



**Matveyor®**

Modular Belts  
and Components  
for Nose Over  
Transfer





# Matveyor® Modular Belts and Components for Nose Over Transfer

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# Matveyor® Modular Belts and Components for Nose Over Transfer

## ABSTRACT

### END-TO-END TRANSFER DESCRIPTION AND GENERAL CRITICALITIES

- End-to-end transfer is a linear transfer of the product from the head of one conveyor to the next one, as opposed to a lateral transfer.
- End-to-end transfer allows for more compact layout of the lines, with consequent floor space saving.
- A well designed end-to-end transfer requires the adoption of belts with the shortest pitch possible, typically ½" pitch belts. As a matter of fact, when using greater pitch chains or belts (3/4", 1" or more), the following occurs:
  - Long stationary deadplates are required to close the gap between the two conveyors.
  - Products infeeding the deadplates push the containers already positioned on the deadplates, potentially causing product tipping or damaging.
  - At the end of the production shift, products eventually left on the deadplates have to be removed manually.

### REGINA SOLUTION TO BEST TACKLE END-TO-END TRANSFER

Regina designed the most complete offer range to tackle end-to-end transfer, including:

- ½" pitch modular belts.
- A full range of static nose over bars supplied in modular length.
- An uniquely developed small diameter 8T sprocket.

What makes Regina ½" pitch belts offer unique:

- Availability of ½" pitch belts with both flat and round bottom contour (see product selection section).
- Rubberized belts displaying the highest ratio of gripping surface available on the market.
- Complete range including both metric and imperial width standards.

### REGINA ½" PITCH BELTS

Regina offers the most complete range of ½" pitch belts available on the market, all 8,7 mm thick, having the following technical and geometrical features:

- Top surface: solid, rubberized or flush grid.
- Bottom surface: flat (available for metric standard widths only) or round.
- Width standards: metric (85 mm width increments) or imperial (3" width increments).
- Tracking guide: belts available with or without tracking guide, depending on the series.

The complete range of Regina ½" pitch belts, together with their geometrical features and available materials, are shown in Exhibit 1.

EXHIBIT 1 - REGINA ½" PITCH BELTS RANGE

SERIES	TOP SURFACE	BOTTOM DESIGN	WIDTH STANDARD	TRACKING GUIDE VERSION		MODULE MATERIAL	RUBBER MATERIAL
				Without	With		
610	Solid	Round	Metric	Available	Available	UP PP	
600	Solid	Flat	Metric	Available	Available	UP PP	
500	Flush Grid	Flat	Metric	Available	Available	UP PP	
HF 510/HFS 510	Rubberized	Round	Metric	Available	Available	ULF PP	TPE TPE
LBP 610	Rollers	Round	Metric	Available	Available	UP	
300	Solid	Round	Imperial	Available	Available	UP PP	
200	Flush Grid	Round	Imperial	Available	Not Available	UP PP	
HF 200	Rubberized	Round	Imperial	Available	Not Available	ULF PP	TPE TPE

# Matveyor® Modular Belts and Components for Nose Over Transfer

## ABSTRACT

### REGINA ACCESSORIES RANGE FOR END-TO-END TRANSFER

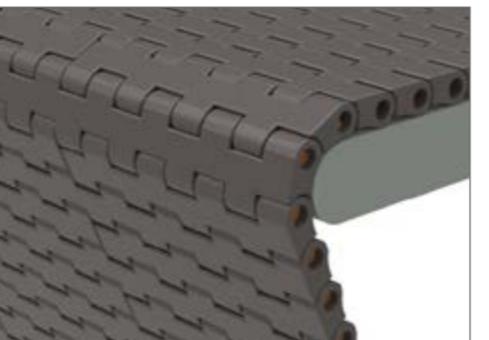
As a complement to its ½" pitch modular belts, Regina proposes a complete range of accessories:

- Nose over transfer components, including nose over bars and an 8T sprocket, allowing for the following:
  - Support products transfer from one conveyor to the next one.
  - Allow the belt to wrap around a small radius at the head of the conveyor, minimizing the deadplate width.
- Drive and idler sprockets.

### NOSE OVER BARS

Regina offers a complete range of nose over bars, static and dynamic, having the following technical and geometrical features:

- Edge curved contour with a radius that fits exactly the ½" pitch belts with round bottom surface.
- Modular design.
- Easily fittable to the conveyor structure with M8 flat head screws.
- Material: self-lubricated UHMWPE.
- Stainless steel rollers equipped with bearings (dynamic version)



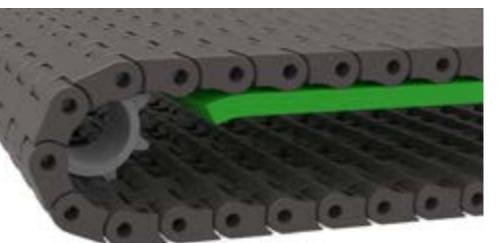
### KEY FEATURES AND BENEFITS

FEATURES	EFFECTS	BENEFITS
<ul style="list-style-type: none"> <li>● Nose curved contour.</li> <li>● Bar modular design</li> <li>● Stainless steel dynamic rollers.</li> </ul>	<ul style="list-style-type: none"> <li>● Contact surface maximization with the bottom of the belt.</li> <li>● Fitment of all possible belt widths allowing installation side by side of multiple bars.</li> <li>● Minimization of friction with the belt.</li> </ul>	<ul style="list-style-type: none"> <li>● Decreased wear of belt and nose bar.</li> <li>● Cost saving thanks to the elimination of custom manufacturing.</li> <li>● Wear life increased for belts and nose over bars.</li> </ul>

### 8T SPROCKET

Regina uniquely developed a small diameter 8T sprocket, having the following technical and geometrical features:

- Available both with and without incorporated key, to best suit shaft design.
- Material: machined polyamide.



### KEY FEATURES AND BENEFITS

FEATURES	EFFECTS	BENEFITS
<ul style="list-style-type: none"> <li>● Small radius sprocket engaging the belt.</li> </ul>	<ul style="list-style-type: none"> <li>● Elimination of the sliding friction with the belt.</li> </ul>	<ul style="list-style-type: none"> <li>● Noise and belt vibrations minimization.</li> </ul>

### DRIVE AND IDLER SPROCKETS

- Sprockets are available in moulded or machined version, solid or split, depending on the number of teeth.
- Material: moulded polyamide reinforced with glass fiber or machined polyamide.

# Matveyor® Modular Belts and Components for Nose Over Transfer

## ABSTRACT

### MATERIALS

		TYPE	DESCRIPTION	FEATURES
BELT MODULES	ACETAL RESIN	NEW Blue	Ecological Friction Abating Thermoplastic	Developed with DuPont™, it is the ultimate dry running Delrin® acetal resin compounded with specific lubricants for PET bottling applications, able to deliver a much lower and constant coefficient of friction and minimal elongation over time in dry running conditions vs. other plastic chains.
		Dark green	Special Delrin® Reinforced with Kevlar®	Delrin® acetal resin reinforced with Kevlar®, developed by Regina and DuPont™, able to reach the lowest coefficient of friction and maximum wear resistance. Thanks to the superior properties of the material, the usage of lubricants can be drastically reduced or even eliminated without loosing performance in conveyor applications
		Dark brown	Ultra Performance Homopolymer Delrin®	DuPont™ Delrin® Ultra Performance special homopolymer acetal resin. Particularly suitable for applications where low coefficient of friction and contained dusting are needed
	POLYPROPYLENE	Grey	Special Polypropylene	Special polypropylene that guarantees the best corrosion resistance to withstand chemical attack and an optimum high temperature resistance
		Light grey	Ultra Low Friction Polyester Resin	Polyester resin that offers good mechanical strength in combination with low coefficient of friction
	RUBBER	Green	Thermoplastic Rubber	Special thermoplastic rubber with hardness of 50 ShA (green colour) and 55 ShA (dark grey colour) and optimum wear resistance, that guarantees exceptional product grip in inclined/declined conveyors extending life without loosing elasticity.
		Dark grey		
SPROCKETS	STATIC NOSE BAR	Light grey	Self-lubricating Ultra High Molecular Weight Polyethylene	Special UHMWPE material combined with advanced lubricant, allowing an optimum wear resistance, excellent gliding properties and noise reduction
		Black	Polyamide	Machined polyamide that guarantees tough combined with wear and abrasion resistance
	POLYAMIDE	Black	Reinforced Polyamide	Moulded polyamide reinforced with glass fiber allowing higher strength and excellent abrasion resistance
		Grey	Polypropylene	Standard pin material for DK², UP and PP belts suitable for normal speed applications
	POLYESTER	White	Polyester	Suitable for high speed applications with short center to center distance (high number of chain cycles) where superior wear resistance is required. Recommended for all nose over applications with DK², UP or PP belts to extend chain life
PINS	ACETAL RESIN	Black	Acetal resin	Standard pin material for ULF belts only. Guarantees maximum belt elongation resistance in high speed applications with short center to center distance



# Matveyor® Modular Belts and Components for Nose Over Transfer

## PRODUCT SELECTION

### HOW TO CHOOSE 1/2" PITCH SOLID TOP BELTS WITH OR WITHOUT CURVED BOTTOM CONTOUR

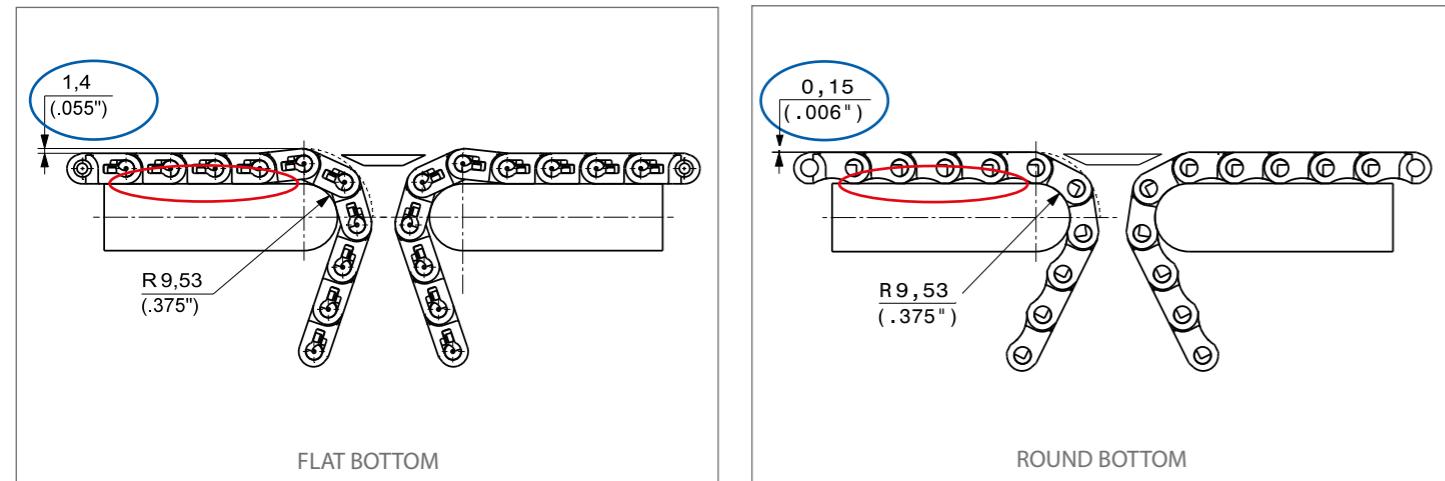
Regina offers the most complete range of 1/2" pitch belts available on the market, all 8,7 mm thick, with the following technical and geometrical features:

- Top surface: solid, rubberized and flush grid.
- Bottom surface: flat (available for metric widths standard only) or round.
- Width standards: metric (85 mm width increments) or imperial (3" width increments).
- Tracking guide: belts available with or without tracking guide, depending on the series.

A critical aspect of choosing a Regina solid top 1/2" pitch belt is to identify the best belt bottom contour suitable for the application (please refer to Exhibit 2). In particular:

- The round bottom design dramatically reduces the chordal effect when the belt engages with the nose over bar:
  - Such reduction is as high as 89%, from 1,4 mm of the flat bottom surface to 0,15 mm of the round bottom surface.
- The flat bottom design guarantees a continuous contact between belt and wear strips.
  - Such contact allows for less specific pressure than round bottom design.

### EXHIBIT 2 - COMPARISON BETWEEN REGINA SOLID TOP 1/2" PITCH FLAT BOTTOM AND ROUND BOTTOM DESIGN



As a consequence:

- Round bottom surface design accomplishes greater product stability during end-to-end transfer.
- Flat bottom surface design minimizes belt wear.

