



***ENGINEERED  
& SPECIALTY  
BELT***

FAMILY PRODUCT  
GUIDE

EN



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ENGINEERED &  
SPECIALTY BELTS

[megadynegroup.com](http://megadynegroup.com)

# WE ARE **MEGADYNE**

Welcome to the Megadyne world, a place of innovatory power transmission solutions. We are a group of talented people supporting our customers in achieving an operational perfection. We are the ultimate manufacturer of belting solutions, empowering your businesses to exceed your efficiency potential.

MATHI, ITALY

## ABOUT US

We invest in skilled designers and engineers, who are the key factor in providing the most innovative Megadyne power transmission systems. As field experts, they thoroughly analyse and study industrial processes to develop new solutions and upgrades to the already existing ones.

Remaining a local power transmission belting provider, while expanding Megadyne globally, enabled us to become the apex market leader. This is the way, in which we are present at your side, seeing your needs first-hand, and then applying the solution world-wide.

Sustainability is as important as ever at Megadyne. Our group consists of like-minded people cherishing the beauty of the world, focused on preserving it for the generations to come. For that reason, we produce solutions which last longer, save energy, and limit the overall carbon footprint of our customers.

**9**  **FACTORIES IN EUROPE, ASIA AND AMERICA**  
**+170**  **COMMERCIAL LOCATIONS**  
**+2400**  **EMPLOYEES**  
**3** 

## OUR REACH

We are your neighbouring company which has been 'making your business move'. Our founder, Corrado Tadolini, began manufacturing flat rubber drive belts on a small scale in a town outside of Turin in 1957. Little did he know how the world was about to change, and his solutions in moving products would revolutionise a number of industries with cutting-edge solutions and more sustainable operations.

Nowadays, Megadyne's influence has expanded under the Ammega Group to more than 170 commercial offices. Together with other Ammega brands, Ammeraal Beltech in conveyor belting and Jason Industrial in fluid power, we share core values. Namely, customer centricity, people focus, entrepreneurship, agility, and responsibility. What is more, together we provide unique applications and belting systems for the whole supply chain.

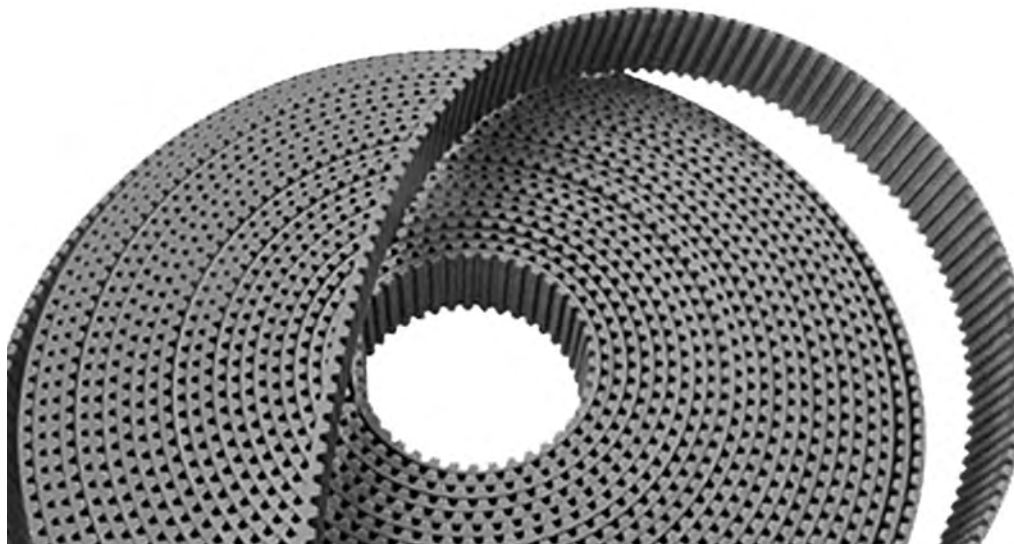
**1957**



## OUR SOLUTIONS

Our customers are original equipment manufacturers and aftermarket distributors, for whom we deliver a large range of products. Our offer includes thermoset and thermoplastic polyurethane belts, rubber timing and v-belts, flat belts, multi-rib belts, specialty belts, pulleys, clamping plates, timing bars and complementary products, including custom-made.

Engineered belts are the true pride of Megadyne. The purchasers of our fabricated solutions at first experience the expertise of our professionals, then to be astonished by the final product. A fully customized power transmission belt with all accessories, discretely characterised for the exact requirements of the customer's machinery.



## Welcome to Megadyne **Engineered & Specialty Belt Solutions**

Megadyne supplies complete and innovative solutions for broad applications and industries such as **material handling, elevators, machine tools, food industry equipment, packaging, fitness, wood, marble, and ceramics...**

just to name a few of the many industrial markets where you'll find the Megadyne name.



MATERIAL  
HANDLING



ELEVATORS  
& LIFTS



MACHINE  
TOOLS



PACKAGING



FITNESS



WOOD



FOOD



MARBLE  
& CERAMICS

WE MAKE  
YOUR  
BUSINESS  
MOVE









# FOOD INDUSTRY

## FOOD-APPROVED MATERIALS IN HIGH-SPEED AND PRECISION HANDLING APPLICATIONS

Belts offering high-speed and precision handling performance with FDA materials and EU approved certifications, designed to be used where actuation, positioning, segmentation, and placement of product is important to line-up time.

### MAIN APPLICATIONS

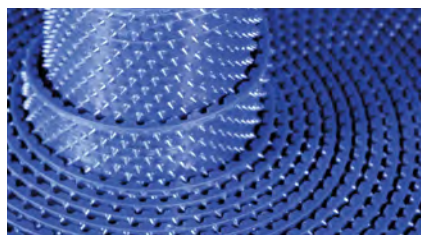
- Meat Slicing
- Inspection Line
- Vertical Form Fill and Seal
- Horizontal Form Fill and Seal
- General Conveying
- Sausage Belts



Megadyne offers a range of Food-Contact approved timing belts which can be used to offer a high-end solution for any food handling applications.

Additionally, Megadyne offers a wide variety of cover materials, which are food approved. We have diverse Thermoplastic PU, PVC, Rubber, and Silicone covers applicable for any kind of food application. You will find the technical information and further details of these Covers on the following pages, highlighted with the Food Industry icon (as seen above).

## RECOMMENDED PRODUCTS



### MEGALINEAR FC

New to the MEGALINEAR family, and introduced for food processing and packaging applications, MEGALINEAR FC is manufactured with food-contact approved materials, according to European regulations EU 1935/2004, EU 10/2011, and EU174/2015. MEGALINEAR FC is manufactured in T5/T10 pitch without gap between the teeth and is available in a smooth surface or backing profiles, such as Spike Top, Noppen, and others, for all kinds of conveying and processing applications. These advanced food-contact synchronous belts have excellent resistance to chemicals and corrosion and are designed for use in wet and dry food-contact applications. The homogeneous belt design ensures a significantly greater service-life with a high-level of hygienic integrity.



### MEGAPOWER FC

Designed for power transmission and certain synchronous conveying applications within the food and packaging industry where the polyurethane chemistry is beneficial for oily environments and where rigorous wash down procedures are common. Featuring stainless steel cords and food-compliant blue polyurethane according to European regulations EU 1935/2004, EU 10/2011, and EU174/2015, MEGAPOWER FC is ideal for both wet and dry applications thanks to its good chemical and corrosion resistance in humid and wet environments. MEGAPOWER FC handles your high acceleration, multi stop/start synchronous food product handling drives with ease.



### FCM BELTS

MEGALINEAR FCM and MEGAFLEX FCM are available in Light Blue Thermoplastic PU and stainless-steel cord. This combination conforms to an FC approval for the belt according to EC 1935/2004. Kevlar® cords. They are available for MEGALINEAR FCM with T10 and AT10 without gap.

Thanks to the belt construction and cord pitch, FCM belts are also suitable for heavy load conveyor and power transmission applications, for example linear units for Food processing.

Combining these belts with an additional cover does not meet the same standards as the base belt.

Contact Megadyne for more information.



Visit [www.megadynegroup.com](http://www.megadynegroup.com) for more information on our product offering in the Food Industry.

ENGINEERED &  
SPECIALTY BELTS

# PACKAGING INDUSTRY

## CUSTOMERS RELY ON MEGADYNE'S FULL LINE OF BELTING SOLUTIONS FOR THE PACKAGING INDUSTRY, INCLUDING A WIDE RANGE OF STANDARD AND CUSTOMIZED PRODUCTS

Megadyne provides its customers with innovative solutions to specific Packaging Industry needs, offering a wide selection of belt constructions and manufacturing processes thanks to years of industrial experience. Megadyne products are used in packaging equipment from the start to the finish of the packaging line.

Our portfolio of synchronous and non-synchronous belts, including special cover materials, cleated belts, machined modifications, and other fabrications types, deliver the solutions for a wide variety of applications including:

- Carton forming/box erecting/box closing
- Filling
- Blow molding machines
- Capping lines
- Cartoning lines
- Check weighing
- Feed lines
- Filling lines
- Form, fill, and seal
- Wrapping and sealing
- Labeling



### VERTICAL FORM FILL SEAL BELTS

- Homogeneous moulded covers that provide uniform wear surfaces free of hard spots to increase performance
- Covers without any splices or seams for increased reliability
- Continuous, durable wearing covers that provide consistent friction for life of the belt
- Non-glazing compounds that offer excellent grip and slip prevention
- Excellent abrasion resistance for an increased trouble-free lifespan
- Excellent flexibility without cracking or tearing
- Standard OEM replacement belts for all major manufacturers
- CNC machined precision modifications such as slots, countersunk holes, grooves, and profiles within precise tolerances for outlasting performance
- Metal Sealing Bands available



### IN-LINE FILLING BELTS

After filling of liquids, capsules, and pills; capping machines apply, tighten and secure caps of varying material types to bottles, and containers made of glass, PET, PVC, PP, LDPE, and HPDE.

Capping machines are used to complete the packaging of food products, beverages, household products, pharmaceuticals, and industrial goods. Megadyne's Specialty Belt Division can manufacture the correct frictional and cushioning types of belts to apply torque and twisting motion to securely lock the cap in place.



### FOOD PACKAGING

On the Food Packaging, MEGALINEAR timing belts - joined with PPJ joint system and equipped with FDA cleats - exceed the performance of non-synchronous flat belts and guarantee the most efficient product separation without belt slippage, lack of synchronization, expensive downtime, high-cost of spare parts.

ENGINEERED &  
SPECIALTY BELTS



Visit [www.megadynegroup.com](http://www.megadynegroup.com) for more information on our product offering in the Packaging Industry.





# OTHER INDUSTRIES



## AUTOMOTIVE & TYRE

Working hand in hand with our partners in the Automotive and Tyre industry led us to create belts for vacuum, magnetic applications, the transport of raw-rubber, and metal stock. Our customized belts serve different applications, ensuring excellent cut and wear-resistance, high-strength for lifting, good oil and chemical resistance, low friction for accumulation, and non-marking high grip where needed.

- Sheet Metal Processing
- Glass tempering line and storage
- Car chassis assembly
- Skid conveyors applications
- Tyre manufacturing



## ALUMINUM EXTRUSION

Our belting products are used in a wide range of applications to ensure materials are transported successfully throughout each stage of aluminium production. Megadyne offers tailored solutions to meet your handling requirements such as non-marking surfaces and high-temperature product handling.



## CERAMIC, GLASS, BRICK & STONE

Megadyne offers urethane and rubber materials that can be fitted to your application. We offer high-friction and excellent wear-resistance as well as cover modifications to assist in product handling, such as holes and angular or lateral machining.

- Grinding Machines
- Cutting Lines
- Beveling Lines
- Drilling Lines
- Polishing Lines
- Tempering Lines
- Sealing Lines



## MATERIAL HANDLING

High-strength and precision repeatability are essential components required in lift movement and material handling. With a broad range of urethanes and cord options, Megadyne can supply the right belt for your application.

- Live Roller Conveyors
- Cross Sorters
- Pallet and Transport Platform Conveyors
- Gapping Conveyors
- Incline Conveyors
- Line Conveyors
- Diverters
- Offload, Sorting and Delivery Conveyors
- ASRS Systems

ENGINEERED &  
SPECIALTY BELTS

# OTHER INDUSTRIES



## MEDICAL INDUSTRY

Megadyne offers several synchronous and non-synchronous clean running options for both light-duty power transmission, positioning, and product handling applications.

