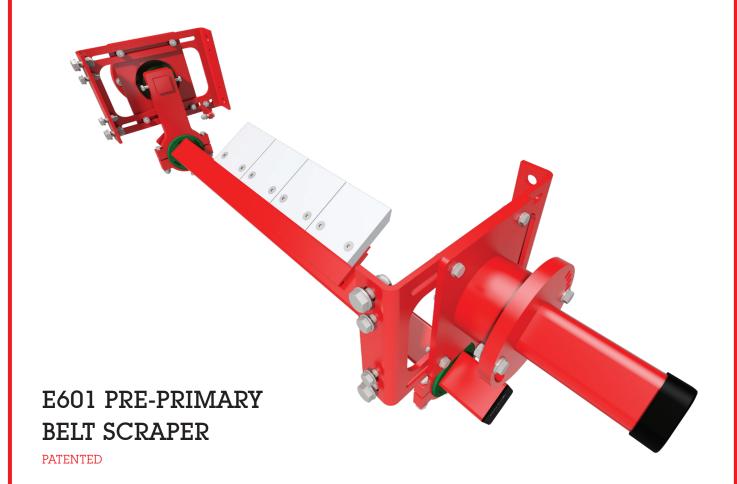


INSTALLATION, OPERATING & MAINTENANCE MANUAL



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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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 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.

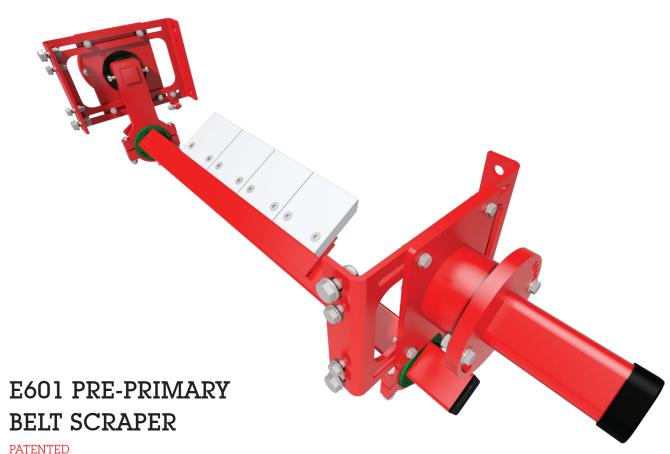
Note: Note: General statements to assist the reader.

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 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.

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APPLICATIONS

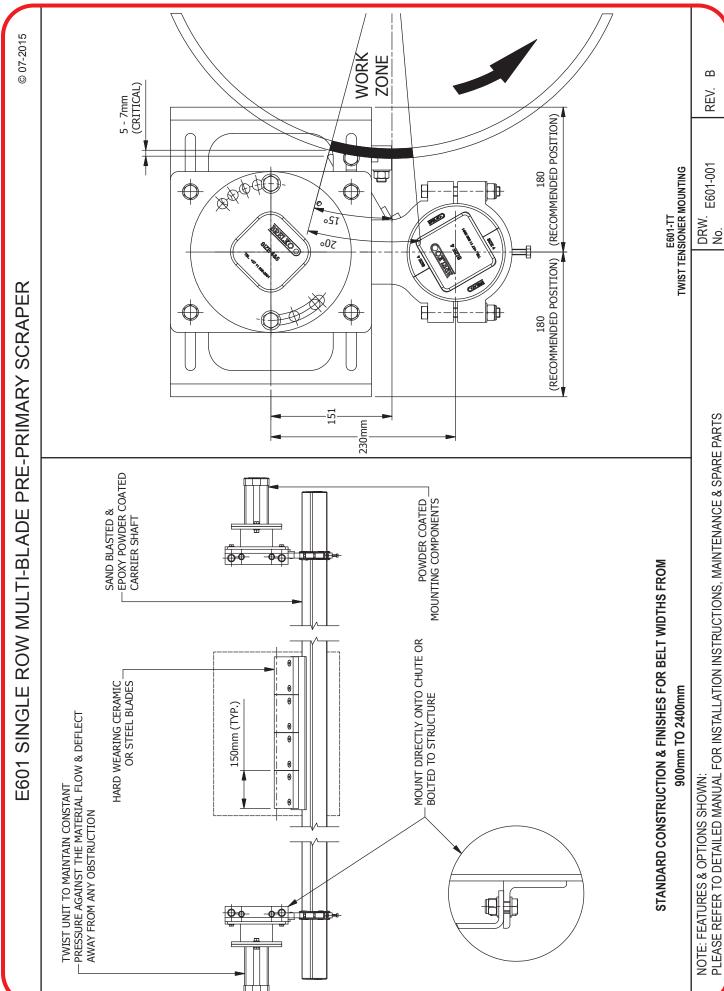
- As a Pre-Primary Scraper, working in the head pulley zone, not in contact with the belt.
- Used in conjunction with Brelko Primary and Secondary scrapers.
- Particularly suited for mud-rush and severe carry back situations.
- Suitable for all types of conveyor belts and metal fastener systems.