### HEAD TRANSFER COMPONENTS: HOW TO CHOOSE A STATIC NOSE OVER BAR OR AN 8T SPROCKET

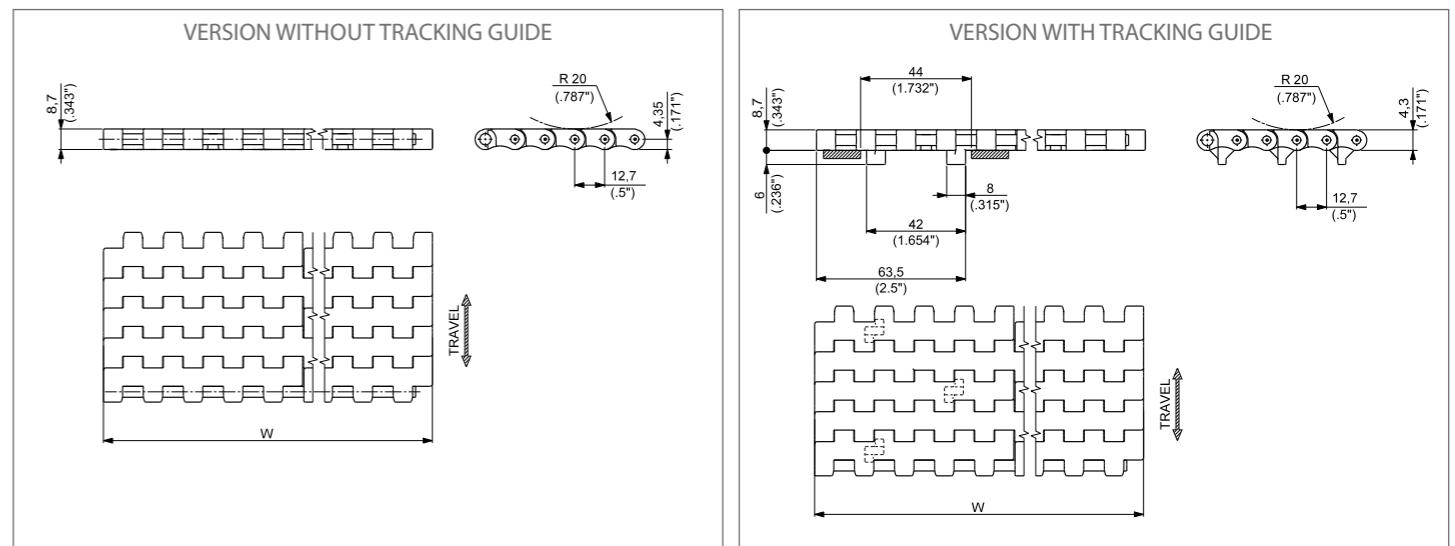
- A modular nose over bar is the simplest solution for end-to-end transfer, allowing for easy and fast installation on the conveyor structure.
- 8T sprockets are recommended on high speed applications where noises and vibrations have to be reduced at a minimum.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 610 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top	
The belt offers a completely closed top surface design for an excellent product support without tipping. The round bottom surface combined to the reduced pitch (1/2") provides the minimum chordal effect for an optimum head transfer of products. Particularly suitable for conveyors where a head transfer of products is required.	
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>UP</b> and <b>DK<sup>2</sup></b> materials 10000 N/m (685 lbs/ft) for <b>PP</b> material
Belt width:	85 mm (3.346") or wider in 85 mm increments
Belt weight:	9,55 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>UP</b> and <b>DK<sup>2</sup></b> materials 6,46 kg/m <sup>2</sup> (1.32 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W	MODULE						PIN	
	Ultra Performance Homopolymer Delrin® <b>UP</b>		Special Delrin® Reinforced with Kevlar® <b>DK<sup>2</sup></b>		Special Polypropylene* <b>PP</b>			
	PART NUMBER		PART NUMBER		PART NUMBER			
mm	inch	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide	
85	3.346	610AUP0085	610AGUP0085	610AD2K0085	610AGD2K0085	610APP0085	610AGPP0085	
170	6.693	610BUP0170	610BG1UP0170	610BD2K0170	610BG1D2K0170	610BPP0170	610BG1PP0170	
255	10.039	610BUP0255	610BG1UP0255	610BD2K0255	610BG1D2K0255	610BPP0255	610BG1PP0255	
340	13.386	610BUP0340	610BG1UP0340	610BD2K0340	610BG1D2K0340	610BPP0340	610BG1PP0340	
425	16.732	610BUP0425	610BG1UP0425	610BD2K0425	610BG1D2K0425	610BPP0425	610BG1PP0425	
510	20.079	610BUP0510	610BG1UP0510	610BD2K0510	610BG1D2K0510	610BPP0510	610BG1PP0510	
595	23.425	610BUP0595	610BG1UP0595	610BD2K0595	610BG1D2K0595	610BPP0595	610BG1PP0595	
680	26.772	610BUP0680	610BG1UP0680	610BD2K0680	610BG1D2K0680	610BPP0680	610BG1PP0680	
765	30.118	610BUP0765	610BG1UP0765	610BD2K0765	610BG1D2K0765	610BPP0765	610BG1PP0765	
850	33.465	610BUP0850	610BG1UP0850	610BD2K0850	610BG1D2K0850	610BPP0850	610BG1PP0850	
935	36.811	610BUP0935	610BG1UP0935	610BD2K0935	610BG1D2K0935	610BPP0935	610BG1PP0935	
1020	40.157	610BUP1020	610BG1UP1020	610BD2K1020	610BG1D2K1020	610BPP1020	610BG1PP1020	

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.

To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.

Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN for UP material is "610BUP1105".

POLYPROPYLENE  
(PBT on request)

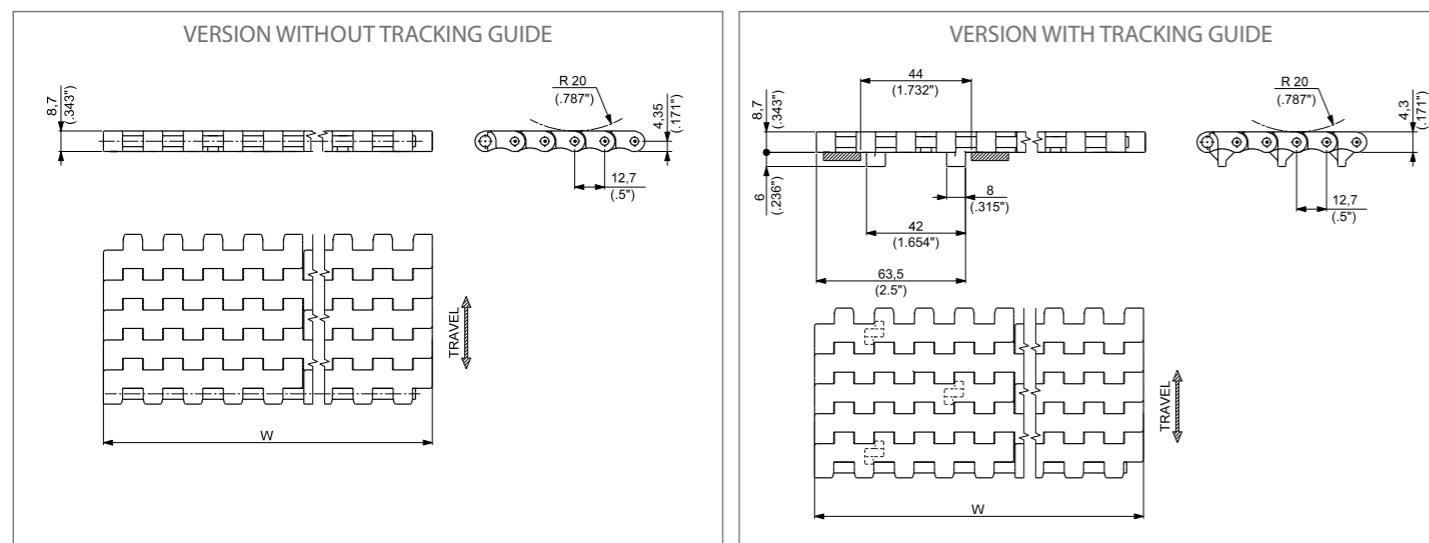
Standard packaging:  
Belts widths ≤ 680 mm (26.77") are supplied in rolls of 3,048 m (10 ft) each.  
Belts widths ≥ 765 mm (30.12") are supplied at the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 610 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top	
The belt offers a completely closed top surface design for an excellent product support without tipping. The round bottom surface combined to the reduced pitch (1/2") provides the minimum chordal effect for an optimum head transfer of products. Particularly suitable for conveyors where a head transfer of products is required.	
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>e-FAST™</b> material
Belt width:	85 mm (3.346") or wider in 85 mm increments
Belt weight:	9,55 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>e-FAST™</b> material



WIDTH W		MATERIALS			
		MODULE		PIN	
		NEW Ecological Friction Abating Thermoplastic <b>e-FAST™</b>			
mm	inch	Without tracking guide	With tracking guide	PBT	
85	3.346	610AEF0085	610AGEF0085		
170	6.693	610AEF0170	610AG1EF0170		
255	10.039	610AEF0255	610AG1EF0255		
340	13.386	610AEF0340	610AG1EF0340		
425	16.732	610AEF0425	610AG1EF0425		
510	20.079	610AEF0510	610AG1EF0510		
595	23.425	610AEF0595	610AG1EF0595		
680	26.772	610AEF0680	610AG1EF0680		
765	30.118	610AEF0765	610AG1EF0765		
850	33.465	610AEF0850	610AG1EF0850		
935	36.811	610AEF0935	610AG1EF0935		
1020	40.157	610AEF1020	610AG1EF1020		

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.

To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.  
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN is "610AEF1105".

Standard packaging:

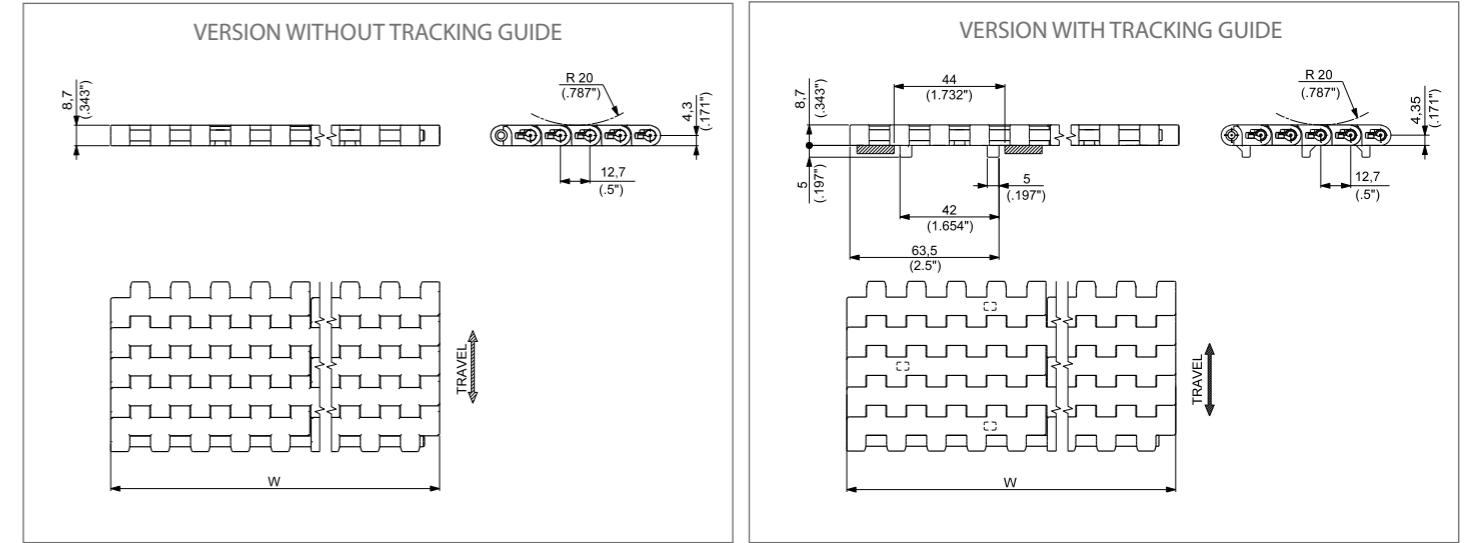
Belt widths ≤ 680 mm (26.77") are supplied in rolls of 3,048 m (10 ft) each.  
Belt widths ≥ 765 mm (30.12") are supplied at the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 600 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top	
This belt offers a smooth and completely closed surface to provide excellent support and minimize product tipping. Particularly suitable for conveyors where head transfer of products is required.	
Belt width:	85 mm (3.346") or wider in 85 mm increments
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>UP</b> and <b>DK2™</b> materials 10000 N/m (685 lbs/ft) for <b>PP</b> material
Belt weight:	9,55 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>UP</b> and <b>DK2™</b> materials 6,46 kg/m <sup>2</sup> (1.32 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W		MATERIALS			
		MODULE		PIN	
		Ultra Performance Homopolymer Delrin® <b>UP</b>		Special Delrin® Reinforced with Kevlar® <b>DK2™</b>	
mm	inch	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide
85	3.346	600AUP0085	600AGUP0085	600AD2K0085	600AGD2K0085
170	6.693	600BUP0170	600BG1UP0170	600BD2K0170	600BG1PP0170
255	10.039	600BUP0255	600BG1UP0255	600BD2K0255	600BG1PP0255
340	13.386	600BUP0340	600BG1UP0340	600BD2K0340	600BG1PP0340
425	16.732	600BUP0425	600BG1UP0425	600BD2K0425	600BG1PP0425
510	20.079	600BUP0510	600BG1UP0510	600BD2K0510	600BG1PP0510
595	23.425	600BUP0595	600BG1UP0595	600BD2K0595	600BG1PP0595
680	26.772	600BUP0680	600BG1UP0680	600BD2K0680	600BG1PP0680
765	30.118	600BUP0765	600BG1UP0765	600BD2K0765	600BG1PP0765
850	33.465	600BUP0850	600BG1UP0850	600BD2K0850	600BG1PP0850
935	36.811	600BUP0935	600BG1UP0935	600BD2K0935	600BG1PP0935
1020	40.157	600BUP1020	600BG1UP1020	600BD2K1020	600BG1PP1020

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.  
To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.  
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN is "600BUP1105".

Standard packaging:

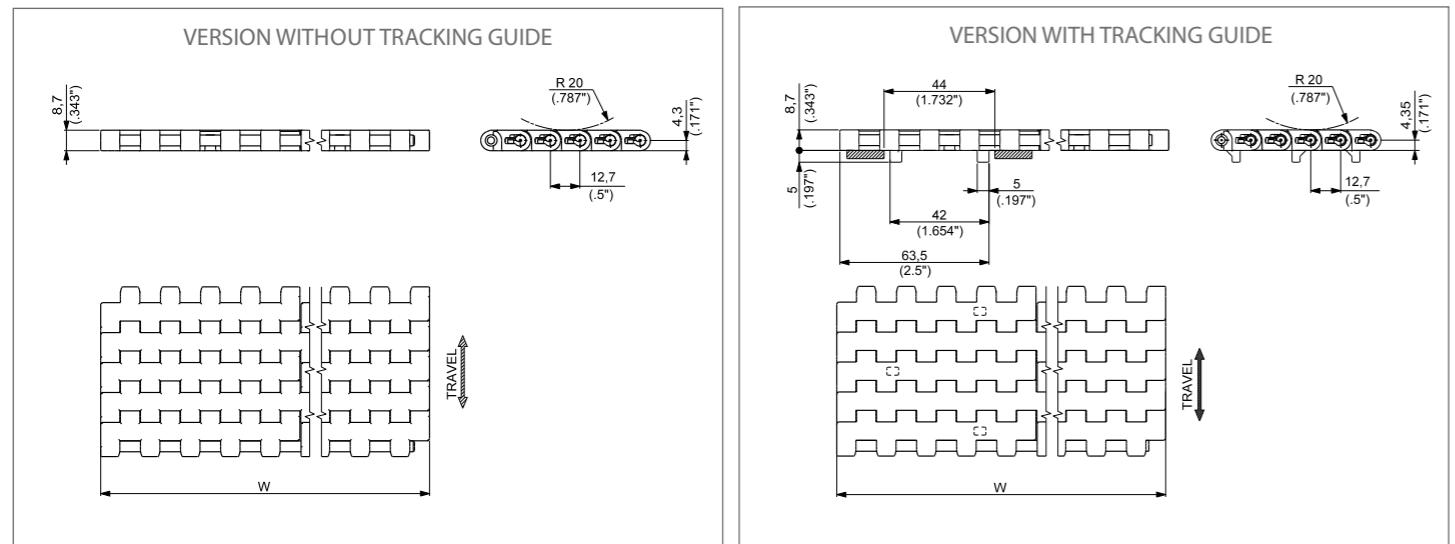
Belt widths ≤ 680 mm (26.77") are supplied in rolls of 3,048 m (10 ft) each.  
Belt widths ≥ 765 mm (30.12") are supplied at the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 600 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top	
This belt offers a smooth and completely closed surface to provide excellent support and minimize product tipping. Particularly suitable for conveyors where head transfer of products is required.	
Belt width:	85 mm (3.346") or wider in 85 mm increments
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>e-F.A.S.T.™</b> material
Belt weight:	9,55 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>e-F.A.S.T.™</b> material



WIDTH W		MATERIALS		PIN	
		MODULE			
		NEW Ecological Friction Abating Thermoplastic <b>e-F.A.S.T.™</b>			
PART NUMBER				PBT	
mm	inch	Without tracking guide	With tracking guide		
85	3.346	600AEF0085	600AGEF0085		
170	6.693	600AEF0170	600AG1EF0170		
255	10.039	600AEF0255	600AG1EF0255		
340	13.386	600AEF0340	600AG1EF0340		
425	16.732	600AEF0425	600AG1EF0425		
510	20.079	600AEF0510	600AG1EF0510		
595	23.425	600AEF0595	600AG1EF0595		
680	26.772	600AEF0680	600AG1EF0680		
765	30.118	600AEF0765	600AG1EF0765		
850	33.465	600AEF0850	600AG1EF0850		
935	36.811	600AEF0935	600AG1EF0935		
1020	40.157	600AEF1020	600AG1EF1020		

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.  
To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.  
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN is "600AEF1105".

