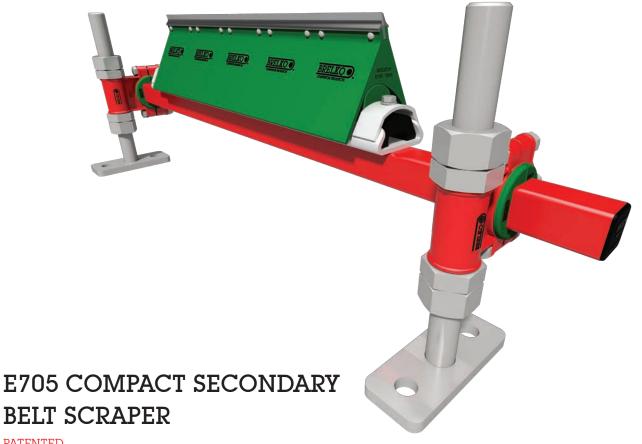


INSTALLATION, OPERATING & MAINTENANCE MANUAL



PATENTED

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) 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.

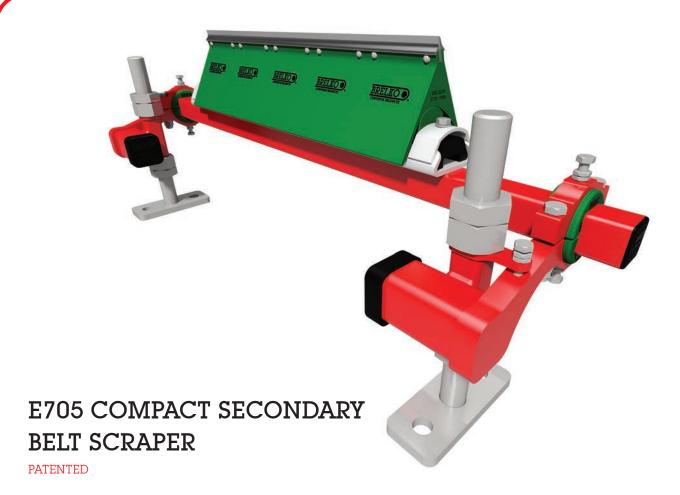
Note: Note: General statements to assist the reader.

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 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

- Specially designed for easy installation on all belts up to 750mm wide.
- Can be installed where there is not enough space for other scrapers.
- Not suitable for mounting directly onto the head pulley.
- Use in conjunction with torsion arm mountings to accommodate different belt thicknesses on the same conveyor and excessive belt movement due to pulley eccentricity, thereby ensuring constant pressure with the belt.
- Selection of correct blade material gives optimum blade life under all operating conditions and conveyed materials.

