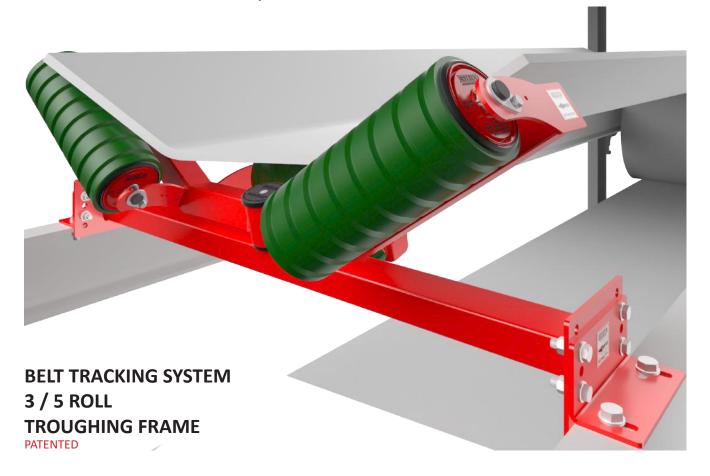


INSTALLATION, OPERATING & MAINTENANCE MANUAL



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.

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BELT TRACKING TROUGHING SYSTEMS - Page 302 to 320

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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 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.

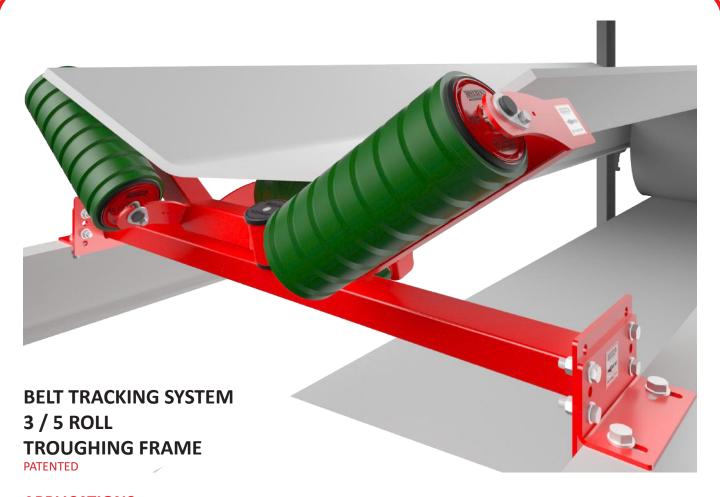
Note:

Note: General statements to assist the reader.