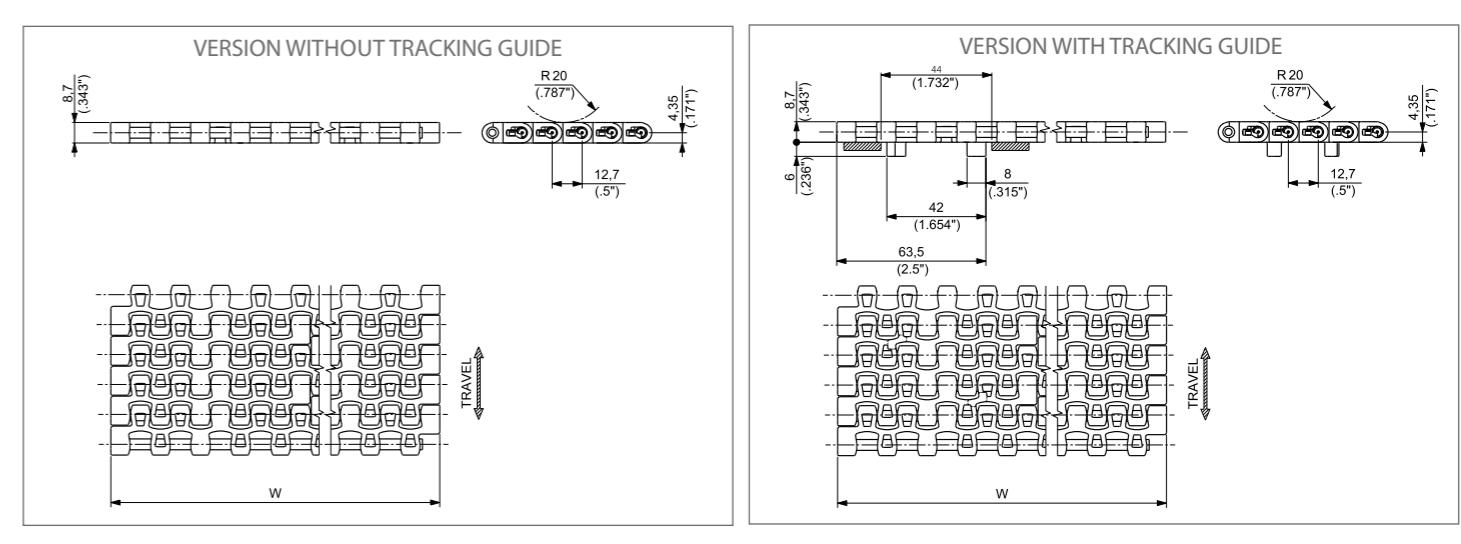
Standard packaging:  
Belt widths ≤ 680 mm (26.77") are supplied in rolls of 3,048 m (10 ft) each.  
Belt widths ≥ 765 mm (30.12") are supplied at the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 500 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Flush grid	
Excellent combination of support and open area (21%). Optimum drainage of liquids and good support of the conveyed products. Particularly suitable for conveyors where the head transfer of products is required.	
Belt width:	85 mm (3.346") or wider in 85 mm increments
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>UP</b> material 10000 N/m (685 lbs/ft) for <b>PP</b> material
Belt weight:	7,06 kg/m <sup>2</sup> (1.45 lbs/ft <sup>2</sup> ) for <b>UP</b> material 4,76 kg/m <sup>2</sup> (0.97 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W	MATERIALS		PIN			
	MODULE					
	Ultra Performance Homopolymer <b>Delrin® UP</b>	Special Polypropylene* <b>PP</b>				
PART NUMBER		PART NUMBER				
mm	inch	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide	PIN
85	3.346	500AUP0085	500AGUP0085	500APP0085	500AGPP0085	PBT
170	6.693	500BUP0170	500BG1UP0170	500BPP0170	500BG1PP0170	
255	10.039	500BUP0255	500BG1UP0255	500BPP0255	500BG1PP0255	
340	13.386	500BUP0340	500BG1UP0340	500BPP0340	500BG1PP0340	
425	16.732	500BUP0425	500BG1UP0425	500BPP0425	500BG1PP0425	
510	20.079	500BUP0510	500BG1UP0510	500BPP0510	500BG1PP0510	
595	23.425	500BUP0595	500BG1UP0595	500BPP0595	500BG1PP0595	
680	26.772	500BUP0680	500BG1UP0680	500BPP0680	500BG1PP0680	
765	30.118	500BUP0765	500BG1UP0765	500BPP0765	500BG1PP0765	
850	33.465	500BUP0850	500BG1UP0850	500BPP0850	500BG1PP0850	
935	36.811	500BUP0935	500BG1UP0935	500BPP0935	500BG1PP0935	
1020	40.157	500BUP1020	500BG1UP1020	500BPP1020	500BG1PP1020	

\* ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.  
To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.  
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN is "500BUP1105".

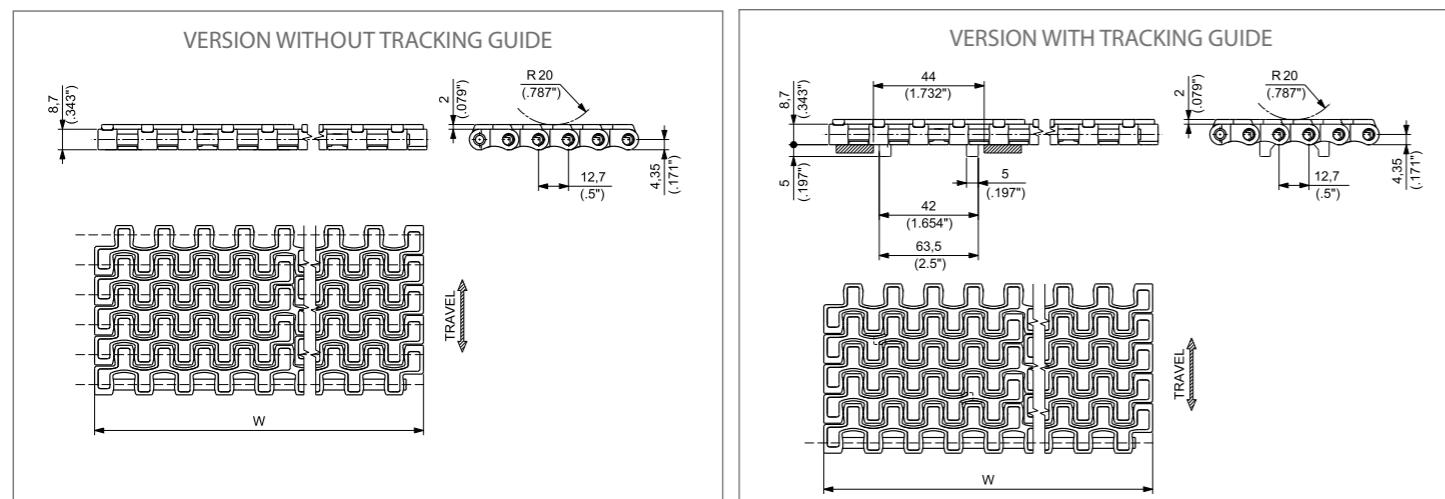
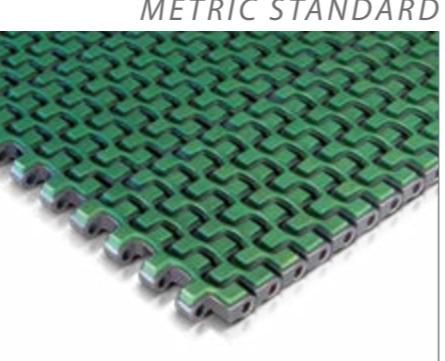
Standard packaging:  
Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.  
Belts wider than 765 mm (30.12") are supplied at the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## HF 510 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Rubberized surface	
Belt designed for handling packed containers like boxes, multi packs and cases in packaging lines. It is the optimal solution for high speed stop belts, metering belts, etc. The rubberized area is maximized, both in the transversal and longitudinal direction, reducing gaps between the rubber pads.	
Belt width:	85 mm (3.346") or wider in 85 mm increments
Working load: (at 25°/77°F)	10000 N/m (685 lbs/ft) for <b>ULF</b> and <b>PP</b> materials
Belt weight:	9,14 kg/m <sup>2</sup> (1.87 lbs/ft <sup>2</sup> ) for <b>ULF</b> material 7,47 kg/m <sup>2</sup> (1.53 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W		MATERIALS			
		MODULE		RUBBER	PIN
		Ultra Low Friction Polyester Resin <b>ULF</b>	Special Polypropylene* <b>PP</b>		
mm	inch	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide
85	3.346	HF510ULF0085	HF510GULF0085	HF510APP0085	HF510AGPP0085
170	6.693	HF510ULF0170	HF510G1ULF0170	HF510APP0170	HF510AG1PP0170
255	10.039	HF510ULF0255	HF510G1ULF0255	HF510APP0255	HF510AG1PP0255
340	13.386	HF510ULF0340	HF510G1ULF0340	HF510APP0340	HF510AG1PP0340
425	16.732	HF510ULF0425	HF510G1ULF0425	HF510APP0425	HF510AG1PP0425
510	20.079	HF510ULF0510	HF510G1ULF0510	HF510APP0510	HF510AG1PP0510
595	23.425	HF510ULF0595	HF510G1ULF0595	HF510APP0595	HF510AG1PP0595
680	26.772	HF510ULF0680	HF510G1ULF0680	HF510APP0680	HF510AG1PP0680
765	30.118	HF510ULF0765	HF510G1ULF0765	HF510APP0765	HF510AG1PP0765
850	33.465	HF510ULF0850	HF510G1ULF0850	HF510APP0850	HF510AG1PP0850
935	36.811	HF510ULF0935	HF510G1ULF0935	HF510APP0935	HF510AG1PP0935
1020	40.157	HF510ULF1020	HF510G1ULF1020	HF510APP1020	HF510AG1PP1020

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.

To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.

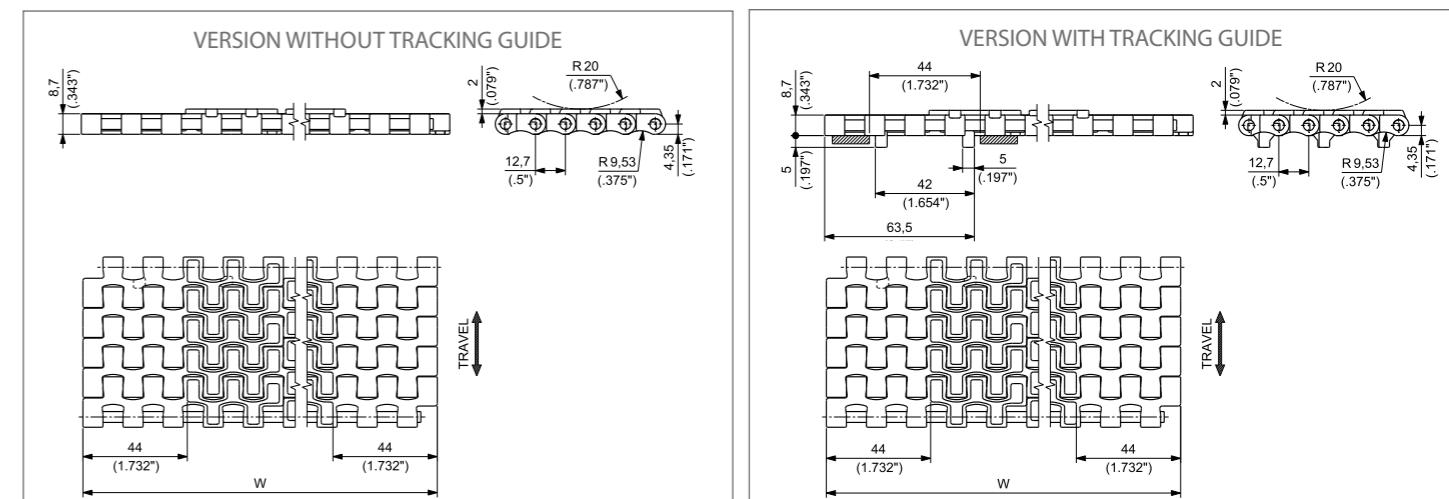
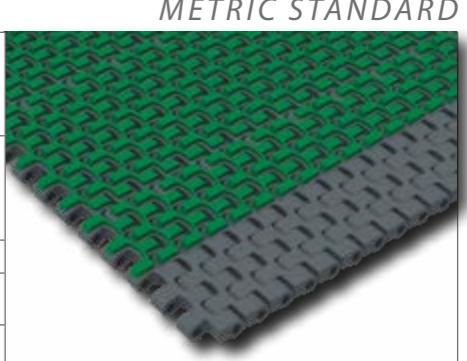
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN for ULF material is "HF510ULF1105".

Standard packaging:  
Belt widths ≤ 170 mm (6.63") are supplied in rolls of 3,048 m (10 ft) each.  
Belt widths ≥ 255 mm (10.04") and ≤ 425 mm (16.73") are supplied in rolls of 1,524 m (5 ft) each.  
Belt widths ≥ 510 mm (20.08") are supplied in the length requested by the customer.