- Medical Equipment:
  - MRI Tables
  - Blood Centrifuge
- Automated Pharmaceutical Dispensers
- Medical Instrumentation



## ROBOTICS & AUTOMATION

Urethane and rubber high-strength synchronous belts are being increasingly incorporated into robotic positioning applications; these commonly include pick and place systems, and applications where positional accuracy is required.

- 3D Printing
- Fiber Optics
- X,Y Drives
- Swimming Pool Cleaners
- Security Camera Positioning
- Theatre Lighting Positioning
- Automotive Assembly Welding Systems



## PAPER & PRINT

From a broad range of elastomer options, Megadyne can provide the right combination of substrate and cover materials to yield wear-resistance, the right coefficient of friction, and antistatic requirements. Megadyne specializes in modifications such as holes or slots, counter slots, and vacuum draws.

- Banking Equipment
- Printing Equipment
- Bindery Equipment
- Mail Handling Equipment
- Collating Machines
- Ticketing Machines
- Newspaper Equipment
- Personal Hygiene Products - Diapers, Wipes



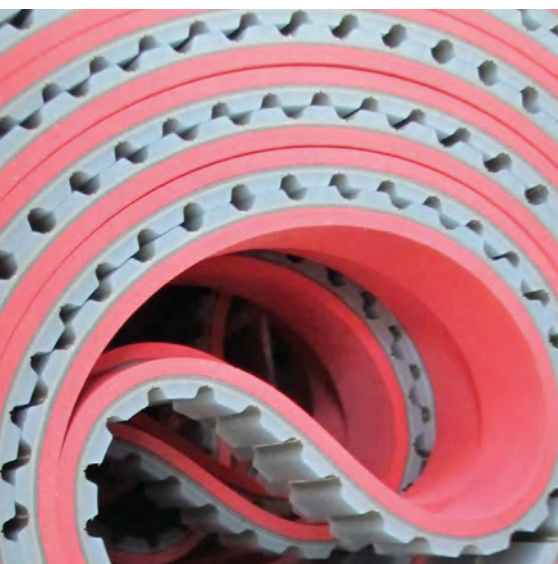
## WOOD

Within the Wood Industry, Megadyne is able to meet all requirements - even the most challenging - with standard and specialty belts.

- Veneer Stacker
- Plywood Layup & Pressing
- Press Exit, Trimming & Inspection
- Wood Panel Conveyor

ENGINEERED &  
SPECIALTY BELTS

**... AND MANY MORE...**



# COVERS

POLYURETHANE  
PVC  
NATURAL RUBBER  
NITRILE-NEOPRENE  
POLYCHLOROPRENE  
EPDM-VITON-SILICONE-HNBR  
OTHER  
COATING





# COVERS

## MEGADYNE IS A GLOBAL LEADER IN THE DESIGN AND MANUFACTURING OF SPECIALTY AND ENGINEERED BELTS WITH COVERS

Why is this the case? It starts with our understanding of polymers. From rubber to silicone, to urethane, to impregnated fabrics, internal knowledge at Megadyne as well as that obtained from our other Ammega sister companies is matched with our broad process offering.

At Megadyne, we mould rubber, spin cast urethane, and Hytrel®, apply silicone and neoprene coating, spray urethane foam, and laminate materials made of urethane, PVC, rubber, fleece, artificial leather, silicone, and Kevlar®.

With our vertically integrated business model, matched with our multiple manufacturing processes, and state-of-the-art modification equipment, Megadyne is well positioned to offer you high-quality, consistently produced products. No one manufacturer of Engineered Specialty belts provides more solutions.

### PRODUCT AVAILABILITY



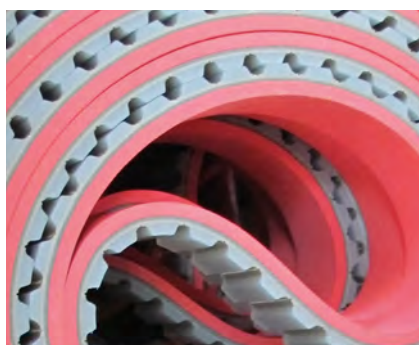
In the  
Sample  
Book



Available in  
EMEA & APAC



Available in  
the  
AMERICAS



### COVER COLOUR KEY

Orange	Yellow	Blue FDA
PU Cream	White	High Duro Pink
PU Blue	Tan	Dark Gray
Gray	Sylomer Blue	Royal Blue
Transparent	Transparent Brown	Black
Red Grip	Celloflex Tan	Dark Red
Red	Dark Green	Brown
Mint Green	Blue Anti Glaze	Coral

### RESISTANCE<sup>1</sup> QUALITY LEVELS

Poor	●○○○
Fair	●●○○
Good	●●●○
Very Good	●●●●

<sup>1</sup> In relation to Water, Abrasion and Oil Resistances of the cover material.



### IMPORTANT COVER INFORMATION

The following information provides explanation for the asterisk found within the cover section (8-34).

**\*Coefficient of Friction (CoF):** Determined by the static value against a steel guide; however, consideration must be given to the specific environmental conditions (contamination and/or wear resistance) and aging on the cover

**\*\*Oil Resistance:** Dependant upon the exact chemical nature and viscosity of the oil

**\*\*\*Ground Covers** can yield a tighter tolerance of +/-0.3mm if required

**\*\*\*\*Minimum Pulley Diameter (Pd) = desired cover thickness x given multiplier: i.e. 2mm cover thickness x 30 (given) = 60mm min. Pd. If the minimum diameter of base belt is larger than the calculated cover minimum Pd, use the larger of the two values.**

**\*\*\*\*\*Minimum Pulley Diameter (Pd) = Total Belt Thickness (TK)x5**

ENGINEERED &  
SPECIALTY BELTS



# COVERS: POLYURETHANE

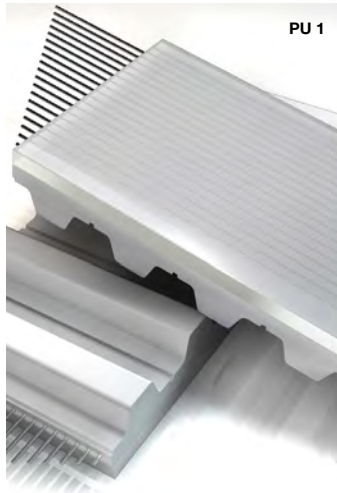
AVAFC 60

AVAFC 70

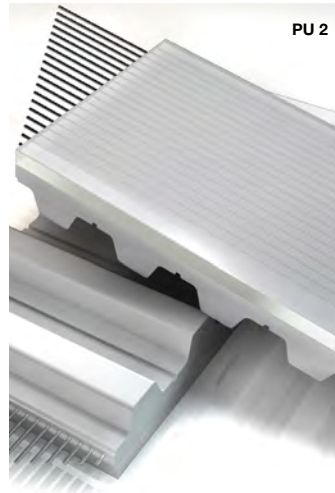
AVAFC 85



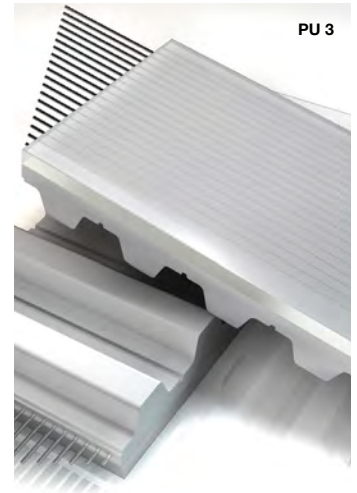
PU 1



PU 2



PU 3



## SOURCE LOCATION

## COLOURS

## RAW MATERIAL

## HARDNESS (ShA)

## COVER AND BELT COHESION METHOD

## STANDARD COVER THICKNESS RANGE (mm)

## TOLERANCE COVER THICKNESS (mm)

## WORKING TEMPERATURE (°C)

## COEFFICIENT OF FRICTION\* (CoF)

## MIN. PULLEY DIAMETER

## WATER RESISTANCE

## ABRASION RESISTANCE

## OIL RESISTANCE\*\*

## FEATURES/BENEFITS

## FOOD CONTACT APPROVED

## FDA APPROVED

## EU REGULATIONS

ITALY



PU

60

CO-EXTRUSION

2/3/4

+/- 0.3

-20 /+80

0.65

x 40

● ● ● ○

● ● ● ○

● ● ● ○

High-friction on smooth and dry surfaces. Available in different colour under respecting a MOQ.

No

ITALY



PU

70

CO-EXTRUSION

2/3/4

+/- 0.3

-20 /+80

0.65

x 40

● ● ● ●

● ● ● ○

● ● ○ ○

High-friction on smooth and dry surfaces. Available in different colour under respecting a MOQ.

No

ITALY, USA



PU

85

CO-EXTRUSION

2/3/4

+/- 0.3

-20 /+80

0.60

x 40

● ● ● ○

● ● ● ●

● ● ● ○

Very good wear-resistance. Suitable for conveying sharp-edged materials.

No

## INDUSTRIES



ENGINEERED &  
SPECIALTY BELTS



# COVERS: POLYURETHANE

## PU FISHBONE

## PU RIBBED

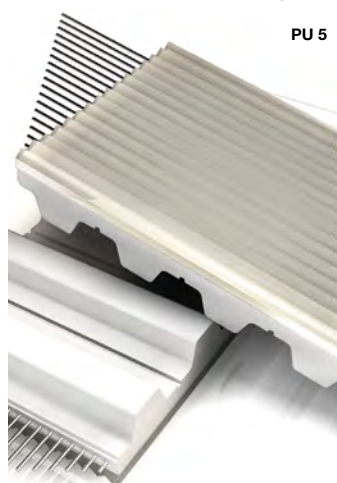
## NP 385



PU 4



PU 5



PU 6



SOURCE LOCATION
COLOURS
RAW MATERIAL
HARDNESS (ShA)
COVER AND BELT COHESION METHOD
STANDARD COVER THICKNESS RANGE (mm)
TOLERANCE COVER THICKNESS (mm)
WORKING TEMPERATURE (°C)
COEFFICIENT OF FRICTION* (CoF)
MIN. PULLEY DIAMETER
WATER RESISTANCE
ABRASION RESISTANCE
OIL RESISTANCE**
FEATURES/BENEFITS
FOOD CONTACT APPROVED
FDA APPROVED
EU REGULATIONS

ITALY, USA



PU

70

CO-EXTRUSION

4.3

+/- 0.5

-20 /+80

0.60

x 30



Suitable for wet environments where friction and drainage are necessary.

No

ITALY, USA



PU

70

CO-EXTRUSION

2.7

+/- 0.5

-20 /+80

0.60

x 35



Reduced contact point for conveying smooth products. Allows drain of liquids.

No

ITALY



PU

85

CO-EXTRUSION

4

+/- 0.3

-20 /+80

0.60

x 40



For oily conveyor conditions. Contact only on top of the Noppen.

No

## INDUSTRIES



ENGINEERED &  
SPECIALTY BELTS

Please contact Megadyne or your local partner distributor to obtain more information about our materials, processes, minimum quantities and delivery times.





# COVERS: POLYURETHANE

## RED GRIP

## APL

## WHITE GRIP



### SOURCE LOCATION

### COLOURS

### RAW MATERIAL

### HARDNESS (SHA)

### COVER AND BELT COHESION METHOD

### STANDARD COVER THICKNESS RANGE (mm)

### TOLERANCE COVER THICKNESS (mm)

### WORKING TEMPERATURE (°C)

### COEFFICIENT OF FRICTION\* (CoF)

### MIN. PULLEY DIAMETER

### WATER RESISTANCE

### ABRASION RESISTANCE

### OIL RESISTANCE\*\*

### FEATURES/BENEFITS

### FOOD CONTACT APPROVED

### FDA APPROVED

### EU REGULATIONS

ITALY



PU/SYNTHETIC RUBBER

63 +/-4

CO-EXTRUSION

1 to 8

+/- 0.3

-20 /+60

0.70

x 30

● ● ● ○

● ● ● ●

● ● ● ●

Seamless alternative to Natural Rubber.  
Only available on MEGAFLEX.

NO

ITALY



PU/PVC

55

CO-EXTRUSION

3.5

+/- 0.3

-20 /+60

0.70

x 30

● ● ● ○

● ● ● ○

● ● ● ○

Seamless alternative to Natural Rubber.  
Blended elastomer offering high CoF,  
good oil resistance.