4. General Information

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





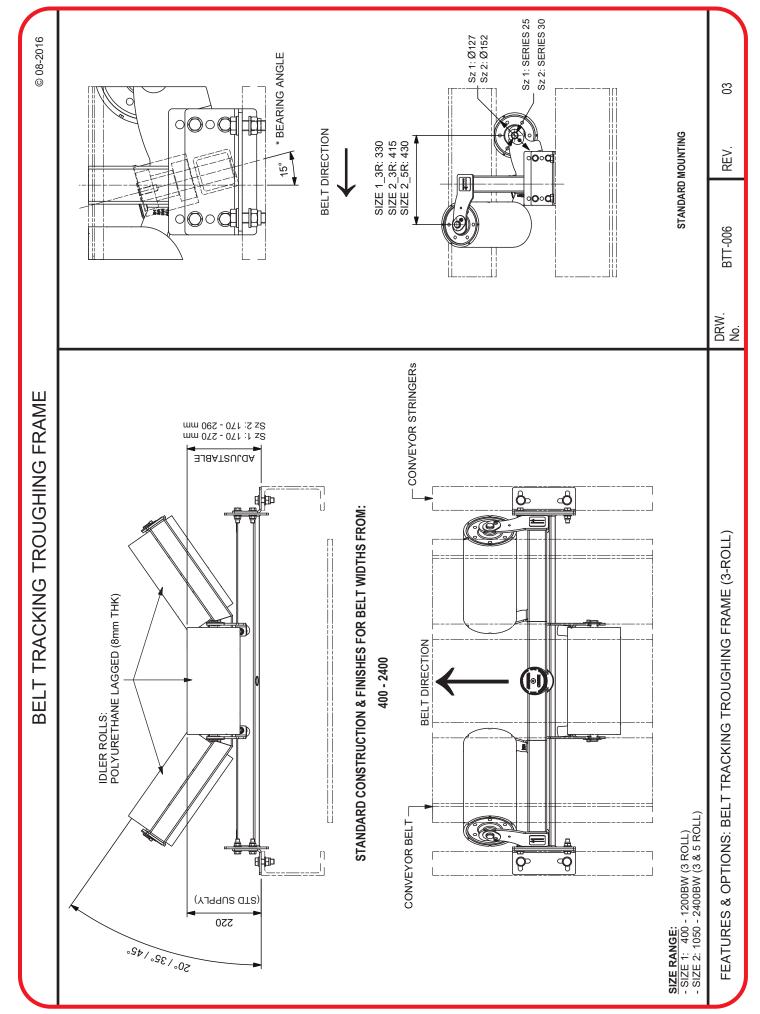
APPLICATIONS

 Install the Belt Tracking System on the troughing side of the belt to centralise a misaligned belt, prevent spillage, decrease downtime, decrease maintenance and extend belt life.

FEATURES

- Easy installation.
- Low maintenance.
- Vibration free rolling action.
- Simple design.
- Operates in all conditions.
- Manufactured according to S.A.B.S. mounting standards.
- Fully sealed construction of bearing housing prevents ingress of material into the bearing unit.
- Robust construction for longer life.
- Proven polyurethane coated impact rolls, last up to 3 times longer than standard rubber lagged.







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 TRACKING TROUGHING SYSTEMS
QTY	DESCRIPTION
2	EXTENSION CORD (30m MINIMUM)
1	PORT-A-PACK (OXY-ACETYLENE)
1	FLINT LIGHTER
1	ARC WELDER (INVERTER) 200AMP
1	CHIPPING HAMMER
1	ANGLE GRINDER
1	BABY GRINDER
1	5M TAPE MEASURE
1	NOZZLE CLEANER
1	SHIFTING SPANNER
1	PIPE WRENCH 650MM
1 SET	SOCKET SET 8MM TO 32MM
1	SOFT FACE HAMMER
2	SAFETY HARNESS
2	G-CLAMPS
1	JIMMY LEVER
1	TORCH (LED)
1 SET	SCREW DRIVER SET
1	CHALK LINE
1	SCRIBER
1	CENTRE PUNCH
1	HACK SAW
1	STANLEY KNIFE
1	4PD HAMMER



Recommended Tools List (continued...)

	BELT TRACKING TROUGHING SYSTEMS
QTY	DESCRIPTION
1	ANGLE FINDER
1	ELECTRIC DRILL
1 SET	ELECTRIC DRILL BITS
1	WELDING HELMET
1	FIRE EXTINGUISHER 9KG
1 SET	WELDING SPATS
1	WELDING APRON
1	FIRE BLANKET
1	SMALL BLUE TOOL BOX
1	MAGNETIC BASE DRILL
1 SET	12, 14, 18 SLUGGER BITS
2	FLAT RING SPANNER 13"
2	FLAT RING SPANNER 17"
2	FLAT RING SPANNER 19"
2	FLAT RING SPANNER 24"
2	FLAT RING SPANNER 30"
1	LONG NOSE PLIERS
1	PLIERS
1	BELT LIFTER
2	1 TON LEVER HOIST
4	1M NYLON SLING

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BELT TRACKING TROUGHING SYSTEMS - Page 309 to 320

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6. Maintenance

Brelko Belt Tracking Systems are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Belt Tracking System(s) are installed a regular maintenance program should be set up. This program will ensure that the Belt Tracking System operates at optimal efficiency and problems can be identified and fixed before the Belt Tracking System 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 observing the correct lockout/tag-out procedures.

