

NIP GUARD SAFETY DEVICE

Patented

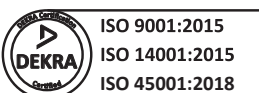


Table of Contents

1.	Disclaimer	4
2.	Safety Measures and Warnings	4
2.1.	The following symbols may be used in this manual:	4
3.	General Information	4
3.1.	Technical Specifications	5
3.2.	Operation and Functional Overview	6
3.3.	Component Overview	7
3.4.	Parts List	8
3.5.	Dimensions	9
3.6.	Order Information	11
3.7.	Replacement Safety Nip Guard Liner	12
4.	Before Installing Nip Guards	13
4.1.	Receiving the Goods	13
4.2.	Work Safety	13
4.3.	Handling	13
4.4.	Storage	13
4.5.	Preparation for Installing Nip Guards	14
4.6.	Recommended Tools List	15
5.	Installation	16
5.1.	Setting Width and gap of Nip Guard.	16
6.	Installation Detail	20
7.	After Installing Nip Guards	21
8.	Maintenance	22
8.1.	New Installation	22
8.2.	Routine Visual Inspection (every 2 to 4 weeks)	22
8.3.	Routine Physical Inspection (every 6 to 8 weeks)	22
9.	Troubleshooting Guide	23
10.	EU Declaration of Conformity	24

INSTALLATION, OPERATING & MAINTENANCE MANUAL



BRELKO NIP GUARD

PATENTED

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

Model number information can be found on the label on the Nip Guard box.
 This information will be helpful for any enquires or questions about the Nip Guard 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 Measures and Warnings

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

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



DANGER

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



WARNING

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



CAUTION

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

IMPORTANT

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

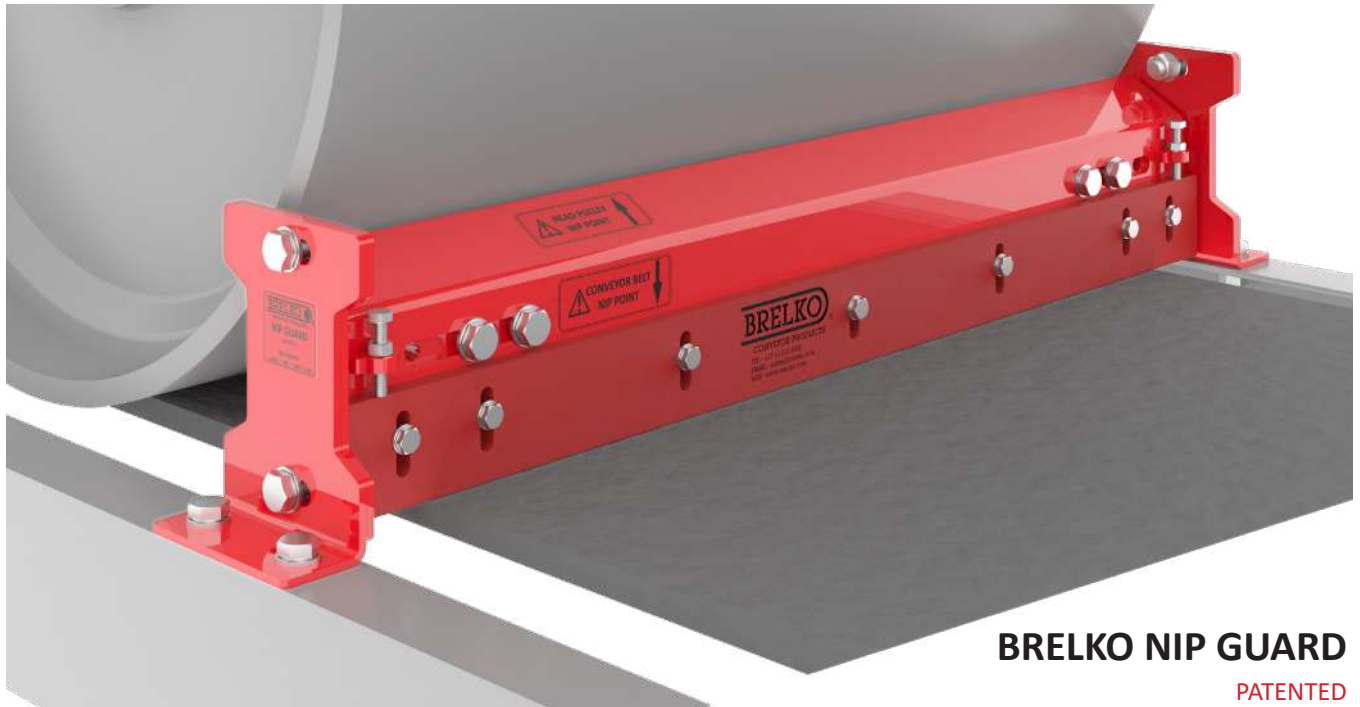
NOTE

: general statements to assist the reader.

3. General Information

Brelko Nip Guards are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Nip Guard is installed a regular maintenance program should be set up. This program will ensure that the Nip Guard operates at optimal efficiency and problems can be identified and fixed before the Nip Guard stops working. All safety procedures for inspection of equipment (stationary or operating) must be observed. Nip Guards operate at the head, tail and drive pulleys of the conveyor and can be 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.

3.1. Technical Specifications



BRELKO NIP GUARD
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APPLICATIONS

- Brelko Nip Guards improve worker safety around head, tail, and drive pulleys. The Nip Guard prevents worker exposure to conveyor pulley nip points and pinch point hazards.

FEATURES

- Easy installation.
- Low maintenance.
- Simple design.
- Operates in all conditions.
- Manufactured according to SABS, CEMA, Australian and PROK mounting standards.
- Unique adjustable Safety Nip Guard Liner maintains a constant gap between the conveyor belt and guard, even when the conveyor belt is tensioned.
- Robust construction for longer life.
- Can be installed on bi-directional conveyor belts.

SPECIFICATIONS

Maximum Belt Speed (m/sec)	Maximum Service Temperature	Belt Width	Mounting Location
Size Range 1 ≤ 6.0	90°C Continuous	0400 - 1050	Please consult installation and dimensional data sheet
Size Range 2 ≤ 8.0	120°C Intermittent	1200 - 2400	

DUTY RATING

Size Range 1

Designed for applications under typical industrial material handling conditions. **The systems will be installed at the head, tail, and drive pulleys.**

Size Range 2

Designed to withstand the stress associated with wider, thicker belts moving at higher speeds. **The systems will be installed at the head, tail, and drive pulleys.**



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3.2. Operation and Functional Overview

Nip Guards are fixed to the pulley supports or inside the head pulley and tail pulley chutes in such a way that the distance between the guards and the pulley do not vary, Brelko's unique Safety Nip Guard Liner design ensures a constant distance is maintained between the Safety Nip Guard Liner and the belt, even when the belt is tensioned.