FEATURES

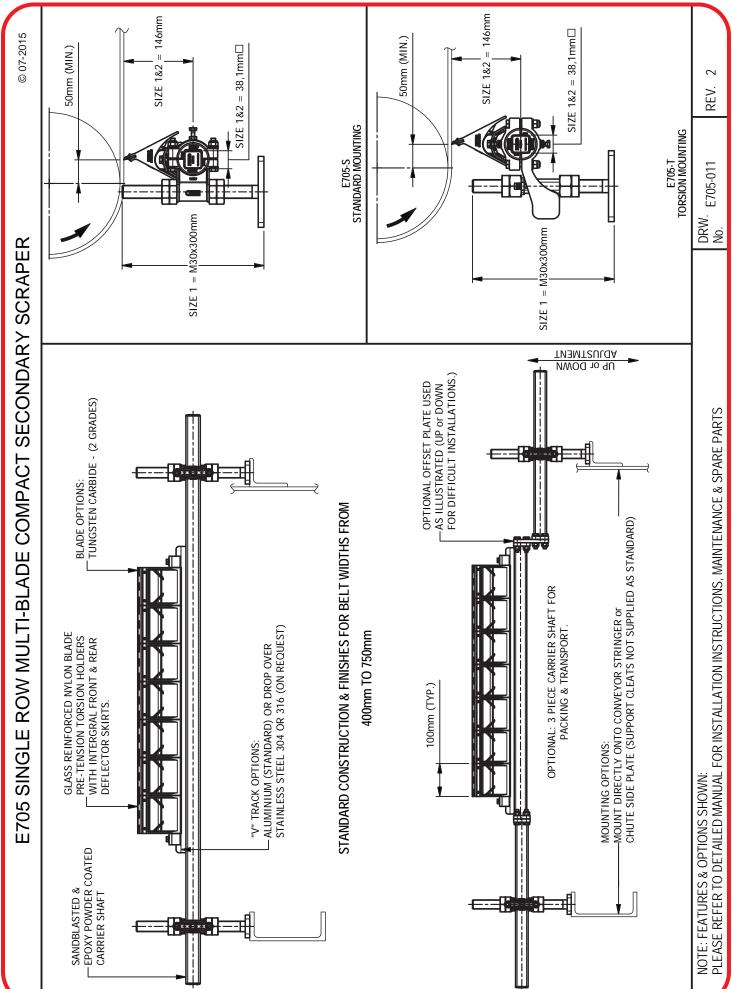
- Patented V-base torsion holder makes blade changing quick and simple.
- Fully sealed construction of torsion holder prevents material build-up or ingress into the spring unit.
- Twin arm design of the torsion holder prevents radial and lateral blade oscillations and only allows longitudinal blade movement thus ensuring uniform and constant blade contact with the belt, irrespective of variations in belt thicknesses and surface conditions.
- Pre-tensioned blades restrict forward movement and reduces belt contact pressure for optimised cleaning, and extends belt life.
- Lightweight polymeric material used for the torsion holder ensures ease of handling, corrosion protection and minimum impact on belt surface after deflection.
- Patented blade torsion holder and blade design incorporating a deflector skirt ensures accurate assembly and a clean running scraper.
- All metal components can be made from corrosion resistant materials.
- Robust construction for longer 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 E705 Secondary 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.: E705-S-007

ITEM No.	DESCRIPTION	SIZE	SHAFT LENGTH (mm)	BELT WIDTH (mm)	PART No.
A.	Carrier Assembly Including shaft, "V"	Size 1	1200	400-500	2/8.1.1
Α.	track and end stops.	Size 2	1500	600-750	2/8.1.2
D.	Optional / 3-Piece Shaft Assembly	Size 1	1200	400-500	2/8.1.1/3P
	including inner carrier shaft, outer carrier shafts end stops and off-set plates.	Size 2	1500	600-750	2/8.1.2/3P
E.	Standard Mount Assembly- Including	Size 1	N/A	400-500	2/3.1
	clamp piece, nylon bushes, bolts, nuts and washers. Note: - Spindle to be ordered separately.	Size 2	N/A	600-750	2/3.2
G.	Spindle Assembly – including lock nuts.	Size 1	N/A	400-500	2/1.1
		Size 2&3	N/A	600-750	2/1.3
H.	Torsion Holder Assembly c/w :-				
	Chrome Tool Steel blade -C10	100mm	N/A	400-750	2/5.31
	Tungsten Carbide blade -TC	100mm	N/A	400-750	2/5.32
	Triplex Tungsten blade (2mm) -T3	100mm	N/A	400-750	2/5.33
J.	Torsion Holder	100mm	N/A	400-750	2/5.30
K.	Blade Holder c/w :-				
	Chrome Tool Steel blade -C10	100mm	N/A	400-750	2/6.70
	Tungsten Carbide blade -TC	100mm	N/A	400-750	2/6.71
	Triplex Tungsten blade (2mm) -T3	100mm	N/A	400-750	2/6.72

