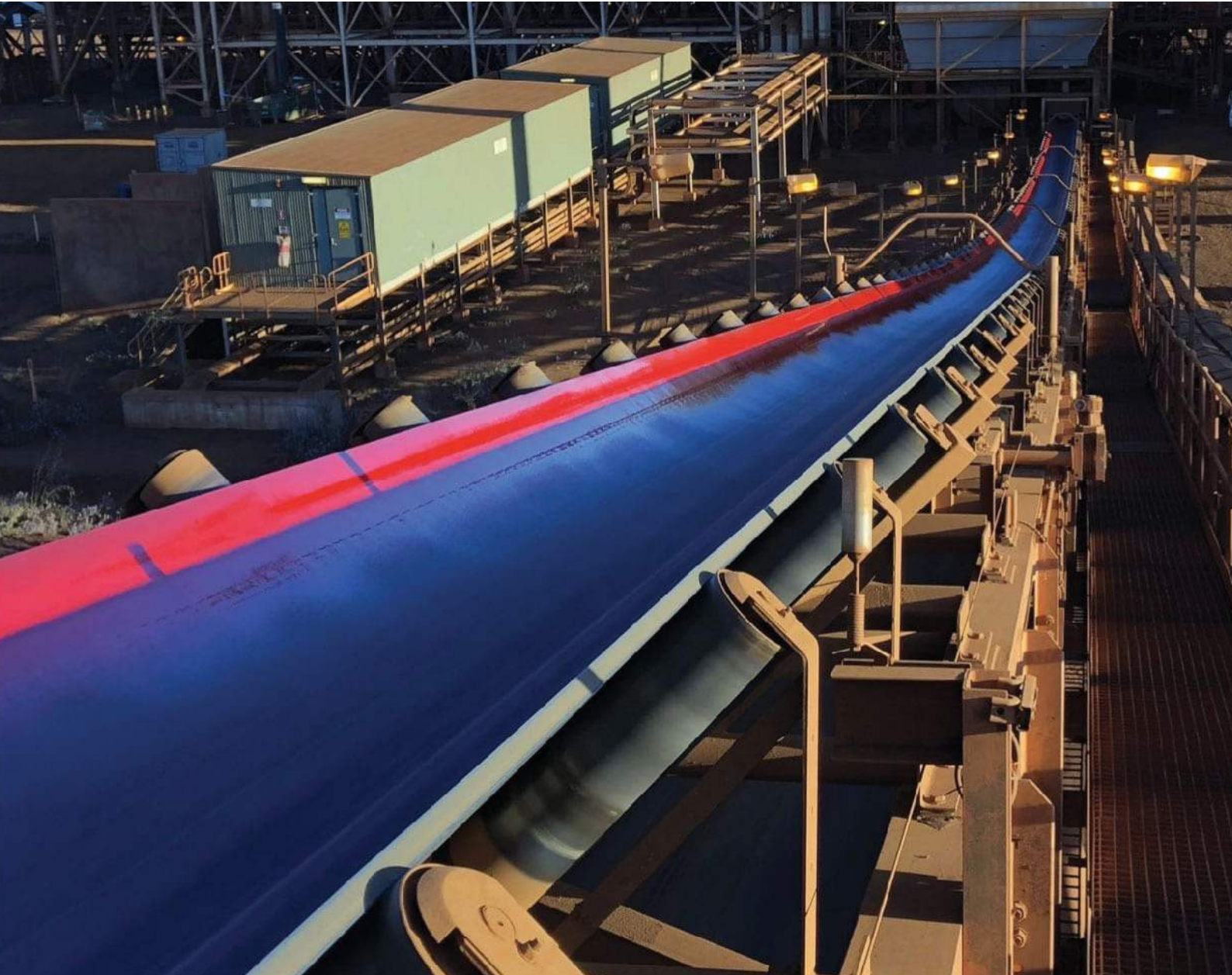




// ONE BRAND // ONE SOURCE // ONE SYSTEM



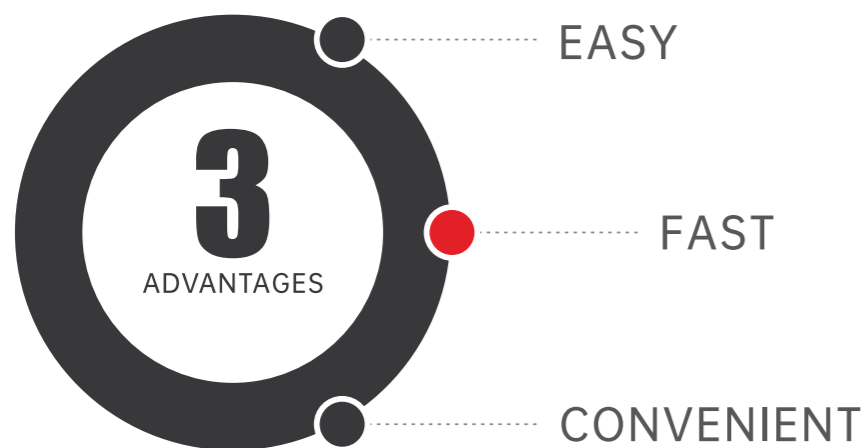
Installation Guide

REMA SCREW

REMA SCREW THE ADVANTAGES OF



PLEASE READ THIS MANUAL CAREFULLY
THIS PRODUCTS SUITABLE FOR THE SPLICING OF TEXTILE CONVEYOR BELTS ONLY

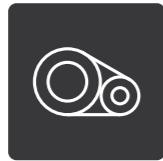


THE ADVANTAGES OF REMA SCREW

- 1** Quick and easy installation
- 2** Battery powered drill recommended (Do not use impact drill)
- 3** No need for expensive equipment
- 4** Special self-taping screw: avoid damaging the carcass
- 5** The carcass' structure is similar to that of the conveyor belt, but stronger
- 6** The splicing have good flexibility