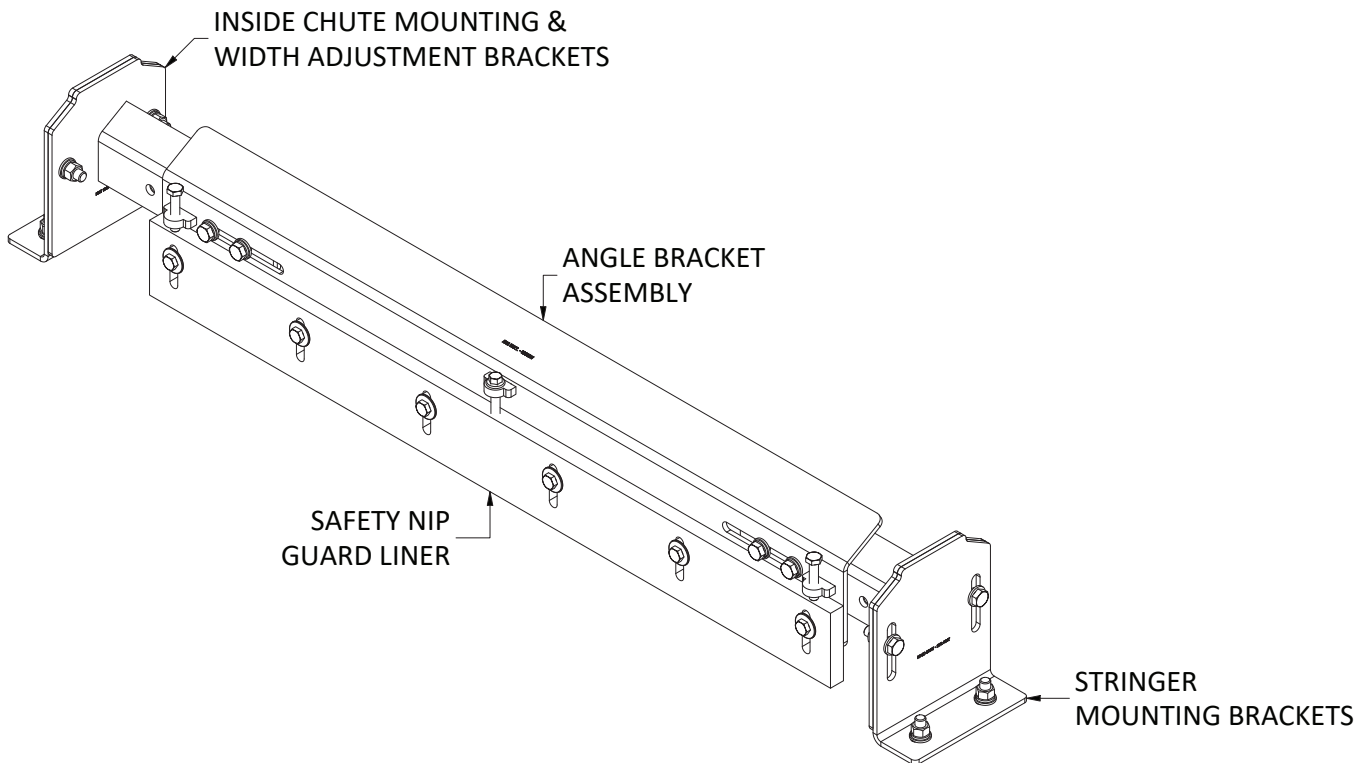


Figure 1

HOW IT WORKS:

Nip guards permit visual inspection during conveyor operation and cleaning and maintenance work to be carried out without removing the nip guard. They offer the most reliable form of continuous protection for dangerous nip points around the head, tail, and drive pulleys.

The Nip Guard prevents worker exposure to conveyor pulley nip points and pinch point hazards.

3.3. Component Overview

Note, C₁, C₂ & D - these parts are specific to Size 1 and Size 2

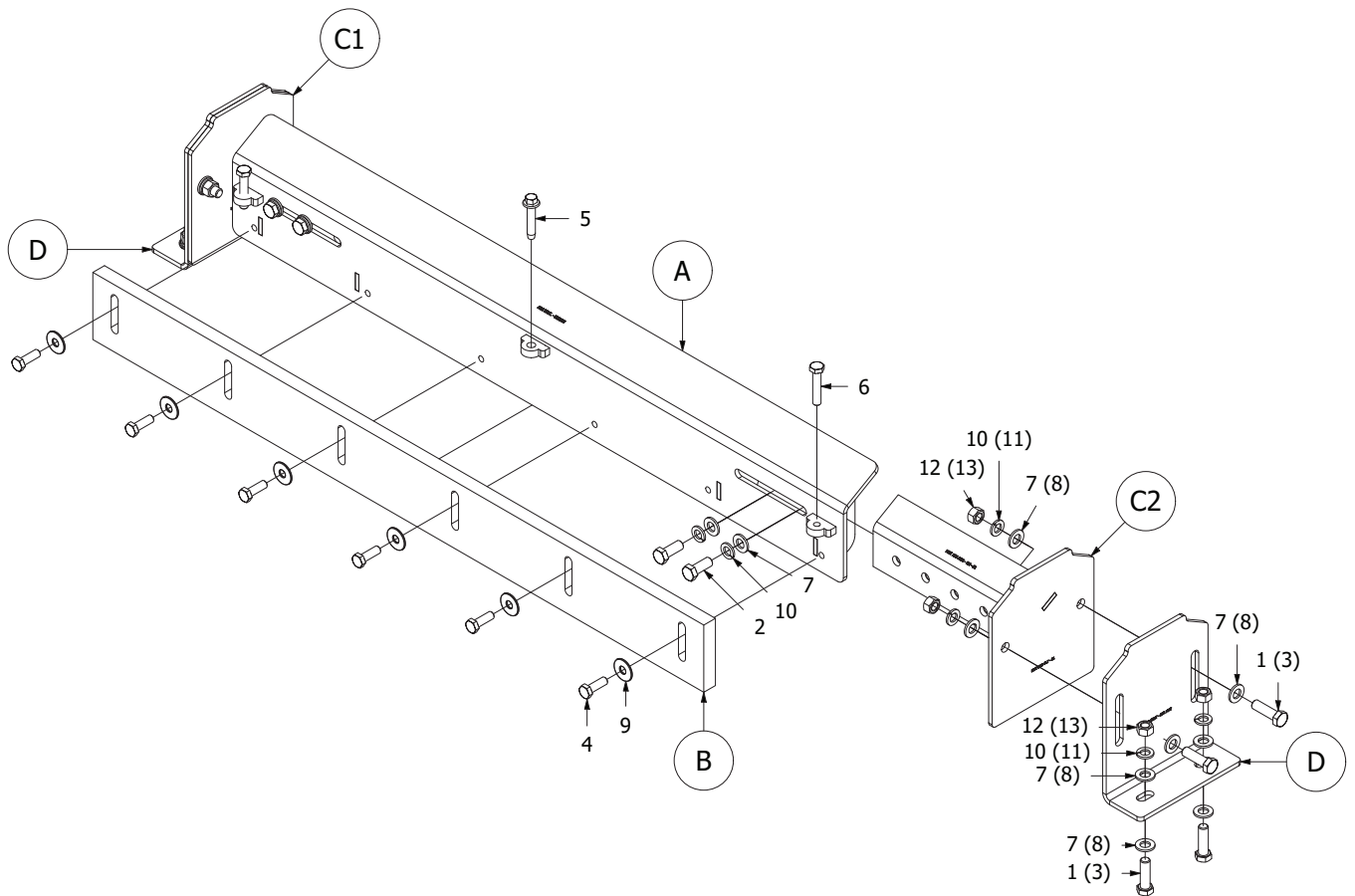


Figure 2

(SHEET 1 OF 2)

3.4. Parts List

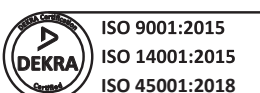
ITEM No.	DESCRIPTION	SIZE (mm)	BELT WIDTH (mm)	CODE
A	Nip Guard Angle Bracket Assembly	Size 1 Size 2	400 - 1050 1200 - 2400	Specify belt width and centre roller height
B	Safety Nip Guard Liner	Size 1 & Size 2	400 - 1050 1200 - 2400	Specify belt width
C1	Right-hand Width Adjustment Arm	Size 1 Size 2	400 - 1050 1200 - 2400	Specify belt width Specify belt width
C2	Left-hand Width Adjustment Arm	Size 1 Size 2	400 - 1050 1200 - 2400	Specify belt width Specify belt width
D	Stringer Mounting Bracket	Series 25 Series 40	400 - 1050 1200 - 2400	Specify belt width

Hardware Kit - Size 1 / Size 2 (*)

ITEM No.	DESCRIPTION	QTY.
1	SET SCREW - HEX - M12X40 - ZP	8
2	SET SCREW - HEX - M12X30 - ZP	4 / (4)
3	SET SCREW - HEX - M16X50 - ZP	(8)
4	SET SCREW - HEX - M10X35 - ZP	4 / (4)
5	SET SCREW - HEX - STP - M10X50 - ZP	1 / (1)
6	SET SCREW - HEX - M10X50 - ZP	2 / (2)
7	WASHER-FLT - M12 - ZP	20 / (4)
8	WASHER-FLT - M16 - ZP	(16)
9	WASHER - FENDER - M10X40X2 - ZP	4 / (4)
10	WASHER-SPRING - M12 - ZP	12 / (4)
11	WASHER-SPRING - M16 - ZP	(8)
12	NUT-HEX - M12 - ZP	8
13	NUT-HEX - M16 - ZP	(8)

Important Note, please specify belt width when ordering replacement hardware kits.