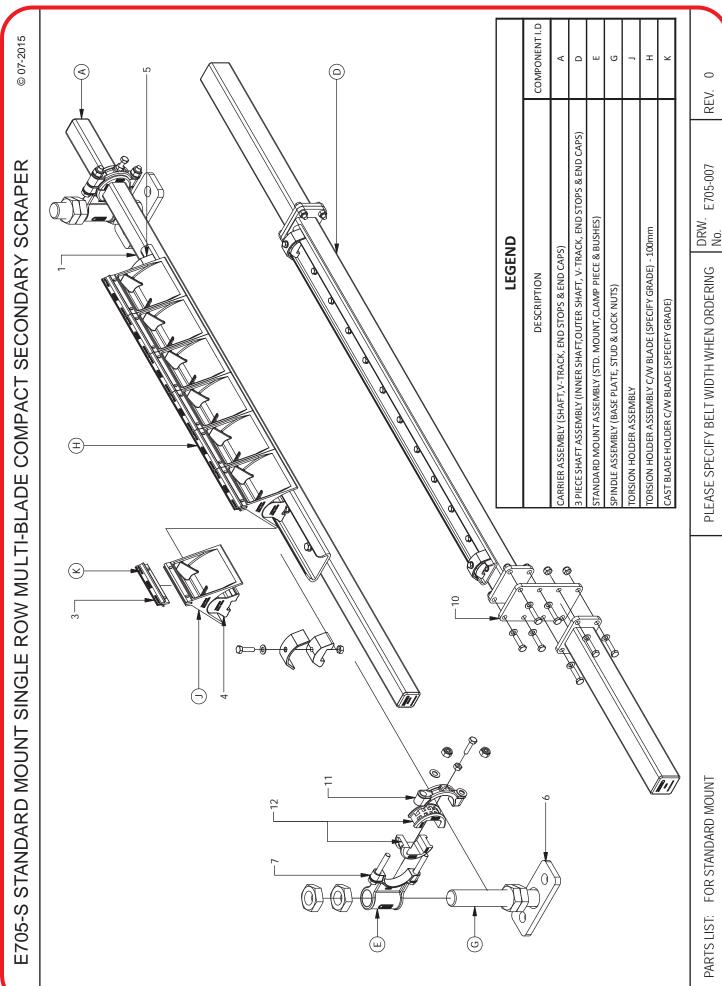
NOTE! Always quote belt width.

ASSEMBLY INSTRUCTIONS

- 1. All scrapers will be wrapped and clearly marked with the model number, scraper blade grade and belt width.
 - Note: 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), torsion holders (4) and end stops (5) assembled on the carrier shaft (1). 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 end stop (5) set screws.
- 4. Check that the blades (3) are free to deflect forwards and backwards. If any blades foul those adjacent, slightly slacken end stop (5) set screws, and tap the torsion holders (4) sideways until the blades (3) clear each other. Tighten end stop (5) set screws.
 - Note: There should be 0,5mm gap between blades (3).
- 5. Depending on the installation access (see Installation Guide paragraph-1) an optional three piece shaft may be required, then one or both of the carrier shaft end pieces may now be attached.
 - Note: Three piece carrier shafts are not supplied as standard and must be ordered separately.
- 6. Check whether the optional offset plates (10) are to be used, and if so; ensure that they are correctly assembled. Ensure that all nuts and bolts are firmly fastened.
 - Note: Offset plates (10) are not supplied as standard and must be ordered separately.
- 7. Proceed with the installation as per the installation guide.

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INSTALLATION GUIDE - REF. DRW. No.: E705-S-008

