

PACKAGING



MEGADYNE

Packaging industry

The Megadyne Group is a worldwide leader in the development, manufacture, fabrication and distribution of rubber timing and V-Belts, Polyurethane synchronous and non synchronous belts, lightweight conveyor belts and flat belts for power transmission, linear positioning and conveying applications.

At the Megadyne Group we provide our customers with innovative solutions to specific packaging industry needs by offering a wide selection of belt constructions, manufacturing processes and years of industry knowledge. Working with original equipment manufacturers and aftermarket distributors, we deliver solutions to the packaging industry with not only standard products, but also with a focus on specialty belts that we design with industry decision makers.

Megadyne Group products are used on packaging equipment from the front to the back of the line. Standard and custom made belts are used on converting and die cutting equipment, form fill and seal, filling and capping machines, case erecting, case and tray packing, box filling and closing lines, along with palletizing and warehousing applications.

Belts Properties

MEGADYNE® ISORAN SYNCHRONOUS (RPP, SILVER, GOLD)	
SUPPLIED AS:	Endless
LENGTH	248 - 4956 mm
WIDTH	9 - 170 mm
THICKNESS	5,4 - 9,7 mm
Pitch	RPP8-SLV8-GLD8-RPP14-SLV14-GLD14
Tensioning member	Fiberglass
Advantage & characteristic	High stability and power transmission

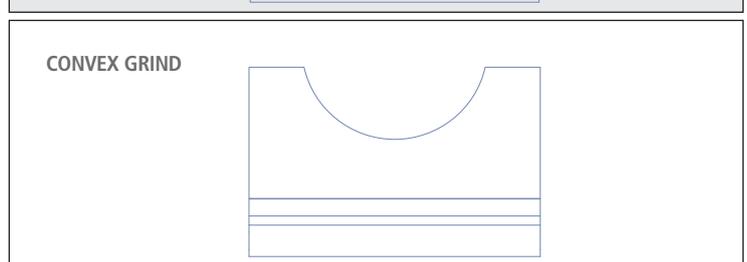
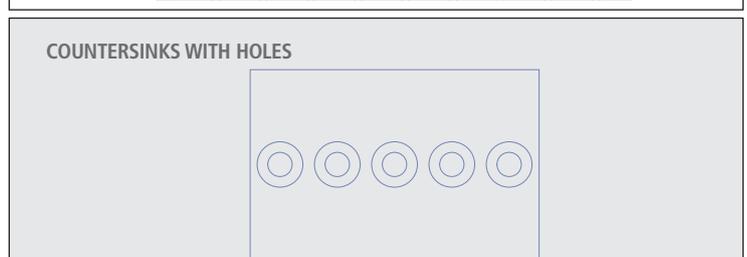
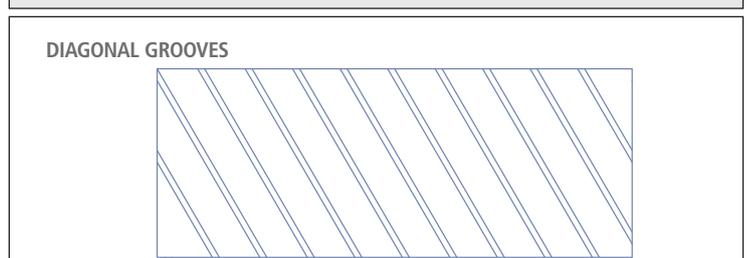
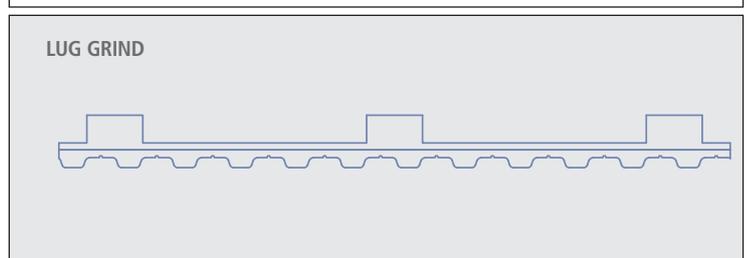
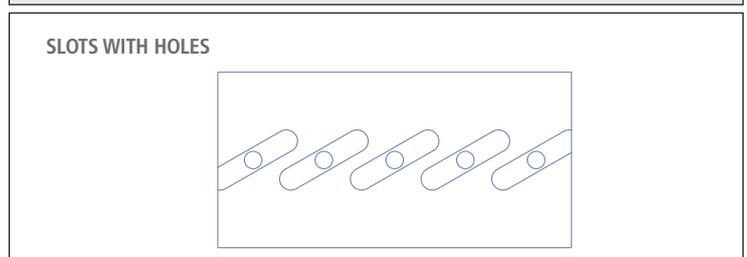
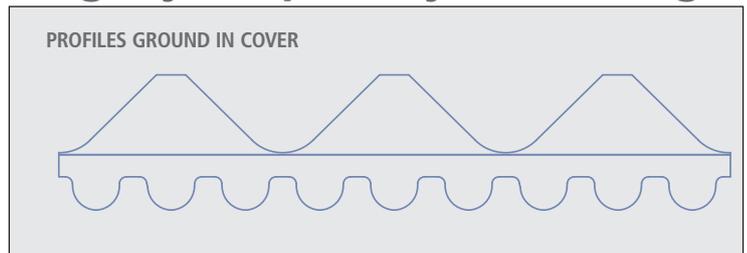
MEGADYNE® URETHANE TIMING BELTS	
SUPPLIED AS:	Open End Roll - Endless - Joined
LENGTH	Megalinear: 0,5 - 100 m Megaflex: 1,5 - 22,77 m
WIDTH	6 - 150 (500 for T5-T10) mm
Pitch	T5-T10-T20-AT5-AT10-AT20-RPP8 RPP14-HTD8-HTD14-TG10-ATG10 TG20-ATG20
Tensioning member	Standard steel
Advantage & characteristic	High resistance belts available in different length, coating possibility