CONVEYOR BELT STRENGTH



OVERALL THICKNESS

THE WORKING TENSION



SELECT CORRECT COVER GRADE

01 STEP CHOOSE THE PROPER PRODUCTS TYPE

PLEASE REFER TO THE FOLLOWING TABLE WHEN SELECTING

Need to know the strength, working tension, overall thickness and the cover grade of the conveyor belt, choose the proper REMA SCREW type based on these parameters; Or tell us the type of conveyor belt, we will choose for you.

Product Type	SP35	SP63	SP65	SP80	SP85	SP100	SP105
Conveyor belt thickness mm	4-11	4-13	4-13	4-15	5-15	6-15	6-15
Nominal strength of conveyor belt N/mm	315	630	630	800	800	1000	1000
Maximum working tension N/mm	35	63	63	80	80	100	100
Minimum roller diameters Ø mm	200	300	300	350	400	350	400
Popular conveyor belt	EP400 EP315	EP500,EP630		EP800		EP1000	

REMARKS

- Such as EP 800 , the belt strength is 800 N/mm
- After REMA SCREW Type confirmed, have to select suitable screws as per the belt thickness.

Product Type	SP125	SP127	SP180	SP185	SP200	SP205
Conveyor belt thickness mm	7-20.5	7-19	7-20.5	7-19	7-19	7-17.5
Nominal strength of conveyor belt N/mm	1250	1250	1800	1800	2000	2000
Maximum working tension N/mm	125	125	180	180	200	200
Minimum roller diameters Ø mm	400	500	800	800	1000	1000
Popular conveyor belt	EP1250		EP1800		EP2000	

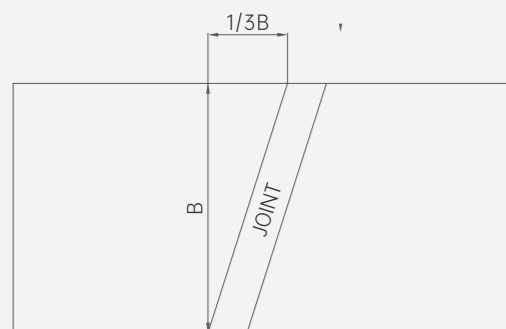
02 STEP CONFIRM REMA SCREW DIMENSION



THE SPLICING LENGTH IS DETERMINED BY THE WIDTH OF DIFFERENT TYPE OF REMA SCREW AS FOLLOWS

Product Type	SP35	SP63 SP65	SP80 SP85 SP100 SP105	SP125 SP127 SP180 SP185 SP200 SP205
Model Width mm	62	110	156	266
Joint Length mm	62	110	156	266

IT WILL BE BIA SPLICING, AND THE LENGTH OF THE INCLINED EDGE IS 1/3 OF THE BELT WIDTH



- Calculate according to the figure:
- The required length of REMA SCREW is commonly based on the belt width + 10 % of the belt width as the slightly redundant of REMA SCREW. After the splicing is completed, it will be cut to an appropriate width.

03 STEP CHOOSE THE PERFORMANCE OF REMA SCREW

PRODUCTS PERFORMANCE IS CATEGORIZED AS FOLLOWS

The performance of the REMA SCREW needs to be selected according to the work condition and the materials being transported by the conveyor belt.

Abrasion Resistant (AR)

Suitable for most abrasion and general use occasions
DIN abrasion index: $\leq 90 \text{ mm}^3$

Heat Resistant (HR)

Suitable for conveying materials up to $150 \text{ }^\circ\text{C}$, such as pellets, sinters and clinker

High Temperature Resistant (HTR)

Suitable for conveying materials up to $200 \text{ }^\circ\text{C}$, such as pellets, sinters and clinker

Low Temperature Resistant (LTR)

Suitable for material transportation in cold environment,
cold resistant temperature $\geq 45^\circ\text{C}$

Oil Resistant (OR)

Suitable for conveying oily materials such as wood, oil and urban solid waste

Fire Resistant (FR)

Suitable for materials transportation under environments such as power plants, coal mines and underground mines

THE PERFORMANCE OF REMA SCREW

The performance of REMA SCREW is designed and produced according to the highest international standards for conveyor belts, which can meet the requirements of transporting different materials. Choosing the right performance has significant effect on product longevity and it needs to be checked carefully during products selection.



04 STEP CHOOSE THE SCREW FOR REMA SCREW

- The screws suitable for REMA SCREW are special self-tapping screws. Need to select the screw size according to the thickness of the conveyor belt (we have determined the required number according to the products type). You can choose according to the following table or inform us the conveyor belt type, and we will choose the most suitable specification for you.
- The selection of the length of the special screw is vital: if the length of the screw is too short, the product installation cannot be completed, and the required strength of the joint cannot be achieved. If the length of the screw is too long, the screw's end will be exposed.