NO

USA



PU/PVC

55

CO-EXTRUSION

2/3/4

+/- 0.3

-20 /+80

0.65

x 40

● ● ● ○

● ● ● ○

● ● ● ○

High-friction on  
smooth and dry surfaces. Seamless  
alternative to Natural Rubber.

NO

### INDUSTRIES



ENGINEERED &  
SPECIALTY BELTS

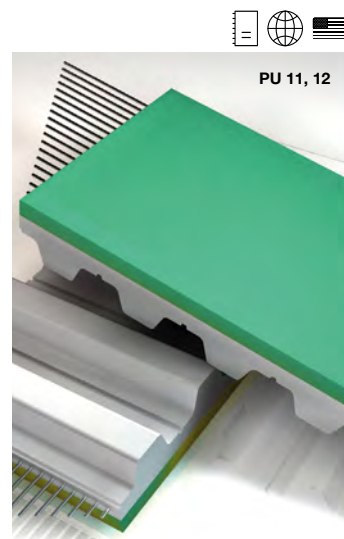
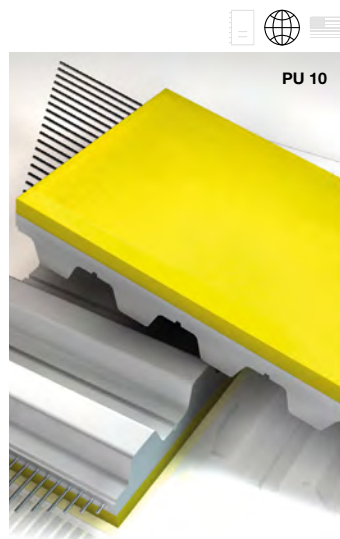
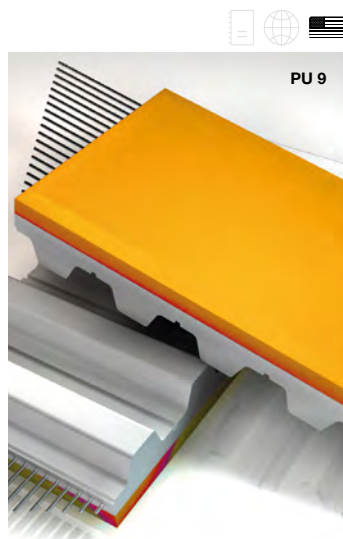


# COVERS: POLYURETHANE

## ORANGE COVER

## Z-COVER

## GREEN MILLABLE URETHANE 40, 50, 60, 70, 85



### SOURCE LOCATION

### COLOURS

### RAW MATERIAL

### HARDNESS (ShA)

### COVER AND BELT COHESION METHOD

### STANDARD COVER THICKNESS RANGE (mm)

### TOLERANCE COVER THICKNESS (mm)

### WORKING TEMPERATURE (°C)

### COEFFICIENT OF FRICTION\* (CoF)

### MIN. PULLEY DIAMETER

### WATER RESISTANCE

### ABRASION RESISTANCE

### OIL RESISTANCE\*\*

### FEATURES/BENEFITS

### FOOD CONTACT APPROVED

### FDA APPROVED

### EU REGULATIONS

USA



PU

42

CO-EXTRUSION

3/6/9

+/- 0.3

-25 /+65

0.80

x 20

● ● ● ○

● ● ● ○

● ● ● ○

Cover offering high-grip,  
good wear, and oil resistance.  
Available on MEGAFLEX only.

NO

ITALY, USA



PU

56

CO-EXTRUSION

3/6

+/- 0.3

-25 /+70

0.60

x 25

● ● ● ○

● ● ● ○

● ● ● ○

High-density, high CoF PU foam with  
good resistance to oil, and abrasion.

NO

USA



MILLABLE URETHANE

40

50

60

70

85

MOLDING

2.4 to 14

+/- 0.3

-20 /+80

0.60

0.55

x 30

x 35

x 40

● ● ● ○

● ● ● ●

● ● ● ○

Very good abrasion resistance with  
a high CoF. Commonly used in the  
Cable and Wire Industry.

NO

### INDUSTRIES



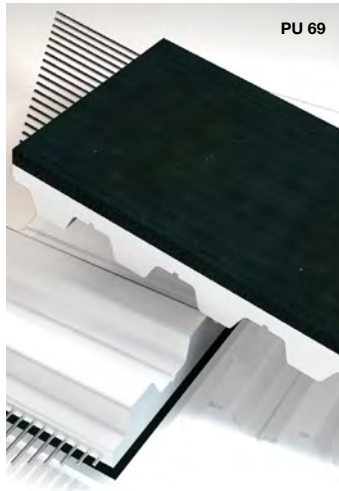
ENGINEERED &  
SPECIALTY BELTS

Please contact Megadyne or your local partner distributor to obtain more information about our materials, processes, minimum quantities and delivery times.

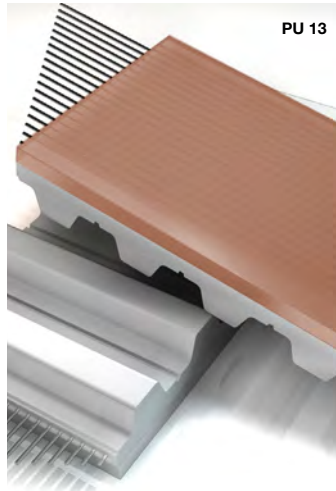


# COVERS: POLYURETHANE

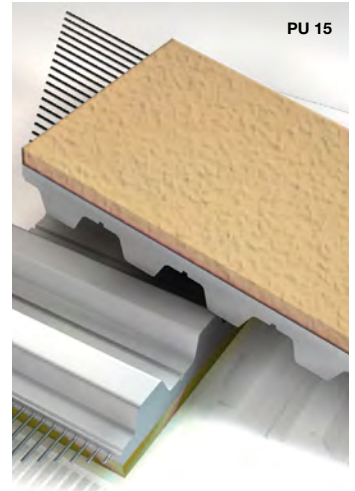
## BLACK MILLABLE URETHANE



## POLYTHAN D44



## CELLOFLEX



SOURCE LOCATION	USA	ITALY	ITALY, USA
COLOURS	●	○	●
RAW MATERIAL	MILLABLE URETHANE	PU	MICRO-CELLULAR PU
HARDNESS (ShA)	80	72	350 kg/m <sup>3</sup>
COVER AND BELT COHESION METHOD	MOLDING	LAMINATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	2.4 to 14	1 to 6	2 to 5
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-20 /+80	-10 /+60	-30 /+80
COEFFICIENT OF FRICTION* (CoF)	0.55	0.70	0.30
MIN. PULLEY DIAMETER	x 40	x 30	x 20
WATER RESISTANCE	●●●●	●●●○	●○○○
ABRASION RESISTANCE	●●●●	●●●○	●●○○
OIL RESISTANCE**	●●●○	●●●○	●○○○
FEATURES/BENEFITS	Very good abrasion and tear-resistance. Formulated with ingredients considered FDA safe.	Good resistance against Ozone and UV radiation. Cut resistance makes it a good option to convey sheets and panels of wood and glass.	Highly flexible, good shock absorption. Use to move sensitive and fragile products. Better resistance than sylomer foams.
FOOD CONTACT APPROVED	YES	NO	NO
FDA APPROVED	YES		
EU REGULATIONS			

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS



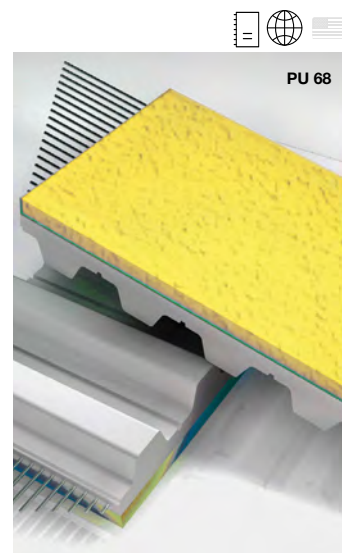
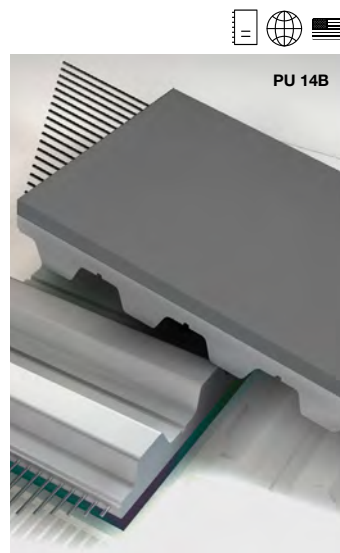
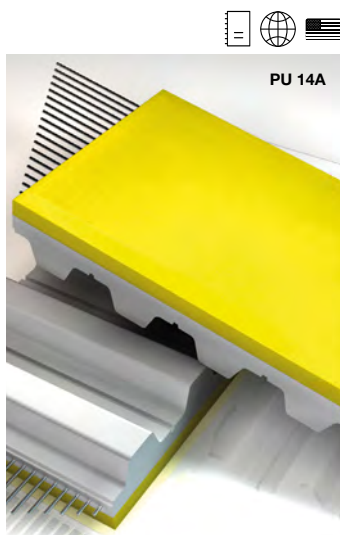


# COVERS: POLYURETHANE

## PU-YELLOW

## PU - GREY/RED

## SYLOMER YELLOW



SOURCE LOCATION	ITALY	ITALY	ITALY, USA
COLOURS			
RAW MATERIAL	TWO COMPONENT PU FOAM	TWO COMPONENT PU FOAM	PU Foam
HARDNESS (ShA)	SFT: 35-40, STD: 50, HARD: 60-70	SFT: 35-40, STD: 50, HARD: 60-70	150 kg/m <sup>3</sup>
COVER AND BELT COHESION METHOD	SEAMLESS SPRAYING - LAMINATION	SEAMLESS SPRAYING	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	1 to 10	1 to 10	1 to 12
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.3	+/- 0.25
WORKING TEMPERATURE (°C)	-10 /+60	-10 /+60	-30 /+70
COEFFICIENT OF FRICTION* (CoF)	0.40	0.40	0.50
MIN. PULLEY DIAMETER	x 25	x 25	Ø min. +TKx5(****)
WATER RESISTANCE	●●○○	●●○○	●●●○
ABRASION RESISTANCE	●●●●	●●●●	●○○○
OIL RESISTANCE**	●●●○	●●●○	●○○○
FEATURES/BENEFITS	Very good abrasion resistance and high-grip against paper. Good machineability for vacuum holes and other modifications.	Very good abrasion resistance and high-grip against paper. Good machineability for vacuum holes and other modifications.	High-dynamic load capacity for movement of light and sensitive parts.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS

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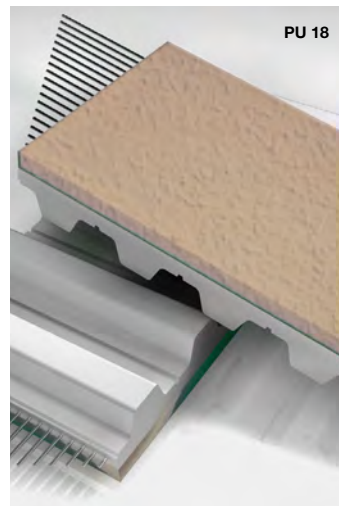
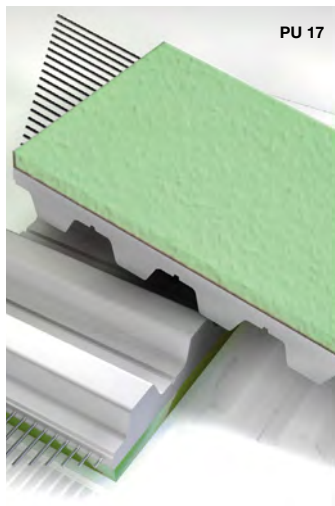
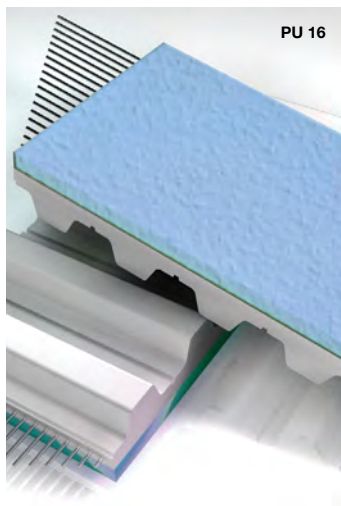