MEGADYNE® DRY BACK V-BELTS	
SUPPLIED AS:	Endless molded
LENGTH	59"-80"-85"-96"-105"-120" 133"-144"
SECTION	B
COMPOUND	SBR+ non marking fabric
Advantage & characteristic	Resistance to oil and steam, non marking

MEGADYNE® SPECIAL COVER/REWORKING ON PU BELTS	
SUPPLIED AS:	Open End , Endless, Joined
LENGTH	0,5 - 100 m
WIDTH	6 - 150 (500 for T5-T10) mm
Pitch	T5-T10-T20-AT5-AT10-AT20-RPP8- RPP14-HTD8 HTD14-TG10-ATG10-TG20 ATG20
Cover & reworking	AVAFC - TENAX - LINATEX - RED GRIP - NBR - NFT NFB - FOAM - DURATAQ SILICONE - GRINDING - SLOT - HOLES
Advantage & characteristic	Custom made solution for high performances level

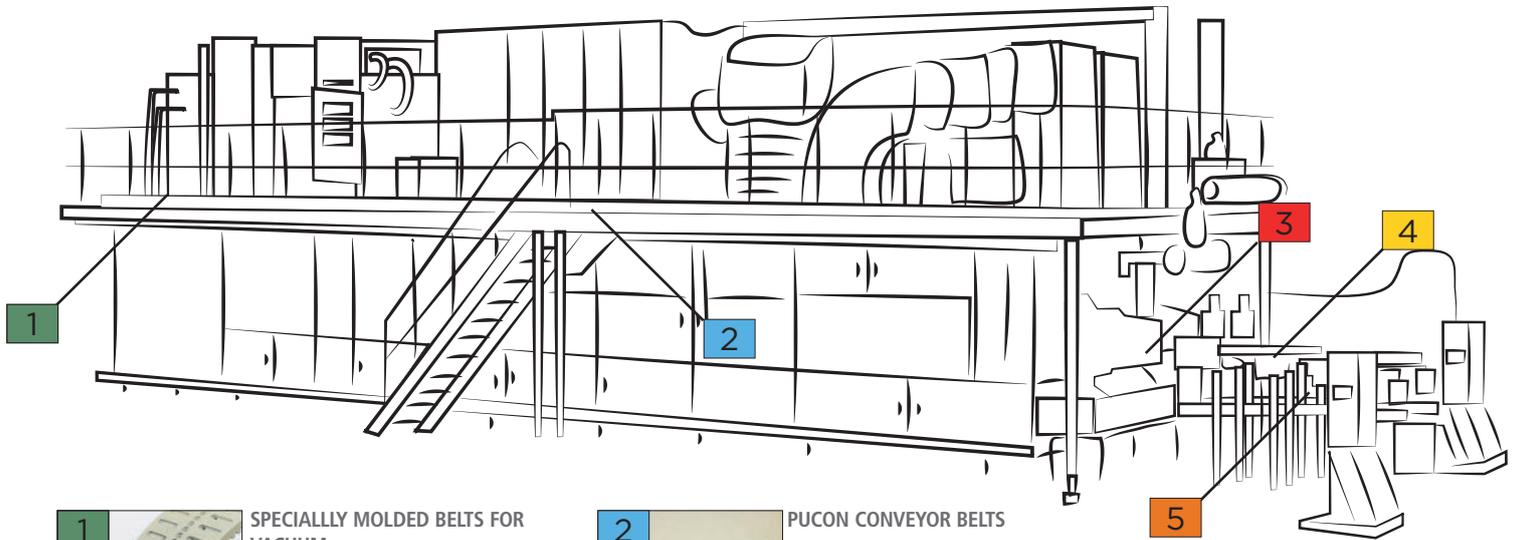
MEGADYNE® SPECIAL COVER/REWORKING ON RUBBER BELTS	
SUPPLIED AS:	Endless
LENGTH	90 - 4956 mm
WIDTH	6 - 170 mm
Pitch	XL-L-H-XH-RPP3-RPP5-RPP8-RPP14
Cover & reworking	TNX - BLUEGRIP - NBR - SILICONE - FOAM - DURATAQ - SLOT - GRINDING - HOLES
Advantage & characteristic	Custom made solution for high performances level