(SHEET 2 OF 2)



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3.5. Dimensions

3.5.1. Nip Guard - Size 1

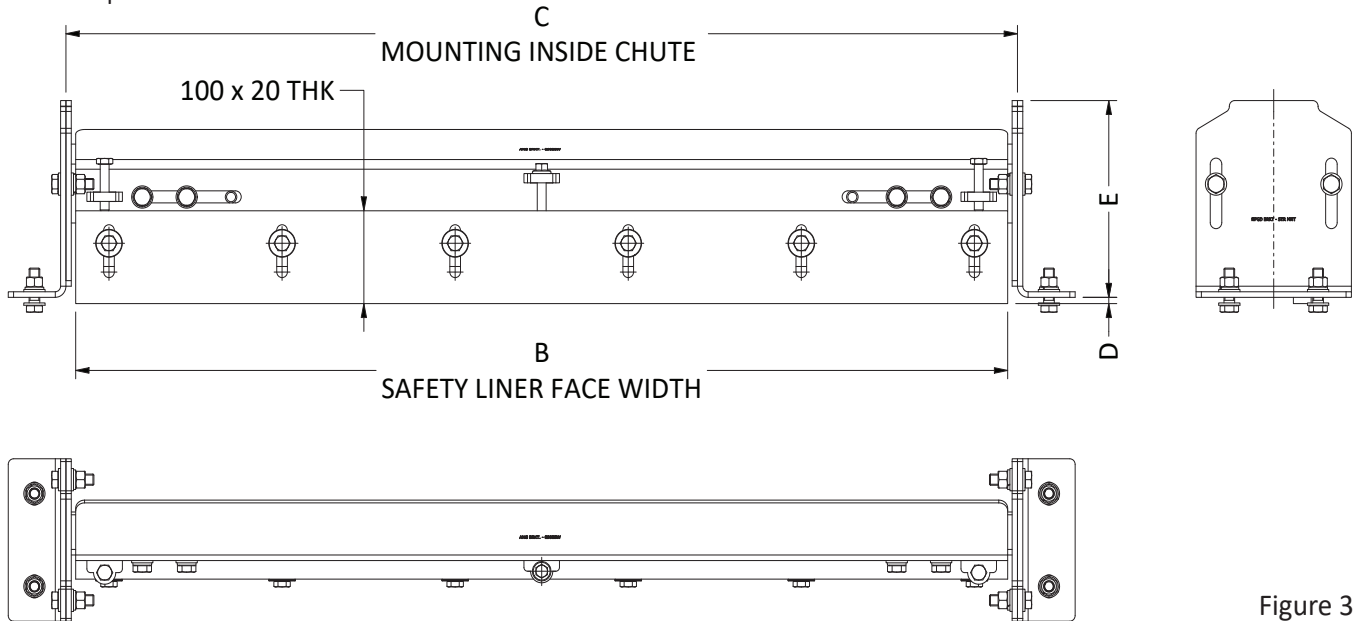


Figure 3

SERIES 30	SABS/CEMA		PROK	
	Belt Width	A	Belt Width	A
	400	634	400	650
	450	686	450	700
	500	736	500	750
	600	838	600	850
	750	990	650	900
	900	1144	750	1000
1050	1296	800	1050	
		850	SPECIFY	
		900	1150	
		1000	1250	
		1050	1300	

Belt Width		400	450	500	600	650	750	800	850	900	1000	1050
A	min	593	643	693	763		993			1143		1293
	max	793	843	893	993		1193			1343		1493
B		500	550	600	700		900			1050		1200
C	min	522	572	622	722		922			1072		1222
	max		722	822	922		1122			1272		1422
D (7mm)	min	15 (UP)										
	max	48 (DOWN)										
E (212mm)	min	30 (DOWN)										
	max	234 (UP)										
F (100mm)	min	88										
	max	112										

Note, All measurements in millimeter (mm)



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3.5.2. Nip Guard - Size 2

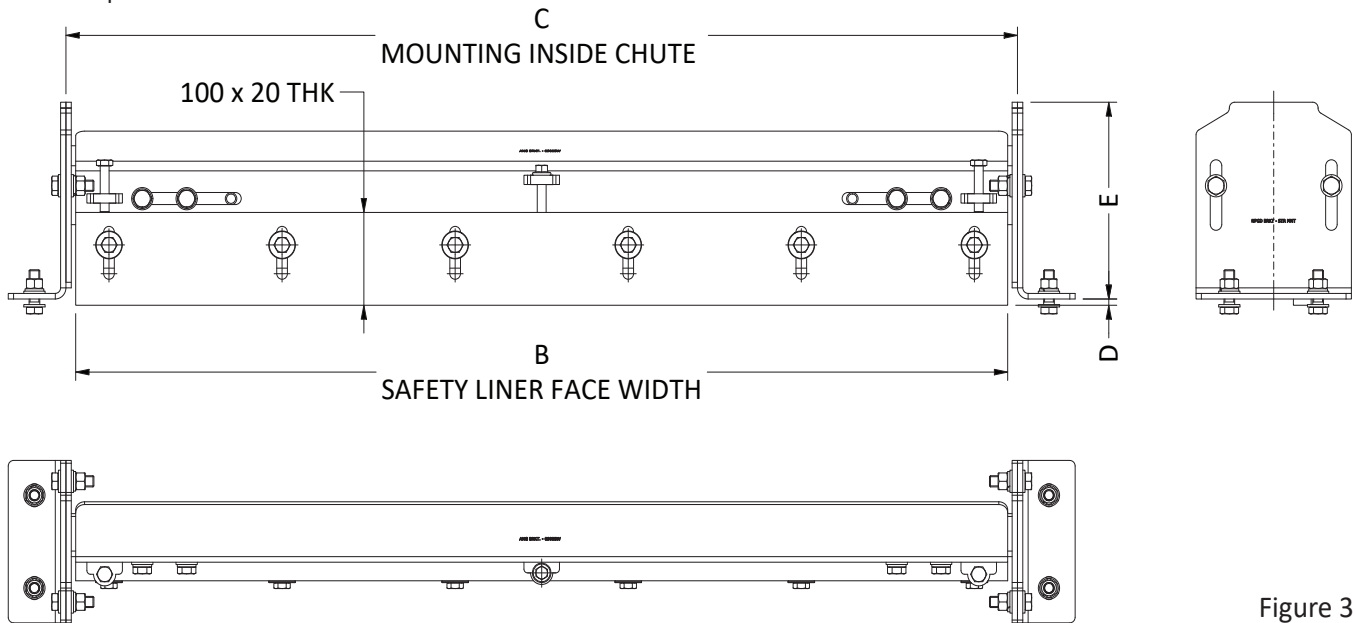


Figure 3

SERIES 30	Belt Width	A SABS/CEMA	Belt Width	A PROK
	1200	1448	1200	1450
	1350	1600	1350	1650
	1500	1752	1400	1700
	1650	1904	1500	1800
	1800	2058	1600	2000
	2000	2260	1650	2050
	2100	2362	2000	2400
	2200	2464	2100	2500
	2400	2668	2200	2600
			2400	2800

Belt Width		1200	1350	1400	1500	1600	1650	1800	2000	2100	2200	2400
A	min	1453	1603	1803	1953	2103	2403	2703				
	max	1933	2083	2283	2433	2583	2883	3183				
B		1350	1500	1700	1850	2000	2300	2600				
C	min	1382	1532	1732	1822	2032	2332	2632				
	max	1862	2012	2212	2362	2472	2812	3112				
D (7mm)	min	15 (UP)										
	max	48 (DOWN)										
E (212mm)	min	30 (DOWN)										
	max	234 (UP)										
F (100mm)	min	88										
	max	112										

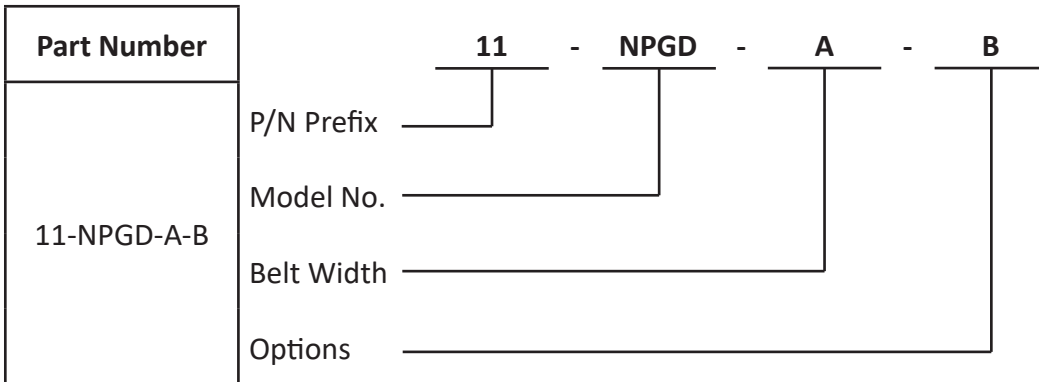
Note, All measurements in millimeter (mm)



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3.6. Order Information



BELT WIDTH

Please specify.