# Matveyor® Modular Belts and Components for Nose Over Transfer

## HFS 510 SERIES NEW

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Rubberized surface - Side indent	
The belt is specifically designed for handling shrink wrapped packs, boxes, plastic trays and other types of containers in incline, decline or timing applications.	
Belt width:	255 mm (10.04") or wider in 85 mm increments
Working load: (at 25°/77°F)	10000 N/m (685 lbs/ft) for <b>ULF</b> and <b>PP</b> materials
Belt weight:	9,14 kg/m <sup>2</sup> (1.87 lbs/ft <sup>2</sup> ) for <b>ULF</b> material 7,47 kg/m <sup>2</sup> (1.53 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W		MATERIALS			
		MODULE		RUBBER	PIN
		Ultra Low Friction Polyester Resin <b>ULF</b>	Special Polypropylene* <b>PP</b>		
mm	inch	Without tracking guide	With tracking guide	Without tracking guide	With tracking guide
255	10.039	HFS510ULF0255	HFS510G1ULF0255	HFS510APP0255	HFS510AG1PP0255
340	13.386	HFS510ULF0340	HFS510G1ULF0340	HFS510APP0340	HFS510AG1PP0340
425	16.732	HFS510ULF0425	HFS510G1ULF0425	HFS510APP0425	HFS510AG1PP0425
510	20.079	HFS510ULF0510	HFS510G1ULF0510	HFS510APP0510	HFS510AG1PP0510
595	23.425	HFS510ULF0595	HFS510G1ULF0595	HFS510APP0595	HFS510AG1PP0595
680	26.772	HFS510ULF0680	HFS510G1ULF0680	HFS510APP0680	HFS510AG1PP0680
765	30.118	HFS510ULF0765	HFS510G1ULF0765	HFS510APP0765	HFS510AG1PP0765
850	33.465	HFS510ULF0850	HFS510G1ULF0850	HFS510APP0850	HFS510AG1PP0850
935	36.811	HFS510ULF0935	HFS510G1ULF0935	HFS510APP0935	HFS510AG1PP0935
1020	40.157	HFS510ULF1020	HFS510G1ULF1020	HFS510APP1020	HFS510AG1PP1020

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.

To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.

Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN for ULF material is "HFS510ULF1105".

Standard packaging:

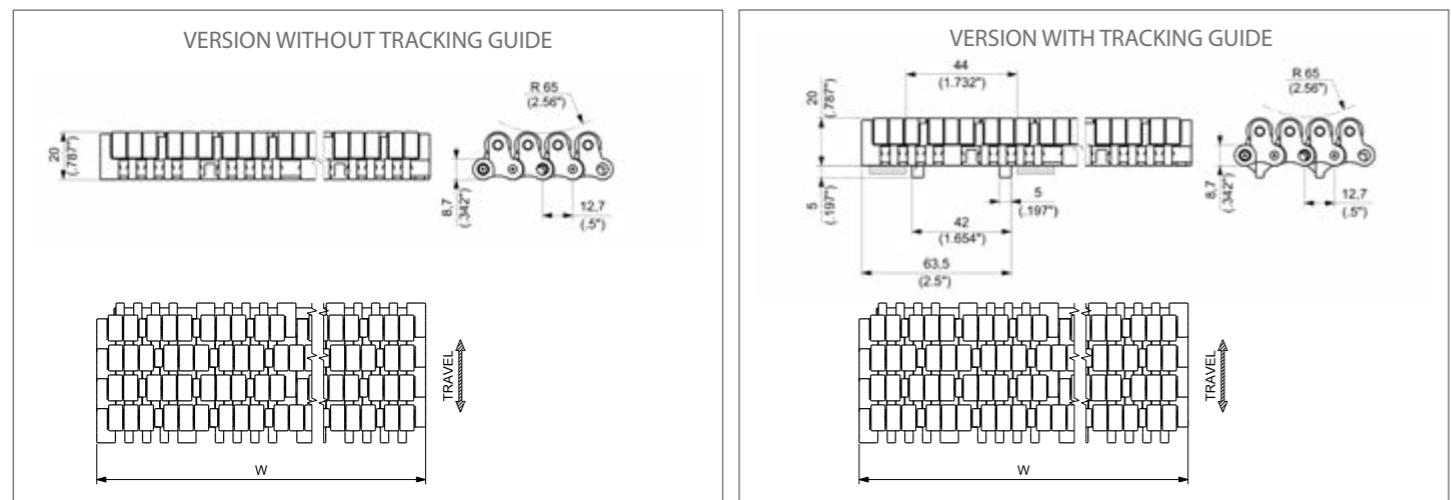
Belt widths ≤ 1020 mm (40.16") are supplied in rolls of 3,048 m (10 ft) each.  
Belt widths ≥ 1105 mm (43.50") are supplied in the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## LBP 610 SERIES

METRIC STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness LBP Rollers	
Designed for accumulating applications where efficient nose-over transfer is required. The round bottom surface, combined with the 1/2" pitch, provides the minimum chordal effect minimizing dead plates.	
Belt width:	85 mm (3.346") or wider in 85 mm increments
Working load: (at 25°/77°F)	27000 N/m (1,850 lbs/ft)
Belt weight:	18,3 kg/m <sup>2</sup> (3.75 lbs/ft <sup>2</sup> )



WIDTH W		MATERIALS		PIN	
		MODULE AND ROLLER			
		Ultra Performance Homopolymer Delrin® <b>UP</b>			
mm	inch	Without tracking guide	With tracking guide	PBT	
85	3.346	LBP610AUP0085	LBP610AGUP0085		
170	6.693	LBP610AUP0170	LBP610AG1UP0170		
255	10.039	LBP610AUP0255	LBP610AG1UP0255		
340	13.386	LBP610AUP0340	LBP610AG1UP0340		
425	16.732	LBP610AUP0425	LBP610AG1UP0425		
510	20.079	LBP610AUP0510	LBP610AG1UP0510		
595	23.425	LBP610AUP0595	LBP610AG1UP0595		
680	26.772	LBP610AUP0680	LBP610AG1UP0680		
765	30.118	LBP610AUP0765	LBP610AG1UP0765		
850	33.465	LBP610AUP0850	LBP610AG1UP0850		
935	36.811	LBP610AUP0935	LBP610AG1UP0935		
1020	40.157	LBP610AUP1020	LBP610AG1UP1020		

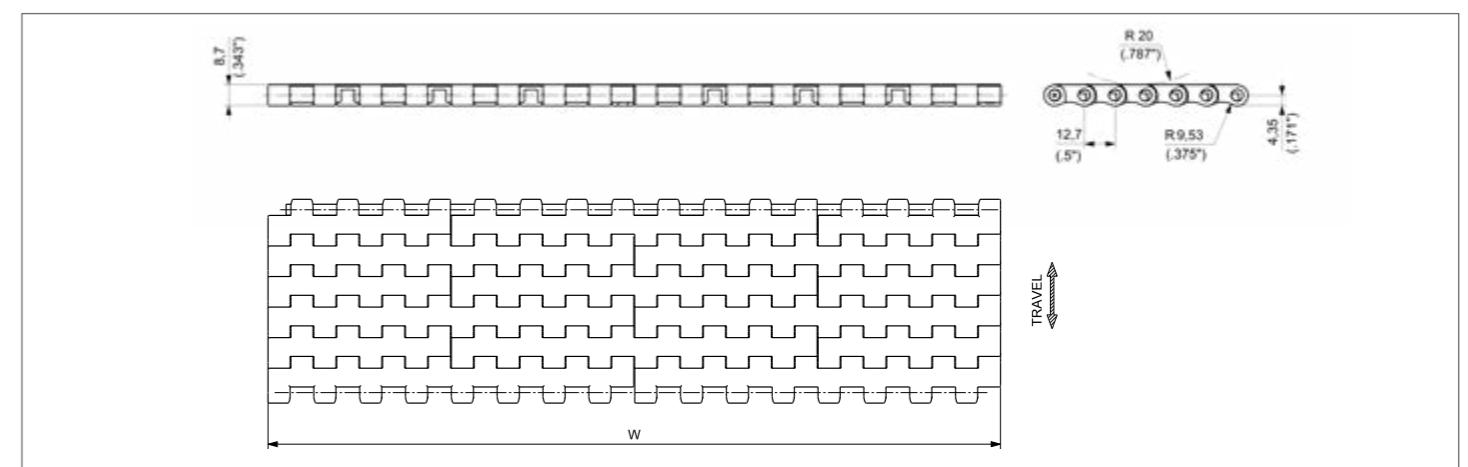
Belts wider than 1020 mm (40.16") are available in 85 mm (3.35") increments.  
To identify the Part Numbers, please substitute the last four digits of the PN with the desired width.  
Example: for a 1105 mm wide belt (=1020+85 mm) without guide, the PN is "LBP610AUP1105".



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 300 SERIES

IMPERIAL STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top	
Belt width:	114,3 mm (4 1/2"), 76,2 mm (3") or wider in 3" increments
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>UP</b> and <b>DK2</b> materials 10000 N/m (685 lbs/ft) for <b>PP</b> material
Belt weight:	9,52 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>UP</b> and <b>DK2</b> materials 6,55 kg/m <sup>2</sup> (1.34 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W	MATERIALS			PIN	
	MODULE				
	Ultra Performance Homopolymer Delrin® <b>UP</b>	Special Delrin® Reinforced with Kevlar® <b>DK2</b>	Polypropylene* <b>PP</b>		
mm	inch	PART NUMBER	PART NUMBER	PART NUMBER	
114,3	4.5	300AUPKG/000	300AD2KKG/000	300APPKG/000	
76,2	3	300BUP003	300BD2K003	300BPP003	
152,4	6	300BUP006	300BD2K006	300BPP006	
228,6	9	300BUP009	300BD2K009	300BPP009	
304,8	12	300BUP012	300BD2K012	300BPP012	
381,0	15	300BUP015	300BD2K015	300BPP015	
457,2	18	300BUP018	300BD2K018	300BPP018	
533,4	21	300BUP021	300BD2K021	300BPP021	
609,6	24	300BUP024	300BD2K024	300BPP024	
685,8	27	300BUP027	300BD2K027	300BPP027	
762,0	30	300BUP030	300BD2K030	300BPP030	
838,2	33	300BUP033	300BD2K033	300BPP033	
914,4	36	300BUP036	300BD2K036	300BPP036	
990,6	39	300BUP039	300BD2K039	300BPP039	

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 990,6 mm (39") are available in 76,2 (3") increments.

To identify the Part Numbers, please substitute the last three digits of the PN with the desired width.

Example: for a 42" wide belt (=39+3 inches), the PN for UP material is "300BUP042".

POLYPROPYLENE  
(PBT on request)

Standard packaging:

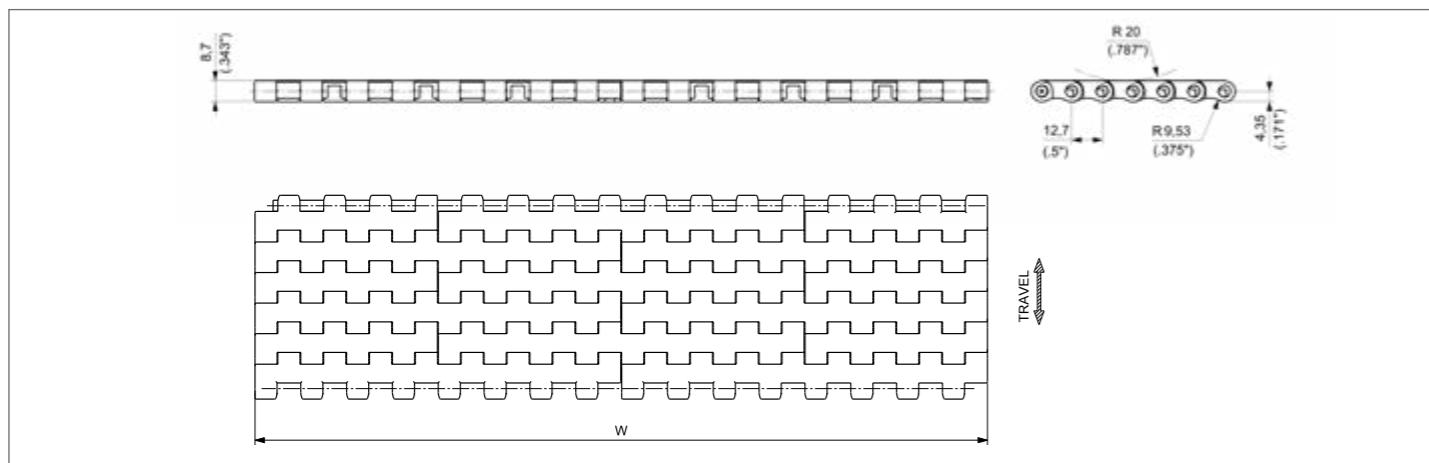
114,3 mm (4.5") wide belt is supplied in rolls of 3,048 m (10ft) each.  
Other belt widths are supplied in the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 300 SERIES

1/2" Modular Belts and chains 8,7 mm (0,343") thickness Solid top		
The belt offers completely closed top surface design providing excellent product support without tipping. The round bottom surface combined to the reduced pitch (1/2") provides the minimal chordal effect for an optimum head transfer of products.		
Belt width:	114,3 mm (4 1/2"), 76,2 mm (3") or wider in 3" increments	
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>e-FAST™</b> material	
Belt weight:	9,52 kg/m <sup>2</sup> (1.95 lbs/ft <sup>2</sup> ) for <b>e-FAST™</b> material	



WIDTH W	MATERIALS		PIN	
	MODULE			
	NEW Ecological Friction Abating Thermoplastic <b>e-FAST™</b>	PART NUMBER		
mm	inch			
114,3	4.5	300AEFKG/000	PBT	
76,2	3	300AEF003		
152,4	6	300AEF006		
228,6	9	300AEF009		
304,8	12	300AEF012		
381,0	15	300AEF015		
457,2	18	300AEF018		
533,4	21	300AEF021		
609,6	24	300AEF024		
685,8	27	300AEF027		
762,0	30	300AEF030		
838,2	33	300AEF033		
914,4	36	300AEF036		
990,6	39	300AEF039		

Belts wider than 990,6 mm (39") are available in 76,2 (3") increments.

To identify the Part Numbers, please substitute the last three digits of the PN with the desired width.

Example: for a 42" wide belt (=39+3 inches), the PN is "300AEF042".

 Standard packaging:

114,3 mm (4.5") wide belt is supplied in rolls of 3,048 m (10ft) each.