6.1. New Installation

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

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

A visual inspection of the Belt Tracking System and belt can determine:

- If the mounts are adjusted at the correct height for optimal roller contact;
- If the rollers are worn and needs to be replaced;
- If there is damage to the bearing or other components; and,
- If fugitive material is built up on the Belt Tracking System.

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

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

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

- Clean material build-up off of the Belt Tracking System.
- Closely inspect rollers for wear and any damage. Replace if needed.
- Ensure full roller to belt contact;
- Inspect the Belt Tracking System for damage;
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components i.e. bearings etc.
- Check the pressure of the Belt Tracking System on the belt. Adjust pressure if necessary.

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



PARTS LIST - REF. DRW. No.: BTT-007

ITEM No.	DESCRIPTION	SIZE (mm)	BELT WIDTH (mm)	CODE
A.	Transom - Consisting of Spacer, Bolts, Nuts and Washers	60.3 SQR 76.2 SQR	400-1200 1050-2400	Specify belt width and height
В.	Idler Frame - Excluding Bearing Set.	60.3 SQR 76.2 SQR	400-1200 1050-2400	Specify belt width and height
С	Bearing set - Consisting of Deep Grooved Ball Bearing, Trust Bearing and Bearing Seal.	DIA 80mm DIA 110mm	400-1200 1050-2400	004-145-0001 004-145-0002
D	Idler Roll (Polyurethane Lagged)	Series 25 Series 30	400-1200 1050-2400	Specify belt width
F	Hardware Set - Including Bearing Spacer, Top Cap, Idler Roll Retaining Washers and locking Screws	Series 25 Series 30	400-1200 1050-2400	003-200-0030 003-200-0031

NOTE! Always quote belt width.

ASSEMBLY INSTRUCTIONS

- 1. Referring to the parts list, check that the correct parts and quantities have been supplied for the model and belt width of Belt Tracking System ordered.
- 2. Proceed with installation as per installation guide.