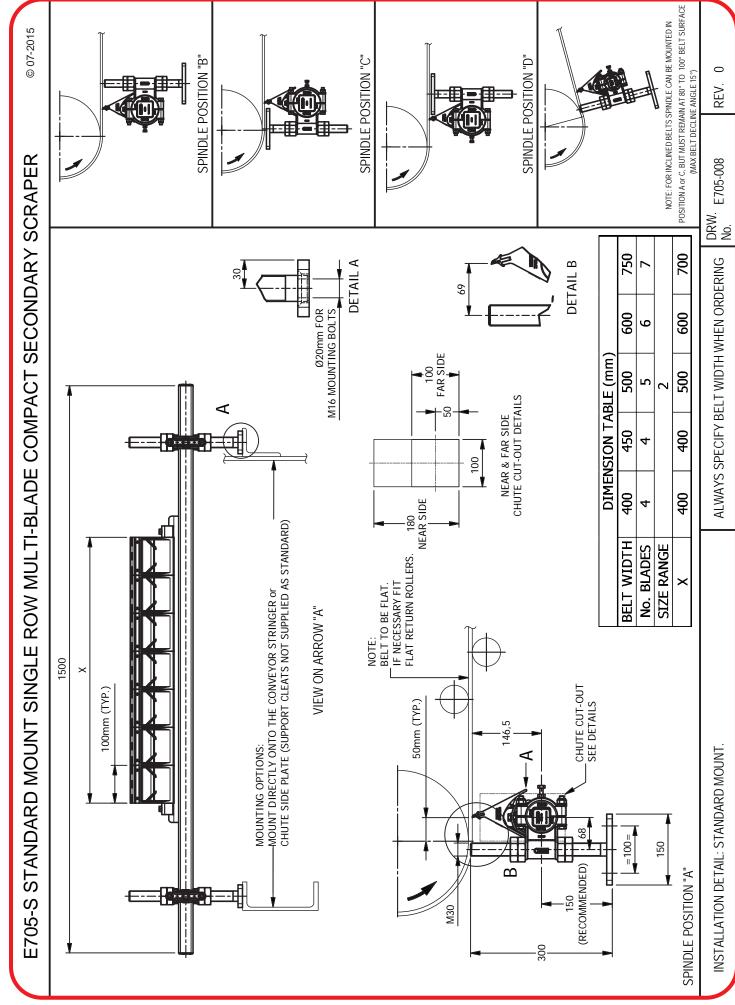
- 1. Refer to the Assembly Instructions, Parts List and the Parts List Drawing to confirm that all the necessary parts have been supplied and that the scraper is correctly assembled. Depending on access space, it may be necessary to use an optional 3-piece carrier. Then one or both of the carrier shaft end pieces can be fitted once the scraper is in position.
- 2. Remove the standard mount clamp piece (11), and green nylon bushes (12) from the standard mounts (7).
- 3. Check that the lock nuts move freely on the spindles.
- 4. Remove the standard mount (7) from the spindles (6).
- 5. Referring to the dimensions given in the table, see the Installation drawing, select the optimum position for the scraper and mark the location of the access apertures.
- 6. With reference to the Installation drawing, select the most convenient location for the mounting spindles. There are four possible positions but in all cases ensure that the spindles remains at 90° (± 10°) to the belt surface. If no suitable location can be found to attach the spindle foot to the conveyer structure, the 3 piece shafts may be used as shown in the Parts List Drawing.
 - Note: Offset plates (10) and 3-piece shafts are not supplied as standard, and must be ordered separately.
- 7. Fix the spindles (6) firmly in position. Locate standard mount (7) on spindles as shown.
- 8. Check that carrier shaft end pieces and carrier shaft centrepiece are firmly bolted together (3-piece shaft only).
- 9. Position carrier shaft underneath the conveyor belt centrally with reference to belt edges and head pulley.
- 10. Position carrier shaft and attached clamp piece (11) and bushes (12) on standard mount (7) as shown and fit bolts, washers and nuts. Tighten finger tight.
 - Note: It may be necessary to adjust the location of the mount on the spindles by means of spindles nuts so that the blades are clear of the belt surface.
- 11. Lay a straight edge on the top face of the carrier shaft end piece and rotate the assembled carrier shaft until the straight edge is parallel to the belt surface.
 - Note: This step must be done carefully to ensure that the angle of the blade's to the belt is correct.
- 12. Tighten bolts and nuts. Do not over tighten!
- 13. By means of spindle nuts adjust the scraper towards the belt surface until all the blades contact the belt surface.
- 14. Adjust the scraper half a turn of the spindle nuts towards the belt.
- 15. Check that all nuts and bolts are firmly fastened.
- 16. Check that the spindle lock nuts are firmly tightened.
- 17. Start the conveyor and check if all blades are moving freely and scraping in full contact with the belt surface. If further adjustment is required, stop the conveyor and adjust the scraper half a turn of the spindle nuts towards the belt until all blades are scraping satisfactory.
 - Note: Do not over adjust the scraper.
- 18. Check that the spindle lock nuts are firmly tightened.
- 19. To ensure future adjustment of the spindle nuts wrap thread with protective cloth, to protect the thread against corrosion, rust and ingress of dust.
- 20. It may be necessary to install stabilising rollers to keep the belt surface flat and stop belt bounce.