Ø5MM SPECIAL SCREWS AND SPACERS








REMA SCREW	TYPE	SP35	SP63	SP65	SP80	SP85	SP100
Number of screws screw/m		110	200		280		
Number of spacers spacer/m		10					
Screws PZ Bits		PZ 2					
Belt thickness mm	Spacer Type	Screw size Ø x Lmm					
4-5		5x10	5x10	5x12	5x12	None	None
5-7		5x12	5x12	5x14	5x14	5x16	5x16
7-9		5x14	5x14	5x16	5x16	5x18	5x18
9-11		5x16	5x16	5x18	5x18	5x20	5x20
11-13		5x18	5x18	5x20	5x20	5x22	5x22
13-15		None	None	None	5x22	5x24	5x24

Ø6MM SPECIAL SCREWS AND SPACERS

REMA SCREW	TYPE	SP125	SP127	SP180	SP185	SP200	SP205
Number of screws screw/m		254					
Number of spacers spacer/m		10					
Screws PZ Bits		PZ 3					
Belt thickness mm	Spacer Type	Screw size Ø x L mm					
7-8		6x19.5	6x21	6x19.5	6x21	6x21	6x22.5
8-10		6x21	6x22.5	6x21	6x22.5	6x22.5	6x24
10-11.5		6x22.5	6x24	6x22.5	6x24	6x24	6x25.5
11.5-13		6x24	6x25.5	6x24	6x25.5	6x25.5	6x27
13-14.5		6x25.5	6x27	6x25.5	6x27	6x27	6x28.5
14.5-16		6x27	6x28.5	6x27	6x28.5	6x28.5	6x30
16-17.5		6x28.5	6x30	6x28.5	6x30	6x30	N/A

05 STEP TOOLS & PPE WEAR INSTRUCTION

If help needed, please contact us.

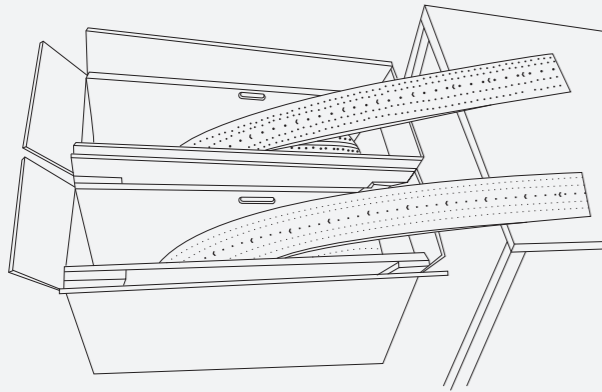
Object	Requirement	Purpose	Note
Work gloves	With certain anti-cut function	Protect the hands of operator	
Safety goggles	High transparency	Protect the eyes of operator	
Measuring tape	Range 3000mm/1000mm	Measure the size of the belt and REMA SCREW	
Cutting Knife	With metal sheath	Cut the conveyor belt	
Mark pen	White and water-soluble color	Marking	
Electronic screw drive	Lithium battery is recommended for easy operation	Screwing	
Electronic skiver and blades	Lithium battery is recommended for easy operation	Skiving the rubber cover	

Note :

- Do not use the impact drill
- Do not screw on the drum
- PPE wear important
- Place, do not slide timber board under superscrew

06 STEP INSTALLATION OF REMA SCREW

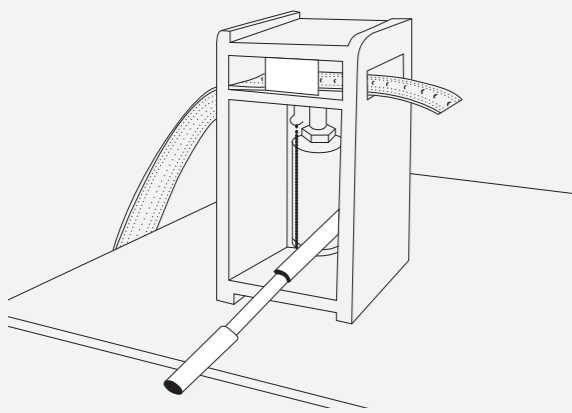
OPEN REMA SCREW PACKAGE



- **Identify the upper part and the bottom part:**
Both upper and bottom parts have printed marking in the middle for identification. Upper part is use for the working cover side of the conveyor belt; Bottom part used only for the Pulley cover side of the conveyor belt.

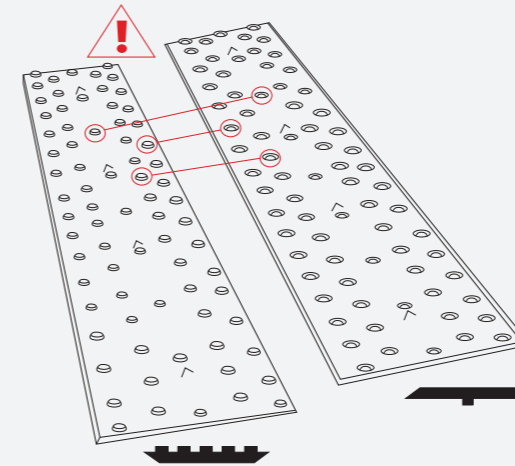
The upper and bottom parts are packaged separately, but they have been matched.
- **Important:**
Please carefully check the batch number on the package. The upper and bottom parts with the same batch number are matched.

CUT REMA SCREW TO THE REQUIRED LENGTH



- Use hydraulic cutting tools for cutting. (contact us if you need cutting tools)
- Grinder can be used for cutting.