Example: 040 = 400 Belt Width
 120 = 1200 Belt Width

OPTIONS

Blank = Standard

Other = Consult your Brelko Representative for available options.

Note, All measurements in millimeter (mm)

Consult your Brelko representative for assistance in specifying non-standard products.

3.7. Replacement Safety Nip Guard Liner

3.7.1. Dimensions

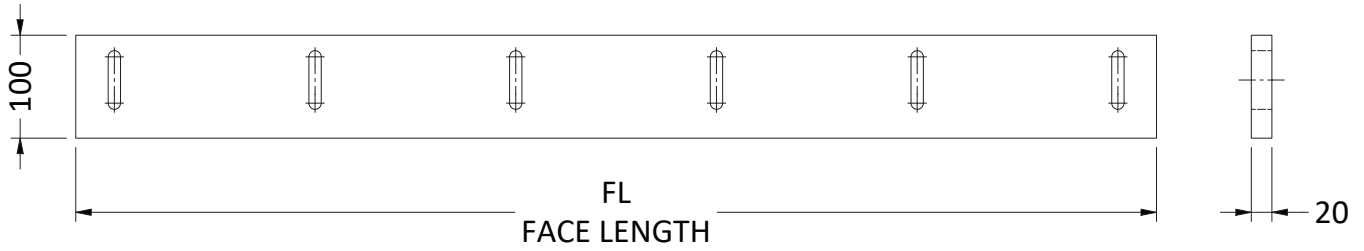


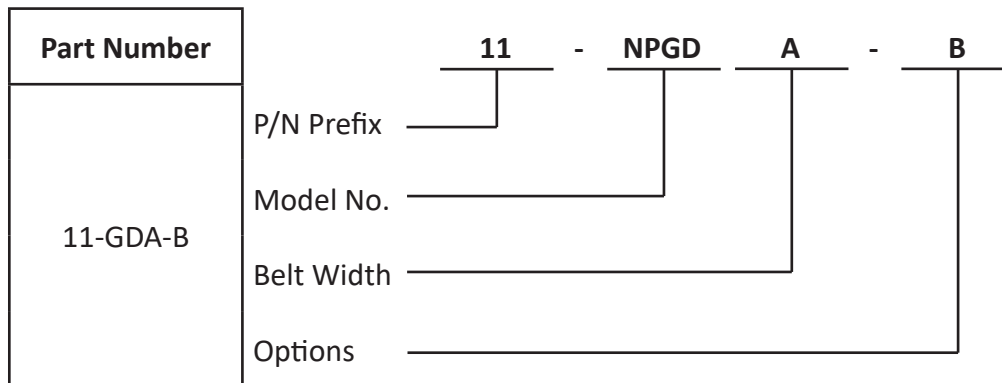
Figure 4

Part No. (Safety Nip Guard Liner)	Part No. (Nip Guard)	Face Length (FL)
11-GD040	11-NPGD-0400	500
11-GD045	11-NPGD-0450	550
11-GD050	11-NPGD-0500	600
11-GD060	11-NPGD-0600	700
11-GD065	11-NPGD-0650	700
11-GD075	11-NPGD-0750	900
11-GD080	11-NPGD-0800	900
11-GD085	11-NPGD-0850	1050
11-GD090	11-NPGD-0900	1050
11-GD100	11-NPGD-1000	1050
11-GD105	11-NPGD-1050	1200

Part No. (Safety Nip Guard Liner)	Part No. (Nip Guard)	Face Length (FL)
11-GD120	11-NPGD-1200	1350
11-GD135	11-NPGD-1350	1500
11-GD140	11-NPGD-1400	1500
11-GD150	11-NPGD-1500	1700
11-GD160	11-NPGD-1600	1850
11-GD165	11-NPGD-1650	1850
11-GD180	11-NPGD-1800	2000
11-GD200	11-NPGD-2000	2300
11-GD210	11-NPGD-2100	2300
11-GD220	11-NPGD-2200	2300
11-GD240	11-NPGD-2400	2600

Note, All measurements in millimeter (mm)

3.7.2. Order Information



BELT WIDTH

Please specify.

Example: 040 = 400 Belt Width
120 = 1200 Belt Width

OPTIONS

Blank = Standard

Other = Consult your Brelko Representative for available options.

Note, All measurements in millimeter (mm)

Consult your Brelko representative for assistance in specifying non-standard products.

4. Before Installing Nip Guards

4.1. Receiving the Goods

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

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

4.2. Work Safety

Always use protective gloves and clothing. Always use a lifeline and soft-sole footwear when work is carried out on raised platforms. Before you move a Nip Guard, 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.

4.3. Handling

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

4.4. Storage

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

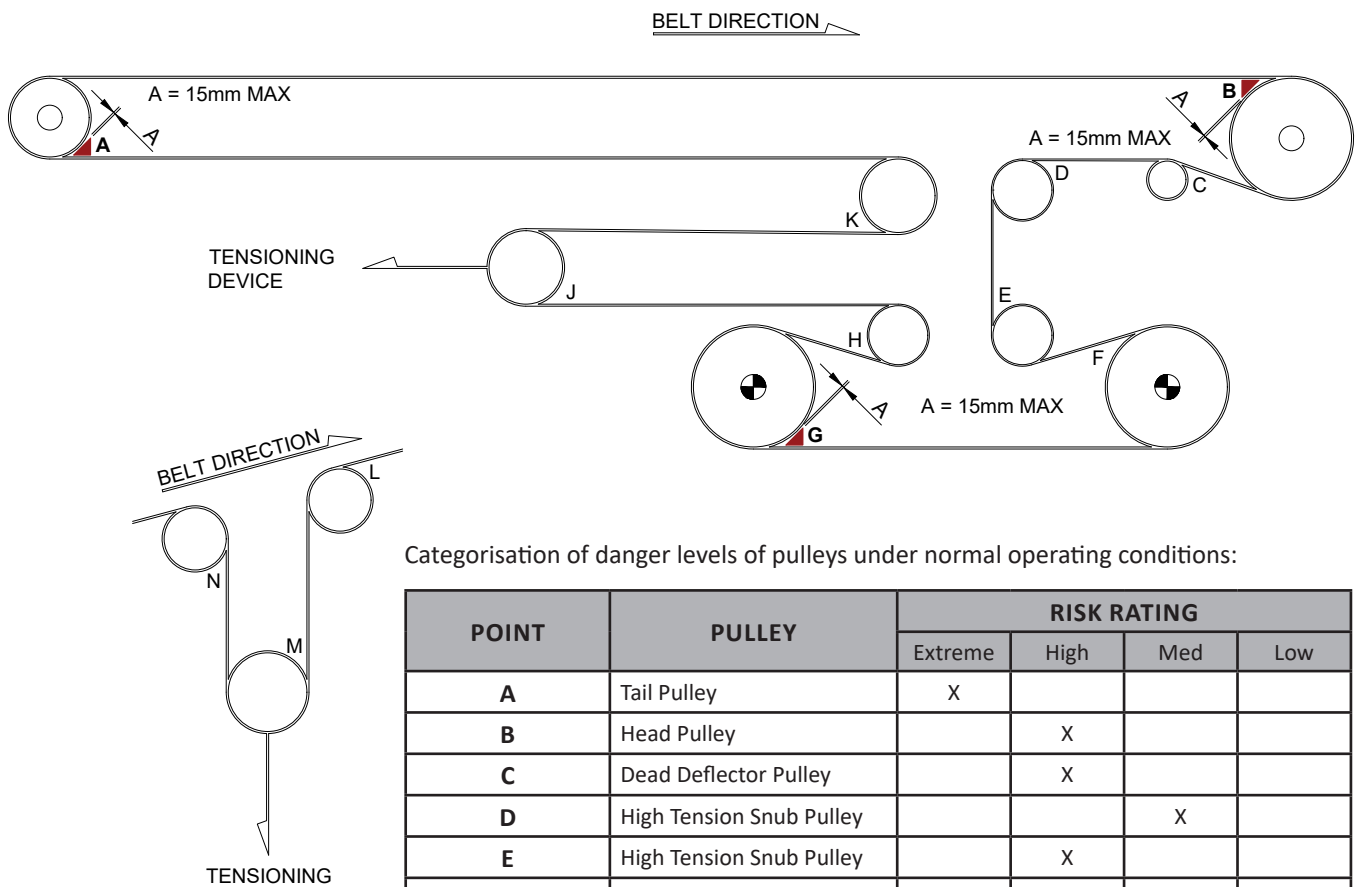
4.5. Preparation for Installing Nip Guards

Survey

Each installation should be assessed on the risk before the guarding principles of a specific installation is decided on, for example:

- Bi-directional belt;
- Excessive roll-back;
- Tensioning device;
- Unusual maintenance practices, etc.