# COVERS: POLYURETHANE

## SYLOMER BLUE

## SYLOMER GREEN

## SYLOMER BROWN



SOURCE LOCATION	ITALY, USA	ITALY, USA	ITALY, USA
COLOURS	<span style="color: blue;">●</span>	<span style="color: green;">●</span>	<span style="color: brown;">●</span>
RAW MATERIAL	PU Foam	PU Foam	PU Foam
HARDNESS (ShA)	220 kg/m <sup>3</sup>	300 kg/m <sup>3</sup>	400 kg/m <sup>3</sup>
COVER AND BELT COHESION METHOD	LAMINATION	LAMINATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	2 to 20	2 to 20	1 to 12
TOLERANCE COVER THICKNESS (mm)	+/- 0.5	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-30 /+70	-30 /+70	-30 /+70
COEFFICIENT OF FRICTION* (CoF)	0.50	0.50	0.50
MIN. PULLEY DIAMETER	x 15	x 15	x 20
WATER RESISTANCE	●●●○	●●●○	●●●○
ABRASION RESISTANCE	●○○○	●○○○	●●○○
OIL RESISTANCE**	●○○○	●○○○	●○○○
FEATURES/BENEFITS	10 ShA offers high dynamic load capacity for handling of lightweight, fragile items.	15 ShA offers high dynamic load capacity for top pressure belts.	22 ShA, offers high dynamic load capacity for moving glass.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

## INDUSTRIES

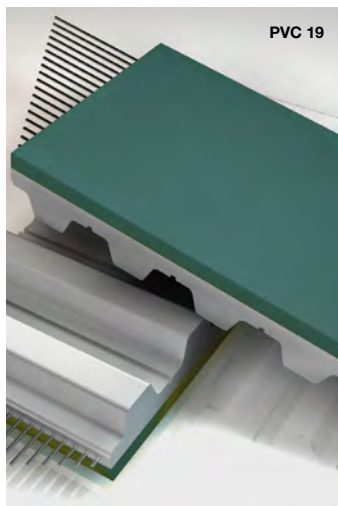


ENGINEERED &  
SPECIALTY BELTS



# COVERS: PVC

## PVC-FOIL BLUE



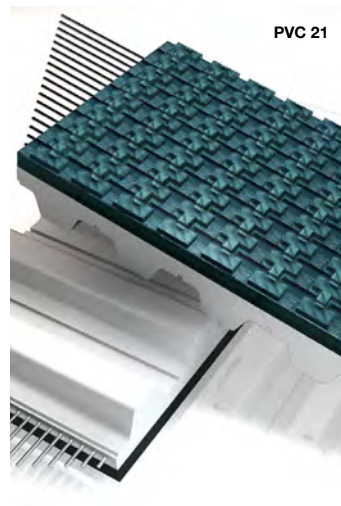
PVC 19

## PVC-FOIL WHITE



PVC 20

## SUPERGRIP PETROL



PVC 21

SOURCE LOCATION	ITALY, USA	ITALY, USA	ITALY, USA
COLOURS			
RAW MATERIAL	PVC	PVC	PVC
HARDNESS (ShA)	40	65	46
COVER AND BELT COHESION METHOD	LAMINATION	LAMINATION	CO-EXTRUSION - LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	2	2	4.5
TOLERANCE COVER THICKNESS (mm)	+/- 0.5	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-15 /+70	-20 /+100	-10 /+60
COEFFICIENT OF FRICTION* (CoF)	0.90	0.80	0.90
MIN. PULLEY DIAMETER	40 mm	60 mm	60 mm
WATER RESISTANCE	●●●○	●●●○	●●●○
ABRASION RESISTANCE	●●○○	●●●○	●●○○
OIL RESISTANCE**	●●●○	●●●●	●●●○
FEATURES/BENEFITS	Good adhesion characteristics due to good CoF and smooth surface for the conveyance of paper and foils, wood and plastics. Seamless weldable on ML and MFX.	Good adhesion characteristics due to good CoF and smooth surface. Resistant to acids and oils. Formulated with ingredients considered FDA safe. Seamless weldable on ML and MFX.	Applicable for slight height compensation, low shock absorption capabilities. Improved adhesion even with moisture and dirt for incline, feed and take-away conveying applications. Seamless weldable on ML and MFX.
FOOD CONTACT APPROVED	NO	YES	NO
FDA APPROVED		YES	
EU REGULATIONS		YES	

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS

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# COVERS: PVC

## SUPERGRIP WHITE



PVC 22



## PVC-SAWTOOTH



PVC 23



## PVC-NAPPED



PVC 24



SOURCE LOCATION	ITALY, USA	ITALY, USA	ITALY, USA
COLOURS	●	●	●
RAW MATERIAL	PVC	PVC	PVC
HARDNESS (ShA)	60	60 +/-4	65
COVER AND BELT COHESION METHOD	LAMINATION	LAMINATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	3.0	2.5	1.5
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-10 /+100	-15 /+70	-15 /+60
COEFFICIENT OF FRICTION* (CoF)	0.80	0.70	0.80
MIN. PULLEY DIAMETER	60 mm	60 mm	60 mm
WATER RESISTANCE	●●●○	●●●○	●●●○
ABRASION RESISTANCE	●●○○	●●○○	●●○○
OIL RESISTANCE**	●●●●	●●●●	●●●●
FEATURES/BENEFITS	Characteristics same as Supergrip petrol but less flexible. For the conveyance of food. Resistant against acids and bases.	FDA clear pattern for improved adhesion under wet conditions. Line contact, resistant against acids and bases.	Thin cover offers good CoF, even in wet conditions. Resistant to acids and oils. Formulated with FDA materials.
FOOD CONTACT APPROVED	YES	YES	YES
FDA APPROVED	YES	YES	YES
EU REGULATIONS	YES	YES	YES

## INDUSTRIES



ENGINEERED &  
SPECIALTY BELTS



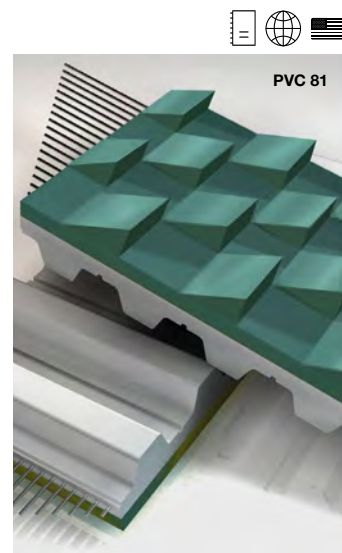
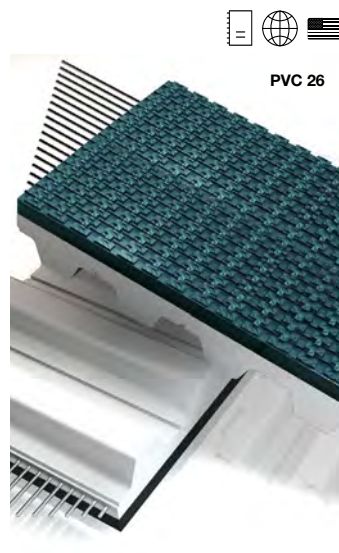


# COVERS: PVC

## PVC FISHBONE

## MINIGRIP GREEN

## STAGGERED SAWTOOTH



SOURCE LOCATION	ITALY	ITALY, USA	ITALY, USA
COLOURS	●	●	●
RAW MATERIAL	PVC	PVC	PVC
HARDNESS (ShA)	65	60	46
COVER AND BELT COHESION METHOD	LAMINATION	CO-EXTRUSION - LAMINATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	3	1.3	8
TOLERANCE COVER THICKNESS (mm)	+/- 0.5	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-15 /+90	-10 /+70	-20 /+70
COEFFICIENT OF FRICTION* (CoF)	0.60	0.70	0.90
MIN. PULLEY DIAMETER	x 30	30 mm	60 mm
WATER RESISTANCE	●●●○	●●●○	●●●○
ABRASION RESISTANCE	●●●○	●●○○	●●●○
OIL RESISTANCE**	●●●●	●●●○	●●●○
FEATURES/BENEFITS	Improved CoF in wet conditions. Narrow belts may only have a single diagonal-cut profile. Resistant to acids and oils. Formulated with FDA materials.	Thin cover structure with very good friction in wet or dusty conditions - reduces frictional stick. Resistant to acids and oils.	Very good CoF for gripping and incline conveying. Resistant to acids and oils.
FOOD CONTACT APPROVED	YES	NO	NO
FDA APPROVED	YES		
EU REGULATIONS	YES		

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS

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# COVERS: NATURAL RUBBER

## LINATEX™ RED

## LINARD

## LINAPLUS FG



SOURCE LOCATION	ITALY, USA		USA
COLOURS	●		
RAW MATERIAL	NATURAL RUBBER		
HARDNESS (ShA)	38		40
COVER AND BELT COHESION METHOD	LAMINATION		VULCANIZATION
STANDARD COVER THICKNESS RANGE (mm)	1 to 10		3 to 12, 7
TOLERANCE COVER THICKNESS (mm)	+/- 1(***)		
WORKING TEMPERATURE (°C)	-40 /+70		
COEFFICIENT OF FRICTION* (CoF)	0.90		
MIN. PULLEY DIAMETER	x 20		
WATER RESISTANCE	●●●○		
ABRASION RESISTANCE	●●●○		
OIL RESISTANCE**	●○○○		
FEATURES/BENEFITS	Cover offers high CoF, good wear resistance, good in wet conditions but poor in oil. Common used as discharge belts for use in vacuum VFFS.		
FOOD CONTACT APPROVED	NO		
FDA APPROVED			
EU REGULATIONS			

SOURCE LOCATION	ITALY, USA		
COLOURS	●		
RAW MATERIAL	NATURAL RUBBER		
HARDNESS (ShA)	60		
COVER AND BELT COHESION METHOD	LAMINATION		
STANDARD COVER THICKNESS RANGE (mm)	1 to 6		
TOLERANCE COVER THICKNESS (mm)	+/- 1(***)		
WORKING TEMPERATURE (°C)	-30 /+70		
COEFFICIENT OF FRICTION* (CoF)	0.60		
MIN. PULLEY DIAMETER	x 30		
WATER RESISTANCE	●●●○		
ABRASION RESISTANCE	●●●○		
OIL RESISTANCE**	●●○○		
FEATURES/BENEFITS	Cover with high abrasion resistance but less adhesion in comparison to LINATEX™ (RU 27).		
FOOD CONTACT APPROVED	NO		
FDA APPROVED			
EU REGULATIONS			

SOURCE LOCATION	ITALY, USA		
COLOURS	●		
RAW MATERIAL	NATURAL RUBBER		
HARDNESS (ShA)	38		
COVER AND BELT COHESION METHOD	LAMINATION		
STANDARD COVER THICKNESS RANGE (mm)	1 to 3		
TOLERANCE COVER THICKNESS (mm)	+/- 1(***)		
WORKING TEMPERATURE (°C)	-40 /+70		
COEFFICIENT OF FRICTION* (CoF)	0.75		
MIN. PULLEY DIAMETER	x 25		
WATER RESISTANCE	●●●○		
ABRASION RESISTANCE	●●○○		
OIL RESISTANCE**	●○○○		
FEATURES/BENEFITS	High CoF white non-marking natural rubber material. Formulated with FDA materials.		
FOOD CONTACT APPROVED	YES		
FDA APPROVED	YES		
EU REGULATIONS	YES		

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS



# COVERS: NATURAL RUBBER

## LINATRILE

## RP 400 YELLOW

## CORREX BEIGE



SOURCE LOCATION	ITALY, USA	ITALY	ITALY
COLOURS			
RAW MATERIAL	POLYMER NBR	CAOUTCHOUC (Natural Rubber)	NATURAL RUBBER
HARDNESS (ShA)	55	38	36
COVER AND BELT COHESION METHOD	LAMINATION	LAMINATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	1 to 10	2 to 6	2 to 6
TOLERANCE COVER THICKNESS (mm)	+/- 1(***)	+/- 0.5	+/- 0.5
WORKING TEMPERATURE (°C)	-20 /+110	-10 /+80	-10 /+70
COEFFICIENT OF FRICTION* (CoF)	0.70	0.80	0.70
MIN. PULLEY DIAMETER	x 25	x 20	x 20
WATER RESISTANCE	●●●○	●●●○	●●○○
ABRASION RESISTANCE	●●●○	●●●○	●●●○
OIL RESISTANCE**	●●●○	●○○○	●○○○
FEATURES/BENEFITS	Improved temperature, oil, grease and aging resistance compared to natural rubber. Good mechanical processing capability vacuum transport of oil-covered sheets.	Cover has fine fabric texture, characteristics similar to Natural Rubber but higher abrasion resistance.	Cover offers high CoF and high wear resistant features. Black contact layer.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