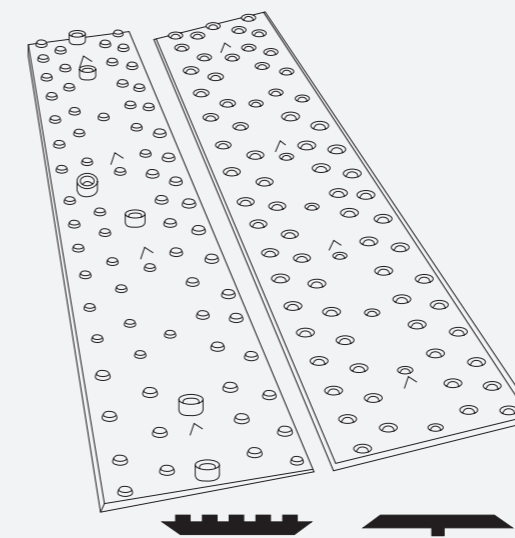
ALIGN TOP AND BOTTOM HOLES



- **Note :**
When aligning, the arrows on the marking strips must be pointing at the same direction. Small gaps may be noticed due to the elasticity of materials.
- (In this figure, bottom part is on the left with its working surface downward;

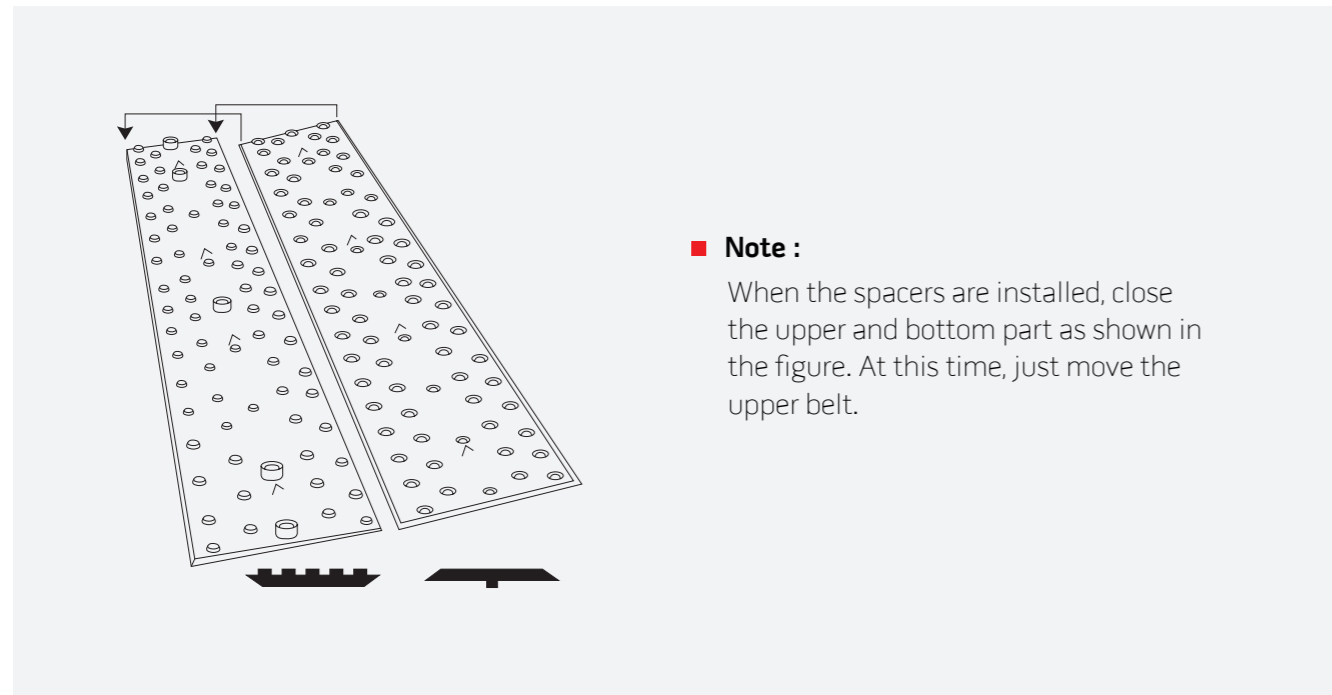
Upper part is on the right with its working surface upward).

INSTALL THE SPACERS FROM BOTH SIDES (FOR THE MIDDLE ROWS OF PRODUCTS)