Risk Guidelines - Nip points on a typical installation



Categorisation of danger levels of pulleys under normal operating conditions:

POINT	PULLEY	RISK RATING			
		Extreme	High	Med	Low
A	Tail Pulley	X			
B	Head Pulley		X		
C	Dead Deflector Pulley		X		
D	High Tension Snub Pulley			X	
E	High Tension Snub Pulley		X		
F	Drive Pulley			X	
G	Drive Pulley		X		
H	Low Tension Bend Pulley		X		
J	Take-up Pulley		X		
K	Low Tension Bend Pulley		X		
L	Low Tension Bend Pulley			X	
M	Take-up Pulley				X
N	Low Tension Bend Pulley				X

Safety around belt conveyors CMA MS01 REV 04/2016

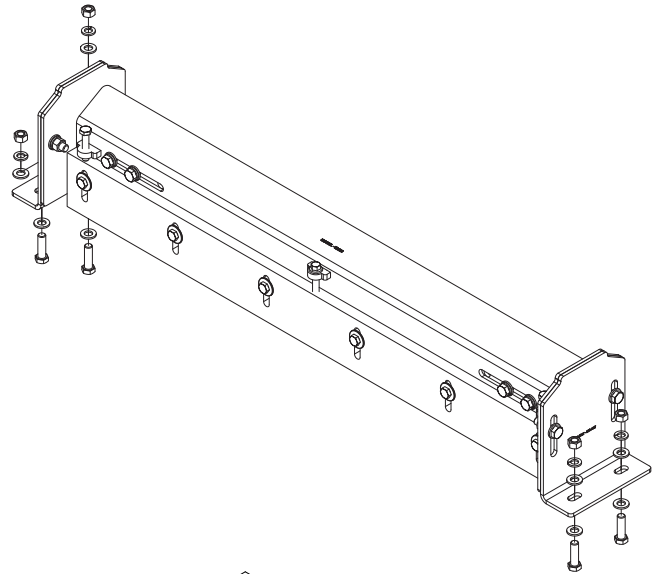
4.6. Recommended Tools List

QTY	DESCRIPTION
2	EXTENSION CORD (30m MIN)
1	PORT-A-PACK (OXY-ACETYLENE)
1	FLINT LIGHTER
1	ARC WELDER (INVERTER) 200 AMP
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	SCREWDRIVER SET
1	CHALK LINE
1	SCRIBER
1	CENTRE PUNCH
1	HACK SAW
1	STANLEY KNIFE

QTY	DESCRIPTION
1	4PD HAMMER
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 TOOLBOX
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

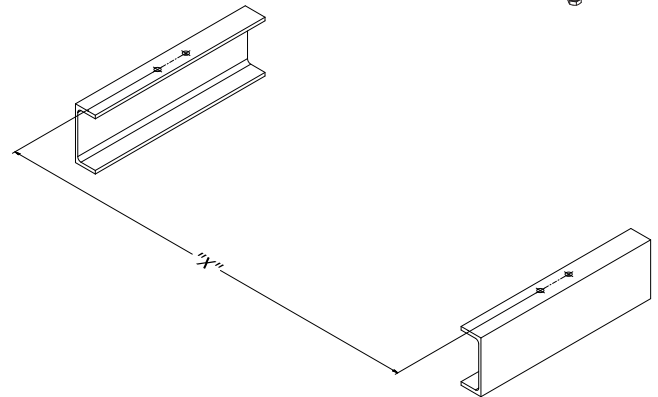
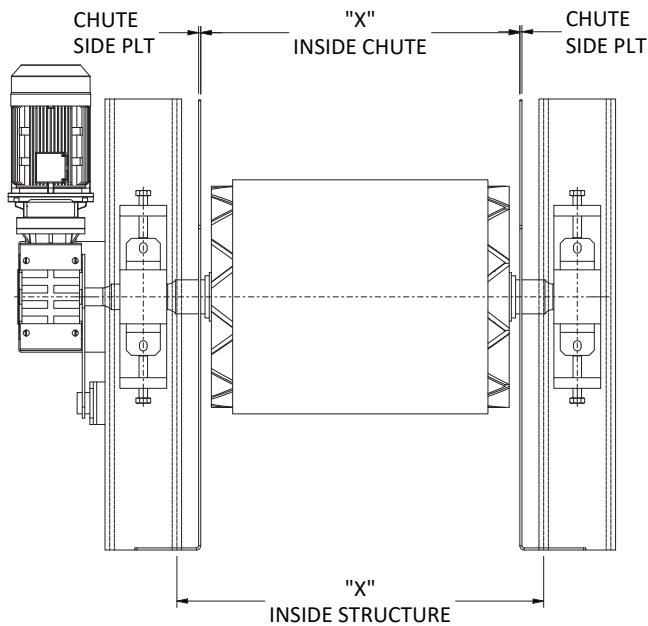
5. Installation

1. Remove the four mounting bolts, washers, spring washers and nuts from the width adjustment arm and set aside for later use. Note: if the Nip Guard is going to be installed on the inside of a chute remove the four mounting bracket locating bolts, washers, spring washers and nuts from the right and left hand width adjustment arms and set aside for later use. Note: set aside the stringer mounting brackets for later use.
2. Position the Nip Guard in front of the pulley.

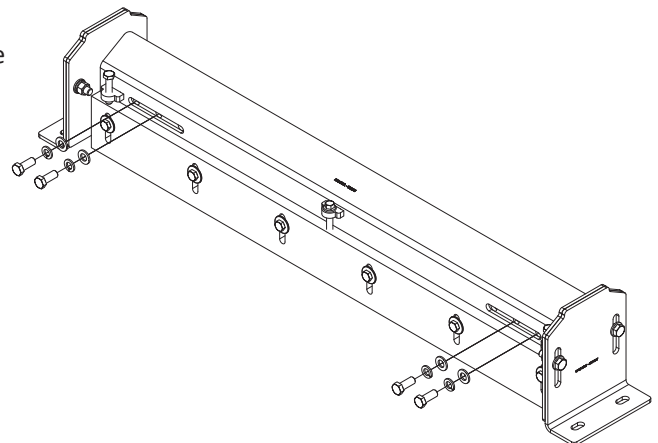


5.1. Setting Width and gap of Nip Guard.

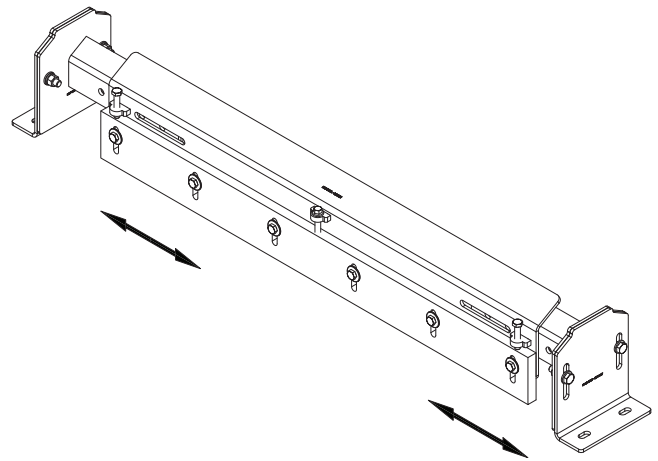
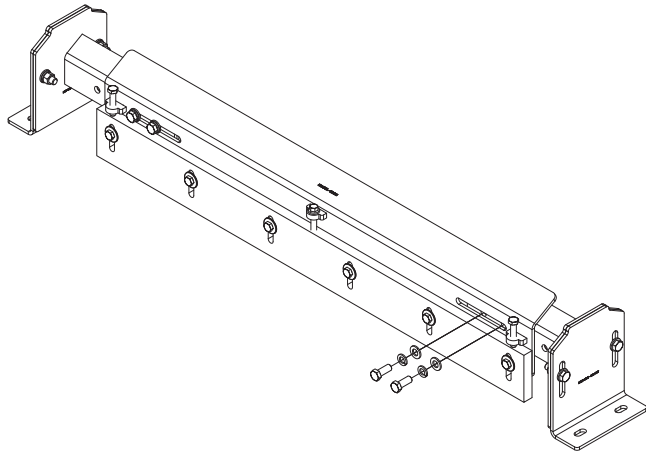
1. Measure the distance "X" between the conveyor stingers or the inside distance between the chute side plates or mounting support structure.