## INDUSTRIES



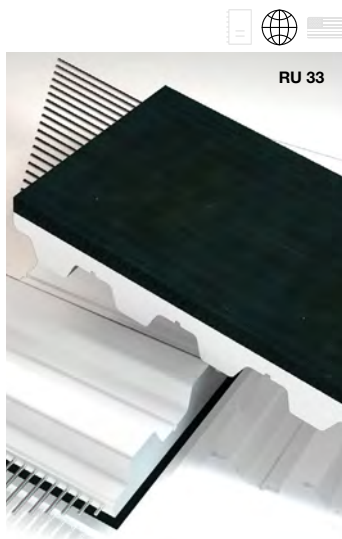
## ENGINEERED & SPECIALTY BELTS

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# COVERS: NATURAL RUBBER

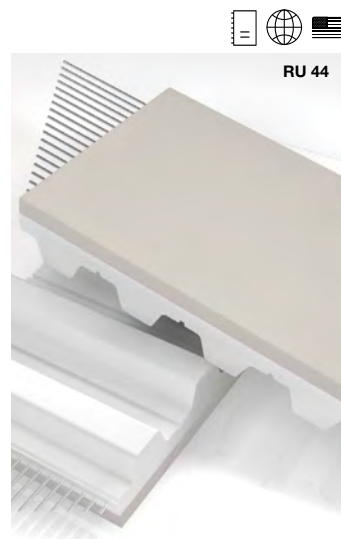
## CORREX BLACK



## GUMMY CORREX AMBRA PARABLOND



## TAN NATURAL RUBBER 40



SOURCE LOCATION	ITALY	ITALY	USA
COLOURS	●	●	●
RAW MATERIAL	NATURAL RUBBER	NATURAL RUBBER	NATURAL RUBBER
HARDNESS (ShA)	60	48	40
COVER AND BELT COHESION METHOD	LAMINATION	VULCANIZATION	VULCANIZATION
STANDARD COVER THICKNESS RANGE (mm)	2 to 6	0.8 to 15	2.4 to 14
TOLERANCE COVER THICKNESS (mm)	+/- 0.5	+/- 0.3	+/- 0.3
WORKING TEMPERATURE (°C)	-10 /+70	-20 /+60	-20 /+80
COEFFICIENT OF FRICTION* (CoF)	0.60	0.60	0.60
MIN. PULLEY DIAMETER	x 30	x 30	x 20
WATER RESISTANCE	●●○○	●●●●	●●●○
ABRASION RESISTANCE	●●●○	●●●●	●●●○
OIL RESISTANCE**	●○○○	●○○○	●○○○
FEATURES/BENEFITS	Cover offers good abrasion resistance and lower friction than Correx Beige (RU 32).	Cover offers high CoF and higher abrasion resistance than other Natural Rubber compounds.	Cover offers non marking high CoF surface. Average wear and tear and abrasion resistance.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

## INDUSTRIES



ENGINEERED &  
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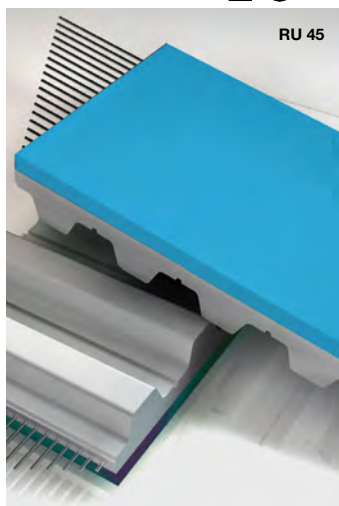


# COVERS: NATURAL RUBBER

## BLUE ANTI GLAZE NATURAL RUBBER

## DURATAQ™

## RED NATURAL RUBBER 40



<b>SOURCE LOCATION</b>	USA
<b>COLOURS</b>	●
<b>RAW MATERIAL</b>	NATURAL RUBBER
<b>HARDNESS (ShA)</b>	40
<b>COVER AND BELT COHESION METHOD</b>	VULCANIZATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	2.4 to 14
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-20 /+80
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.55
<b>MIN. PULLEY DIAMETER</b>	x 20
<b>WATER RESISTANCE</b>	●●●○
<b>ABRASION RESISTANCE</b>	●●●○
<b>OIL RESISTANCE**</b>	●○○○
<b>FEATURES/BENEFITS</b>	Cover offers a high CoF and good wear resistance. Anti glazing characteristic predestined for high speed paper feeder.
<b>FOOD CONTACT APPROVED</b>	NO
<b>FDA APPROVED</b>	
<b>EU REGULATIONS</b>	

<b>SOURCE LOCATION</b>	USA
<b>COLOURS</b>	●
<b>RAW MATERIAL</b>	NATURAL RUBBER
<b>HARDNESS (ShA)</b>	45
<b>COVER AND BELT COHESION METHOD</b>	VULCANIZATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	2.4 to 14
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-20 /+100
<b>COEFFICIENT OF FRICTION* (CoF)</b>	1.10
<b>MIN. PULLEY DIAMETER</b>	x 20
<b>WATER RESISTANCE</b>	●●●○
<b>ABRASION RESISTANCE</b>	●●●●
<b>OIL RESISTANCE**</b>	●○○○
<b>FEATURES/BENEFITS</b>	A premium Natural Rubber compound offering a custom blended proprietary rubber which has a high CoF and very good abrasion resistance.
<b>FOOD CONTACT APPROVED</b>	NO
<b>FDA APPROVED</b>	
<b>EU REGULATIONS</b>	

<b>SOURCE LOCATION</b>	USA
<b>COLOURS</b>	●
<b>RAW MATERIAL</b>	NATURAL RUBBER
<b>HARDNESS (ShA)</b>	40
<b>COVER AND BELT COHESION METHOD</b>	VULCANIZATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	2.4 to 14
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-20 /+80
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.50
<b>MIN. PULLEY DIAMETER</b>	x 20
<b>WATER RESISTANCE</b>	●●●○
<b>ABRASION RESISTANCE</b>	●●○○
<b>OIL RESISTANCE**</b>	●○○○
<b>FEATURES/BENEFITS</b>	Cover offering low durometer ShA and very good high friction.
<b>FOOD CONTACT APPROVED</b>	NO
<b>FDA APPROVED</b>	
<b>EU REGULATIONS</b>	

<b>SOURCE LOCATION</b>	USA
<b>COLOURS</b>	●
<b>RAW MATERIAL</b>	NATURAL RUBBER
<b>HARDNESS (ShA)</b>	40
<b>COVER AND BELT COHESION METHOD</b>	VULCANIZATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	2.4 to 14
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-20 /+80
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.50
<b>MIN. PULLEY DIAMETER</b>	x 20
<b>WATER RESISTANCE</b>	●●●○
<b>ABRASION RESISTANCE</b>	●●○○
<b>OIL RESISTANCE**</b>	●○○○
<b>FEATURES/BENEFITS</b>	Cover offering low durometer ShA and very good high friction.
<b>FOOD CONTACT APPROVED</b>	NO
<b>FDA APPROVED</b>	
<b>EU REGULATIONS</b>	

### INDUSTRIES



## ENGINEERED & SPECIALTY BELTS

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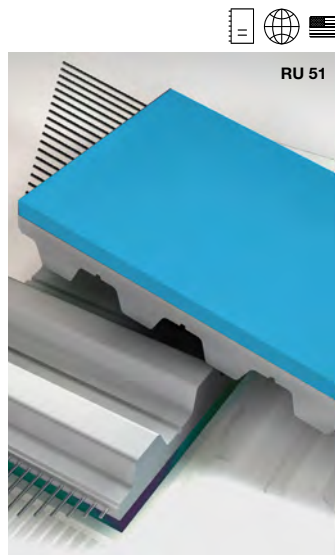


# COVERS: NATURAL RUBBER

## RED NATURAL RUBBER 60

## BLUE NATURAL RUBBER 55

## TENAX 40



SOURCE LOCATION	USA	USA	ITALY
COLOURS	<span style="color: red;">●</span>	<span style="color: blue;">●</span>	<span style="color: red;">●</span>
RAW MATERIAL	NATURAL RUBBER	NATURAL RUBBER	NATURAL RUBBER
HARDNESS (ShA)	60	55	40
COVER AND BELT COHESION METHOD	VULCANIZATION	VULCANIZATION	VULCANIZATION
STANDARD COVER THICKNESS RANGE (mm)	2.4 to 14	2.4 to 14	0.8 to 15
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.3	+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+100	-20 /+80	-20 /+60
COEFFICIENT OF FRICTION* (CoF)	0.50	0.40	0.75
MIN. PULLEY DIAMETER	x 30	x 25	x 30
WATER RESISTANCE	●●●○	●●●○	●●●●
ABRASION RESISTANCE	●●●○	●●●○	●●●●
OIL RESISTANCE**	●○○○	●○○○	●○○○
FEATURES/BENEFITS	Covers offering good friction and good abrasion resistance. Higher abrasion resistance than Natural Rubber 40	Cover offering high CoF, good wear resistance, very good water resistance.	Cover is a seamless alternative to other Natural Rubber compounds. Slightly softer than Tenax Standard with higher grip.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

### INDUSTRIES



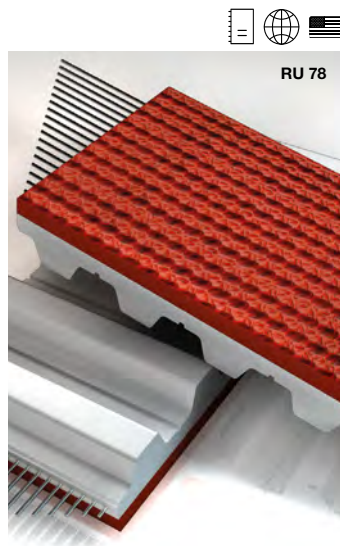
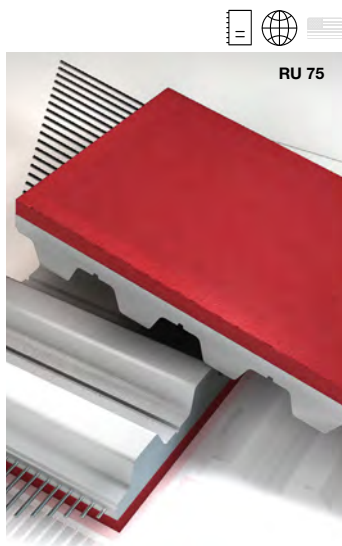
ENGINEERED &  
SPECIALTY BELTS



# COVERS: NATURAL RUBBER

## TENAX STANDARD

## HONEYCOMB



SOURCE LOCATION	ITALY	ITALY, USA
COLOURS	●	●
RAW MATERIAL	NATURAL RUBBER	NATURAL RUBBER
HARDNESS (ShA)	45	50
COVER AND BELT COHESION METHOD	VULCANIZATION	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	0.8 to 15	4.5 to 15
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.5
WORKING TEMPERATURE (°C)	-20 /+60	-20 /+60
COEFFICIENT OF FRICTION* (CoF)	0.70	0.60
MIN. PULLEY DIAMETER	x 30	x 30
WATER RESISTANCE	●●●●	●●●●
ABRASION RESISTANCE	●●●●	●●●●
OIL RESISTANCE**	●○○○	●○○○
FEATURES/BENEFITS	Cover is slightly harder than Tenax 40, but offers very good abrasion resistance.	Cover offering high-friction rough top surface, applicable for slight height compensation, low shock absorption capabilities. Improved adhesion even with moisture and dirt for use on lower angle incline product movement.
FOOD CONTACT APPROVED	NO	NO
FDA APPROVED		
EU REGULATIONS		