SURVEY and GUIDELINES

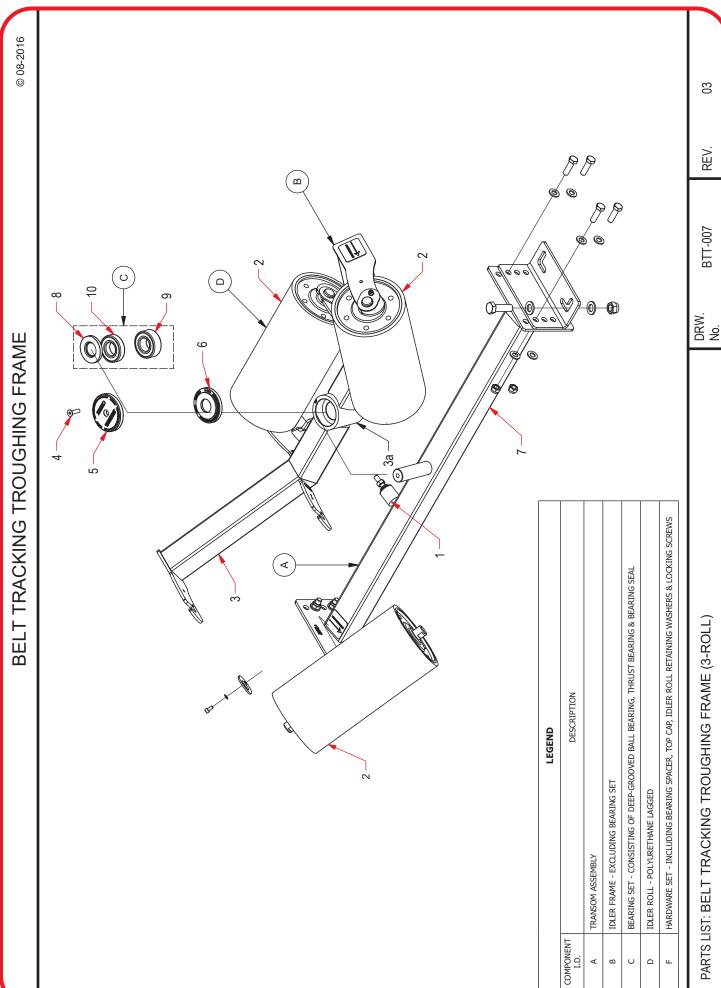
SURVEY

- Before installing the Belt Tracking System, carefully inspect the entire length of the conveyor belt. Identify areas of conveyor belt misalignment. Contributing factors include concave pulleys, where the centre of the pulley has collapsed, and uneven rubber wear on pulleys.
- 2. Tell-tale marks indicate problem areas where a drifting conveyor belt has come into contact with the structure for instance, damaged drop brackets and structure.
- 3. Tail, head and take-up pulleys identify areas of greatest damage caused by badly aligned belts.

GUIDELINES

- 1. One correctly installed Belt Tracking System can control misalignment for about 30 metres of belt and need only be installed on areas where misalignment occurs.
- 2. Always install the Belt Tracking System ahead of the problem area.
- 3. To obtain maximum belt alignment, use the maximum face length of the Belt Tracking System. This ensures that you obtain the optimum working life from the Belt Tracking System.
- 4. Insufficient traction between the belt centralising idler frame set and the belt leads to severe rubber wear. Although the Belt Tracking System will kick in and control the belt, there won't be enough tension to successfully centre the belt on the Belt Tracking System. This results in chafing of the Belt Tracking System polyurethane lagged rollers. By increasing the tension; the Belt Tracking System will centralise the belt and return to a state of equilibrium.







INSTALLATION GUIDE - REF. DRW. No.: BTT-008

- 1. After identifying the problem area on the load-carrying side of the belt, prepare to install the Belt Tracking System ahead of the problem area, ensuring that it is installed before transitional idlers and after loading chutes.
- 2. Position the Belt Tracking System in place of an existing idler set, before the problem area. For heavy laden belts, install the Belt Tracking System between two of the existing idler sets, before the problem area.
 - Note: The Belt Tracking System is direction sensitive and therefore has to be installed correctly. Each Belt Tracking System has "Belt Direction Labels" on the frame.
- 3. Bolt the Belt Tracking System on to the structure. Before tightening, ensure the Belt Tracking System is perpendicular to the structure. Once completed, tighten all bolts.
 - Note: Ensure all the rollers contact the belt.
 - Note: Adjust the gap between the roller frame rubber stoppers (x) and transom (x) to +-5mm.
- 4. Installation is now complete, start the conveyor belt to test the Belt Tracking System.
 - Note: If the desired steering is not achieved increase or decrease the gap between the roller frame rubber stoppers tansom (x) until the desired result is achieved.
- 5. If the problem still persists, knock the existing standard troughing frames perpendicular to the structure before and after the Belt Tracking System.
- 6. Remove any other tracking devices in front of or behind the Belt Tracking System, as they will reduce or interfere with the performance of the Belt Tracking System.

CAUTION!!!

This equipment should only be installed, operated & maintained by people competent and familiar with conveyor systems. Improper use or adjustment can result in serious personal injury or damage to equipment.

IF IN DOUBT ASK!!!



IDLER ROLL "POLYURETHANE-LAGGED"

03

REV.

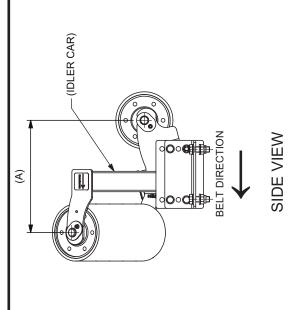
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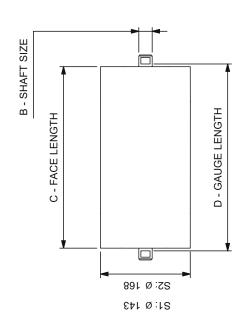
DRW. No.