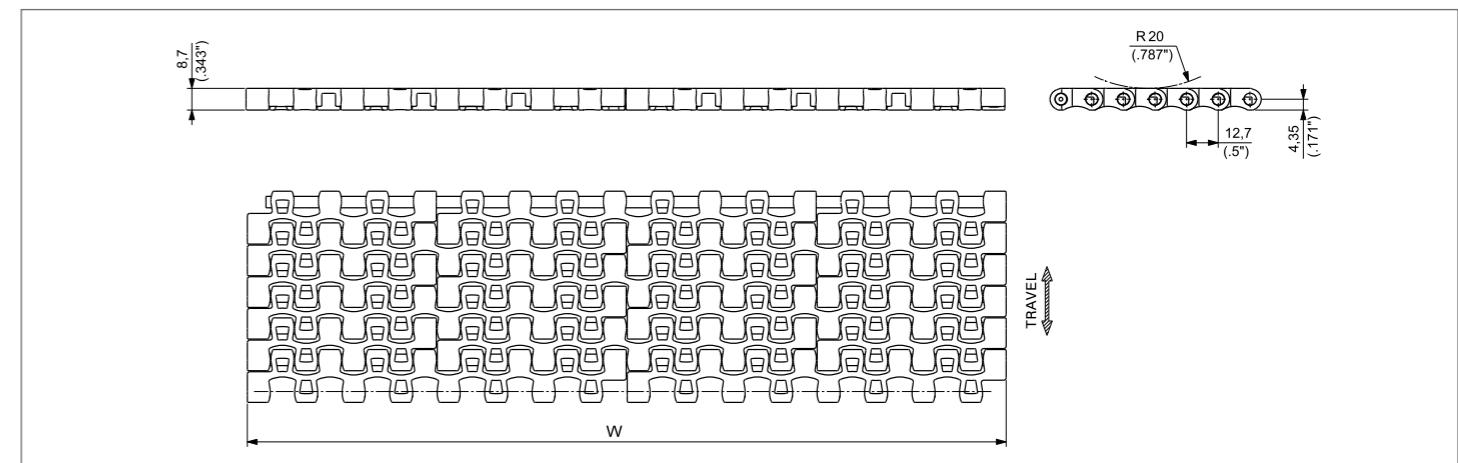
Other belt widths are supplied in the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## 200 SERIES

1/2" Modular Belts and chains 8,7 mm (0,343") thickness Flush grid		
The belt offers an excellent combination of support and open area for optimal liquid and air flow-through where frequent cleaning is required.		
Belt width:	76,2 mm (3") or wider in 3" increments	
Working load: (at 25°/77°F)	14000 N/m (960 lbs/ft) for <b>UP</b> material 10000 N/m (685 lbs/ft) for <b>PP</b> material	
Belt weight:	7,60 kg/m <sup>2</sup> (1.56 lbs/ft <sup>2</sup> ) for <b>UP</b> material 5,44 kg/m <sup>2</sup> (1.11 lbs/ft <sup>2</sup> ) for <b>PP</b> material	



WIDTH W	MATERIALS		PIN	
	MODULE			
	Ultra Performance Homopolymer <b>Delrin® UP</b>	Special Polypropylene* <b>PP</b>		
mm	inch	PART NUMBER	PART NUMBER	
76,2	3	200BUP003	200BPP003	
152,4	6	200BUP006	200BPP006	
228,6	9	200BUP009	200BPP009	
304,8	12	200BUP012	200BPP012	
381,0	15	200BUP015	200BPP015	
457,2	18	200BUP018	200BPP018	
533,4	21	200BUP021	200BPP021	
609,6	24	200BUP024	200BPP024	
685,8	27	200BUP027	200BPP027	
762,0	30	200BUP030	200BPP030	
838,2	33	200BUP033	200BPP033	
914,4	36	200BUP036	200BPP036	
990,6	39	200BUP039	200BPP039	

POLYPROPYLENE  
(PBT on request)

<sup>(\*)</sup> ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 990,6 mm (39") are available in 76,2 (3") increments.

To identify the Part Numbers, please substitute the last three digits of the PN with the desired width.

Example: for a 42" wide belt (=39+3 inches), the PN is "200BUP042".

 Standard packaging:

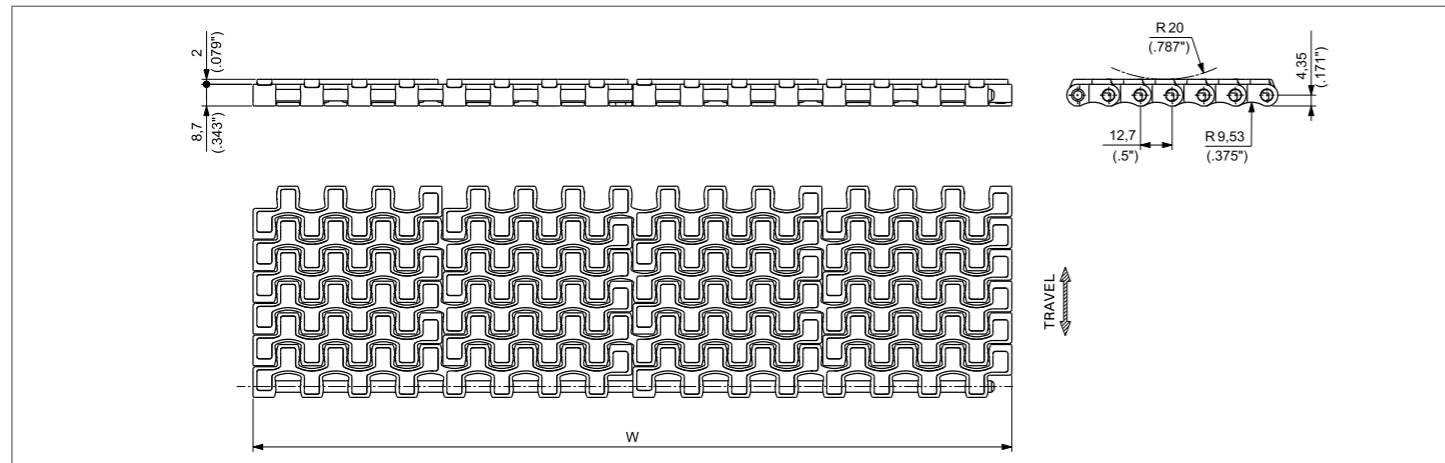
Belts are supplied in the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

HF 200

IMPERIAL STANDARD	
1/2" Modular Belts and chains 8,7 mm (0,343") thickness Rubberized surface	
Belt designed for handling packed containers like boxes, multi packs and cases in packaging lines. It is the optimal solution for high speed stop belts, metering belts, etc. The rubberized area is maximized, both in transversal and longitudinal direction, reducing gaps between the rubber pads.	
Belt width:	76,2 mm (3") or wider in 3" increments
Working load: (at 25°/77°F)	10000 N/m (685 lbs/ft) for <b>ULF</b> and <b>PP</b> materials
Belt weight:	8,86 kg/m <sup>2</sup> (1.81 lbs/ft <sup>2</sup> ) for <b>ULF</b> material 7,32 kg/m <sup>2</sup> (1.50 lbs/ft <sup>2</sup> ) for <b>PP</b> material



WIDTH W	MATERIALS			
	Module		RUBBER	PIN
	Ultra Low Friction Polyester Resin <b>ULF</b>	Special Polypropylene* <b>PP</b>		
mm	inch	PART NUMBER	PART NUMBER	
76,2	3	HF200ULF003	HF200APP003	
152,4	6	HF200ULF006	HF200APP006	
228,6	9	HF200ULF009	HF200APP009	
304,8	12	HF200ULF012	HF200APP012	
381,0	15	HF200ULF015	HF200APP015	
457,2	18	HF200ULF018	HF200APP018	
533,4	21	HF200ULF021	HF200APP021	
609,6	24	HF200ULF024	HF200APP024	
685,8	27	HF200ULF027	HF200APP027	
762,0	30	HF200ULF030	HF200APP030	
838,2	33	HF200ULF033	HF200APP033	
914,4	36	HF200ULF036	HF200APP036	
990,6	39	HF200ULF039	HF200APP039	

(\* ACTUAL WIDTH CAN BE UP TO 1% GREATER THAN NOMINAL WIDTH

Belts wider than 990,6 mm (39") are available in 76,2 (3") increments.

To identify the Part Numbers, please substitute the last three digits of the PN with the desired width.

Example: for a 42" wide belt (=39+3 inches), the PN for ULF material is "HF200ULF042".

Standard packaging:

Belts are supplied in the length requested by the customer.



# Matveyor® Modular Belts and Components for Nose Over Transfer

## ACCESSORIES FOR NOSE OVER TRANSFER

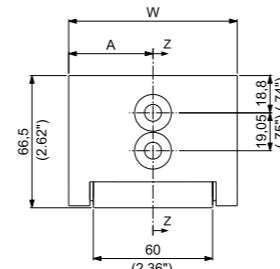
### DYNAMIC NOSE BAR **NEW**

MATERIALS	PLATE	UHMWPE with lubricant
	ROLLERS	Stainless steel

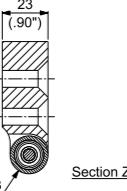
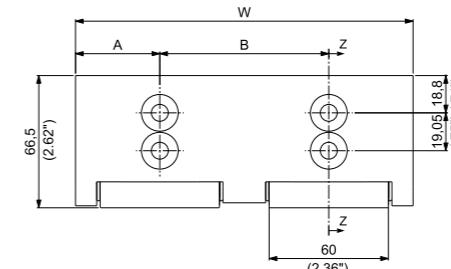
Nose bar uses M8 flat head screws (not included)



Widths W: 85 mm

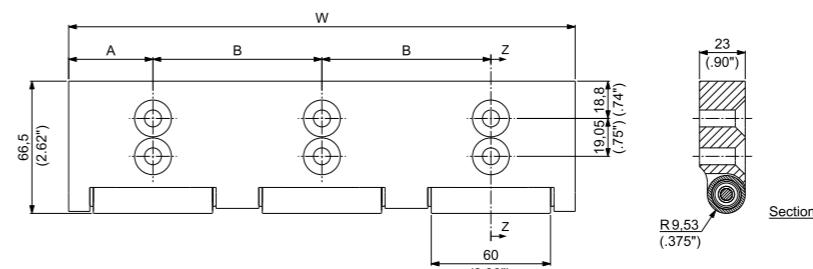


Widths W: 170 mm



Section Z-Z

Widths W: 255 mm



Section Z-Z

PART NUMBER	WIDTH W		A		B		WEIGHT		FOR BELTS SERIES
	mm	inch	mm	inch	mm	inch	kg	lbs	
CC000220	85,0	3.35	42,5	1.673	-	-	0,17	0.22	610/600 LBP 610 500 HF 510 HFS 510
CC000221	170,0	6.69	42,5	1.673	85	3.346	0,33	0.73	
CC000222	255,0	10.04	42,5	1.673	85	3.346	0,50	1.10	



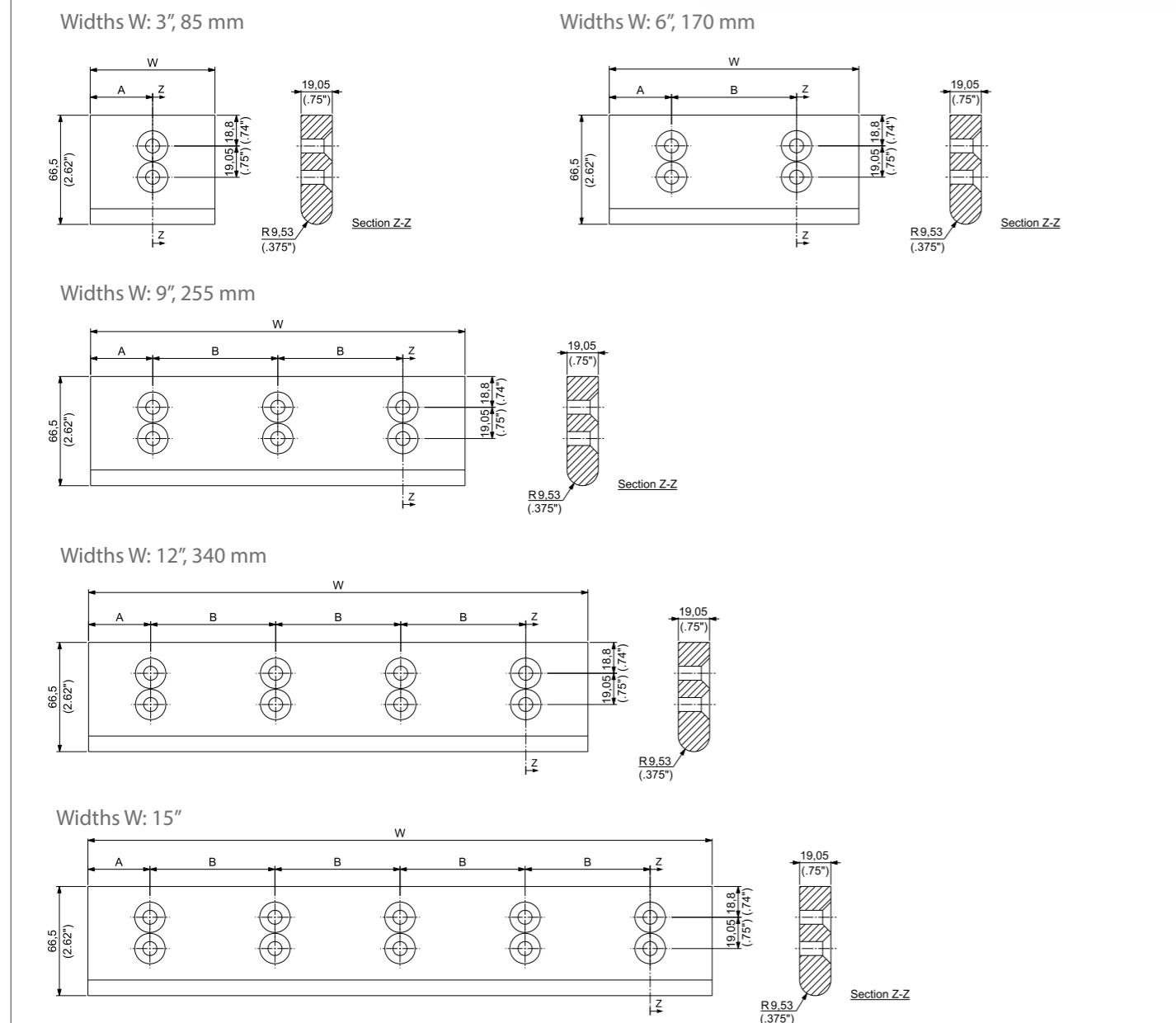
# Matveyor® Modular Belts and Components for Nose Over Transfer

## ACCESSORIES FOR NOSE OVER TRANSFER

### STATIC NOSE BAR

MATERIALS	SUPREME-L	Self-Lubricating UHMWPE
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Nose bar uses M8 flat head screws (not included)



PART NUMBER	WIDTH W		A		B		WEIGHT		FOR BELTS SERIES
	mm	inch	mm	inch	mm	inch	kg	lbs	
CC000206	85,0	3.35	42,5	1.673	-	-	0,10	0.22	610/600
CC000207	170,0	6.69	42,5	1.673	85	3.346	0,19	0.42	LBP 610
CC000208	255,0	10.04	42,5	1.673	85	3.346	0,29	0.63	500
CC000209	340,0	13.39	42,5	1.673	85	3.346	0,38	0.84	HF 510
CC000201	76,2	3	38,1	1.500	-	-	0,09	0.19	HFS 510
CC000202	152,4	6	38,1	1.500	76,2	3	0,17	0.37	300
CC000203	228,6	9	38,1	1.500	76,2	3	0,26	0.56	200
CC000204	304,8	12	38,1	1.500	76,2	3	0,34	0.75	HF 200
CC000205	381,0	15	38,1	1.500	76,2	3	0,43	0.94	

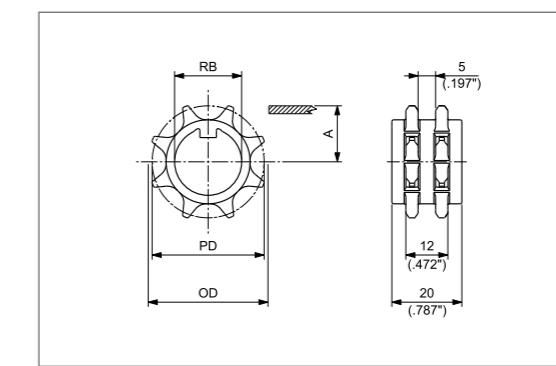
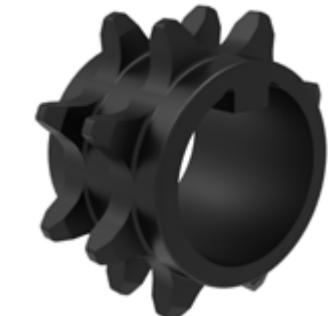


# Matveyor® Modular Belts and Components for Nose Over Transfer

## ACCESSORIES FOR NOSE OVER TRANSFER

### 8T SPROCKET

MATERIALS	PA	Polyamide
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NOTE: CANNOT WORK WITH 600 AND 500 SERIES.