Megadyne Specialty Reworking



Converting and Die Cutting Equipment

With the large majority of packaging made of paper-based products, we offer a wide range of homogenous, high-friction, long life molded cover surfaces on both rubber and polyurethane synchronous and non-synchronous substrates. In cases where vacuum is needed to secure the media being moved, we can add the right modifications to ensure efficient transport.



SPECIALLY MOLDED BELTS FOR VACUUM

- Endless molded belt with vacuum slots and Holes, that directly fit on vacuum wheel
- Easy replacement



PUCON CONVEYOR BELTS

- Series P for cardboard cutting
- Great abrasion and cut resistance



SPECIAL URETHANE BELTS

- Urethane molded belts are truly endless timing or flat belts with continuous spiral cords
- Different cover materials can easily be glued or vulcanized
- Special shapes or slots can be molded or ground directly into the belt cover



SPECIAL MOLDED RUBBER BELTS

- Rubber molded timing belts are truly endless belts with continuous spiral cords and molded cover obtained in one operation with the base belts
- Optimum adherence with the carton for the feeding into the machine



SPECIAL RUBBER BELTS

- Different cover materials can easily be glued or vulcanized
- Special shapes or slots can be molded ground directly into the belt cover

Capping

Feed belts and conveyor belts with the right amount of friction and cushioning to move, hold and cap bottles.



SPECIAL PU TIMING BELT

- Silicone coated foam
- Non marking with high friction cover



DRY BACK V-BELT

- Rubber belt with non marking wrapped fabric
- High resistance to oil and steam



MOLDED POLYURETHANE CAPPING DISK

- High friction non marking homogenous covers



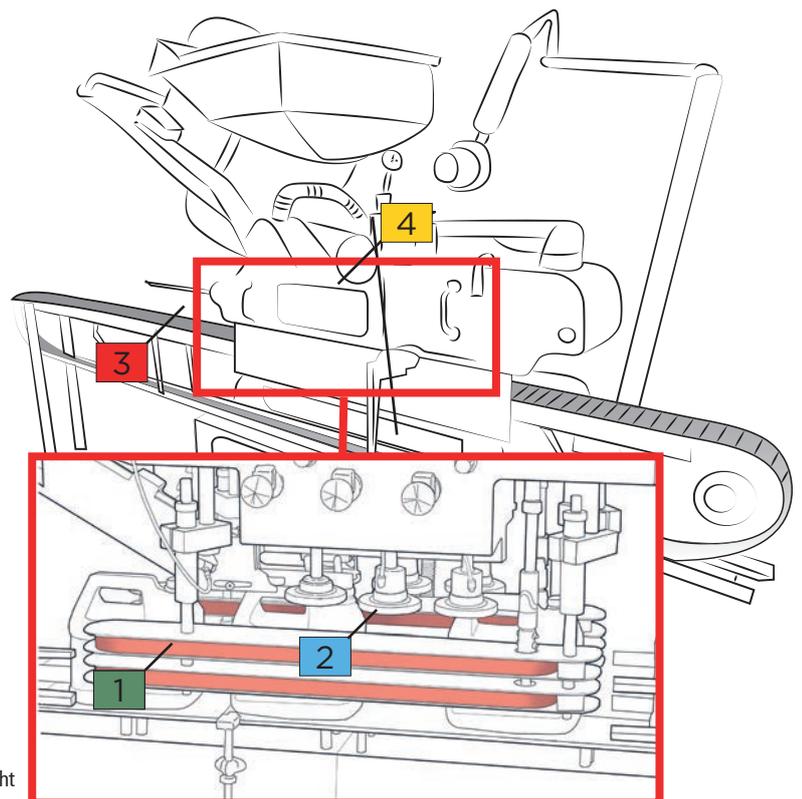
PVCCON CONVEYOR BELTS

- U and L series for horizontal transport.
- Great grip properties
- FDA approved belts available