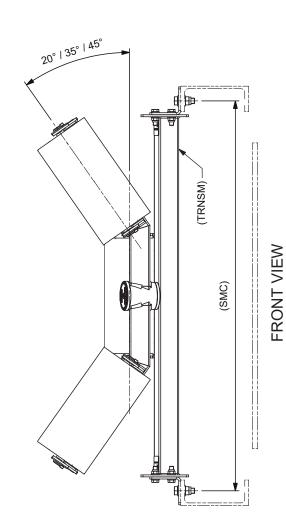


◎ 08-2016

BELT TRACKING TROUGHING FRAME







	2400				TED."	S					2668			870	880		
	2100					SIMC = STRINGER MOONLING CENTERS					2362			292	775		
	1800				IN CM	NOOM					2058	(5R)		099	029		
	1650				TAIOE	KINGE				2	1600 1752 1904 2058	415(3R) / 430(5R)	Ø 30	610	620	76.2 SQR	76.2 SQR
ROLL	1500				בסיי – כע	ار ا					1752	415(3		260	570	7	7
ME - 3	1350				5	กั					1600			200	510		
NG FRA	1200		1448			450	460				1448			450	460		
эивніг	1050		1296			390	400				1296			390	400		
BELT TRACKER - THROUGHING FRAME - 3 ROLL	006		1144			340	350	~	~				", deliter Onttivi com decintatro" – Omo	CEINIERS			
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	200		736			200	210						CIVI	בוועפבו			
	450		989			190	200						"CTD	וו בי			
	400		634			170	180						CMC) 			
	BELT WIDTH	SIZE	SMC	A	В	U	D	TRNSM	IDLR CAR	SIZE	SMC	Н	A	В	U	TRNSM	IDLR CAR

INSTALLATION DETAIL: BELT TRACKING TROUGHING FRAME (3-ROLL)



7. Bearing Replacement Guide - REF. DRW. BTT-007

In order to replace the Bearing housing the following must be followed.

- 7.1. Remove the idler roller retaining washers (1) and the idler rollers (2) from the idler frame (3).

 Note: This step must be done carefully to prevent misplacing or losing any components.
- 7.2. Remove the locking screw (4), top cap (5), idler frame (3) and bearing spacer (6) from the transom (7).

 Note: This step must be done carefully to prevent misplacing or losing any components.
- 7.3. Remove the bearing seal (8), thrust bearing (9) and deep grooved ball bearing (10) from the bearing housing (3a).
- 7.4. Replace worn and/or damaged bearings and bearing seal with the new components.
- 7.5. Re-assemble the Belt Tracking System.
- 7.6. With reference to the installation guide continue with the installation.

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CUSTOMER:												ŏ	CODE:					No. 25853	
ATTENTION:										CO	VTAC	CONTACT TEL:	ا نے						
CONTRACT/ORDER No.:	ORDER	No.:								DAT	DATE IN:								
IOR CAPI	ے					INSPECTION FINDINGS	ON FIND	NGS			WOF	WORK DONE or ACTION RECOMMENDED	E or AC	STION	RECO	MMEN		IMPORTANT NOTES / COMMENTS	
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BELT No.	BELT	EQUIPMENT TYPE	MOUNT	EQUIPMENT CONDITION (AVERAGE, GOOD) EXCELLENT)	PRODUCT LIFE REMAINING (LOW MEDUM (HOH)	CLEANING (WERAGE (GOOD) EXCELLENT)	\ NNEAEN @BOOAES \ MOBI	CCLPS / SPLICED / LOOSE PATCE	AVERAGE	ЭТЦТ	BLADES / HOLDER:	CARRIER CARRIER	2KIKIING 2bindre2	OTHER SPARES	ADJUST SCRAPE	TIGHTEN LOOSE N	CLEANED INVEST	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.	lz z
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Marshalltown 2107