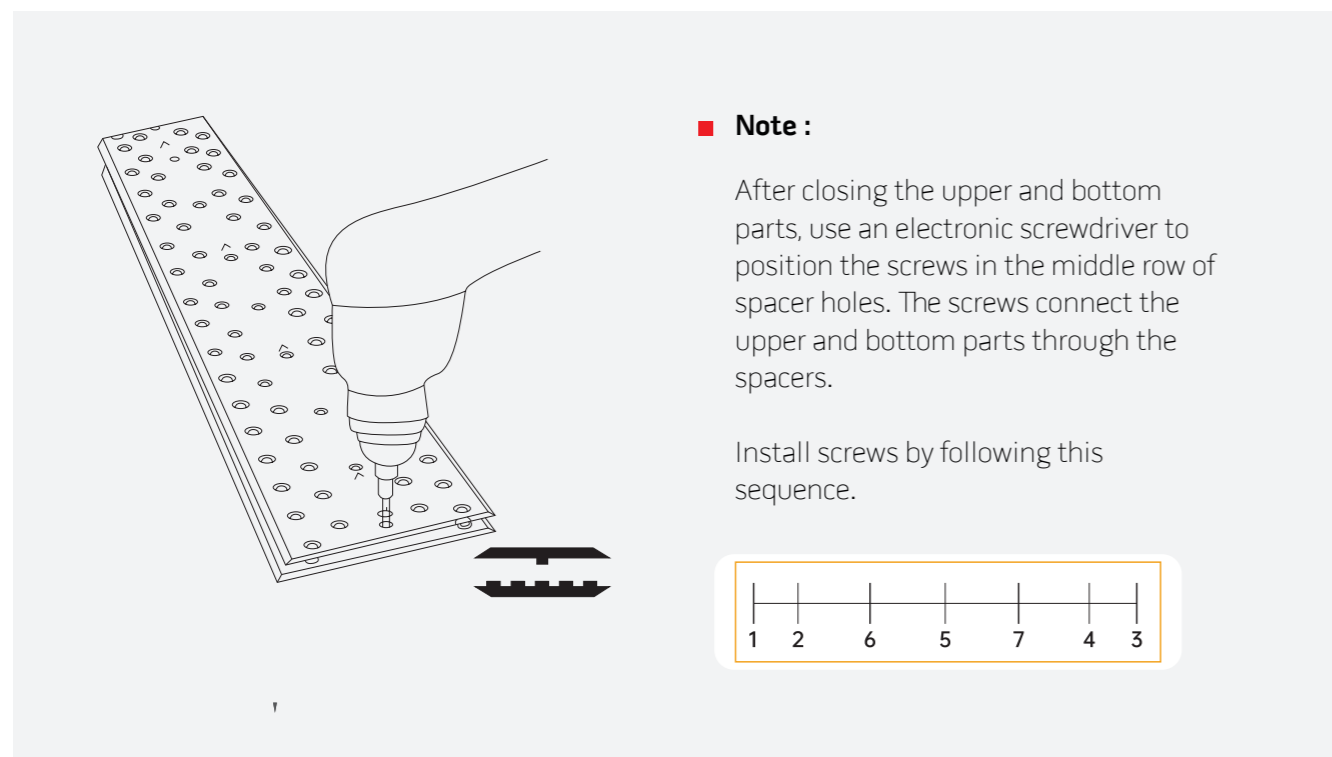
- **Note :**
The spacer is to determine the position of the upper and bottom parts. When the spacers are fixed, the positions of the upper and bottom belt screw hole will also be aligned.
- The spacers are only placed on a row of raised holes in the middle of the back side of the bottom parts.

CLOSE THE UPPER AND BOTTOM BELT AS SHOWN IN FIGURE



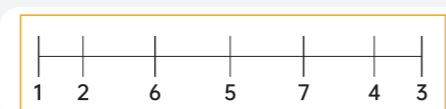
- Note :**
 When the spacers are installed, close the upper and bottom part as shown in the figure. At this time, just move the upper belt.

INSTALL SCREWS THROUGH THE SPACERS

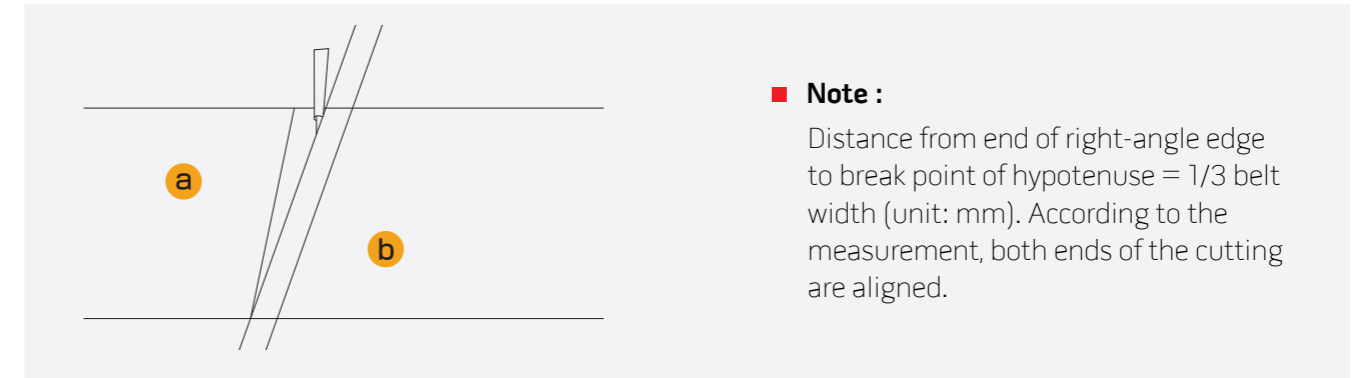


- Note :**
 After closing the upper and bottom parts, use an electronic screwdriver to position the screws in the middle row of spacer holes. The screws connect the upper and bottom parts through the spacers.

Install screws by following this sequence.