### MACHINED SOLID DRIVE AND IDLER SPROCKETS

N. TEETH	PITCH DIAMETER PD		OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		BORE SIZE		PART NUMBER		WEIGHT
	mm	inch	mm	inch	mm	inch	mm	inch	DRIVE	IDLER	
8	33,19	1.307	34,20	1.364	12,25	0.482	20		MPBAT6000820	MPBAF6000820	0,01
							3/4		MPBAT60008190	MPBAF60008190	0,01

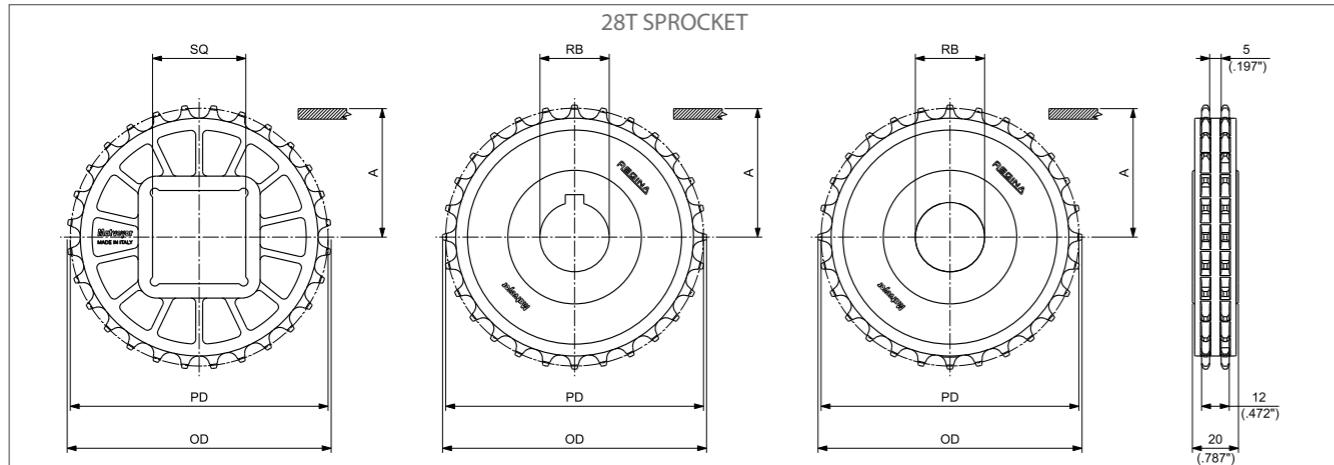
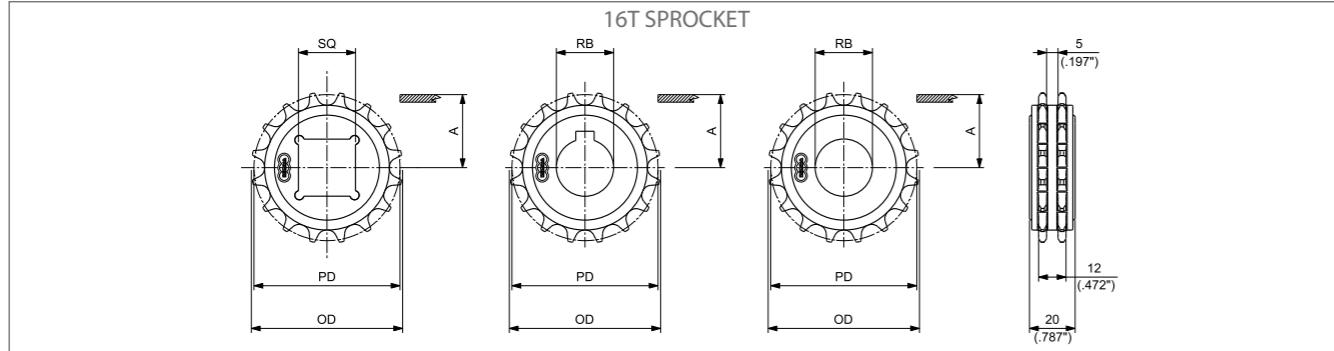


# Matveyor® Modular Belts and Components for Nose Over Transfer

## OTHER ACCESSORIES

### MOULDED SOLID SPROCKETS

MATERIALS	
Sprocket	PGF Reinforced Polyamide



### MOULDED SOLID DRIVE AND IDLER SPROCKETS

N. TEETH	PITCH DIAMETER PD		OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		PART NUMBER			WEIGHT		
							SQUARE BORE SQ		ROUND BORE RB			
	mm	inch	mm	inch	mm	inch	DRIVE/IDLER	DRIVE	IDLER	kg	lbs	
16	65,10	2.563	66,30	2.610	28,20	1.110	20		MPBT6001620	MPBF6001620	0,06	0,13
							25		MPBT6001625	MPBF6001625	0,05	0,12
							30		MPBT6001630	MPBF6001630	0,05	0,10
							1		MPBT60016254	MPBF60016254	0,05	0,12
							1 1/4		MPBT60016317	MPBF60016317	0,04	0,10
28	113,43	4.466	114,70	4.516	52,40	2.063	25		MPBF6002825	MPBF6002825	0,15	0,32
							30		MPBT6002830	MPBF6002830	0,14	0,31
							35		MPBT6002835	MPBF6002835	0,13	0,29
							40		MPBQ6002840	MPBT6002840	0,12	0,27
							60		MPBQ6002860		0,10	0,23
							1		MPBT6002854	MPBF6002854	0,15	0,32
							1 1/4		MPBT60028317	MPBF60028317	0,14	0,30
							1 1/2		MPBQ60028381	MPBT60028381	0,13	0,28

\*In case of round bore, diameter is indicated. In case of square bore, side of the square is indicated.

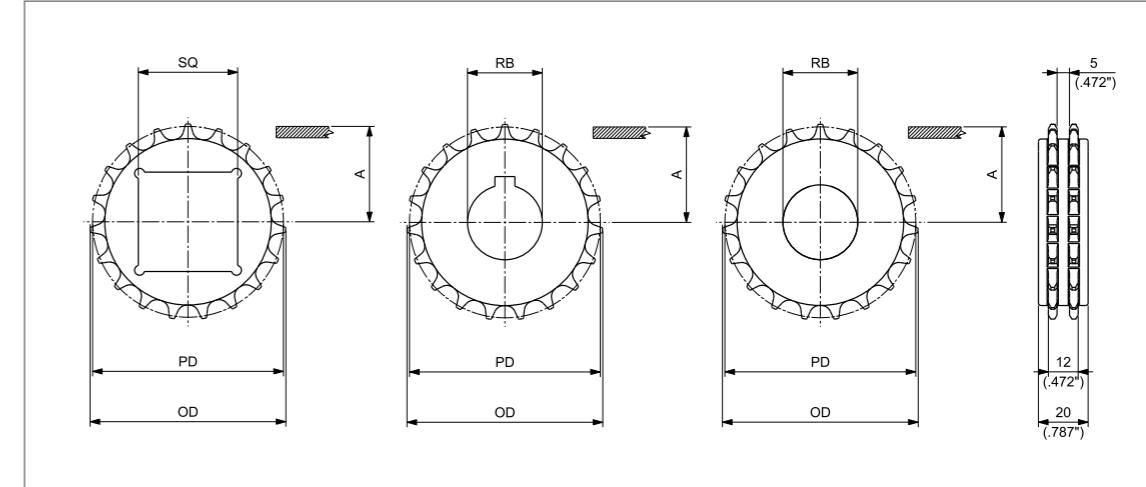


# Matveyor® Modular Belts and Components for Nose Over Transfer

## OTHER ACCESSORIES

### MACHINED SOLID SPROCKETS

MATERIALS	
Sprocket	PA Polyamide



### MACHINED SOLID DRIVE AND IDLER SPROCKETS

N. TEETH	PITCH DIAMETER PD		OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		BORE SIZE*		PART NUMBER		WEIGHT		
14	57,07	2.247	59,00	2.323	24,18	0,952	25		MPBAQ6001425	MPBAT6001425	MPBAF6001425	0,03	0,06
							1		MPBAT60014254	MPBAF60014254	MPBAT60014254	0,03	0,06
							25			MPBAT6001925	MPBAF6001925	0,07	0,16
							30			MPBAT6001930	MPBAF6001930	0,07	0,15
							35			MPBAT6001935	MPBAF6001935	0,06	0,13
							40		MPBAQ6001940	MPBAT6001940	MPBAF6001940	0,05	0,12
19	77,16	3.037	78,80	3.102	34,20	1.346	25			MPBAT60019254	MPBAF60019254	0,07	0,16
							30			MPBAT60019317	MPBAF60019317	0,07	0,14
							35			MPBAT60019381	MPBAF60019381	0,06	0,11
							40		MPBAQ6001940	MPBAT6001940	MPBAF6001940	0,05	0,12
							1		MPBAT60019254	MPBAF60019254	MPBAT60019254	0,07	0,16

\*In case of round bore, diameter is indicated. In case of square bore, side of the square is indicated.

\*\* Imperial round bore drive sprockets are supplied with setscrew. Metric round bore drive sprockets are supplied without setscrew.

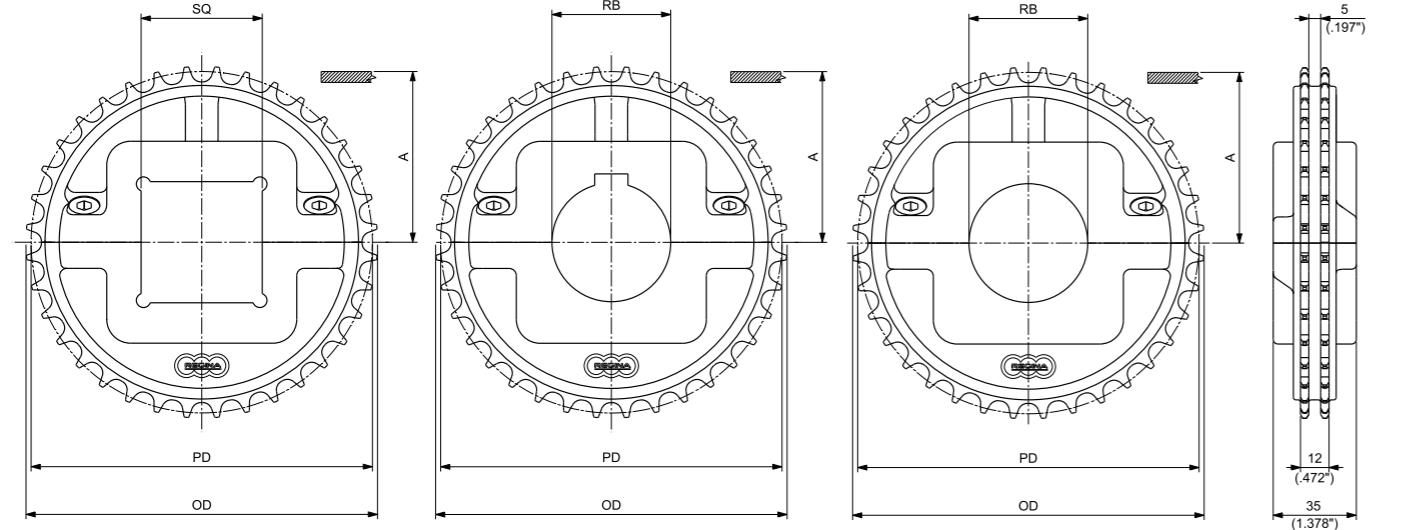


# Matveyor® Modular Belts and Components for Nose Over Transfer

## OTHER ACCESSORIES

### MOULDED SPLIT SPROCKETS

MATERIALS	
Sprocket	PGF Reinforced Polyamide
Screws	SS Stainless steel
Nuts	ZN Zinc Plated Steel



NOTE: FOR 28T SPROCKET, THE HUB WIDTH IS 26 mm (1.024").

### MOULDED SPLIT DRIVE AND IDLER SPROCKETS

N. TEETH	PITCH DIAMETER PD		OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		BORE SIZE*	PART NUMBER			WEIGHT		
								SQUARE BORE SQ	ROUND BORE RB				
	mm	inch	mm	inch	mm	inch**		DRIVE/IDLER	DRIVE	IDLER	kg	lbs	
28	113,43	4.466	114,69	4.515	52,40	2.063	25		MPBST6002825	MPBSF6002825	0,16	0.35	
							30		MPBST6002830	MPBSF6002830	0,16	0.34	
							35		MPBST6002835	MPBSF6002835	0,15	0.33	
							40	MPBSQ6002840	MPBST6002840	MPBSF6002840	0,14	0.32	
							1		MPBST60028254	MPBSF60028254	0,16	0.35	
							1 1/4		MPBST60028317	MPBSF60028317	0,15	0.34	
							1 1/2	MPBSQ60028381	MPBST60028381	MPBSF60028381	0,15	0.32	
							30		MPBST6003630	MPBSF6003630	0,38	0.83	
							35		MPBST6003635	MPBSF6003635	0,37	0.82	
							40	MPBSQ6003640	MPBST6003640	MPBSF6003640	0,36	0.80	
36	145,70	5.736	148,00	5.827	68,50	2.697	45		MPBST6003645	MPBSF6003645	0,35	0.78	
							50	MPBSQ6003650	MPBST6003650	MPBSF6003650	0,34	0.75	
							1		MPBST60036254	MPBSF60036254	0,38	0.85	
							1 3/16		MPBST60036301	MPBSF60036301	0,38	0.83	
							1 1/4		MPBST60036317	MPBSF60036317	0,38	0.83	
							1 7/16		MPBST60036365	MPBSF60036365	0,37	0.81	
							1 1/2	MPBSQ60036381	MPBST60036381	MPBSF60036381	0,37	0.81	
							30		MPBST6003830	MPBSF6003830	0,39	0.86	
							35		MPBST6003835	MPBSF6003835	0,38	0.84	
							40	MPBSQ6003840	MPBST6003840	MPBSF6003840	0,37	0.83	
38	153,80	6.055	156,00	6.142	72,55	2.856	45		MPBST6003845	MPBSF6003845	0,36	0.80	
							50	MPBSQ6003850	MPBST6003850	MPBSF6003850	0,35	0.78	
							60	MPBSQ6003860			0,31	0.68	
							1		MPBST60038254	MPBSF60038254	0,40	0.87	
							1 3/16		MPBST60038301	MPBSF60038301	0,39	0.86	
							1 1/4		MPBST60038317	MPBSF60038317	0,39	0.86	
							1 7/16		MPBST60038365	MPBSF60038365	0,38	0.84	
							1 1/2	MPBSQ60038381	MPBST60038381	MPBSF60038381	0,38	0.84	

\*In case of round bore, diameter is indicated. In case of square bore, side of the square is indicated.