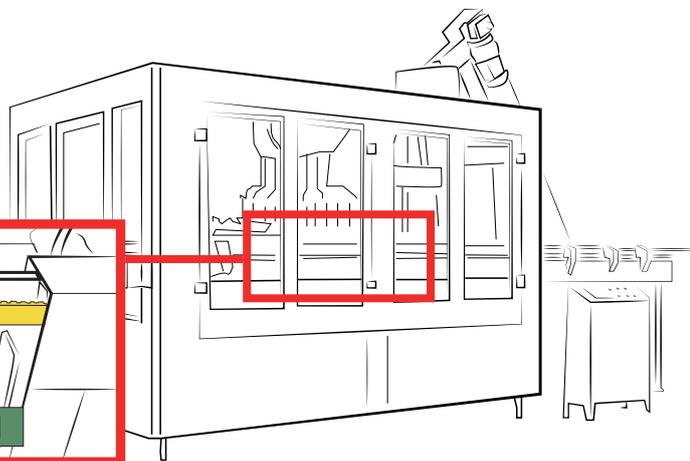
SPECIAL RUBBER FLAT BELT

- Endless molded flat belt
- Low friction fabric to ensure smooth running and length stability
- Non marking with high friction cover



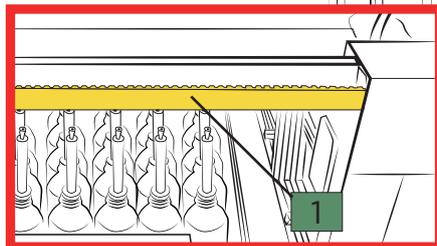
Filling Lines

Megalinear and Megaflex belts used for bi-directional dispensing head positioning ensures precise and smooth movement at high speeds.



URETHANE TIMING BELTS

- Open length or endless timing belts manufactured in thermoplastic polyurethane
- Various grades of steel cord
- High positioning precision suitable for linear movement and lifting systems



Vertical Form Fill & Seal

Synchronous or non-synchronous substrates with molded covers provide the right friction and wear resistance to get the job done. With the vast number of film and media types used today to create bags, the right choice of non-glazing cover can make the difference between efficient and non-efficient bag handling and filling.

Modifications such as holes, slots and grooves for vacuum can be added to meet your specific application requirement. We also provide a wide range of stainless steel and Teflon® coated sealing bands.

SPECIAL REWORKED BELTS

- Truly endless molded belts urethane or rubber based
- Wide range of different materials, to ensure the best performances and the best match to the varied grades of film used
- Tooth grinding and holes to ensure the best vacuum and grip performances