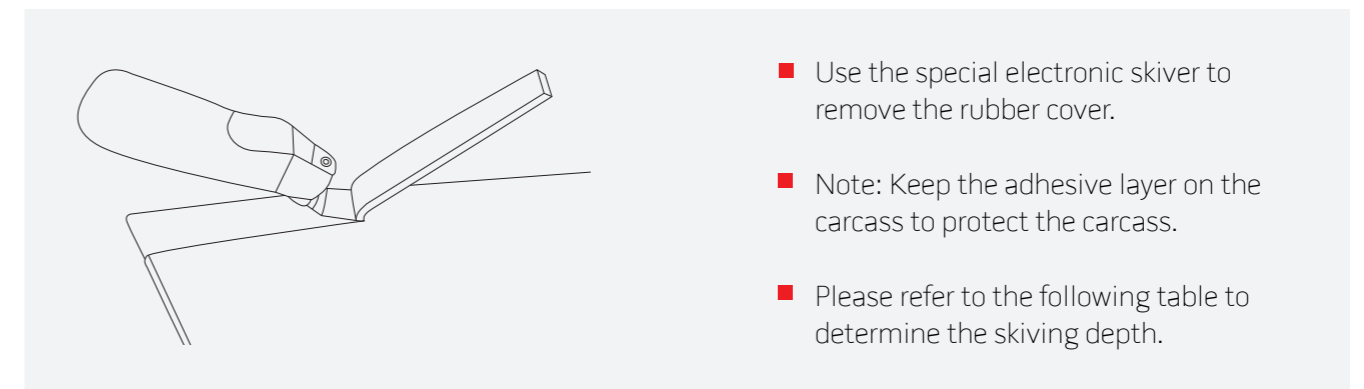


MEASUREMENT, SCRIBING AND CUTTING ON THE BELT END



- Note :**
 Distance from end of right-angle edge to break point of hypotenuse = $\frac{1}{3}$ belt width (unit: mm). According to the measurement, both ends of the cutting are aligned.

SKIVING THE RUBBER COVER TO APPROPRIATE THICKNESS

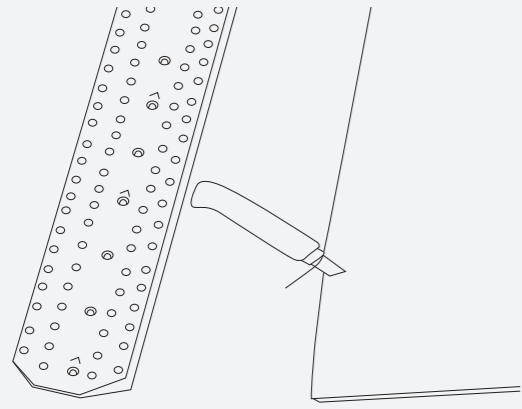


- Use the special electronic skiver to remove the rubber cover.
- Note:** Keep the adhesive layer on the carcass to protect the carcass.
- Please refer to the following table to determine the skiving depth.

REMA SCREW	SP35	SP63	SP65	SP80	SP85	SP100	SP105
Skiving depth trailing side mm	24	50		72			
Skiving depth leading side mm	38	60		84			
Top belt thickness $\pm 1\text{mm}$	4.5	5	6.5	6	7.5	7.5	9
Bottom belt thickness $\pm 1\text{mm}$	3.7	4	4	4.5	4.5	4.5	4.5

REMA SCREW	SP125	SP127	SP180	SP185	SP200	SP205
Skiving depth trailing side mm	126					
Skiving depth leading side mm	140					
Top belt thickness $\pm 1\text{mm}$	6.5	8.5	6.5	8.5	8.5	10
Bottom belt thickness $\pm 1\text{mm}$	6	6	6	6	6	6

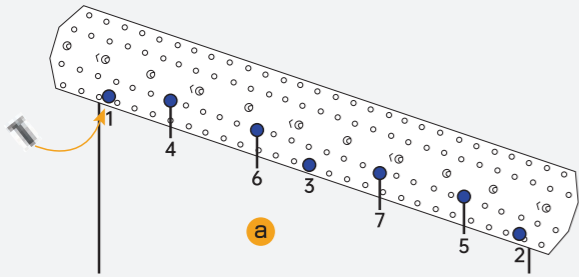
CHAMFERING BOTH SIDES OF THE CONVEYOR BELT



- **Note :**
If the total thickness of the conveyor belt $\geq 6m$, then chamfering is required.

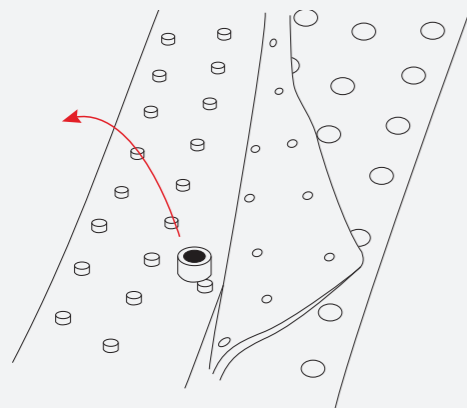
Place the REMA SCREW in close contact with the belt, ensuring that REMA SCREW is resting against the spacers.

SCREWING FROM THE TRAILING SIDE



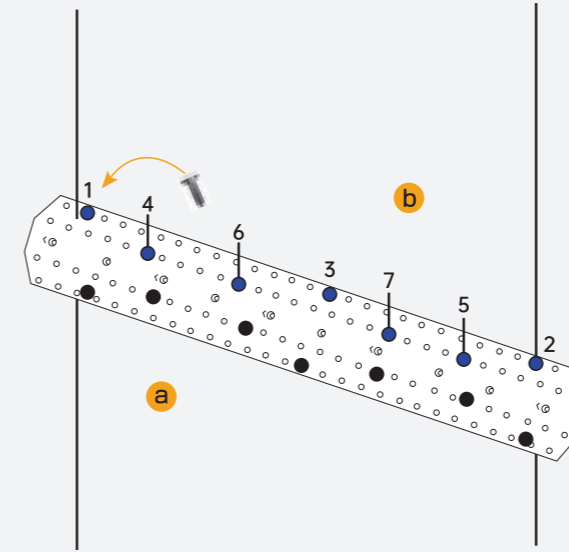
- **Note :**
Screwing sequence is shown in figure.
Place a thick wood board underneath the belt, then screwing on it.