\*\* Imperial round bore drive sprockets are supplied with setscrew. Metric round bore drive sprockets are supplied without setscrew.

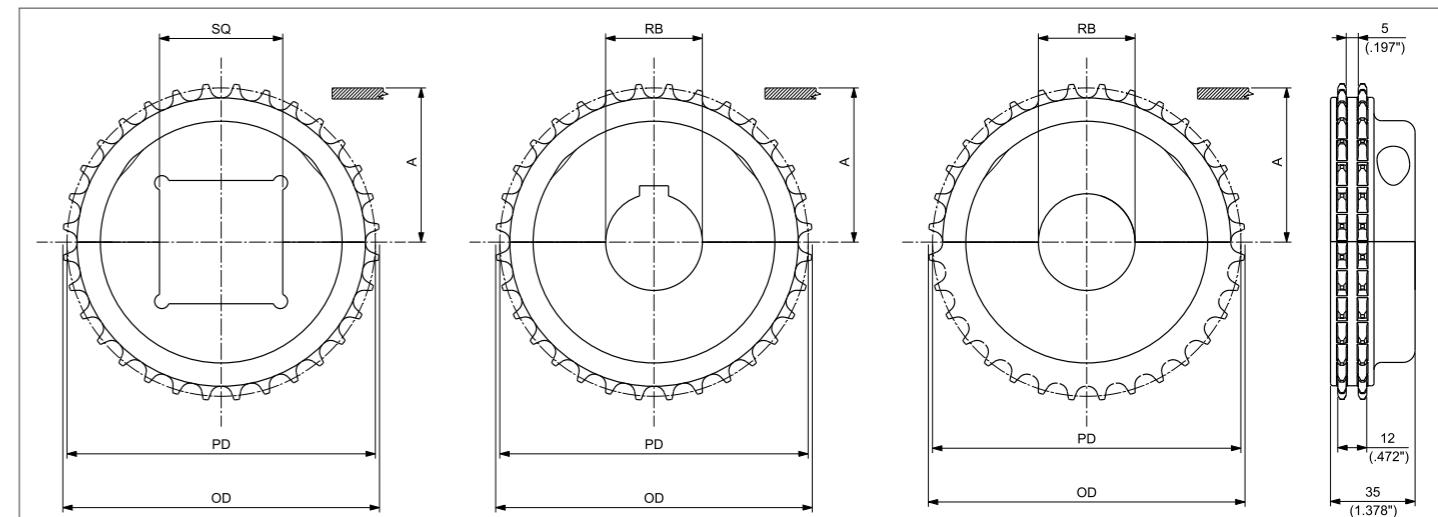


# Matveyor® Modular Belts and Components for Nose Over Transfer

## OTHER ACCESSORIES

### MACHINED SPLIT SPROCKETS

MATERIALS	
Sprocket	PA Polyamide
Screws	SS Stainless steel
Nuts	B Brass



### MACHINED SPLIT DRIVE AND IDLER SPROCKETS

N. TEETH	PITCH DIAMETER PD		OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		BORE SIZE*	PART NUMBER			WEIGHT		
								SQUARE BORE SQ	ROUND BORE RB				
	mm	inch	mm	inch	mm	inch**		DRIVE/IDLER	DRIVE	IDLER	kg	lbs	
32	129,57	5.101	131,00	5.157	60,44	2.379	25				MPBAST6003225	MPBASF6003225	
							30				MPBAST6003230	MPBASF6003230	
							35				MPBAST6003235	MPBASF6003235	
							40	MPBASQ6003240	MPBAST6003240	MPBASF6003240	0,38	0.83	
							45				MPBAST6003245	MPBASF6003245	
							50	MPBASQ6003250	MPBAST6003250	MPBASF6003250	0,35	0.77	

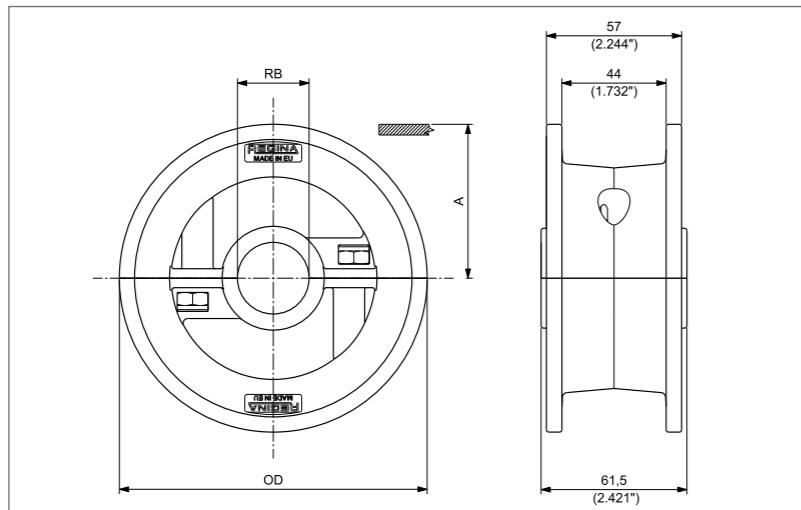


# Matveyor® Modular Belts and Components for Nose Over Transfer

## OTHER ACCESSORIES

### MOULDED SPLIT IDLER WHEELS

MATERIALS	
Sprocket	PGF Reinforced Polyamide
Screws	SS Stainless steel
Nuts	ZN Zinc Plated Steel



### MOULDED SPLIT IDLER WHEELS

N. TEETH	OUTSIDE DIAMETER OD		WEAR STRIP POSITIONING A		BORE SIZE*	PART NUMBER	WEIGHT	
						ROUND BORE RB		
	mm	inch	mm	inch		IDLER	kg	lbs
21	129,57	5.110	64,90	2.555	25	CMTS048152125	0,33	0.72
					30	CMTS048152130	0,33	0.73
					35	CMTS048152135	0,31	0.68
					40	CMTS048152140	0,34	0.76
					45	CMTS048152145	0,31	0.69
					1	CMTS0481521254	0,33	0.72
					1 ½	CMTS0481521317	0,33	0.71
23	142,30	5.602	71,15	2.801	25	CMTS048152325	0,36	0.80
					30	CMTS048152330	0,37	0.81
					35	CMTS048152335	0,35	0.76
					40	CMTS048152340	0,38	0.84
					45	CMTS048152345	0,35	0.77
					1	CMTS0481523254	0,36	0.80
					1 ½	CMTS0481523317	0,36	0.79
25	157,70	6.091	77,35	3.045	25	CMTS048152525	0,40	0.89
					30	CMTS048152530	0,41	0.90
					35	CMTS048152535	0,39	0.85
					40	CMTS048152540	0,42	0.92
					45	CMTS048152545	0,39	0.86
					1	CMTS0481525254	0,40	0.89
					1 ½	CMTS0481525317	0,40	0.88

\*Diameter is indicated.



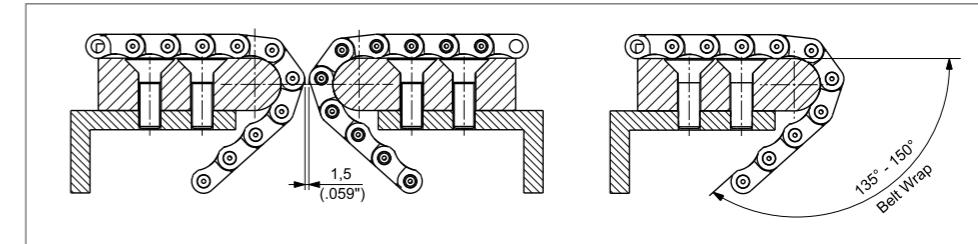
# Matveyor® Modular Belts and Components for Nose Over Transfer

## ENGINEERING MANUAL

### INSTALLATION

#### NOSE BAR

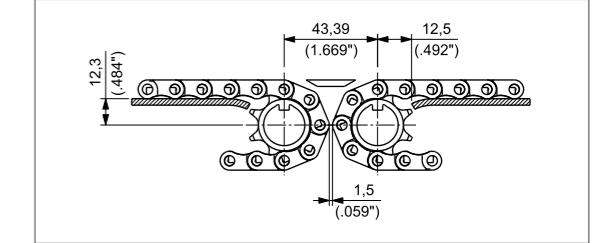
- Nose bar modules are fixed to the mounting plate with M8 flat head screws. The entire belt width is covered positioning more than one module side by side.
- The nose bar mounting plate must not interfere with the belt.



#### 8T SPROCKET

##### Sprockets assembly on the shaft

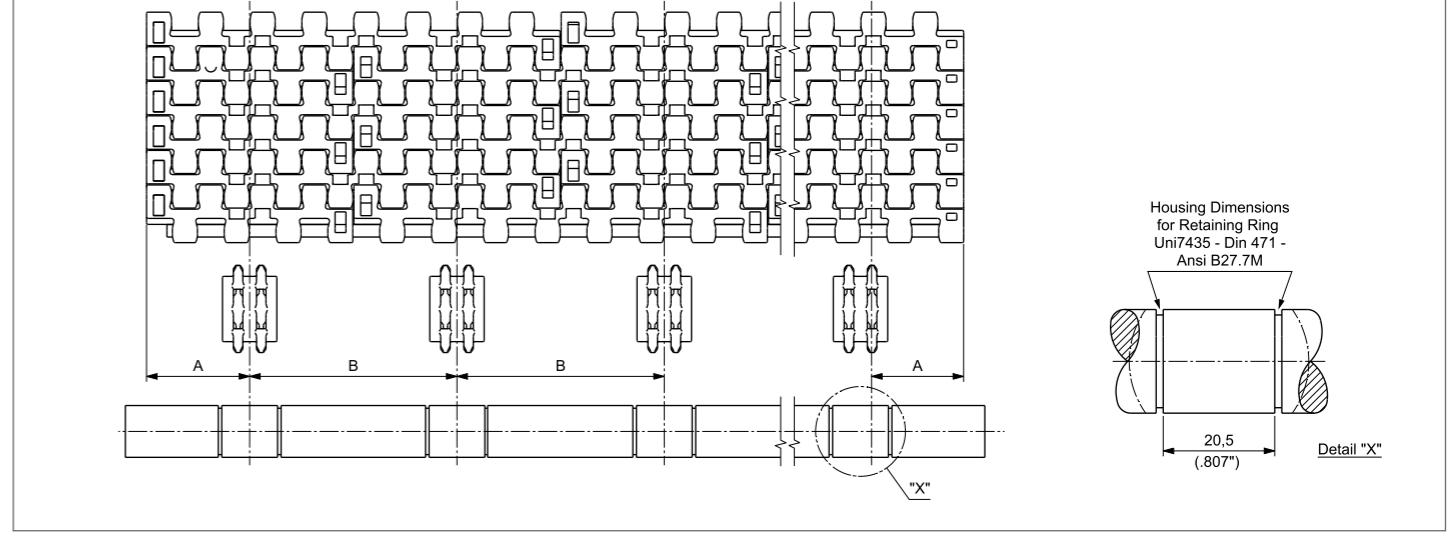
- 8T sprockets are assembled on a shaft of 3/4" or 20 mm diameter, with or without key;
  - IMPORTANT NOTE: given its low diameter, the shaft may experience an excessive bending deflection. In such case one or more central support may be required.
- 180° wrap angle is recommended to ensure proper engagement between belt and sprocket.



##### Sprockets positioning

- The standard spacing between sprockets (dimension B of Exhibit 3) is 85 mm (3.346") for metric modular belts (610, 600, 500, LBP 610, HF 510, HFS 510 series) and 3" (76,2 mm) for imperial versions (300, 200, HF 200 series).
- The distance of the first sprocket from the belts edge (dimension A of Exhibit 3) is 42,5 mm (1.673") for metric belts and 1.5" (38,1 mm) for imperial versions.
- Sprocket must be fixed axially using two retaining rings. Exhibit 3 shows the correct throats diameter and width to fit the rings.

#### EXHIBIT 3 - STANDARD SPACING BETWEEN 8T SPROCKETS



If needed, please contact Regina Application Engineering department for advise.

# Matveyor® Modular Belts and Components for Nose Over Transfer

## ENGINEERING MANUAL

### NOSE OVER TRANSFER

Nose over transfer usually requires a deadplate to close the gap between the two belts (please refer to Exhibit 4). This is particularly true if product dimension is smaller than the gap between the belts. Exhibits 5 and 6 display the minimum recommended center to center distance between head transfer components (nose bar or 8T sprocket), according on the belt series.