2. Loosen or remove the two left- and right-hand width adjustment arm bolts, washers, and spring washers from the width adjustment arms and set aside for later use.

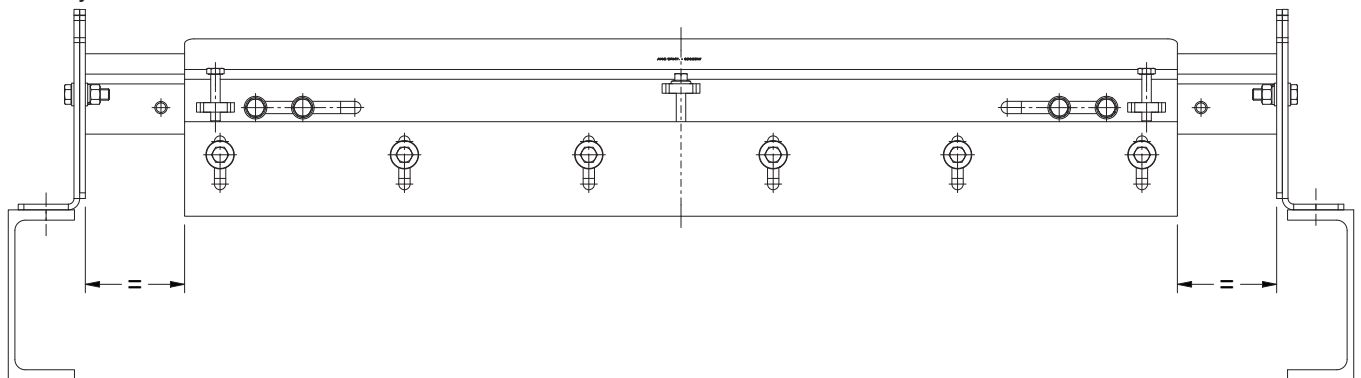


3. Slide the left- and right-hand width adjustment brackets inwards or outwards until it equals the measured distance "X" between the conveyor stringers or the inside distance between the chute side plates or mounting support structure.

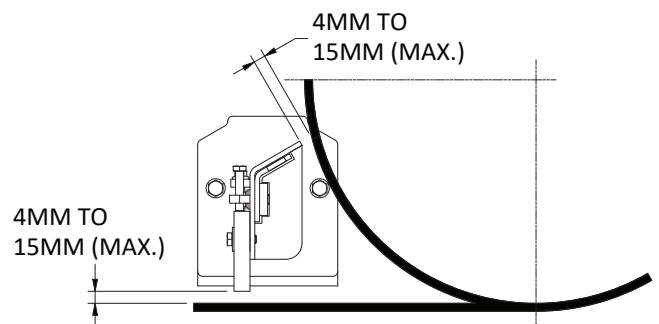


4. Locate the two left- and right-hand width adjustment arm bolts, washers, and spring washers, but do not tighten as further adjustment of the Nip Guard will be required.

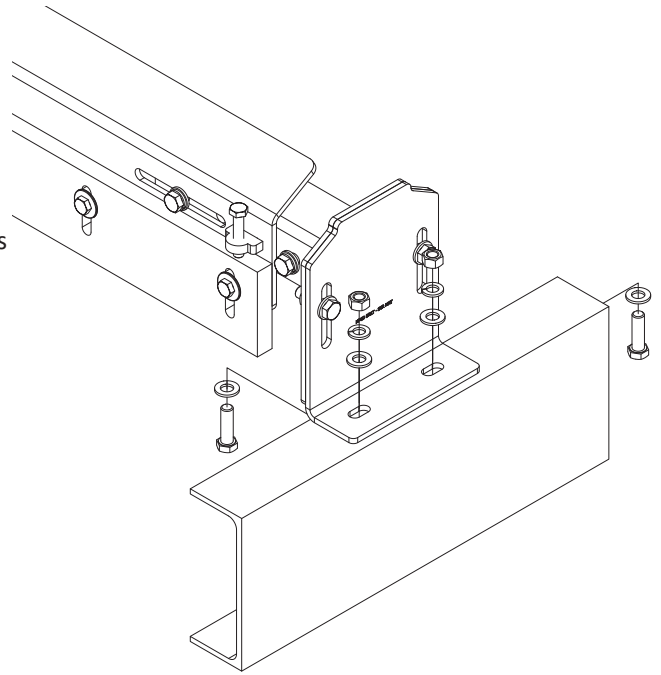
5. Centre the Nip Guard on the stringer or inside the chute side plates or support structure and tighten the width adjustment bracket bolts.



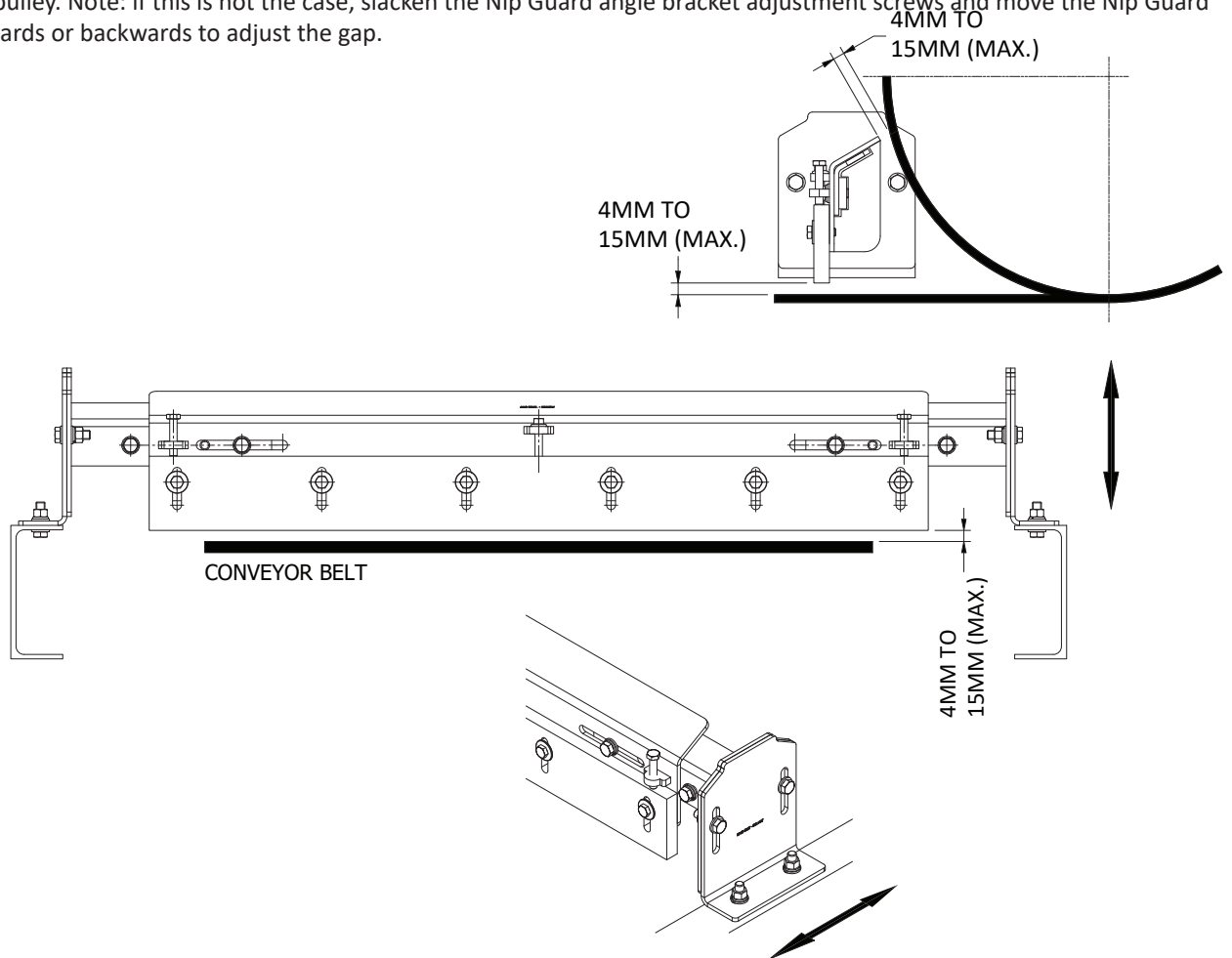
6. Position the Nip Guard 4mm to a maximum gap of 15mm away for the pulley and conveyor belt. Note: the Nip Guard should not make contact with the pulley.