REMOVE THE SPACERS



- **Note :**
Before removing the spacers, all screw on the REMA SCREW trailing side should all be tightened.

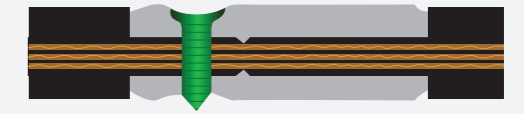
ALIGNING AND SCREWING ON THE OTHER SIDE



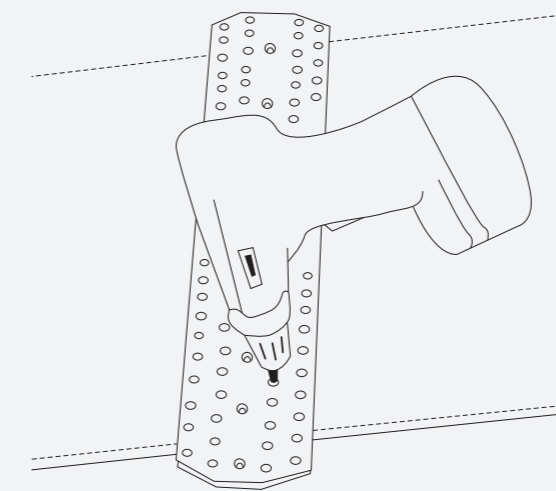
- **Note :**
Screwing sequence is shown in figure.

two parts should be in close contact.

WARNING
Get the 2 sides in contact

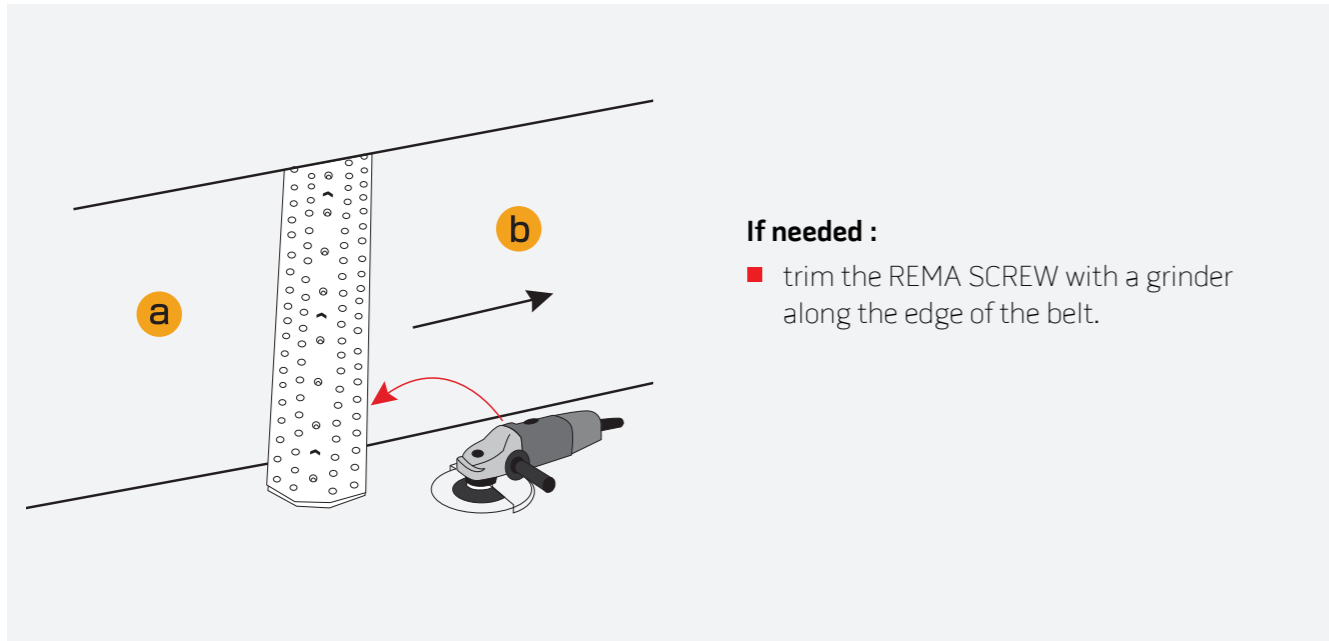


TIGHTEN ALL SCREWS



- **Note :**
Tighten all screws.