## INDUSTRIES



## ENGINEERED & SPECIALTY BELTS

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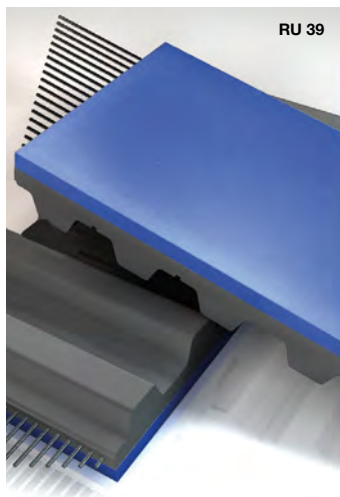


# COVERS: NATURAL RUBBER

## BLUE GRIP

## LOW DURO NR R34

## YELLOW GUM R14



RU 39



RU 83



RU 41

SOURCE LOCATION	SPAIN	SPAIN	SPAIN
COLOURS	<span style="color: blue;">●</span>	<span style="color: red;">●</span>	<span style="color: yellow;">●</span>
RAW MATERIAL	NR / BR	NATURAL RUBBER	NATURAL RUBBER
HARDNESS (ShA)	57	35-45	35-45
COVER AND BELT COHESION METHOD	ONE SHOT CURING	TWO SHOT CURING	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	<=12.5 (*)	1.0 to 13	1.6 to 12
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.3	+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+80	-25 /+80	-25 /+80
COEFFICIENT OF FRICTION* (CoF)	0.80	0.70	0.80
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)	Ø min. +TKx5(****)	Ø min. +TKx5(****)
WATER RESISTANCE	●●○○	●●●○	●●●○
ABRASION RESISTANCE	●●●●	●●●●	●●●●
OIL RESISTANCE**	●●○○	●○○○	●○○○
FEATURES/BENEFITS	Very good wear resistance. Alternative to Natural Rubber. Only available on rubber base belts.	Non marking compound for applications requiring, high coefficient of friction. Excellent abrasion resistance. Very good tear resistance. Low hysteresis. Only available on rubber base belts.	Cover offers high CoF, very good wear resistance. Compound common used in indexing, corrugating, positioning and packaging applications. Only available on rubber base belts.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

## INDUSTRIES



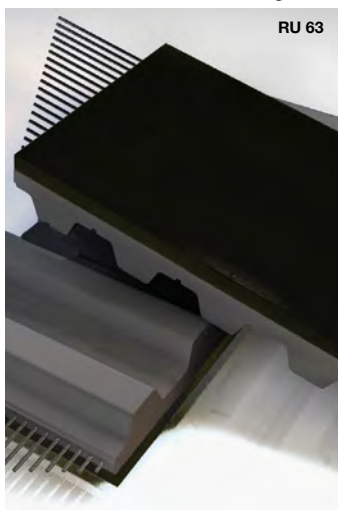
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# COVERS: NATURAL RUBBER

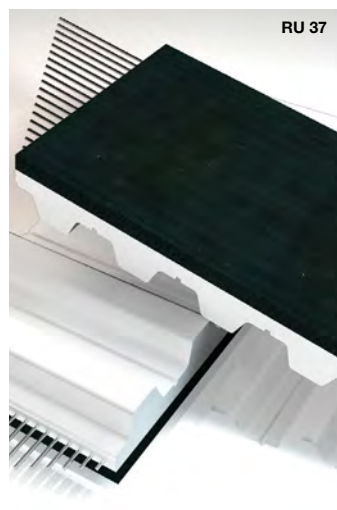
## LOW DURO BLACK NEOPRENE R35



## ORANGE NATURAL RUBBER R66



## POROL BLACK



SOURCE LOCATION	SPAIN	SPAIN	ITALY, USA
COLOURS	●	●	●
RAW MATERIAL	NATURAL RUBBER	NATURAL RUBBER	NATURAL CELLULAR RUBBER FOAM
HARDNESS (ShA)	40-50	42-48	290 kg/m <sup>3</sup>
COVER AND BELT COHESION METHOD	ONE SHOT CURING	TWO SHOT CURING	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	1.0 to 13	1.0 to 13	2 to 20
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.3	+/- 0.5
WORKING TEMPERATURE (°C)	-20 /+85	-30 /+80	-40 /+70
COEFFICIENT OF FRICTION* (CoF)	0.55	0.72	1.2
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)	Ø min. +TKx5(****)	x 15
WATER RESISTANCE	●●●○	●●●○	●●●●
ABRASION RESISTANCE	●●○○	●●●○	●●○○
OIL RESISTANCE**	●●●○	●○○○	●●○○
FEATURES/BENEFITS	Cover offering high-friction, non-marking feature. Only available on rubber base belts.	Cover is an alternative to DURATAQ™ offering a custom blended proprietary rubber which has a high CoF, and very good abrasion resistance. Only available on rubber base belts.	Cover is closed cell, soft elastic cellular rubber with good wear resistance. On request with Nylon cover for bottle descrambling.
FOOD CONTACT APPROVED	NO	NO	NO
FDA APPROVED			
EU REGULATIONS			

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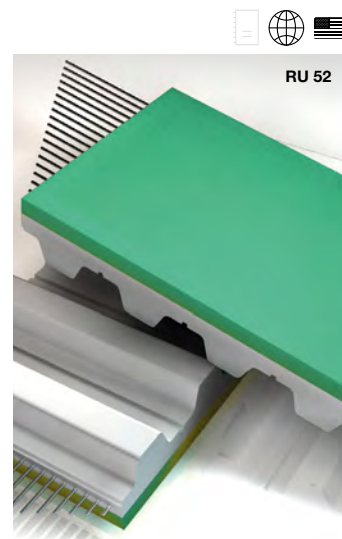


# COVERS: NITRILE-NEOPRENE

## NBR

## WHITE NITRILE

## GREEN NITRILE 55



SOURCE LOCATION	ITALY, USA		USA	USA
COLOURS	<div><div></div><div></div></div>		<div><div></div></div>	<div><div></div></div>
RAW MATERIAL	NITRILE CAOUTCHOUC			CARBOXILATED NITRILE
HARDNESS (ShA)	50	65	70	40
COVER AND BELT COHESION METHOD	LAMINATION	VULCANIZATION		VULCANIZATION
STANDARD COVER THICKNESS RANGE (mm)	2 to 6	0.8 to 15		2.4 to 14
TOLERANCE COVER THICKNESS (mm)	+/- 0.5	+/- 0.3		+/- 0.3
WORKING TEMPERATURE (°C)	-35 /+70	0 /+120		-20 /+120
COEFFICIENT OF FRICTION* (CoF)	0.70	0.60		0.70
MIN. PULLEY DIAMETER	x 30	x 35		x 25
WATER RESISTANCE	<div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div></div>		<div><div></div><div></div><div></div><div></div></div>
ABRASION RESISTANCE	<div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div></div>		<div><div></div><div></div><div></div><div></div></div>
OIL RESISTANCE**	<div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div></div>		<div><div></div><div></div><div></div><div></div></div>
FEATURES/BENEFITS	Cover offers improved oil and grease resistance compared to natural rubber.			Cover offering the benefit high-friction and good wear resistance. Very good oil resistance by moderate temperature up to +120° C offers a wide range of applications.
FOOD CONTACT APPROVED	NO			YES
FDA APPROVED				YES
EU REGULATIONS				YES
				Cover offering high CoF and moderate abrasion / water / oil resistance in ambient temperatures.
				NO

## INDUSTRIES



ENGINEERED &  
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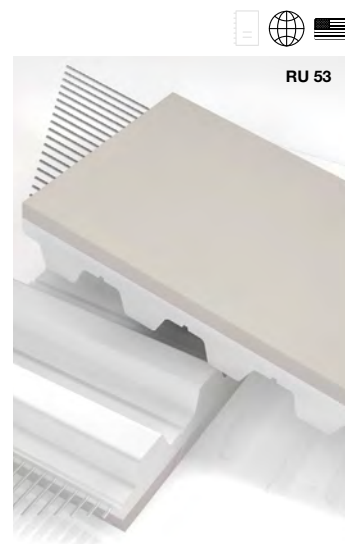
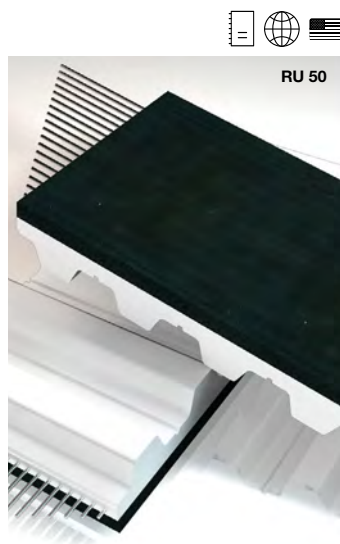


# COVERS: NITRILE-NEOPRENE

## 65 DURO RED NITRILE/PVC

## BLACK NEOPRENE

## TAN NEOPRENE 55



<b>SOURCE LOCATION</b>	SPAIN		ITALY, USA		USA
<b>COLOURS</b>					
<b>RAW MATERIAL</b>	NITRILE - PVC		NEOPRENE		NEOPRENE
<b>HARDNESS (ShA)</b>	63-70		50	70	55
<b>COVER AND BELT COHESION METHOD</b>	ONE SHOT CURING		LAMINATION	VULCANIZATION	VULCANIZATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	1.6 to 12		3 to 12	0.8 to 15	2.4 to 14
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3		+/- 0.3		+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-10 /+110		-20 /+60	-10 /+100	-20 /+120
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.80		0.60		1.60
<b>MIN. PULLEY DIAMETER</b>	Ø min. +TKx5(****)		x 30		x 30
<b>WATER RESISTANCE</b>	● ● ● ○		● ● ● ○		● ● ● ○
<b>ABRASION RESISTANCE</b>	● ● ○ ○		● ● ● ○		● ● ● ○
<b>OIL RESISTANCE**</b>	● ● ● ●		● ● ● ○		● ● ● ○
<b>FEATURES/BENEFITS</b>	Cover offers a blended compound feature and provides good CoF, along with good oil resistance. Only available on rubber base belts.		Cover offers high CoF and moderate abrasion/water/oil resistance in ambient temperatures.		Cover offers high CoF and good wear resistance.
<b>FOOD CONTACT APPROVED</b>	NO		NO		YES
<b>FDA APPROVED</b>					YES
<b>EU REGULATIONS</b>					

### INDUSTRIES



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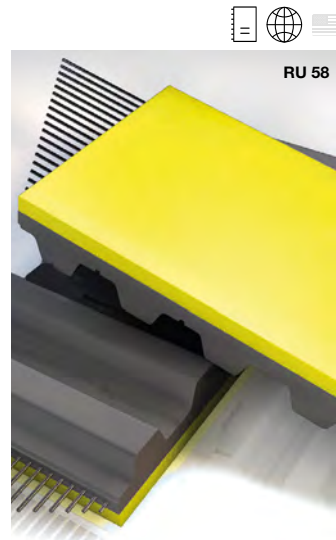
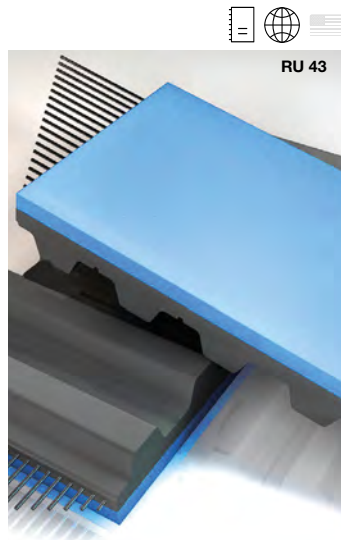


# COVERS: POLYCHLOROPRENE

## BLUE FDA NEOPRENE 65

## YELLOW NEOPRENE R15

## HIGH DURO NEOPRENE R18



SOURCE LOCATION	SPAIN	SPAIN	SPAIN
COLOURS			
RAW MATERIAL	POLYCHLOROPRENE	POLYCHLOROPRENE	POLYCHLOROPRENE
HARDNESS (ShA)	63-73	35-45	70-80
COVER AND BELT COHESION METHOD	ONE SHOT CURING	ONE SHOT CURING	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	1.6 to 12	1.0 to 13	1.0 to 13
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 0.3	+/- 0.3
WORKING TEMPERATURE (°C)	-35 /+105	-25 /+80	-20 /+80
COEFFICIENT OF FRICTION* (CoF)	0.80	0.65	0.60
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)	Ø min. +TKx5(****)	Ø min. +TKx5(****)
WATER RESISTANCE	●●●○	●●●○	●●●○
ABRASION RESISTANCE	●●●●	●●●○	●●●○
OIL RESISTANCE**	●●●○	●●●○	●●●○
FEATURES/BENEFITS	Cover offers good resistance to weather and ozone environments. Self extinguishing. Good resistance to acid solutions. Formulated with FDA materials. Only available on rubber base belts.	Cover offers a Neoprene alternative for applications requiring better resistance to heat, oils, greases, solvents. Only available on rubber base belts.	Cover offering a high ShA, black non-marking neoprene compound. Only available on rubber base belts.
FOOD CONTACT APPROVED	YES	NO	NO
FDA APPROVED	YES		
EU REGULATIONS			