EXHIBIT 4 - NOSE OVER TRANSFER WITH DEAD PLATE

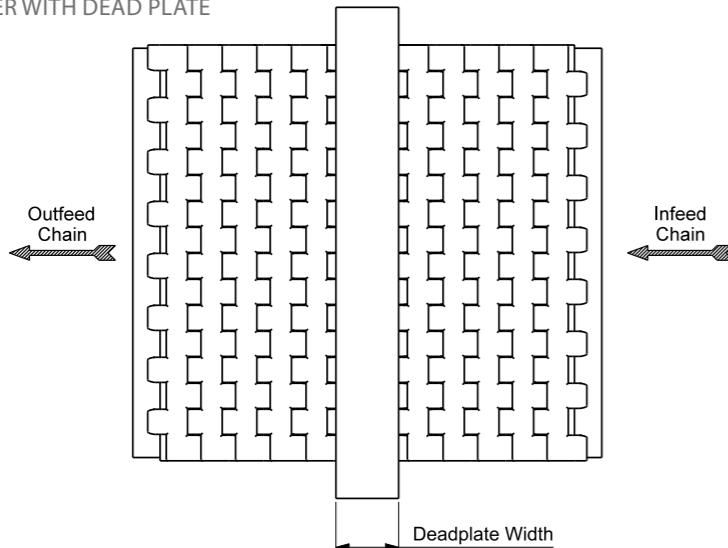
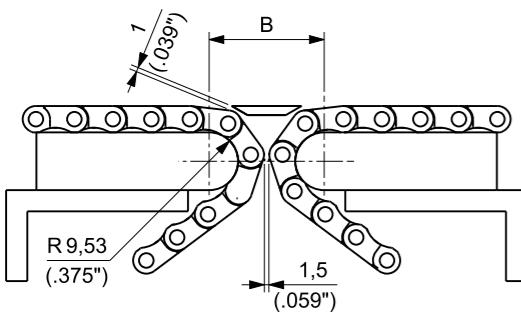
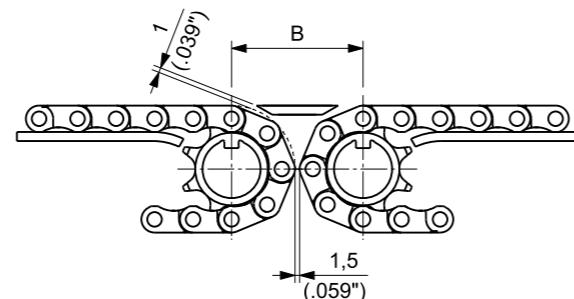


EXHIBIT 5 - CENTER TO CENTER DISTANCE BETWEEN HEAD TRANSFER COMPONENTS WITH NOSE BARS



The minimum recommended chordal gap between belt and deadplate is 1 mm (0.039")

EXHIBIT 6 - CENTER TO CENTER DISTANCE BETWEEN HEAD TRANSFER COMPONENTS WITH 8T SPROCKETS



The minimum recommended chordal gap between belt and deadplate is 1 mm (0.039")

BELT SERIES	MINIMUM CENTER TO CENTER DISTANCE B	
	mm	inch
610, 300, 200	37,95	1.494
600, 500	40,74	1.604
HF 510, HFS 510, HF 200	41,95	1.652
LBP 610	57,37	2.253

# Matveyor® Modular Belts and Components for Nose Over Transfer

## ENGINEERING MANUAL

### SHORT PITCH BELTS DRIVE CONFIGURATION

- End-to-end transfer requires a specific drive configuration to obtain the smoothest product transfer between conveyors.
- Exhibit 7 displays a central bottom drive configuration, recommended for bidirectional conveyor.
- Exhibit 8 displays a head bottom drive configuration, recommended for unidirectional conveyor.

EXHIBIT 7 - BIDIRECTIONAL CONVEYOR CENTRAL DRIVE CONFIGURATION

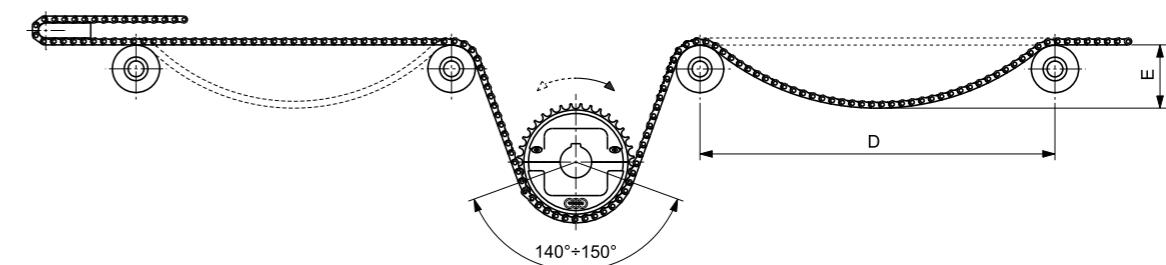
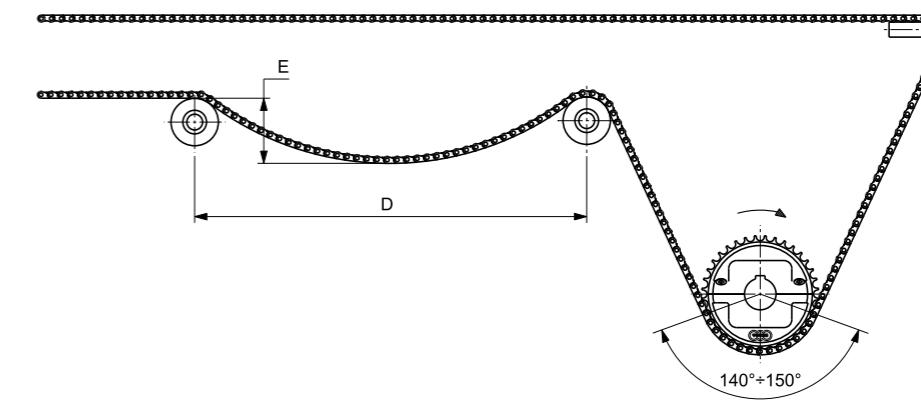


EXHIBIT 8 - UNI-DIRECTIONAL CONVEYOR CONFIGURATION



Regina recommends the following when designing and running a conveyor equipped with short pitch belts:

- Use of UHMWPE wearstrips.
- An horizontal span D of 1,5 ÷ 1,8 m (59" - 71") and a vertical sag E of 75 ÷ 125 mm (3" ÷ 5").
- Use return rollers with a minimum diameter of 40 mm (1.575") to minimize back-flexing.  
In any case, larger rollers are always recommended to decrease joint wear and extend chain life.
- A drive wrap angle of 140° - 150°, to guarantee the correct sprockets engagement.

### OTHER INDUSTRY BEST PRACTICES

- All sharp edges of wearstrips should be rounded to ensure smooth chain movement.
- The wearstrips under the belt must be levelled and even with each other.
- The catenary sag should always be measured while belt is running.
- Generally, tensioners are NOT recommended. If a take-up must be used, install it on the catenary sag.

If needed, please contact Regina Application Engineering department for advise.

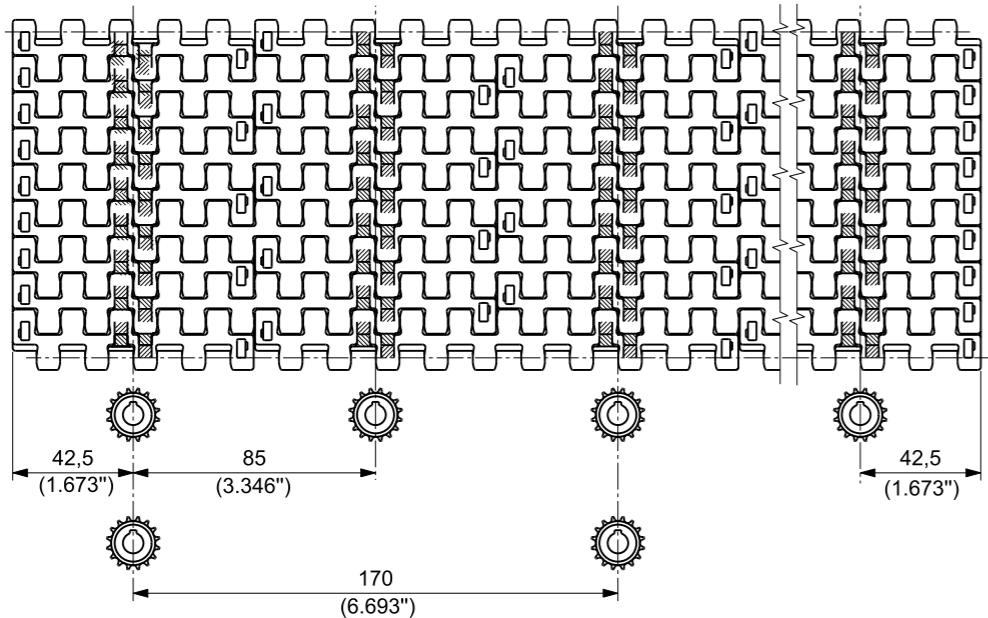
# Matveyor® Modular Belts and Components for Nose Over Transfer

## ENGINEERING MANUAL

### DRIVE AND IDLER SPROCKETS POSITIONING

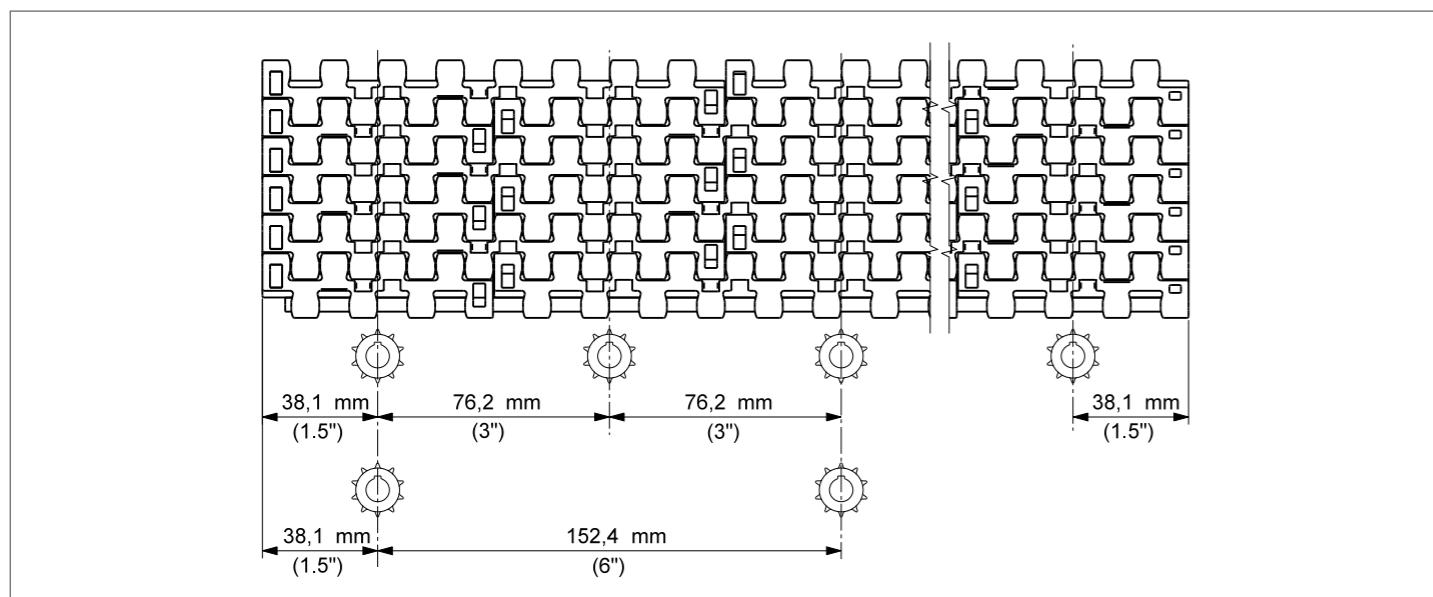
#### 610, 600, 500, HF 510, HFS 510 AND LBP 610 SERIES

- The standard spacing between drive sprockets is 85 mm (3.346").
- The standard spacing between idler sprockets is 170 mm (6.693").
- The distance of the first sprocket from the belts edge is 42,5 mm (1.673").



#### 300, 200, HF 200 SERIES

- The standard spacing between drive sprockets is 76,2 mm (3").
- The standard spacing between idler sprockets is 152,4 mm (6").
- The distance of the first sprocket from the belts edge is 38,1 mm (1.5").



# Matveyor® Modular Belts and Components for Nose Over Transfer

## ENGINEERING MANUAL

### BELTS ASSEMBLY

#### STEP 1 Bring one belt section close to the other one

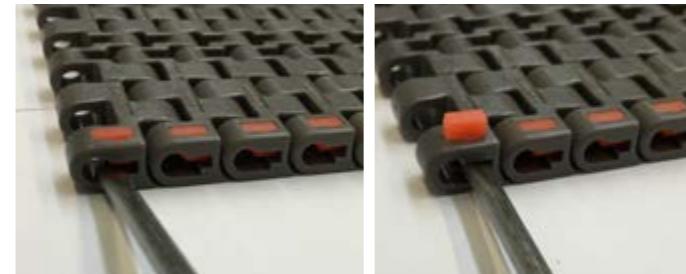


FLAT BOTTOM BELTS

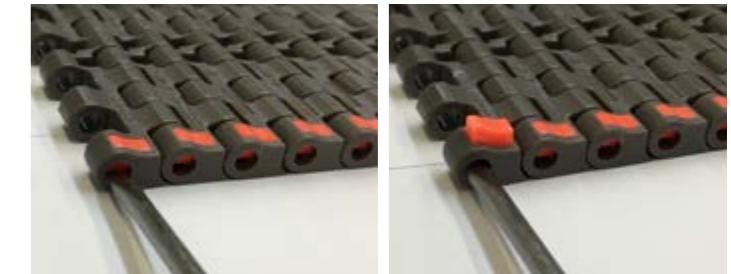


ROUND BOTTOM BELTS

#### STEP 2 Remove the clip inserting a screwdriver into the pocket on the outer module and lift the clip

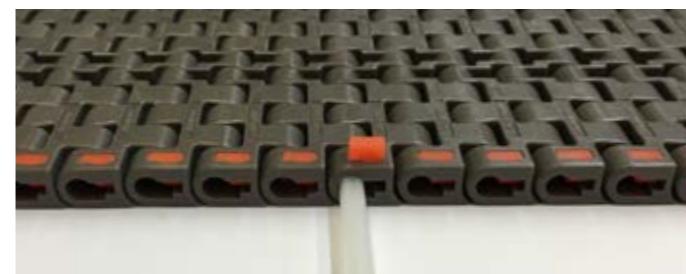


FLAT BOTTOM BELTS

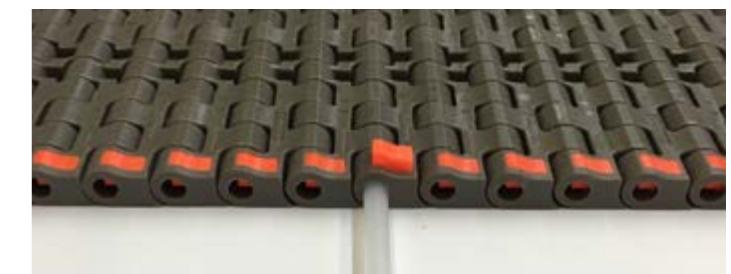


ROUND BOTTOM BELTS

#### STEP 3 Link the two sections by inserting the pin until it touches the opposite side of the belt and then force the clip into the belt pocket by hand



FLAT BOTTOM BELTS



ROUND BOTTOM BELTS

#### STEP 4 Check the correct closing of all the clips



FLAT BOTTOM BELTS



ROUND BOTTOM BELTS



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