner only needs to be rotated until the first set of holding bolt holes between nearside bearing assemblies (9) align.
- 17. Firmly tighten all nuts and bolts.
- 18. Start the conveyor and check if all blades are in full contact with the belt surface. If further adjustment is required stop the conveyor and adjust the scraper until the next set of holding bolt holes between nearside bearing assemblies (9) align or until optimum cleaning is achieved.







7. Procedure for Replacing/Repairing Scrapers

Repair/replace Belt Scraper components when, general maintenance tasks are preformed scraper damage due to accelerated blade wear, scraper damage due to blocked chutes, clip joints/emergency belt repairs etc.

- 7.1. Request permit to work from an authorised person, who will isolate and lock out the belt.
- 7.2. Open access door, if provided, and clear loose items about the spindle before commencing with work.
- 7.3. Loosen the locknuts and then lower/raise the scrapers, as necessary.
- 7.4. If replacing scrapers, insert balance pipe which must be longer than the carrier shaft into the one end of the shaft.
- 7.5. Loosen the shaft and turn it 180 degrees, that is, scraper tips pointing downward.
- 7.6. Remove one spindle on the intended exit end.
- 7.7. Slide out the scraper assembly from the intended exit end of the pipe.
- 7.8. Service the scraper on the platform.
- 7.9. Blade replacement:

Refer to Brelko installation instructions for belt scraper model in use.

Brelko nylon torsion holders have been designed to break out of the torsion holder support v-track to protect the scraper, scraper mounting components, conveyor belt and conveyor belt equipment against damage due to emergency clip joints, loose/damaged splicing, belt protrusions, chute blockages etc. If torsion holders damaged occur follow the steps below to replace individual or all of the torsion holders:

- a. Remove and clean the damaged scraper to assess the amount of damage to the scraper, the scraper torsion holders and scraper components.
- b. If the scraper has been working for more than 4 weeks and/or there has been significant blade wear remove and replace all the torsion holders and blades and replace with new kits, this will eliminate belt damage due to uneven scraper torsion holder and blades.
- c. If the scraper has been working for 1~2 weeks replace only damaged torsion holders and blades, however assess the damage and ensure the remaining torsion holders will not cause any damage to the conveyor belt.

7.10. Scraper Adjustment:

Refer to Brelko installation instructions for belt scraper model in use.

- a. Reposition using the balance pipe.
- b. Obtain sanction for test, or permission to adjust for performance evaluation.
- c. Tighten all nuts and ensure that belt cleaning or scraper performance is acceptable.
- d. Clear up any loose items which resulted from your work.



CUSTOMER:) 	CODE:	<u>ш</u>			I		
ATTENTION:									S	CONTACT TEL:	CTT	ا:	I				No: 25853	
CONTRACT/ORDER No.:	ORDER	No.:								DATE IN:	i Ż							
	ع ا					INSPECT	INSPECTION FINDINGS	တ		>	WORK DONE or ACTION RECOMMENDED	ONE or	ACTIOI	N RECC	OMMEN	DED	IMPORTANT NOTES / COMMENTS	
JOD CARD	֝֝֝֝֜֝֝֝֜֝֝֝֜֝֝֝֝֝֓֜֝֝֝֡֝֝֡֝֝֡֝֝֡֝֝֡ ֓֞֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞				REITSC	PAPER /	CONVEYOR BELT and CHUTE	BELT and	СНОТЕ		SPAR	SFITTE	<u> </u>		STJ			
SERVICE WAYBILL	WAYE				PRODUCT	DUCT -	TOP COVER		BUILD-UP	Mine	Mine Spares = M / Brelko Spares = B	1 / Brelko	Spares =		08 % 80	NOITA		
BELT No.	BELT	EQUIPMENT	MOUNT	EQUIPMENT CONDITION (ANERAGE: GOOD! EXCELLENT)	PRODUCT LIFE REMAINING (LOW/ MEDIMM / HOH)	CLEANING (AVERAGE (GOOD / EXCELLENT)	(cres) sericeD (roose bylich) BKOLKORIONZ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EXCESSINE (CITES) SERICED (FOOSE BALCH)	AVERAGE LITTLE	BLADES / HOLDERS	STNUOM CARRIER	SPINDLES ASSEMBLY	SKIRTING	OTHER SPARES ADJUST SCRAPER S	тіентеи сооѕе ипт	CLEANED CLEANED	ALWAYS REFER THE ABOVE COMMENTS TELEPHONICALLY TO THE RELEVANT PERSON FOR SPELLING REFER TO THE GENERAL AND CONVEYING TERMS SHEET' INCLUDED IN THE INDEX SECTION OF THIS WAYBILL BOOK.	8 =
		CUSTO	MER R	CUSTOMER REPRESENTATIVE :	ITATIVE :										F	HME N.		
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Tel: +27 11 013-4000