## INDUSTRIES



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# COVERS: POLYCHLOROPRENE

## 50 DURO GRAY NEOPRENE R23

## 65 DURO GRAY NEOPRENE R24

## HIGH DURO PINK NEOPRENE R25



<b>SOURCE LOCATION</b>	SPAIN	SPAIN	SPAIN
<b>COLOURS</b>	●	●	●
<b>RAW MATERIAL</b>	POLYCHLOROPRENE	POLYCHLOROPRENE	POLYCHLOROPRENE
<b>HARDNESS (ShA)</b>	50-60	60-70	65-75
<b>COVER AND BELT COHESION METHOD</b>	ONE SHOT CURING	ONE SHOT CURING	ONE SHOT CURING
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	1.0 to 13	1.0 to 13	1.0 to 13
<b>TOLERANCE COVER THICKNESS (mm)</b>	+/- 0.3	+/- 0.3	+/- 0.3
<b>WORKING TEMPERATURE (°C)</b>	-25 /+80	-25 /+80	-20 /+90
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.65	0.65	0.60
<b>MIN. PULLEY DIAMETER</b>	Ø min. +TKx5(****)	Ø min. +TKx5(****)	Ø min. +TKx5(****)
<b>WATER RESISTANCE</b>	●●●○	●●●○	●●●○
<b>ABRASION RESISTANCE</b>	●●●○	●●●○	●●●○
<b>OIL RESISTANCE**</b>	●●●○	●●●○	●●●○
<b>FEATURES/BENEFITS</b>	Cover offering a medium ShA, non-marking compound, good heat resistance, CoF properties and colour stability. Only available on rubber base belts.	Cover offering medium ShA, non-marking compound. Formulated with FDA materials. Only available on rubber base belts.	Cover offering non-marking compound. Good friction properties and heat-resistance. Only available on rubber base belts.
<b>FOOD CONTACT APPROVED</b>	NO	YES	NO
<b>FDA APPROVED</b>		YES	
<b>EU REGULATIONS</b>			

### INDUSTRIES



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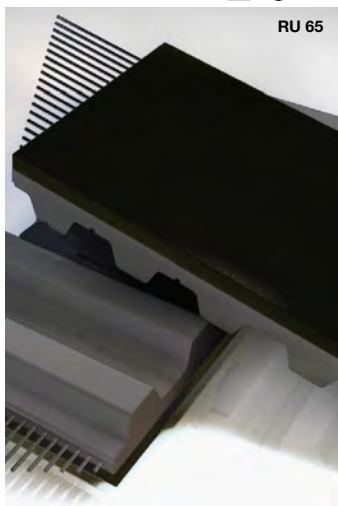
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# COVERS: POLYCHLOROPRENE

## STATIC DISSIPATING NEOPRENE ISEPO

## LOW DURO WHITE NEOPRENE R92



SOURCE LOCATION	SPAIN
COLOURS	●
RAW MATERIAL	POLYCHLOROPRENE
HARDNESS (ShA)	67-77
COVER AND BELT COHESION METHOD	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	1.0 to 13
TOLERANCE COVER THICKNESS (mm)	+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+80
COEFFICIENT OF FRICTION* (CoF)	0.60
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)
WATER RESISTANCE	●●●○
ABRASION RESISTANCE	●●●○
OIL RESISTANCE**	●●●○
FEATURES/BENEFITS	Cover used on belts requiring high conductivity. Compound exceed the ISO/ RMA classification for antistatic, static dissipating belts. Only available on rubber base belts.
FOOD CONTACT APPROVED	NO
FDA APPROVED	
EU REGULATIONS	

SOURCE LOCATION	SPAIN
COLOURS	●
RAW MATERIAL	POLYCHLOROPRENE
HARDNESS (ShA)	35-45
COVER AND BELT COHESION METHOD	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	1.0 to 10
TOLERANCE COVER THICKNESS (mm)	+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+90
COEFFICIENT OF FRICTION* (CoF)	0.65
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)
WATER RESISTANCE	●●●○
ABRASION RESISTANCE	●●●○
OIL RESISTANCE**	●●●○
FEATURES/BENEFITS	Cover offers low ShA non-marking compound, offers high CoF and good wear resistance. Formulated with FDA materials. Only available on rubber base belts.
FOOD CONTACT APPROVED	YES
FDA APPROVED	YES
EU REGULATIONS	

### INDUSTRIES

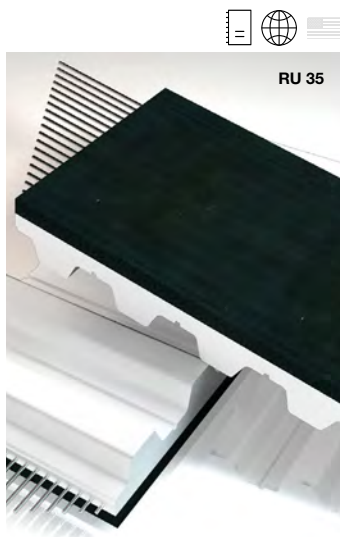


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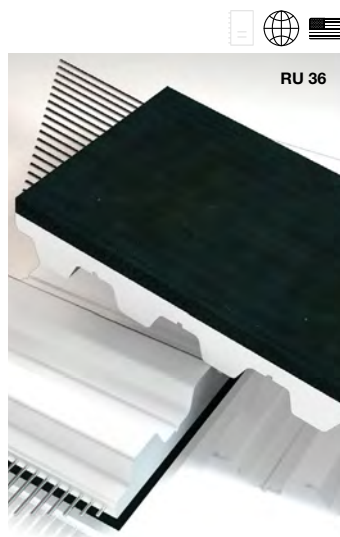


# COVERS: EPDM-VITON-SILICONE-HNBR

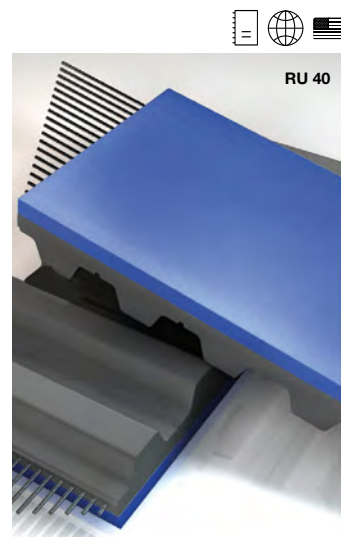
## EPDM



## VITON™ (KFM)



## HTX (SILBLUE)



SOURCE LOCATION	ITALY		SPAIN
COLOURS	●		●
RAW MATERIAL	ETHYLENE-PROPYLENE-DIENE-MONOMER		SILICONE
HARDNESS (ShA)	70		64
COVER AND BELT COHESION METHOD	LAMINATION		ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	2 to 5		< = 12(*)
TOLERANCE COVER THICKNESS (mm)	+/- 0.5		+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+120		0 /+175
COEFFICIENT OF FRICTION* (CoF)	1.10		1.60
MIN. PULLEY DIAMETER	x 35		Ø min. +TKx5(****)
WATER RESISTANCE	● ● ● ●		● ● ● ●
ABRASION RESISTANCE	● ○ ○ ○		● ● ○ ○
OIL RESISTANCE**	● ○ ○ ○		● ● ● ○
FEATURES/BENEFITS	Cover offers high-temperature range, good chemical and aging resistance.		Cover offers high-temperature and UV resistance. Non-marking compound common used in printing applications. Only available on rubber base belts.
FOOD CONTACT APPROVED	NO		NO
FDA APPROVED			
EU REGULATIONS			

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# COVERS: EPDM-VITON-SILICONE-HNBR

## 70 DURO GREY HNBR - HTG

## LEV-HT-4 (LEVAPREN®)



SOURCE LOCATION	SPAIN
COLOURS	●
RAW MATERIAL	HNBR
HARDNESS (ShA)	66-76
COVER AND BELT COHESION METHOD	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	1/10
TOLERANCE COVER THICKNESS (mm)	+/- 0.3
WORKING TEMPERATURE (°C)	-30 /+150
COEFFICIENT OF FRICTION* (CoF)	0.55
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)
WATER RESISTANCE	●●●○
ABRASION RESISTANCE	●●●○
OIL RESISTANCE**	●●●●
FEATURES/BENEFITS	Cover offers higher temperature applications where UV resistance is needed. Only available for 8M, H and T10 belt profiles. Only available on rubber base belts.
FOOD CONTACT APPROVED	NO
FDA APPROVED	
EU REGULATIONS	

SOURCE LOCATION	SPAIN
COLOURS	●
RAW MATERIAL	EVA
HARDNESS (ShA)	69-77
COVER AND BELT COHESION METHOD	ONE SHOT CURING
STANDARD COVER THICKNESS RANGE (mm)	1.0 - 10.0
TOLERANCE COVER THICKNESS (mm)	+/- 0.3
WORKING TEMPERATURE (°C)	-20 /+150
COEFFICIENT OF FRICTION* (CoF)	0.62
MIN. PULLEY DIAMETER	Ø min. +TKx5(****)
WATER RESISTANCE	●●●○
ABRASION RESISTANCE	●●●○
OIL RESISTANCE**	●●●●
FEATURES/BENEFITS	Cover offers higher temperature applications than HNBR and even better oil resistance.
FOOD CONTACT APPROVED	YES
FDA APPROVED	
EU REGULATIONS	

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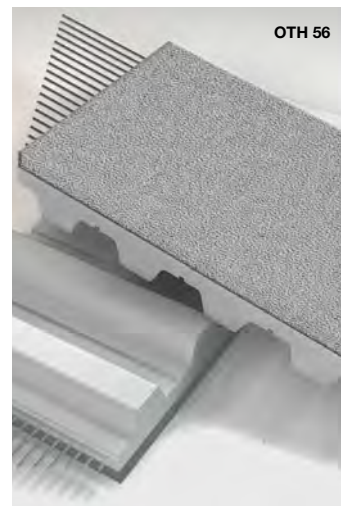
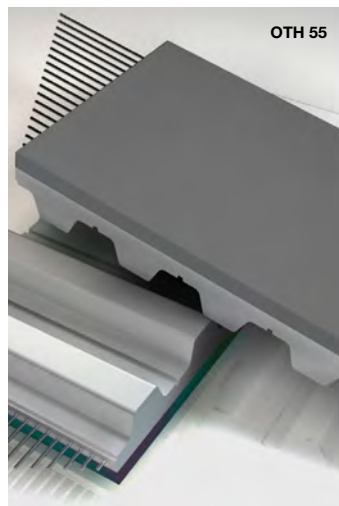
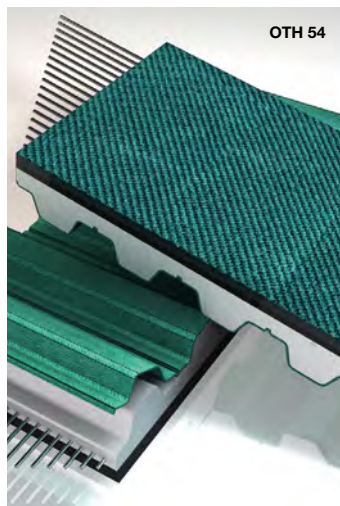