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PARTS LIST - REF. DRW. No.: E705-T-009

ITEM No.	DESCRIPTION	SIZE	SHAFT LENGTH (mm)	BELT WIDTH (mm)	PART No.
A.	Carrier Assembly Including shaft, "V" track and end stops.	Size 1	1200	400-500	2/8.1.1
	•	Size 2	1500	600-750	2/8.1.2
D.	Optional / 3-Piece Shaft Assembly including inner carrier shaft, outer carrier	Size 1	1200	400-500	2/8.1.1/3P
	shafts end stops and off-set plates.	Size 2	1500	600-750	2/8.1.2/3P
F.	Torsion Mount Assembly- Including	Size 1	N/A	400-500	2/2.1
	clamp piece, nylon bushes, bolts, nuts and washers. Note: - Spindle to be ordered separately.	Size 2	N/A	600-750	2/2.2
G.	Spindle Assembly – including lock nuts.	Size 1	N/A	400-500	2/1.1
		Size 2&3	N/A	600-750	2/1.3
H.	Torsion Holder Assembly c/w :-				
	Chrome Tool Steel blade -C10	100mm	N/A	400-750	2/5.31
	Tungsten Carbide blade -TC	100mm	N/A	400-750	2/5.32
	Triplex Tungsten blade (2mm) -T3	100mm	N/A	400-750	2/5.33
J.	Torsion Holder	100mm	N/A	400-750	2/5.30
K.	Blade Holder c/w :-				
	Chrome Tool Steel blade -C10	100mm	N/A	400-750	2/6.70
	Tungsten Carbide blade -TC	100mm	N/A	400-750	2/6.71
	Triplex Tungsten blade (2mm) -T3	100mm	N/A	400-750	2/6.72

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.
 - Note: 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), torsion holders (4) and end stops (5) assembled on the carrier shaft (1). 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 end stop (5) set screws.
- 4. Check that the blades (3) are free to deflect forwards and backwards. If any blades foul those adjacent, slightly slacken end stop (5) set screws, and tap the torsion holders (4) sideways until the blades (3) clear each other. Tighten end stop (5) set screws.
 - Note: There should be 0,5mm gap between blades (3).
- 5. Depending on the installation access (see Installation Guide paragraph-1) an optional three piece shaft may be required, then one or both of the carrier shaft end pieces may now be attached.
 - Note: Three piece carrier shafts are not supplied as standard and must be ordered separately.
- 6. Check whether the optional offset plates (10) are to be used, and if so; ensure that they are correctly assembled. Ensure that all nuts and bolts are firmly fastened.
 - Note: Offset plates (10) are not supplied as standard and must be ordered separately.
- 7. Proceed with the installation as per the installation guide.

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REV.

PLEASE SPECIFY BELT WIDTH WHEN ORDERING

PARTS LIST: FOR TORSION MOUNT

COMPONENT I.D © 07-2015 9 3 PIECE SHAFT ASSEMBLY (INNER SHAFT, OUTER SHAFT, V-TRACK, END STOPS & END CAPS) DRW. E705-009 No. E705-T TORSION MOUNT SINGLE ROW MULTI-BLADE COMPACT SECONDARY SCRAPER **FORSION MOUNT ASSEMBLY (TORSION MOUNT, CLAMP PIECE & BUSHES)** TORSION HOLDER ASSEMBLY C/W BLADE (SPECIFY GRADE) - 100mm LEGEND CARRIER ASSEMBLY (SHAFT, V-TRACK, END STOPS & END CAPS) DESCRIPTION SPINDLE ASSEMBLY (BASE PLATE, STUD & LOCK NUTS) CAST BLADE HOLDER C/W BLADE (SPECIFY GRADE) TORSION HOLDER ASSEMBLY