- Urethane VFFS Belt with sprayed foam cover



- Dual durometer urethane VFFS belt



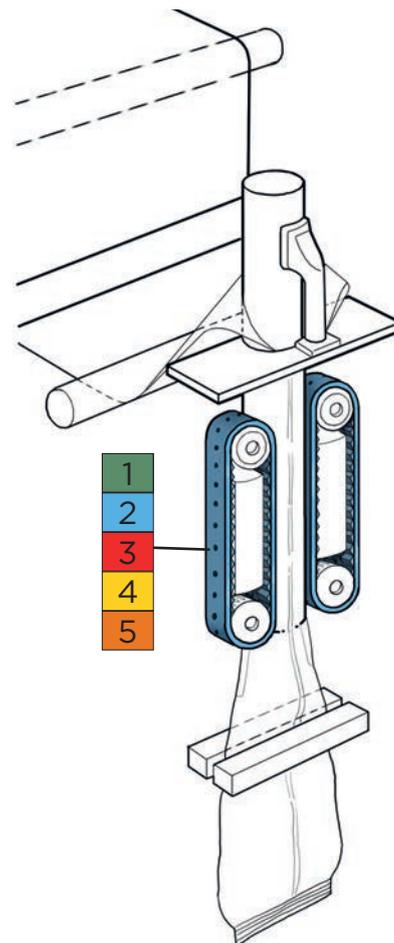
- VFFS Belt with two cover options



- Molded urethane with multiple holes



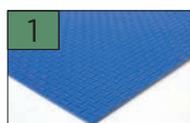
- VFFS Belt with anti-glaze cover



Wrapping/Sealing

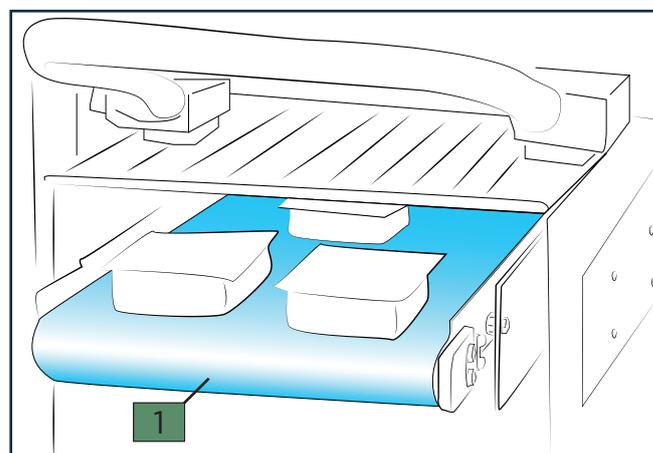
Foil wrapping or sealing, requires in-feed belts. Some applications require that belts for wrapping or sealing equipment, need to be high temperatures, or have high friction surface.

Molded and fabricated covers, including silicone coatings, can be put on synchronous or non-synchronous belt substrates to meet these requirements.



PVCXCON

- Series F for horizontal transport
- In accordance with FDA/USDA
- Good resistance to oil and grease
- Common Embossing Profiles BW, H, LG, T, Y, Z



Wrapping Machine

Case Erecting and Case & Tray Packaging

After boxes are formed, product is inserted into cases or trays. This movement requires belts that offer features like high friction, non-slip covers and cleats for sortation and accurate product placement.



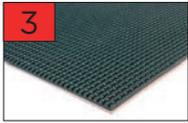
1 SPECIAL URETHANE BELT

- Urethane molded or joined belts with backing materials according to application demands
- Non marking and high friction covers designed for material conveying at high speed



2 POLYURETHANE BELTS WITH CLEATS

- Joined belt with welded cleats
- High frequency welding for maximum precision and adhesion
- Possibility to have cleats profile according to customer drawing to match the package shape



3 PVCCON CONVEYOR BELTS

- Series U and L for transportation
- High friction non-slip covers
- Common embossing profiles: M, N, BW, F, LG, H



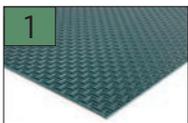
4 RUBBER COVERED TIMING BELTS

- High friction non marking homogenous cover



Box Filling and Closing Equipment

After products are packed in cartons or trays, they are then inserted into boxes. During this process, belts are used to guide and support the box through sealing, labeling and weighing processes.



1 PVCCON CONVEYOR BELTS

- Series L for incline/decline application
- Common Embossing Profiles BW, F, H, LG, M, T, Y
- Good grip performance