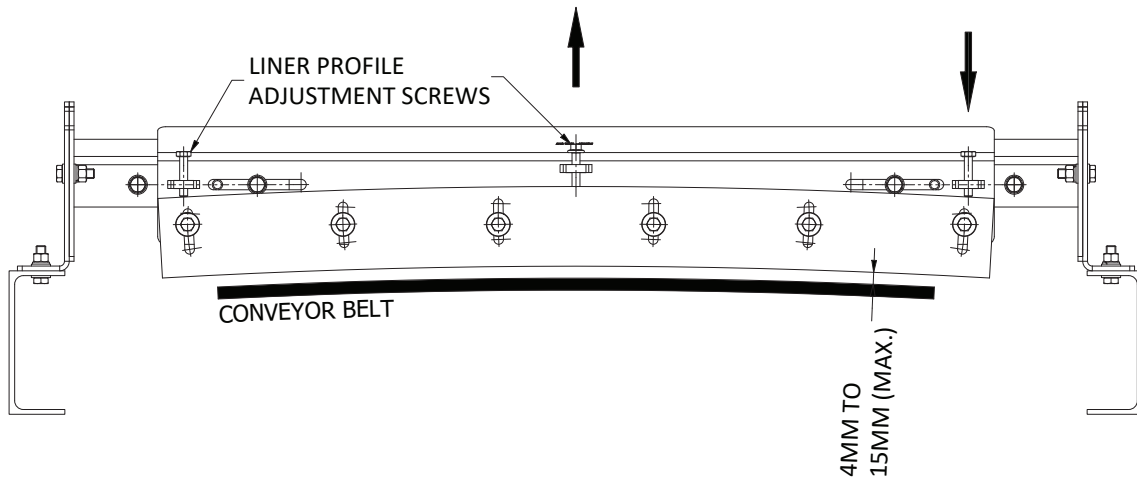
7. Mark the mounting hole locations. Note: refer to the installation drawing if the Nip Guard is going to be installed on the inside of the conveyor chute or mounting structure.
8. Move the Nip Guard out of the way and drill the holes.
Note: cover the conveyor belt to prevent burning during drilling and cutting activities.
9. Move the Nip Guard into position and secure to the stringers with the mounting bolts, washers, spring washers and nuts, Firmly tighten all bolts.



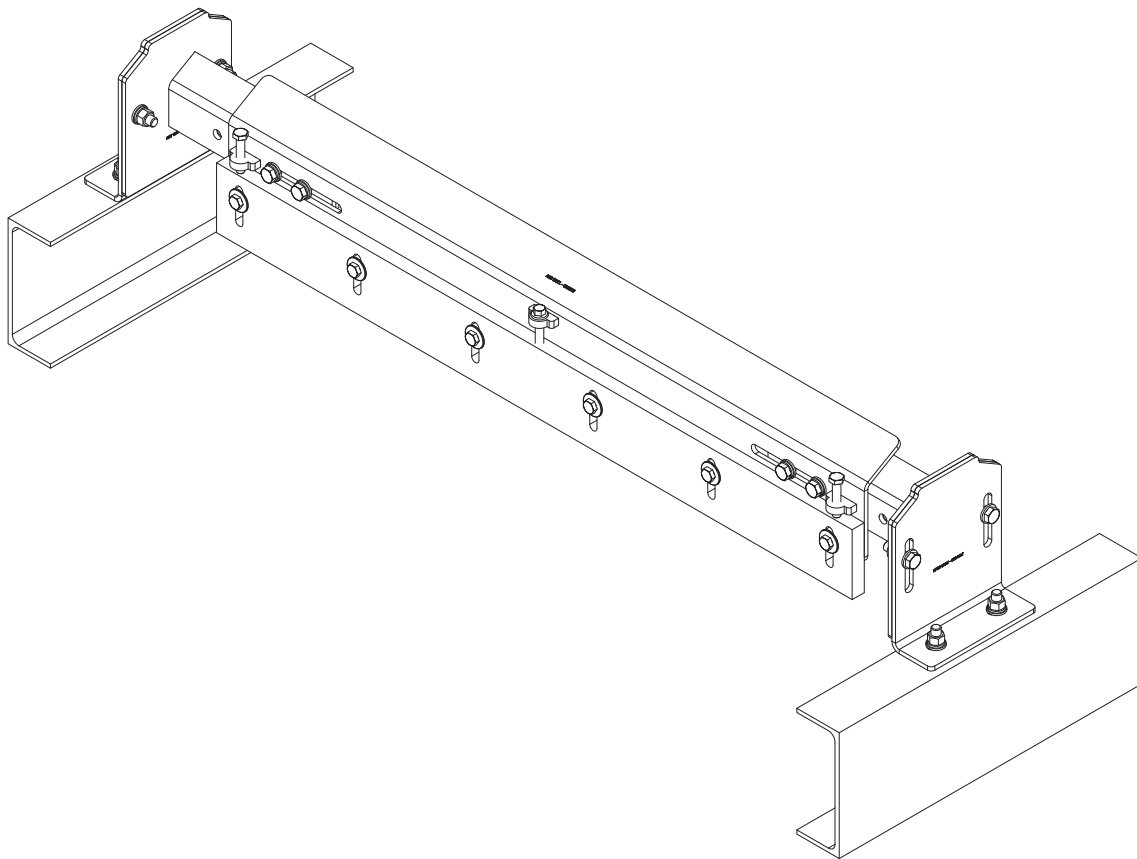
10. Check that the gap between the Nip Guard and pulley are set 4mm to a maximum gap of 15mm across the full width of the pulley. Note: if this is not the case, slacken the Nip Guard angle bracket adjustment screws and move the Nip Guard forwards or backwards to adjust the gap.



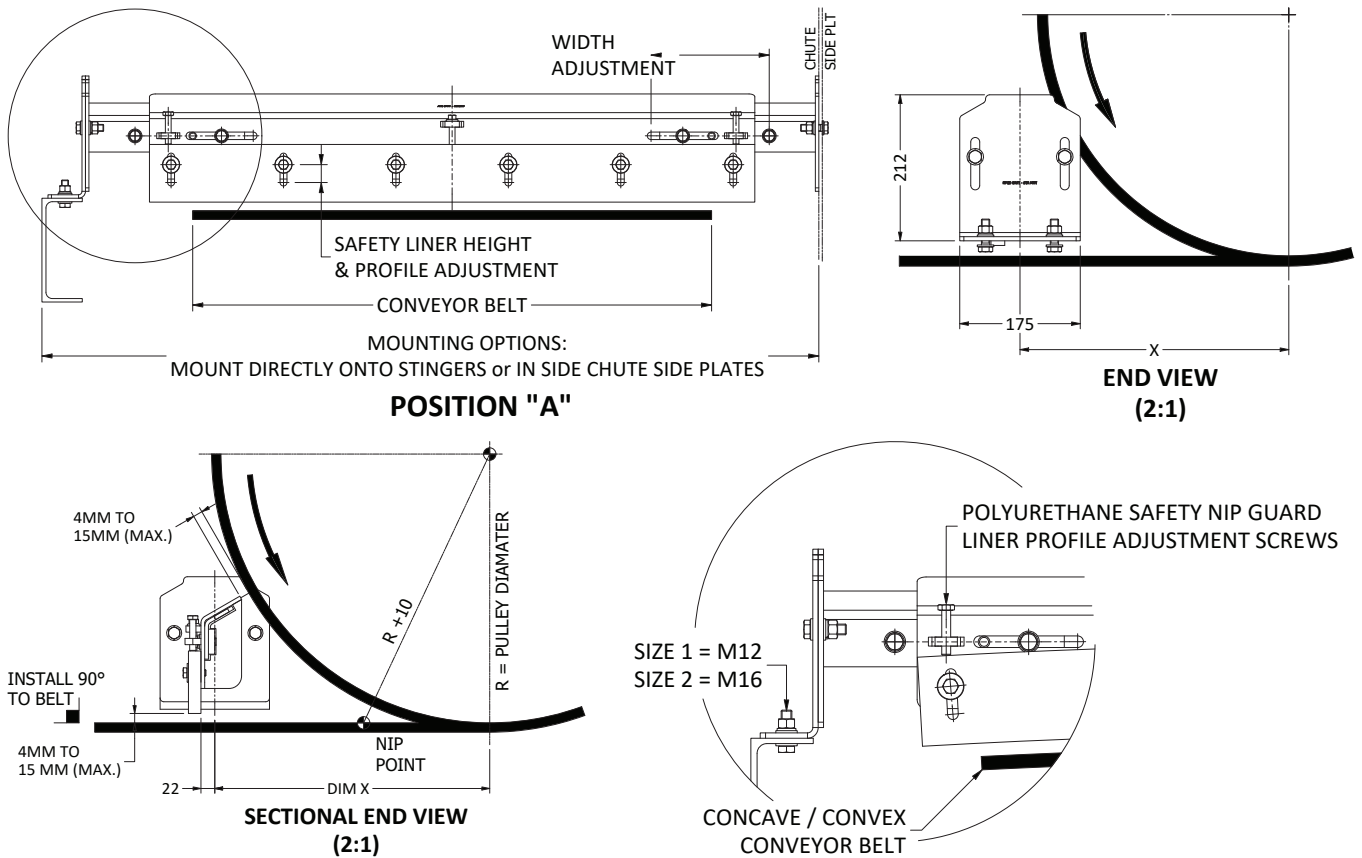
11. Check that the gap between the Safety Nip Guard Liner and belt are set 4mm to a maximum gap of 15mm across the full width of the belt. The Safety Nip Guard Liner can be profiled to conform to the belt profile by slacking the Safety Nip Guard Liner retaining screws and adjusting the Safety Nip Guard Liner profile adjustment screws.