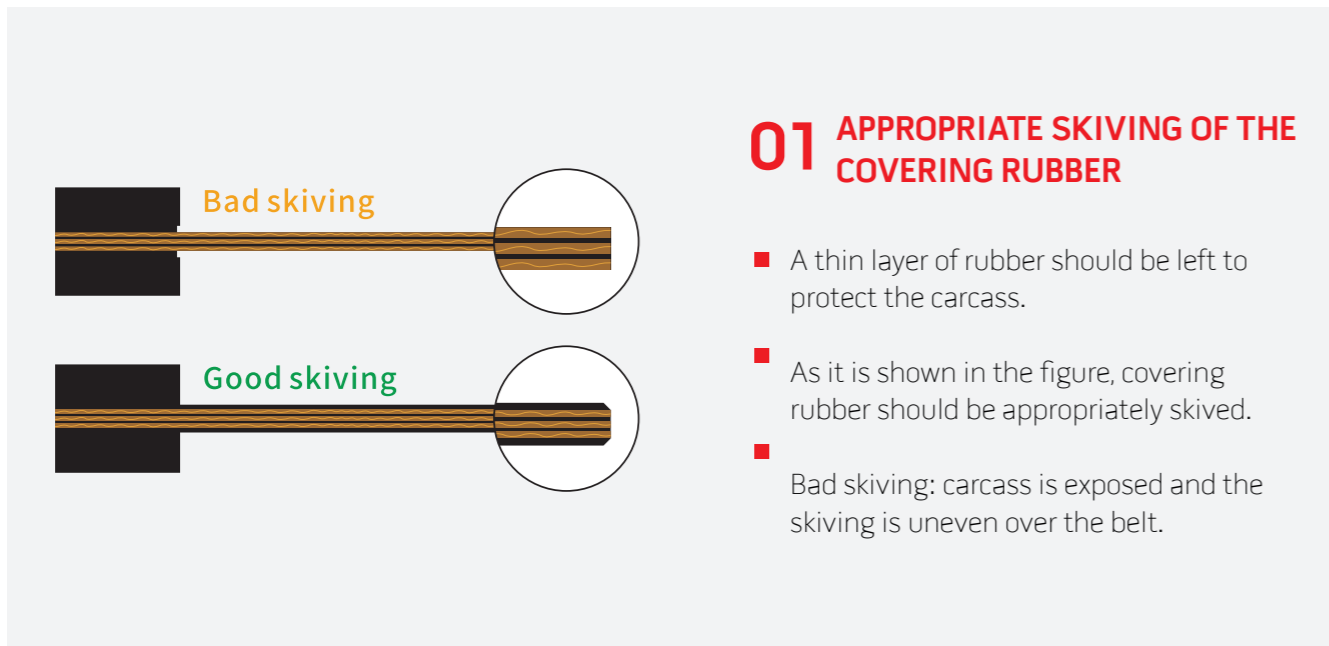
IF NEEDED, TRIM THE REMA SCREW WITH A GRINDER ALONG THE EDGE OF THE BELT



If needed :

- trim the REMA SCREW with a grinder along the edge of the belt.

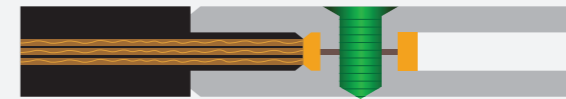
POINTS TO NOTE WHEN SPLICING



01 APPROPRIATE SKIVING OF THE COVERING RUBBER

- A thin layer of rubber should be left to protect the carcass.
- As it is shown in the figure, covering rubber should be appropriately skived.
- Bad skiving: carcass is exposed and the skiving is uneven over the belt.

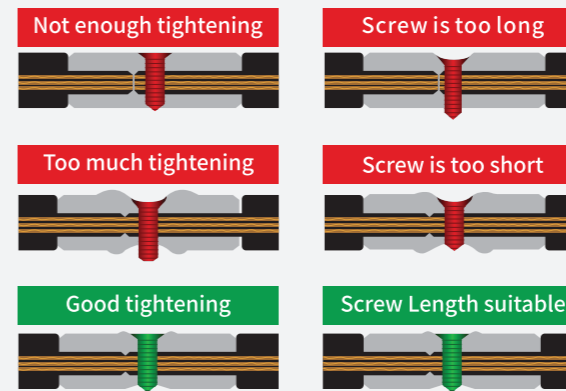
02 SPACER AND TRAILING BELT POSITION



Note :

- The belt textile core should be tightly close to the spacer.

03 THE TIGHTNESS AND THE LENGTH OF THE SCREWS



- Appropriate screw tightening is required.
- Select the appropriate screw length.



When select REMA SCREW for chevron belt's splicing, please contact us for tech support & suggestion.

04 THE BELTS TEXTILE CORE OF THE TRAILING BELT SHOULD BE IN CLOSE CONTACT WITHOUT ANY GAPS

- REMA SCREW also suitable for the splicing of Chevron Textile Convey or Belting.
- **Attention**
The splicing have to follow the chevron belts pattern.

Talk to our team today

INDUSTRY LOCATIONS

NEW SOUTH WALES

Newcastle

Lot 8 / 19 Balook Drive, Beresfield NSW

SOUTH AUSTRALIA

Adelaide

- 11 Lafitte Road, Wingfield SA 5013
- 6/16 Phillis Street, Wingfield SA 5013

QUEENSLAND

Brisbane

- 52 Wentworth Place, Banyo QLD
- Unit 18 10-12 Cerium Street, Narangba
4504 Brisbane QLD

Mackay

29-33 Maggiolo Drive, Mackay QLD

Gladstone

18 Helen Street, Gladstone Central QLD

WESTERN AUSTRALIA

Perth

102 Kurnall Road, Welshpool WA 6106

Port Hedland

41 Harwell Way, Wedgefield WA 6721

Kalgoorlie

16 Cunningham Drive, Kalgoorlie WA 6430

Bunbury

43 Halifax Drive, Bunbury WA

Kwinana

Unit 4/32 Beach Street, Kwinana Beach WA

NORTHERN TERRITORY

Darwin

Unit 2/45 Toupein Road, Yarrowonga
0830 Darwin NT



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// REMA CONVEYING

// REMA SURFACE PROTECTION