2 SPECIAL PU BELT

- DuraTaq™ covered timing belt
- High friction
- Low wear



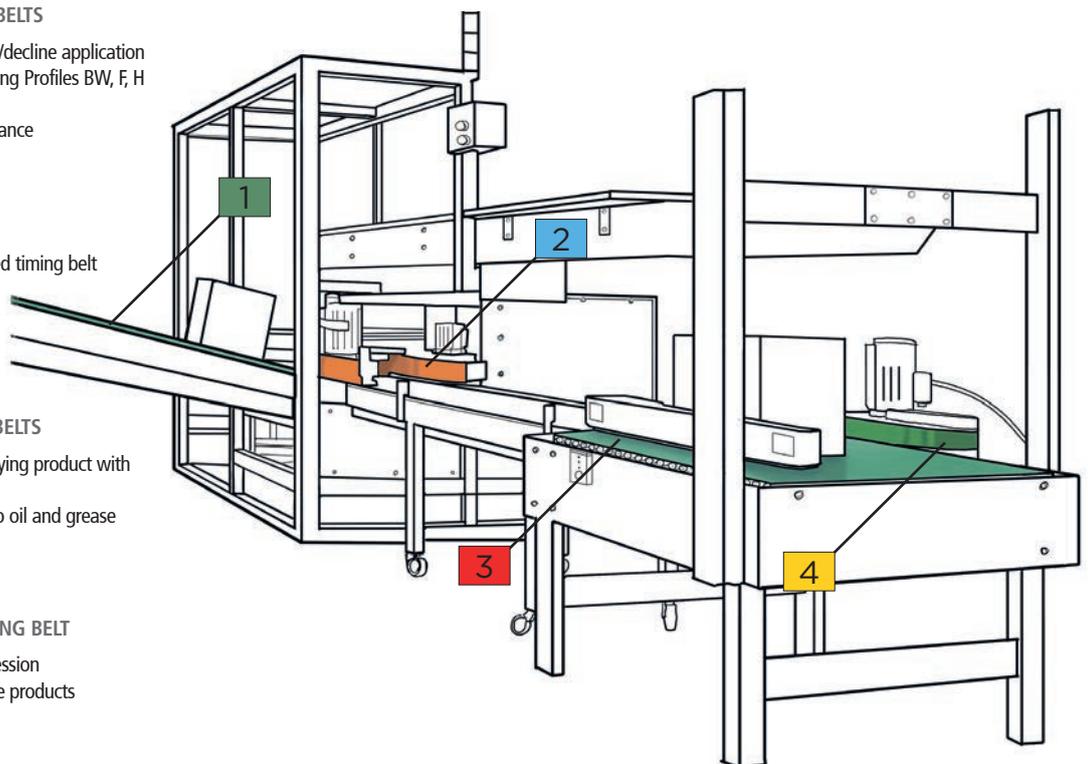
3 FABCON CONVEYOR BELTS

- Series R for conveying product with accumulation
- Good resistance to oil and grease



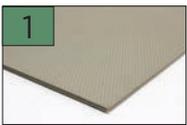
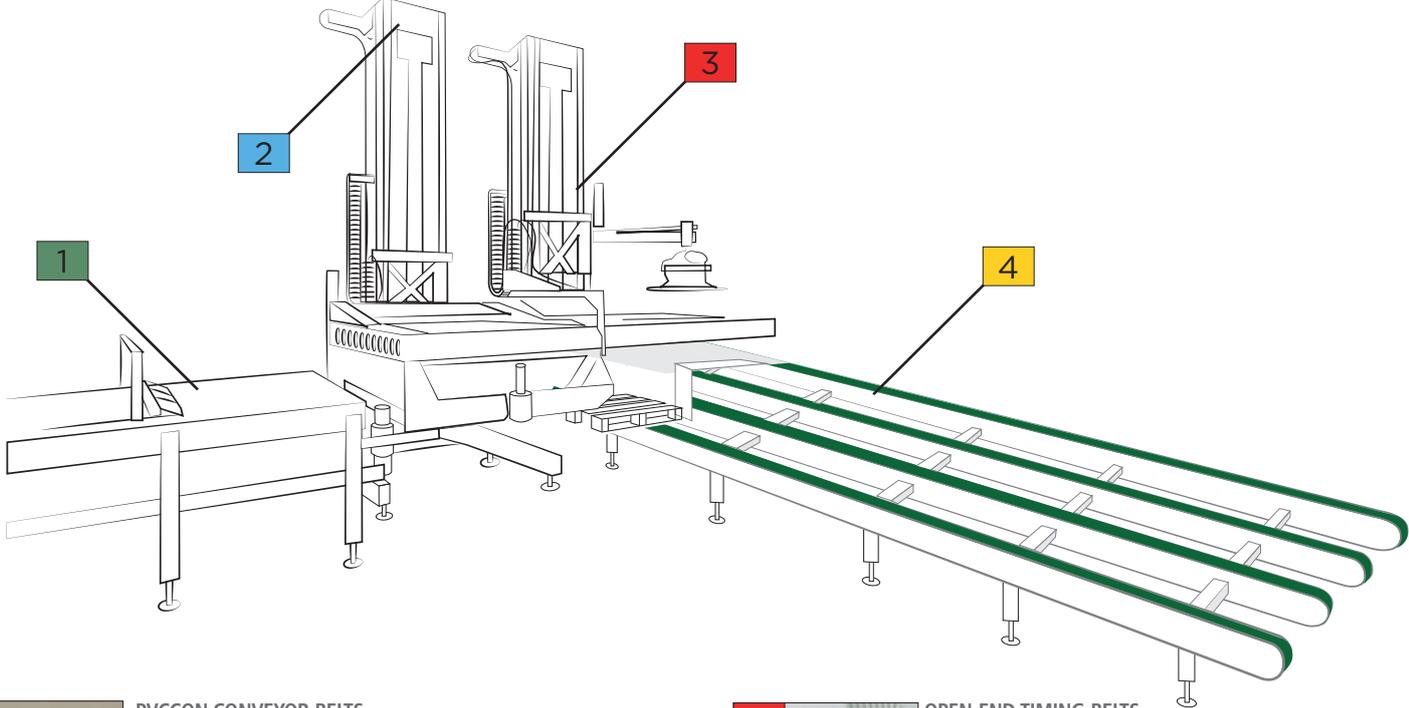
4 FOAM COVERED TIMING BELT

- Added for compression
- Handling of fragile products



Palletizing and Warehousing

After the product is boxed and weighed, it is stacked, wrapped and sent on its way to the customer or warehoused. Megadyne Group products used in this area include: conveyor belts, synchronous parallel path timing belts, as well as synchronous and non-synchronous high strength lift belts.