P.O. Box 62392

Marshalltown 2107

Web: www.brelko.com



CONVEYOR BELT & EQUIPMENT CHECK LIST / QCP

CUSTOMER DETAILS

Customer Name:	Contact Number:	
Attention:	Date of Inspection	
Inspected By	Brelko Representative	

CONVEYOR DIMENSIONS

Belt Number:		Mater	al Carı	ried:					Belt Sp	peed:			
Belt Length:		Belt V	/idth:						Trough	ning Angle:			
Top Cover Condition:						Botton	Cover Co	ondition:					
Splice:	Yes	No		Clip J	oint:	Yes		No		Cover Strip:	Yes	No	
Conveyor Running	Yes	No		Inspe	ction Tags:	Yes		No					
Edge Damage:	Yes		No										
Comments:													

HEAD END / HEAD CHUTE

Chute Condition:	Head Pulley Lagging:	
Snub Pulley Lagging:	Build up:	
Belt Movement:		
Comments:		

IDLER CHECK

Trough Idler Condition:	Return Idler Condition:	
Troughing Frame Condition:	Return Frame Condition:	
Comments:		

PRIMARY SCRAPER

Position Correct:	Yes		No			Type o	f Prima	ary Scraper inst	alled:			
(Contact of Scraper Blade the pulley horizontal line.)	must be between	een 10 t	to 30 degree	s, unde	r							
Mounts firmly mounted:	Yes		No			All bolt	s, nuts	tightened:		Yes	No	
Adequate Tensioning:	Yes		No			All Cap	s, Den	iso Tape in plac	e:	Yes	No	
Housekeeping:												
Chute Material build up:												
Blade Wear:	Low	I	Medium		High			Cleaning:	Poor	Fair	Good	
Comments:												

SECONDARY SCRAPER #1

Type / Model of Secondary Scrape	r Installe	ed:									
Positioning Correct:			•								
(Scraper blade must preferably be	a minim	um 1	00mm from	pulley ta	ingent.)						
All Caps, Denso Tape in Place:	Yes			No		Moun	ts firmly mounte	ed:	Yes	No	
All Bolts & Nuts Tightened:	Yes			No		Adeq	uate tension/adj	justment:	Yes	No	
Angle Correct Set:	Yes			No		Carrie	er Frame cut to	size	Yes	No	
Angle of scraper must be 90 degre	es to the	e con	veyor belt, d	lependa	nt on conditi	ons.					
Chute / Material build up:	Yes			No		Hous	ekeeping:				
Blade wear:	Low		Medium		High		Cleaning:	Poor	Fair	Good	
Comments:											



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SECONDARY SCRAPER #2

Type / Model of Secondary Scrape	r Installe	ed:									
Positioning Correct:											
Scraper blade must preferably be a	minimu	ım 10	00mm from p	ulley tar	ngent.						
All Caps, Denso Tape in Place:	Yes			No		Moun	ts firmly mounted	d:	Yes	No	
All Bolts & Nuts Tightened:	Yes			No		Adequ	uate tension/adju	ıstment:	Yes	No	
Angle Correct Set:	Yes			No		Carrie	er Frame cut to s	ize	Yes	No	
Angle of scraper must be 90 degree	es to the	con	veyor belt, d	ependar	nt on conditio	ns.					
Chute / Material build up:	Yes			No		House	ekeeping:				
Blade wear:	Low		Medium		High		Cleaning:	Poor	Fair	Good	
Comments:		•				•					

TAKE UP PULLEYS / COUNTERWEIGHT / PLOUGH

Type / Model of Plough Installed:										
Are Flat Return Idlers Installed:	(In fron	t) Yes	No			(Behind)	Yes		No	
Any excessive belt movement:	Yes	No	Adequ	iate sį	pace for material to fall off of conve	eyor belt	Yes		No	
Is the Plough firmly mounted:	Yes	No	Is the Safety Chain firmly mounted and correctly adjusted: Yes No				No			
Is the Plough Free moving:	Yes	No	Is the	entire	Blade / Nose Piece in contact with	h the conveyor belt:	Yes		No	
Housekeeping:										
Comments:										