INSTALLATION GUIDE - REF. DRW. No.: E705-T-010

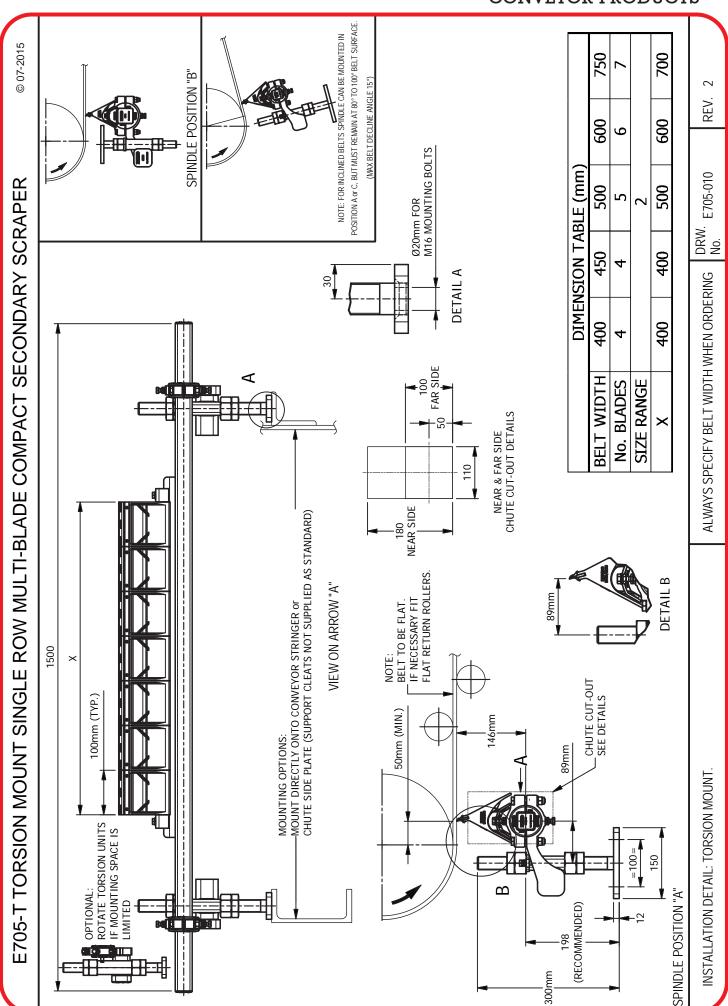
- 1. Refer to the Assembly Instructions, Parts List and the Parts List Drawing to confirm that all the necessary parts have been supplied and that the scraper is correctly assembled. Depending on access space, it may be necessary to use an optional 3-piece carrier. Then one or both of the carrier shaft end pieces can be fitted once the scraper is in position.
- 2. Remove the torsion mount clamp piece (11), and green nylon bushes (12) from torsion mounts (8).
- 3. Check that the lock nuts move freely on the spindles.
- 4. Remove the torsion mount (8) from the spindles (6).
- 5. Referring to the dimensions given in the table, see the Installation drawing, select the optimum position for the scraper and mark the location of the access apertures.
- 6. With reference to the Installation drawing, select the most convenient location for the mounting spindles. There are two possible positions but in all cases ensure that the spindles remains at 90° (± 10°) to the belt surface. If no suitable location can be found to attach the spindle foot to the conveyer structure, the 3 piece shafts may be used as shown in the Parts List Drawing.
 - Note: Offset plates (10) and 3-piece shafts are not supplied as standard, and must be ordered separately.
- 7. Fix the spindles (6) firmly in position. Locate torsion mount (8) on spindles as shown.
- 8. Check that carrier shaft end pieces and carrier shaft centrepiece are firmly bolted together (3-piece shaft only).
- 9. Position carrier shaft underneath the conveyor belt centrally with reference to belt edges and head pulley.
- 10. Position carrier shaft and attached clamp piece (11) and bushes (12) on torsion mount (8) as shown and fit bolts, washers and nuts. Tighten finger tight. Adjust set screws (13) until they just touch the torsion arm. Pre-tension the torsion mount and tighten set screws (13) one full turn.
 - Note: It may be necessary to adjust the location of the mount on the spindles by means of spindles nuts so that the blades are clear of the belt surface.
- 11. Lay a straight edge on the top face of the carrier shaft end piece and rotate the assembled carrier shaft until the straight edge is parallel to the belt surface.
 - Note: This step must be done carefully to ensure that the angle of the blades to the belt is correct.
- 12. Tighten bolts and nuts. Do not over tighten!
- 13. By means of spindle nuts adjust the scraper towards the belt surface until all the blades contact the belt surface.
- 14. Adjust the scraper half a turn of the spindle nuts towards the belt.
- 15. The blades should now rest on the belt surface.
 - Note: Check that the set screws (13) are not touching the torsion arm. If they are still in contact with the arm continue to adjust the scraper towards the belt in increments of half a turn of the lock nuts until the set screw (13) just clears the torsion arm.
- 16. Slacken the set screws (13) four full turns and tighten the lock nuts.
- 17. Check that the complete scraper assembly can move freely up and down on the torsion mounts, and that all blades can move freely.
- 18. Check that all nuts and bolts are firmly fastened.
- 19. Check that the spindle lock nuts are firmly tightened.
- 20. Start the conveyor and check if all blades are moving freely and scraping in full contact with the belt surface. If further adjustment is required, stop the conveyor and adjust the scraper half a turn of the spindle nuts towards the belt until all blades are scraping satisfactory.
 - Note: Do not over adjust the scraper.
- 21. Check that the spindle lock nuts are firmly tightened.
- 22. To ensure future adjustment of the spindle nuts wrap thread with protective cloth, to protect the thread against corrosion, rust and ingress of dust.
- 23. It may be necessary to install stabilising rollers to keep the belt surface flat and stop belt bounce.