P.O. Box 62392



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 Mounts firmly mounted: Yes No All Bolts & Nuts Tightened: Yes No Adequate tension/adjustment: Yes No													
All Bolts & Nuts Tightened:	Yes			Yes	No								
Angle Correct Set:	Yes	Yes No Carrier 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	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		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									
Is the Plough firmly mounted:	Yes	No		Is the Safety Chain firmly mounted and correctly adjusted:							
Is the Plough Free moving:	Yes	No		Is the entire Blade / Nose Piece in contact with the conveyor belt: Yes							
Housekeeping:											
Comments:											

CONVEYOR BELT TRACKING / ALIGNMENT

Is the Belt Tracking centre:	Yes		No		Are the	re any Tra	acking Sy	stems installe	ed:	Troughing		Return	
Is there any visible damage to	structure	caused by	poor belt	tracking:	Yes					No			
Conveyor belt length:		Are the tracking systems correctly positioned:				ioned:	Yes		No				
Are the tracking systems firmly		No		Are all bolts & nuts tightened:			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				ıg in ce	entre o	f con	veyor belt:		
Dead Boxes:	Yes		No	Deflector Plates:			Yes		No		Drop Heights	s:	
Tail Pulley Condition	n	Go	od	Fair		Poor							
Comments:													

KEYSKIRTING®

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



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FEEDBOOTS

Type of Feedboot installed:	Universal	sal 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:	d: Yes No		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:				
System to be positioned centrall	y to the load	l area.						
Is the system securely mounted		Yes	No	All bolts & nuts tighte	ened:		Yes	No
Are all Idlers in contact with the	Yes	No	Idler condition:	Idler condition: Poor Fair				
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	he Air	Cann	ons (correctly positioned:			Yes	No	
Power supply:		in de times					upply:								
Operating system:	Single timer	Single timer PLC					ual pu	sh but	ton			Seq	uential		
All Bolts & Nuts secure	Derating system: Single timer Single timer Single timer				No		All c	ompoi	nent	s in good order:			Yes	No	
Distance between Air C	Cannon & Solenoid	d Valve:				Any Air Leaks in the Pipe Work:				in the Pipe Work:			No		
Is a Water Trap Installe	ed:	,	Yes		No		ls a	Lubric	ator	installed:			Yes	No	
Distance from Air Cann	n Air Cannon:					Dista	ance fr	om Aiı	r Car	nnon:					
Are the safety / warning	re the safety / warning signs in place and visible:			Yes			No		Но	ousekeeping:					
Comments:	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 sp	ace for mater	ial to fall off of conveyor belt:	Yes	No	
Is the Plough firmly mounted:	Yes		No	Is the Safety	Chain firmly	Yes	No		
Is the Plough free moving:	Yes		No	Is the entire	Blade / Nose	Yes	No		
Housekeeping:									
Comments:									

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



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10. Trouble Shooting

Problem	Possible Cause	Possible Solution
Poor Tracking	Tracker belt contact pressure too low.	Increase belt contact pressure, refer to installation instructions.
	Tracker belt contact pressure too high.	Decrease belt contact pressure.
	Tracker installed in wrong direction.	Verify directional labels - refer to installation drawing.
	Tracker stoppers not correctly adjusted.	Adjust accordingly - refer to installation instructions.
	Belt not in contact with all idlers	Adjust Tracker to ensure all idlers are in full contact with the belt - refer to installation instructions.
Wear on Rollers / Roller failure	Belt not in contact with all idlers	Adjust Tracker to ensure all idlers are in full contact with the belt - refer to installation instructions.
	Belt contact pressure too high/low.	Adjust to correct pressure, refer to installation instructions.
No Frame Movement	Material build-up and ingress of material on frame or components.	Clean and remove.
	Bearing failure.	Repair or replace - refer installation instructions
	Belt contact pressure too high/low.	Adjust Tracker to ensure all idlers are in full contact with the belt - refer to installation instructions.
	Check Tracker and Belt troughing angle match	Replace Tracker with belt troughing angle.