FEATURES

- Adjustable Brelko torsion twist tensioners allow the scraper to maintain a constant pressure against the material flow, are self adjusting and allow the scraper to deflect away from any obstruction, as a significant safety feature.
- Multi-blade construction in wear resistant steel for impact situations or ceramic blades for non-impact high abrasion situations or conditions.
- Scraper adjustment is such that the blades do not contact the belt, but only operate when the carryover material is excessive.
- Compact torsion twist tensioners for easy adjustment.
- Chute side mountings for easy adjustment and installation.
- Robust and streamlined scraper construction prevents material build-up on the scraper.
- Ceramic or VRN 400 blades for long life.

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5. Handling

5.1. Receiving the goods

Check that the shipment contains all the products specified in the delivery note. If the goods do not match the delivery note, if the goods show any transportation damage, **list it on the freight bill**. Describe the damage and the number of wrong or faulty goods, **and contact your supplier immediately**.

Do not use defective parts under any circumstances. Claims must be made within 8 days from the arrival of goods. The factory does not cover expenses caused by exchange of product when installation was not carried out according to factory 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.

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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	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

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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 E601 Pre-Primary 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.

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PARTS LIST - REF. DRW. No.: E601-012

ITEM No.	DESCRIPTION	SIZE	BELT WIDTH (mm)	CODE
A.	Carrier Assembly	Size 4 Size 5 Size 5	900-1200 1350-1800 2100-2400	2/8.6.1 2/8.6.2 2/8.61/3P
В.	Torsion Twist Tensioner and Mount Assembly including bearing, bushes, mounting brackets and Tensioner units. (All Belt Widths require 2 Twist Tensioner Units)	Size 4	900-2400	2/2.37
C.	Blades Ceramic Blade Steel Blade – VRN400	150mm 150mm	N/A N/A	2/7.9 2/7.9.0

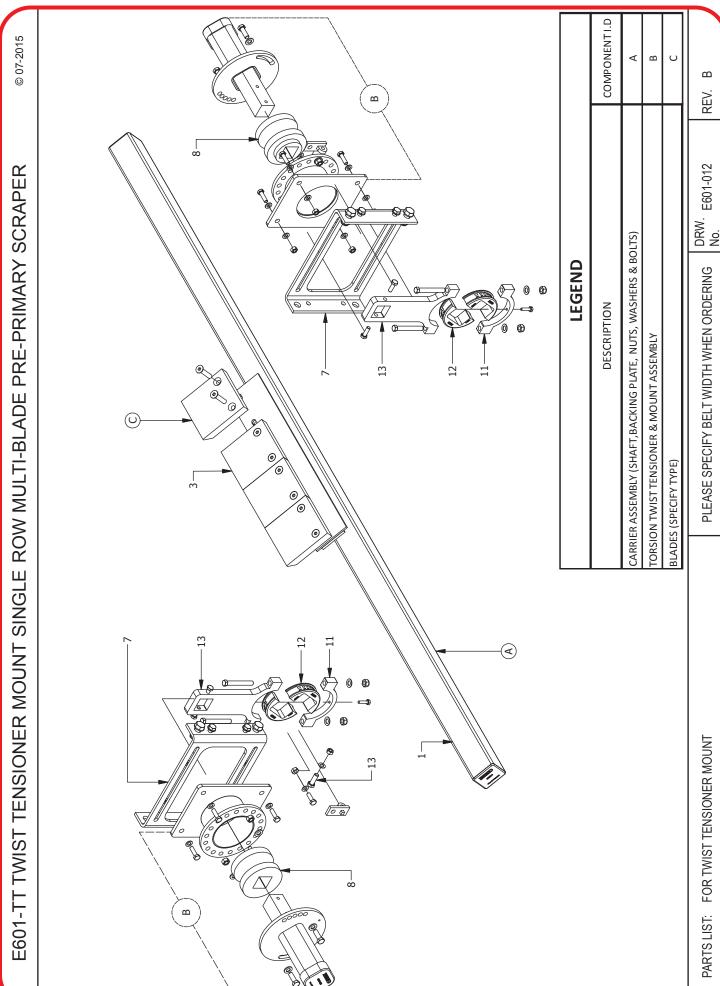
NOTE! Always quote belt width.