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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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	50007 :N	ı		IMPORTANT NOTES / COMMENTS			ALWAYS REFER THE ABOVE COMMENTS TELEPHONICALLY TO THE RELEVANT PERSON FOR SPELLING REFER TO THE GENERAL AND CONVEYING TERMS SHEET INCLUDED IN THE NIDEX SECTION OF THIS WAYBILL BOOK.								© 2003-05 DOC NO. ISSUE NO REVISION NOVEMBER PAGE FS 007 8 8 2011 1 of 2
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						NOUN	CLEANED CLEANED					N H M H			
				MEN	STJ		TIGHTER LOOSE NUT						É		
				WORK DONE or ACTION RECOMMENDED		13:	S A3AAA3S TSULDA								
				ON R		S = B	саяаче язнто						1		
نین				rACT	B	o Spare	SKIKTING								
CODE:	<u>:</u> ;			SE	SPARES FITTED	/Brelk	SPINDLES ASSEMBLY								
<u> </u>	Ľ			ZK DC	SPARE	res = M	САКИЕК								
	TAC	<u>Z</u>		NO N		Mine Spares = M / Brelko Spares = B	BLADES / HOLDERS								
	CONTACT TEL:	DATE IN:	F			_	31111								
	0				CONVEYOR BELT and CHUTE	BUILD-UP	30AR3VA						(please print)		
					T and (Ball	EXCESSIVE						(pleas		
				gg	R BEL	ı:	PROTRUSIONS (CLPS / SPLICED / LOOSE PATCH)								
				ÎQI:	NVEYC	TOP COVER	\ NNENEN @BOONES \ MOBN								
				NO.	8	Ι	NEM / EVEN								
				INSPECTION FINDINGS	RAPER /	UCT	CLEANING (AVERAGE (900) EXCELENT)								
					BELTSC	PRODUCT	PRODUCT LIFE REMAINING (LOW/ MEDILM / HIGH)					TATIVE :	 W	IVE :	
							EQUIPMENT CONDITION (WERACE (GODD) EXCELLENT)					CUSTOMER REPRESENTATIVE:	CUSTOMERS SIGNATURE:	BRELKO REPRESENTATIVE :	
							MOUNT					MER R	MERS	O REPF	
		No.:			-) 	EQUIPMENT					CUSTO	CUSTO	- BRELKC	SAFETY:
i i	ë	T/ORDER		RD		E WAYE	BELT							9000:1000 031) ISO 14001:2004 OHSAS 18001:2007
CUSTOMER:	ATTENTION:	CONTRACT/ORDER No.:		JOB CARD		SERVICE WAYBILL	BELT No.								DEKRA ISO OHS

Marshalltown 2107

P.O. Box 62392

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Web: www.brelko.com



No

Cover Strip:

Yes

CONVEYOR BELT & EQUIPMENT CHECK LIST

CUSTOMER DETAILS

COSTOWIER DETAILS											
Customer Name:		Contact Number:									
Attention:		Date of Inspection									
Inspected By		Brelko Representative									
CONVEYOR DIMENSIONS											
Belt Number:	Material Carried:		Belt Speed:								
Belt Length:	Belt Width :		Troughing Angle:								
Top Cover Condition:		Bottom Cover Condition:	·								

Yes

Yes

No

No

Comments: HEAD END / HEAD CHUTE

No

Clip Joint:

Inspection Tags:

No

No

Yes

Yes

Yes

Splice:

Conveyor Running

Edge Damage:

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 of Primary Scraper installed:							
(Contact of Scraper Blade must be between 10 to 30 degrees, under the pulley horizontal line.)													
Mounts firmly mounted:	Yes		No			All bolts, nuts tightened:			Yes	No			
Adequate Tensioning:	Yes		No			All Caps, Denso Tape in place:			Yes	No			
Housekeeping:													
Chute Material build up:													
Blade Wear:	Low		Medium		High	1		Cleaning:	Poor		Fair	Good	
Comments:													

SECONDARY SCRAPER #1

Type / Model of Secondary Scrape	r Installe	ed:										
Positioning Correct:												
(Scraper blade must preferably be a minimum 100mm from pulley tangent.)												
All Caps, Denso Tape in Place:	Yes			No		Mounts firmly mounted:		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 degree	es to the	e con	veyor belt, d	lependar	nt on conditio	ns.						
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	minim	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

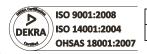
Is the Belt Tracking centre:	Yes		No		Are there	e any Tra	cking Sy	stems installe	ed:	Troughing		Return	
Is there any visible damage to structure caused by poor belt tracking:					Yes					No			
Conveyor belt length:					Are the t	tracking s	ystems	correctly posit	ioned:	Yes		No	
Are the tracking systems firmly	/ mounted:	:	Yes		No		Are all I	bolts & nuts tiç	ghtened:	Yes		No	
Are all Idlers in contact with the Belt - Adequate Tension on the system					Yes			No		Housekeepi	ng:		
Comments:						•							

LOADING / TRANSFER CHUTE

Chute Condition:	Poor		Fair	Good		Materia	al loadii	ng in c	entre o	f con	veyor belt:		
Dead Boxes:	Yes		No	Deflector Pla	tes:		Yes		No		Drop Heights	3:	
Tail Pulley Condition	1	God	od	Fair		Poor							
Comments:													

KEYSKIRTING®

Size of Keyskirt®:		1		2	3		4		Leng	th of Keyskirt® Ins	stalled	:				
Positioning of Keyskirt®	:								Other as Sk	Product used	Yes		No		State	
Mounting Arrangement		Std	l							Offset				Other		
All bolts & nuts securely	/ faster	ned	:		Yes	3		No		Housekeeping:						
Comments:																



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FEEDBOOTS

Type of Feedboot installed:	Universal		Combination	n	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 installed :										
Is the system correctly positioned:		Yes	No	Drop heights:						
System to be positioned centrally to the	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: Poor		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 Insta	alled:		25ltr				Qua	ntity			50ltr		Quantity		
			100ltr				Qua	ntity			200ltr		Quantity		
Is the Air Cannon secur	rely fastened onto	y fastened onto the structure: Yes				No		Is an A	Air L	ance installed:			Yes	No	
Size of the Air Lance:						Are t	he Air	Canno	ons (correctly positioned:			Yes	No	
Power supply:						Air s	upply:								
Operating system:	Single timer		PLC			Man	ual pu	sh butt	ton			Se	quential		
All Bolts & Nuts securel	ly tightened:		Yes		No		All c	ompor	nents	s in good order:			Yes	No	
Distance between Air C	annon & Solenoid	d Valve:					Any	Air Lea	aks	in the Pipe Work:			No		
Is a Water Trap Installe	d:		Yes		No		ls a	Lubrica	ator	installed:			Yes	No	
Distance from Air Canr	non:	on:				Dista	ance fr	om Air	Car	nnon:					
Are the safety / warning	g signs in place ar	igns in place and visible: Yes					No		Но	usekeeping:					
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	1	No	Adequate sp	ace for mater	rial to fall off of conveyor belt:	Yes	No	
Is the Plough firmly mounted:	Yes	1	No	Is the Safety	Chain firmly	mounted and correctly adjusted:	Yes	No	
Is the Plough free moving:	Yes	1	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					
Rapid Bidde Wedi	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 pressure 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					
Saranor boing	Scraper tension not set correctly	Ensure correct pressure/increase tension slightly					
Scraper being pushed away from pulley	Sticky material is overburdening scraper	Increase pressure; add primary (head pulley) scraper					
baney	Scraper not set up correctly	Confirm location dimensions are equal on both sides					

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. E705 - Page 269 to 269 Version 6.4 - © 07/2015