CONVEYOR BELT TRACKING / ALIGNMENT

Is the Belt Tracking centre:	Yes		No		Are there any Tracking Systems installed:			ed:	Troughing		Return		
Is there any visible damage to	s there any visible damage to structure caused by poor belt tracking:									No			
Conveyor belt length:					Are the tracking systems correctly positioned:				Yes		No		
Are the tracking systems firmly	/ mounted:		Yes		No		Are all	bolts & nuts tiç	ghtened:	Yes		No	
Are all Idlers in contact with th	Are all Idlers in contact with the Belt - Adequate Tension on the system							No		Housekeepi	ng:		
Comments:													

LOADING / TRANSFER CHUTE

Chute Condition:	Poor		Fair	Good		Materia	al loadir	ıg in ce	entre o	f con	veyor belt:		
Dead Boxes:	Yes		No	Deflector Pla	ites:		Yes		No		Drop Heights	s:	
Tail Pulley Condition	n	Go	od	Fair		Poor							
Comments:													

KEYSKIRTING®

Size of Keyskirt®:	1		2	3		4		Length of Keyskirt® Installed			1:				
Positioning of Keyskirt®:									r Product used kirting	Yes		No		State	
Mounting Arrangement	S	td.							Offset				Other		
All bolts & nuts securely fa	stene	ed:		Yes	6		No	Housekeeping:							
Comments:															



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FEEDBOOTS

Type of Feedboot installed:	Universal		Combination		Is the system correctly positioned:		Yes		No			
					(System to be positioned centrally to the load area.)							
Drop Height:					Is the system securely mounted:		Yes		No			
All Bolts & Nuts tightened:		Yes	No		Condition of Idlers:	Poor	Fair		Good			
Lead in and lead out Idlers in	place:	Yes	No		Condition of UHMW Liners:	Low	Medium		High			
Housekeeping:	_											
Comments:												

HI - IMPACT SYSTEM

Type of Hi - Impact system insta	lled:									
Is the system correctly positione	d:	Yes	No	Drop heights:	Drop heights:					
System to be positioned centrall	y to the load	l area.								
Is the system securely mounted		All bolts & nuts tighte	All bolts & nuts tightened: Yes N							
Are all Idlers in contact with the	belt:	Yes	No	Idler condition:		Poor	Fair	Good		
BTA Condition:	Poor	Fair	Good	Are chains / D shack	des in place & secure	ely fastened	: Yes	No		
All Hardware in Good Condition:		Yes	No	Housekeeping:						
Comments:		•		•						

AIR CANNONS

		į	5ltr				Qua	ntity			10ltr		Quantity			
Size of Air Cannon Inst	alled:	2	25ltr				Qua	ntity			50ltr		Quantity			
		•	100ltr				Qua	ntity			200ltr		Quantity			
Is the Air Cannon secu	rely fastened onto	the structure	e:	Yes		No		ls an	Air L	ance installed:			Yes		No	
Size of the Air Lance:						Are t	Are the Air Cannons correctly positioned:					Yes		No		
Power supply:						Air supply:										
Operating system:	Single timer	ı	PLC			Manual push button				Seq	uential					
All Bolts & Nuts secure	ly tightened:	,	Yes		No		All components in good order:			s in good order:			Yes		No	
Distance between Air C	Cannon & Solenoid	d Valve:					Any	Air Le	aks	in the Pipe Work:			No			
Is a Water Trap Installe	ed:	,	Yes		No		ls a	Lubric	ator	installed:			Yes		No	
Distance from Air Cann	ion:	:				Dista	ance fr	om Aiı	r Car	nnon:						
Are the safety / warning	g signs in place ar	signs in place and visible: Yes					No		Но	ousekeeping:						
Comments:					•	•										

TAIL PULLEY / PLOUGH

Type / Model of Plough Installed:										
Are Flat Return Idlers installed:	(In front	t)	Yes	No (Behind) Yes			No			
Any excessive belt movement:	Yes		No	Adequate space for material to fall off of conveyor belt: Yes No						
Is the Plough firmly mounted:	Yes		No	Is the Safety Chain firmly mounted and correctly adjusted: Yes No						
Is the Plough free moving:	Yes		No	Is the entire Blade / Nose Piece in contact with the conveyor belt: Yes No				No		
Housekeeping:										
Comments:										

Brelko Supervisor	Customer
Name:	Name:
Date:	Date:
Signature:	Signature:



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10. Trouble Shooting

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