ASSEMBLY INSTRUCTIONS

- 1. All scrapers will be wrapped and clearly marked with the model number, scraper blade grade and belt width.
- 2. Note: Scrapers will be supplied with all nuts and bolts to complete the assembly and installation.
- 3. 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.
- 4. Normally scrapers are supplied with blades (3) assembled and fixed to the carrier shaft. If this is not the case, assemble these components as shown.
- 5. Note: Caution should be taken not to over tighten ceramic blade (3) screws, as the ceramic parts are brittle.
- 6. Check that the edges of the blades are in line and level. This is done by means of a straight edge or by resting the assembly with the blade edges on a level work bench. If any blades are not level, slightly slacken blade nuts and using a rubber or wooden mallet gently tap the blades (3) into line. Tighten the blade nuts firmly.
 - Note:- Caution should be taken not to over tighten ceramic blade (3) screws, as the ceramic parts are brittle.
- 7. Proceed with the installation as per the installation guide.

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INSTALLATION GUIDE - REF. DRW. No.: E601-013

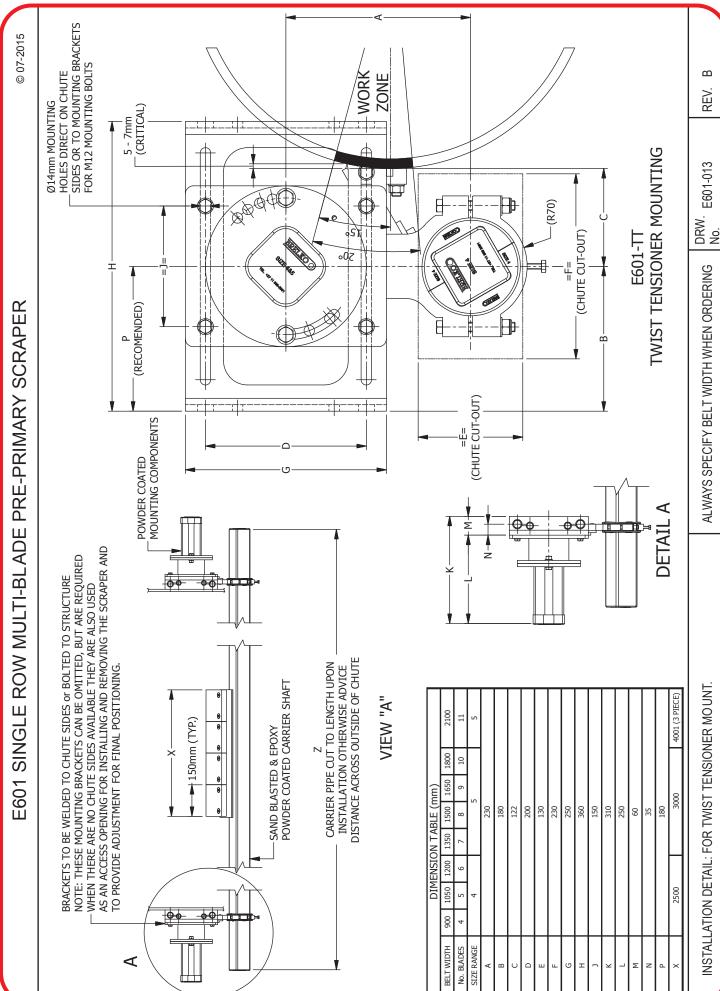
- 1. Refer to the Assembly Instructions, Parts List and DRW. No.: E601-TT-012 to confirm that all the necessary parts have been supplied and that the scraper is correctly assembled.
- 2. Remove mounting brackets (7), carrier support arms (13), clamp pieces (11) and green nylon bushes (12) from the near and farside (8) bearing assemblies.
- 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.
 - · Note: Shield the conveyor belt and head pulley to prevent burning during cutting and welding activities.
- 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. Position the near and farside bearing assemblies (8) on the mounting brackets (7) as shown, tighten finger tight only, as further adjustment will be required.
- 8. Remove one or both carrier shaft (1) end caps and install the carrier shaft through the near or farside access opening.
- 9. Position carrier shaft (1) centrally with reference to belt edges and head pulley and attach the carrier support arms (13) to the near and farside bearing assemblies (8) and attach the clamp pieces (11) and nylon bushes (12) on the carrier shaft (1) as shown and fit bolts, washers and nuts. Finger tighten only as it may be necessary to adjust the location of the near and farside bearing assemblies on the mounting brackets so that the blades are clear of the belt surface.
- 10. Complete welding of near and farside mounting brackets or ensure all mounting bracket nuts and bolts are firmly fastened.
- 11. Remove holding bolts from the near and farside bearing assemblies (8) and using large tool, turn the tension unit to rotate the scraper away from the head pulley. The scraper only needs to be rotated until the first set of holding bolt holes between the near and farside bearing assemblies align.
- 12. Insert holding bolts into matching holes on the near and farside bearing assemblies(8), ensure that the near and farside holding bolts are firmly fastened.
- 13. By means of an angle finder and using large tool rotate the carrier shaft (1) so that the blades (3) are inclined at 35 degrees into the direction of belt travel, firmly tighten nuts and bolts.
- 14. Adjust the near and farside set screws (14) until they touch the carrier support arms. Pre-tension the near and farside tension units (8) by tightening the near and farside set screws four full turns. Firmly tighten near and farside set screw lock nuts.
- 15. By means of the near and farside bearing assemblies (8) adjust the scraper towards the belt surface.
 - Note: This step must be done carefully to ensure that the gap between the belt and blades remains the same.
- 16. The blades should not contact the belt. There should be approximately a 5 to 7 mm gap between the blades (3) and belt surface.
- 17. Tighten all bolts and nuts, do not over tighten.
- 18. Start the conveyor and check that the blades are not touching the belt surface, if the blades are in contact with belt surface stop the conveyor and slacken the near and farside bearing assembly bolts and adjust the scraper until all blades are clear of the belt surface.
 - Note: This step must be done carefully to ensure that the gap between the belt and blades remains the same (5 to 7mm).
- 19. Tighten near and farside bearing assembly (8) bolts and nuts.