12. Firmly tighten all bolts.



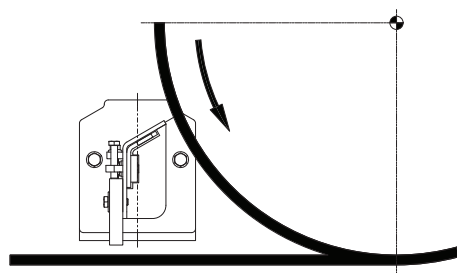
6. Installation Detail



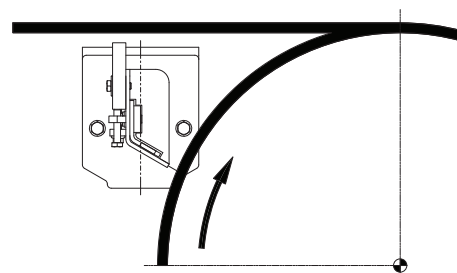
Installation Notes:

1. Nip Guard steel frame must not be in contact with the conveyor belt or pulley.
2. Polyurethane Nip Guard Safety Liner can be in direct contact with the conveyor belt.
3. Nip Guard must not be fixed to the pulley supports in such a way that the distance between the Nip Guard frame and the pulley do not vary. The distance between the Nip Guard Safety Liner and the conveyor belt must not vary, even when the conveyor belt is tensioned.

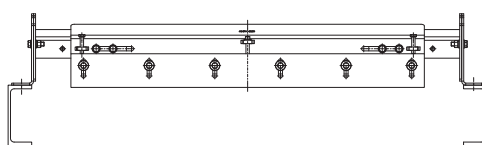
DIM X @ 15mm MAX. GAP		
PULLEY DIA.	DIM X	DIM X1
450	305	450
750	605	594
1000	855	689
1200	1055	755



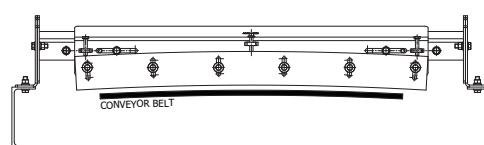
NIP GUARD POSITION - A (SECTIONAL END VIEW)



NIP GUARD POSITION - B (SECTIONAL END VIEW)



NIP GUARD POSITION - A (STRINGER MOUNTING)



ADJUSTABLE POLYURETHANE NIP GUARD SAFETY LINER TO CONFORM TO THE BELT PROFILE



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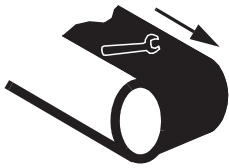
7. After Installing Nip Guards

IMPORTANT

Read entire section before starting work.

1. Remove all tools and fire retardant cover from installation area and conveyor belt. Thoroughly wipe chute or stringers clean where the Nip Guard was installed.

⚠ WARNING



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

⚠ DANGER



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

2. Turn on conveyor and observe the Nip Guard and that a constant gap between the Nip Guard, pulley, and belt is maintained. Note: allow belt to run through at least three to five revolutions.

⚠ WARNING



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

3. If further adjustment is required lock out / tag out energy source.
4. Adjust the Nip Guard to increase or decrease the gap between the pulley and belt.

IMPORTANT

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

8. Maintenance

Brelko Nip Guards are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the Nip Guards are installed a regular maintenance program should be set up. This program will ensure that the Nip Guard operates at optimal efficiency and problems can be identified and fixed before the Nip Guard 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.

8.1. New Installation

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

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

A visual inspection of the Nip Guard and belt can determine:

- If the Nip Guard is adjusted at the correct gap from the pulley and belt;
- If the Safety Nip Guard Liner is worn and needs to be replaced;
- If there is damage to the components; and,
- If fugitive material is built up on the Nip Guard.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for Nip Guard maintenance.

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

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

- Clean material build-up off the Nip Guard;
- Closely inspect Safety Nip Guard Liner for wear and any damage. Replace if needed;
- Inspect the Nip Guard for damage;
- Inspect all fasteners for tightness and wear. Tighten or replace as needed;
- Replace any worn or damaged components i.e., Safety Nip Guard Liner etc.
- Check the gap between the Nip Guard, pulley and belt does not exceed 15mm. Adjust gap if necessary.

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

9. Troubleshooting Guide

Problem	Possible Cause	Possible Solution
Incorrect gap.	Nip Guard positioned too far or too near from the pulley.	Adjust the Nip Guard to increase or decrease the gap between the pulley and Nip Guard.
	Nip Guard positioned too far or too near from the pulley.	Adjust the Safety Nip Guard Liner to increase or decrease the gap between the Safety Nip Guard Liner and belt.
	Cupped belt surface.	Adjust the Safety Nip Guard Liner to conform to the belt profile.
Wear on Safety Nip Guard Liner	Safety Nip Guard Liner in contact with conveyor belt.	Adjust the Safety Nip Guard Liner to ensure the Safety Nip Guard Liner is not in contact with the belt.

10. EU Declaration of Conformity

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

We, Brelko Conveyor Products (PTY) Ltd

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

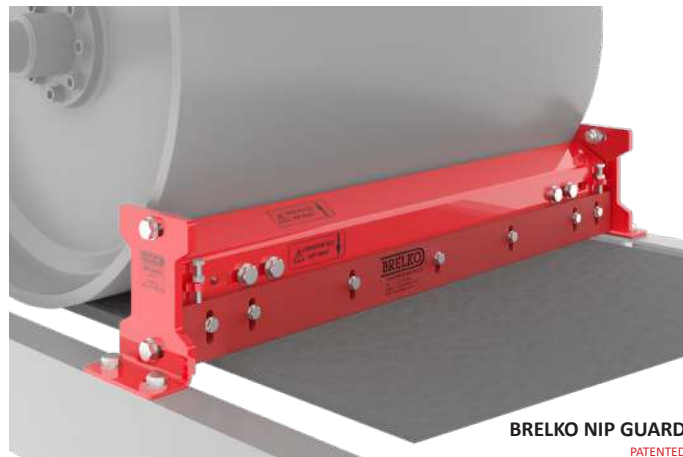
Declare that the declaration of Conformity is issued under our sole responsibility and belongs to the following product range:

Model Number(s) : 11-NPGD-A-B

Type : Nip Guard

Part Number : See shipping documents (example: 11-NPGD-0400-F)

Machinery of the declaration:



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

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

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



The following harmonised standards has been applied:

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

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

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

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

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



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