PVCCON CONVEYOR BELTS

- Series L with basket weave and supergrip patterns on top to keep the conveyed products in line
- Suitable for incline/decline application



OPEN-END TIMING BELTS

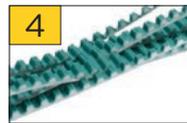
Open length timing belts manufactured in thermoplastic polyurethane

- Various grades of steel cord
- High positioning precision suitable for linear movement and lifting systems



RUBBER TIMING BELTS

- Molded rubber belts available in multiple lengths
- Suitable for high power transmission drives

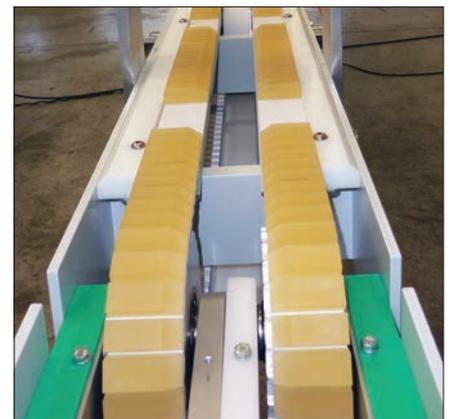
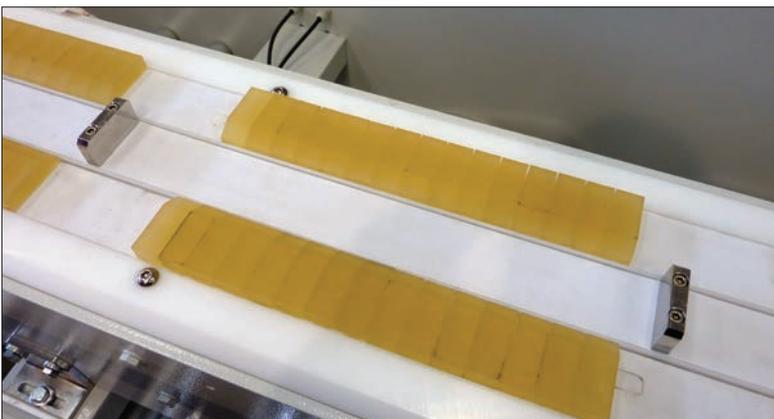


JOINTED BELTS

- Endless belt that can be produced in any length
- Suitable for conveying
- High resistance to fatigue

Case Study

Application:	Food Packaging
Previous belt:	Non-Synchronous flat conveyor belt
Previous drive problems:	Belt slippage, lack of synchronization, expensive downtime and high cost of spare parts.
Solution:	Megalinear Timing Belt with FDA Cleat: Megalinear timing belt for synchronization joined with PPJ joint system for fast and easy belt replacement and weld on cleats for product separation.



Conveyor Belt Properties

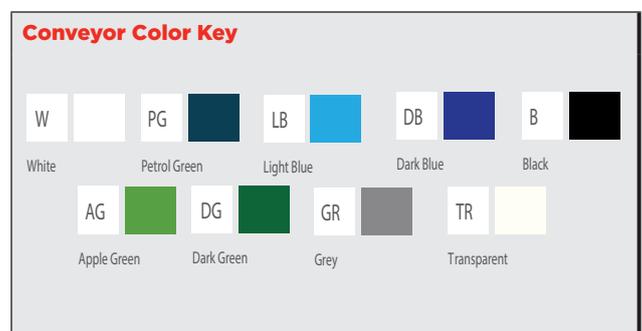
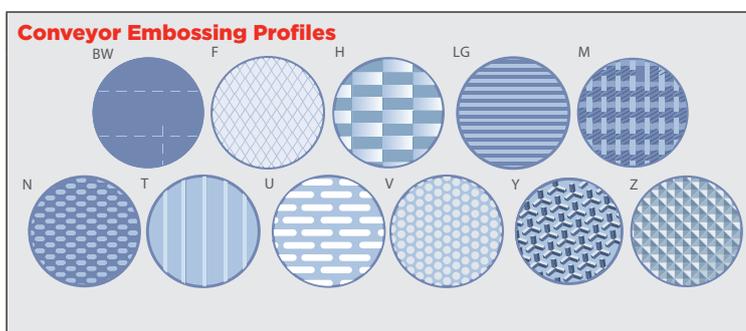
SAMPLA® PUCON antistatic polyurethane belts with hardness 85/92 Shore A. Suitable for horizontal transport and accumulation. Excellent abrasion resistance. Suitable for contact with food in accordance with FDA/USDA					COLOR	PLIES
	PV6/A	PV8/A	P8/A	P9/A		
TOTAL THICKNESS APPROX. (mm)	0,80	1,30	1,30	1,30	PG	SERIE P 1,2
WEIGHT APPROX. (kg/m ²)	0,80	1,40	1,40	1,40	LB	
EFFECTIVE PULL AT 1% ELONGATION (N/mm width)	5	8	8	6	DG	
MAX. BELT WIDTH WITHOUT LONGITUDINAL SEAM (mm)	3000	3000	3000	3200	W	
D. MIN APPROX. (mm)	4	20	20	6	TR	
PERMITTED OPERATING TEMPERATURE (C°)	-30/+100	-30/+100	-30/+100	-30/+100		
RESISTENT OIL AND GREASE	yes	yes	yes	yes		
EMBOSSING PROFILES	NONE	NONE	Z	Z		