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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 $1\sim2$ 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.

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							RELEVANT PERSON							STRVICE CA	ENCE START
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Web: www.brelko.com



CONVEYOR BELT & EQUIPMENT CHECK LIST

CUSTOMER DETAILS

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

CONVEYOR DIMENSIONS

Belt Number:		Materia	al Car	ried:					Belt Sp	peed:			
Belt Length:		Belt W	idth :						Trough	ning Angle:			
Top Cover Condition:						Bottom Cover Condition:							
Splice:	Yes	No		Clip Jo	oint:	Yes		No		Cover Strip:	Yes	No	
Conveyor Running	Yes	No		Insped	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			Туре	of Prima	ary Scraper insta	alled:					
(Contact of Scraper Blade the pulley horizontal line.)														
Mounts firmly mounted:	Yes	Yes No						All bolts, nuts tightened:					No	
Adequate Tensioning:	Yes		No			All Caps, Denso Tape in place:					Yes		No	
Housekeeping:	Housekeeping:													
Chute Material build up:														
Blade Wear:	Low		Medium		Higl	า		Cleaning:	Poor		Fair		Good	
Comments:		•		•	•		•		•	•				

SECONDARY SCRAPER #1

Type / Model of Secondary Scrape	r Installed	d:										
Positioning Correct:												
(Scraper blade must preferably be a minimum 100mm from pulley tangent.)												
All Caps, Denso Tape in Place:	Yes			No		Moun	ts firmly mounte	ed:	Yes		No	
All Bolts & Nuts Tightened:	Yes			No		Adequate tension/adjustment:			Yes		No	
Angle Correct Set:	Yes			No		Carrier Frame cut to size			Yes		No	
Angle of scraper must be 90 degre	es to the	con	veyor belt, d	lependar	nt on condition	ons.						
Chute / Material build up:	Yes			No		House	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	um 10	00mm from p	oulley tar	ngent.						
All Caps, Denso Tape in Place:	Yes			No		Moun	ts firmly mounte	d:	Yes	No	
All Bolts & Nuts Tightened:	Yes			No		Adeq	uate tension/adj	ustment:	Yes	No	
Angle Correct Set:	Yes			No		Carrie	er Frame cut to s	size	Yes	No	
Angle of scraper must be 90 degree	es to the	e con	veyor belt, d	ependar	nt on condition	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 front)) Yes	No			(Behind)	Yes		No	
Any excessive belt movement:	Yes	No	Adequ	ate s	pace for material to fall off of conv	eyor belt	Yes		No	
Is the Plough firmly mounted:	Yes	No	Is the	Safety	Chain firmly mounted and correct	ctly adjusted:	Yes		No	
Is the Plough Free moving:	Yes	No	Is the	entire	Blade / Nose Piece in contact wit	h the conveyor belt:	Yes		No	
Housekeeping:										
Comments:				·				·		

CONVEYOR BELT TRACKING / ALIGNMENT

Is the Belt Tracking centre:	Yes		No		Are ther	e 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 s	systems	correctly posit	ioned:	Yes		No	
Are the tracking systems firmly	Are the tracking systems firmly mounted: Yes						Are all l	bolts & nuts tiç	ghtened:	Yes		No	
Are all Idlers in contact with th	the system:	Yes			No		Housekeepi	ng:					
Comments:													

LOADING / TRANSFER CHUTE

Chute Condition:	Poor		Fair	Good		Materia	al loadi	ng in d	entre	of c	on	veyor belt:		
Dead Boxes:	Yes		No	Deflector Pla	tes:		Yes		No			Drop Heights	3:	
Tail Pulley Condition	า	Goo	od	Fair		Poor								
Comments:														

KEYSKIRTING®

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



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FEEDBOOTS

Type of Feedboot installed:	Universal		Combin	Combination		Is the system correctly positioned:		Yes	No	
						(System to be positioned centrally to t	the load area.)		
Drop Height:						Is the system securely mounted:		Yes	No	
All Bolts & Nuts tightened:		Yes	1	No		Condition of Idlers:	Poor	Fair	Good	
Lead in and lead out Idlers in	place:	Yes	1	No		Condition of UHMW Liners:	Low	Medium	High	
Housekeeping:	·									
Comments:										

HI - IMPACT SYSTEM

Type of Hi - Impact system installed :										
Is the system correctly positioned:		Yes	No	Drop heights:						
System to be positioned centrally to the	e load are	a.								
Is the system securely mounted:		Yes	No	All bolts & nuts tighte	ened:			Yes	No	
Are all Idlers in contact with the belt:		Yes	No	Idler condition:		Poor		Fair	Good	
BTA Condition: Poo	r	Fair	Good	Are chains / D shack	les in place & secure	ely fasten	ed:	Yes	No	
All Hardware in Good Condition:	•	Yes	No	Housekeeping:						
Comments:										

AIR CANNONS

			5ltr				Qua	ntity			10ltr		Quantity		
Size of Air Cannon Inst	alled:	Ī	25ltr				Qua	ntity			50ltr		Quantity		
		100ltr					Qua	ntity			200ltr		Quantity		
Is the Air Cannon secur	ely fastened onto	fastened onto the structure: Yes				No		ls an	Air L	ance installed:			Yes	No	
Size of the Air Lance:							he Air	Canno	ons	correctly positioned:			Yes	No	
Power supply:							Air supply:								
Operating system:	Single timer		PLC			Man	ual pus	sh butt	ton			Se	quential		
All Bolts & Nuts securel	y tightened:		Yes		No		All c	ompor	nent	s in good order:			Yes	No	
Distance between Air C	annon & Solenoid	d Valve:					Any	Air Le	aks	in the Pipe Work:			No		
Is a Water Trap Installe	d:		Yes		No		ls a	Lubric	ator	installed:			Yes	No	
Distance from Air Canr	non:	on:				Dista	ance fr	om Air	r Cai	nnon:					
Are the safety / warning	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	:)	Yes		No		(Behind)	Yes	No	
Any excessive belt movement:	Yes		No		Adequate sp	ace for mater	rial 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	
Housekeeping:		•		•				•	•	
Comments:										



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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				
Rapid Blade Wear	Blade attack angle incorrect	Check scraper location for correct dimensions				
Rapia 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				
	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				
Caranar baing	Scraper tension not set correctly	Ensure correct tension/increase tension slightly				
Scraper being pushed away from	Sticky material is overburdening scraper	r Increase tension; add primary (head pulley) scraper				
pulley	Scraper not set up correctly	Confirm location dimensions are equal on both sides				

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