SAMPLA® FABCON raw fabric .These belts are also suitable for use on packaging machines with or without product accumulation				COLOR	PLIES
	R10	R13	R13/LB		
TOTAL THICKNESS APPROX. (mm)	1,20	1,00	1,00	LB	SERIE R 1,2
WEIGHT APPROX. (kg/m ²)	1,30	1,10	1,10	W	
EFFECTIVE PULL AT 1% ELONGATION (N/mm.width)	8	6	6	TR	
MAX. BELT WIDTH WITHOUT LONGITUDINAL SEAM (mm)	3000	3000	3000		
D. MIN APPROX. (mm.)	30	10	10		
PERMITTED OPERATING TEMPERATURE (C°)	-10/+70	-30/+100	-30/+100		
RESISTENT OIL AND GREASE	yes	yes	yes		
EMBOSSING PROFILES	NONE	NONE	NONE		

SAMPLA® PVCCON Soft PVC cover hardness 46/55 Shore A .High coefficient of friction. Incline and decline application							COLOR	PLIES
	L20/BW	L10/F	L10/LG	L10/M	L20/H	N20/M		
TOTAL THICKNESS APPROX. (mm)	2,30	2,40	2,60	5,20	8,50	5,70	PG	SERIE L 2,3
WEIGHT APPROX. (kg/m ²)	2,60	2,80	2,80	4,40	5,90	4,70	DB	
EFFECTIVE PULL AT 1% ELONGATION (N/mm width)	14	8	8	8	12	14	GR	SERIE N 1,2
MAX. BELT WIDTH WITHOUT LONGITUDINAL SEAM (mm)	3000	2000	3000	3000	2000	3000		
D. MIN APPROX. (mm)	50	40	40	40	60	50		
PERMITTED OPERATING TEMPERATURE (C°)	-10/+70	-10/+70	-10/+70	-10/+70	-10/+70	-10/+70		
RESISTENT OIL AND GREASE	no	no	no	no	no	yes		
EMBOSSING PROFILES	B W , F , H L G , M , T , Y					BW, LG, M		

SAMPLA® PVCCON PVC belts for general horizontal conveying. hardness 74/90 Shore A						COLOR	PLIES
	U10	U20	DN8/A	N20/A	D10/A		
TOTAL THICKNESS APPROX. (mm)	2,50	2,70	1,80	2,60	2,00	PG	SERIE U 1,2,3
WEIGHT APPROX. (kg/m ²)	3,10	3,40	2,10	3,20	2,40	DB	
EFFECTIVE PULL AT 1% ELONGATION (N/mm width)	12	8	8	14	8	B	SERIE D 1,2
MAX. BELT WIDTH WITHOUT LONGITUDINAL SEAM (mm)	3000	3000	3000	3000	3000	AG	
D. MIN APPROX. (mm)	50	60	20	70	60		SERIE N 2
PERMITTED OPERATING TEMPERATURE (C°)	-10/+70	-10/+70	-10/+70	-10/+70	-10/+70		
RESISTENT OIL AND GREASE	yes	yes	yes	yes	yes		
EMBOSSING PROFILES	N, Z	N, Z	N,Z,BW	BW, LG, M	N,Z,BW		

SAMPLA® PVCCON PVC belts for horizontal transport. Hardness 72 shore A standard FDA/USDA				COLOR	PLIES
	F10	F10/BL	F20		
TOTAL THICKNESS APPROX. (mm)	2,00	2,00	2,60	W	SERIE F 1,2,3
WEIGHT APPROX. (kg/m ²)	2,40	2,40	3,00	DB	
EFFECTIVE PULL AT 1% ELONGATION (N/mm width)	8	8	12		
MAX. BELT WIDTH WITHOUT LONGITUDINAL SEAM (mm)	3000	3000	3000		
D. MIN APPROX. (mm)	30	30	50		
PERMITTED OPERATING TEMPERATURE (C°)	-10/+70	-10/+70	-10/+70		
RESISTENT OIL AND GREASE	yes	yes	yes		
EMBOSSING PROFILES	B W , H , L G , T , Y , Z				



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