# COVERS: OTHER

## NFB/NFT

## TT60

## CHROME LEATHER



<b>SOURCE LOCATION</b>	ITALY	ITALY	ITALY, USA
<b>COLOURS</b>	● (antistatic)	● ●	●
<b>RAW MATERIAL</b>	NYLON FABRIC	FELT	LEATHER
<b>HARDNESS (ShA)</b>	—	—	65
<b>COVER AND BELT COHESION METHOD</b>	CO-EXTRUSION - LAMINATION	LAMINATION	LAMINATION
<b>STANDARD COVER THICKNESS RANGE (mm)</b>	0.15 - 0.6	2	2 to 3
<b>TOLERANCE COVER THICKNESS (mm)</b>	—	+/- 1.0	+/- 0.5
<b>WORKING TEMPERATURE (°C)</b>	-20 / +80	-10 / +120	0 / +60
<b>COEFFICIENT OF FRICTION* (CoF)</b>	0.25	0.40	0.40
<b>MIN. PULLEY DIAMETER</b>	According to the belt FEATURES	120 mm	x 50
<b>WATER RESISTANCE</b>	● ● ● ○	● ○ ○ ○	● ● ● ○
<b>ABRASION RESISTANCE</b>	● ● ○ ○	● ● ● ●	● ● ● ○
<b>OIL RESISTANCE**</b>	● ● ○ ○	● ● ○ ○	● ● ● ○
<b>FEATURES/BENEFITS</b>	NFT/NFB offers low friction for accumulation as well as low-noise benefits and is usually applied Co-extrusion on base belts. In this case the min. pulley diameters indicated for each belt type and pitch are valid. Antistatic version available.	Antistatic cover provides a soft, non-marking, and good oil resistance surface for moving sharp, oily surface parts. Works well downline in complement to Kevlar® for higher temperature conveying.	Cover has a roughened surface that offers very good oil / grease resistance and good cut resistance for moving sharp oily parts.
<b>FOOD CONTACT APPROVED</b>	NO	NO	NO
<b>FDA APPROVED</b>			
<b>EU REGULATIONS</b>			

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## ENGINEERED & SPECIALTY BELTS

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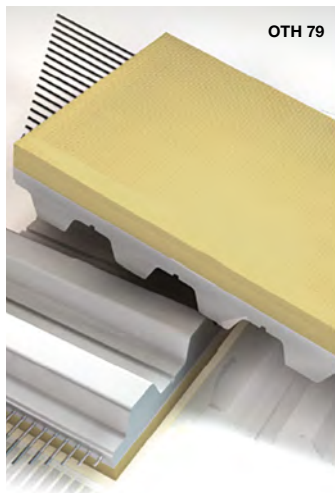
# COVERS: OTHER

## SILICONE

## KEVLAR® FELT



OTH 57



OTH 79

SOURCE LOCATION	ITALY, USA	ITALY, USA
COLOURS		
RAW MATERIAL	SILICONE	ARAMID
HARDNESS (ShA)	25 to 70	—
COVER AND BELT COHESION METHOD	—	LAMINATION
STANDARD COVER THICKNESS RANGE (mm)	0.5 to 10	6/8
TOLERANCE COVER THICKNESS (mm)	+/- 0.3	+/- 1.0
WORKING TEMPERATURE (°C)	-40 /+230 <sup>A</sup>	-20 /+450
COEFFICIENT OF FRICTION* (CoF)	Values upon request	Values upon request
MIN. PULLEY DIAMETER	x 20	—
WATER RESISTANCE	●●●○	●○○○
ABRASION RESISTANCE	●○○○	●●●○
OIL RESISTANCE**	●●●○	●○○○
FEATURES/BENEFITS	Cover offers high-temperature resistance, excellent grip and ease of product release, making clean-up of materials like adhesives easy. Formulated with FDA materials.	Excellent heat-resistance for high temperature applications such as aluminum extrusion
FOOD CONTACT APPROVED	YES	NO
FDA APPROVED	YES	
EU REGULATIONS	YES	

## INDUSTRIES



<sup>A</sup>Temperature resistance depends on silicone type.



ENGINEERED &  
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# COVERS: BELT WORKSHEET

Choosing the right belt cover for a new application, requires a thorough understanding of the belt requirement and the environment in which the belt will operate. Reviewing the questions below will help guide you through the process. If desired, please copy this page, scan and send to your sales contact.

<b>Belt Finish</b>			
Width:	Pitch:	Lenght:	Quantity:
Belt Type			
<input type="checkbox"/> ML Joined Endless	<input type="checkbox"/> PPJ - Pin Joint	<input type="checkbox"/> ML Open-Ended	<input type="checkbox"/> ML Belt Clamp Used
<input type="checkbox"/> MFX Flex Type	<input type="checkbox"/> MP Molded Endless	<input type="checkbox"/> Neoprene Endless Molded	
<input type="checkbox"/> Others			
<b>Application</b>			
Is the product to be moved on a horizontal, vertical or inclined plane?			
<input type="checkbox"/> Conveyor	<input type="checkbox"/> VFFS or FFS	<input type="checkbox"/> Cable Puller	<input type="checkbox"/> Capping
<input type="checkbox"/> Vacuum	<input type="checkbox"/> Polishing	<input type="checkbox"/> Food	
<input type="checkbox"/> Others			
Conveyor speed:	m/s	Max. acceleration/deceleration	m/s <sup>2</sup>
Material to be conveyed:			
Weight of load on the belt: kg			
Material of belt Guidance/friction partner:			
Does the belt run in			
<input type="checkbox"/> one direction only <input type="checkbox"/> bi-directionally?			
Number of Pulleys:	Diameter of Pulleys:	Counter flexion Diameter:	
Material of Pulleys:	Omega drive: yes/no		
What best describes the cover need?			
<input type="checkbox"/> High friction	<input type="checkbox"/> Low friction	<input type="checkbox"/> Easy of release	<input type="checkbox"/> Shock Absorption
<input type="checkbox"/> Compressibility	<input type="checkbox"/> Others		
Does the cover require a specific thickness?			
Does the cover have a min/max thickness tolerance?			
Does the belt have contact with water?			
If yes	<input type="checkbox"/> Bath	<input type="checkbox"/> Humidity	
Does the belt have contact with salts, lactic acids, oils, UV radiation or Abrasive materials like sand/dust/crystals?			
If yes please add kind of contacts and/or material:			



# COVERS: BELT WORKSHEET

Working temperature <input type="checkbox"/> -20 / +80 °C <input type="checkbox"/> <-20°C please add _____ °C <input type="checkbox"/> >80°C please add _____ °C In case only the conveyed material has a higher contact temperature _____ °C	
Certificate needed? <input type="checkbox"/> Antistatic <input type="checkbox"/> FDA (FDA 21 CFR 177.2600, FDA21 CFR 177.105, FDA21 CFR 177.1680) <input type="checkbox"/> European Directives 82/711/EEC,85/572/EEC,93/8/EEC e 97/48/EEC Regulation (EC) n° 1935/2004 (art.3,art.11,par.5,art.15,art.17) e 1895/2005 (where applicable) Regulation (EU) n° 10/2011 <input type="checkbox"/> USDA (NSF/ANSI/3-A 14159-3-2010 Hygiene Requirements for the Design of Mechanical Belt Conveyors used in Meat and Poultry Processing)	
<b>Modifications</b>	
Modification Purpose <input type="checkbox"/> Vacuum <input type="checkbox"/> Drainage <input type="checkbox"/> Sortation <input type="checkbox"/> Tight Tolerance <input type="checkbox"/> Others	
What modifications are required? <input type="checkbox"/> Grinding <input type="checkbox"/> Routing/Profile Grinding <input type="checkbox"/> Hole punching <input type="checkbox"/> Grooving <input type="checkbox"/> Others	
If grinding, requested finish and thickness	
If precision grinding, requested tolerances	
If routing, please sketch the desired design. Include dimensions:	
If hole punching, what is the hole diameter and hole pattern requested Please sketch. Indicate tolerances if required:	
If grooving, indicate by sketch the design or pattern requested:	
<div style="background-color: #f2f2f2; border: 1px solid #ccc; width: 100%; height: 100%; position: relative;"> <!-- Grid pattern for sketching --> </div>	





# PRODUCT EXAMPLE GALLERY

A

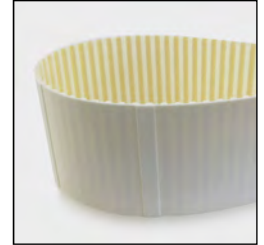
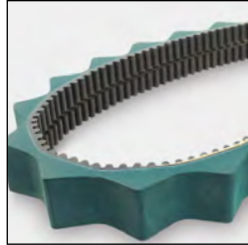
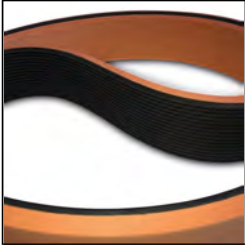
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C

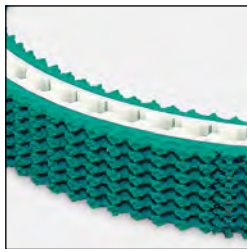
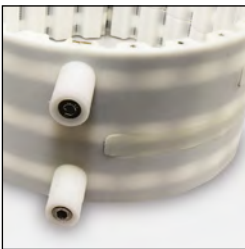
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E

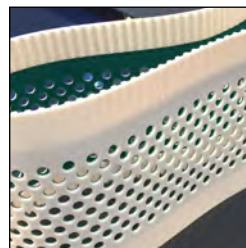
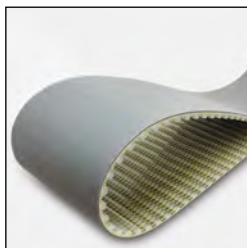
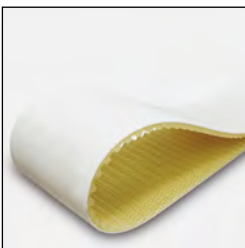
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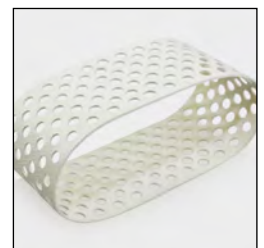
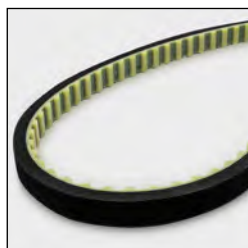
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3



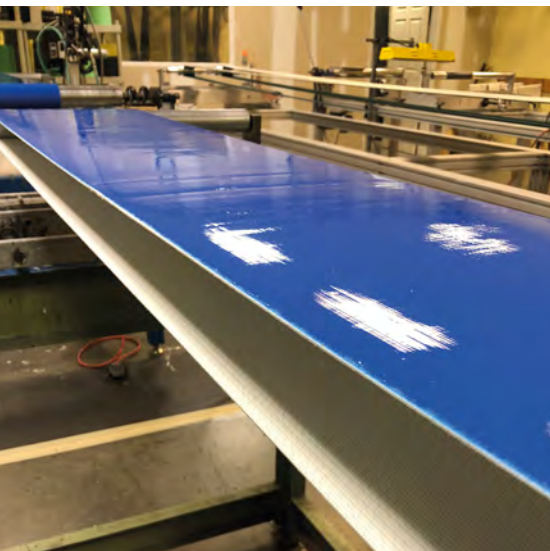
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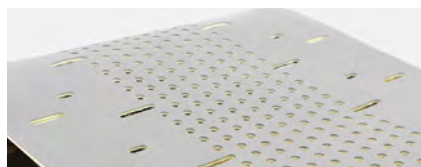
5



ENGINEERED &  
SPECIALTY BELTS



SILICONE COATED FABRIC WITH HOLES AND SLOTS



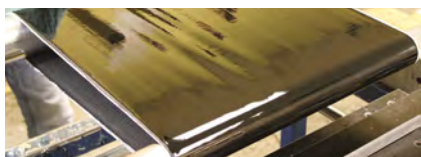
SILICONE COATED FOAM ON MEGAPOWER SUBSTRATE



SILICONE COATED TIMING BELT



NEOPRENE COATED FABRIC



# COATING

## SILICONE AND NEOPRENE

Megadyne has developed state of the art processes for applying silicone and neoprene to synchronous and non-synchronous belts and fabrics. Ongoing investments in automation with a strategic focus on process controls and high-quality repeatability have been made. Through continuous material feed, increased speeds, line efficiency, and operator engagement with screen panel controls, we are able to maintain extremely tight manufacturing tolerances and high-quality standards.

Coated belts are commonly used in product handling applications where environmental or special handling features are needed. Additionally, a thin coating on certain substrates allow for the finished product to offer good flexibility, enabling the belt to be used on low profile conveyors where designs such as knife-edge pulleys are common.

FDA Silicone allows the use of our product in applications such as hygienic goods and medical related parts and components. Silicone is an excellent cover material where the use of glues and adhesives are present in product manufacturing and require easy release and clean up. Silicone also has excellent heat-resistance, making it an ideal solution for applications in high heat environments.

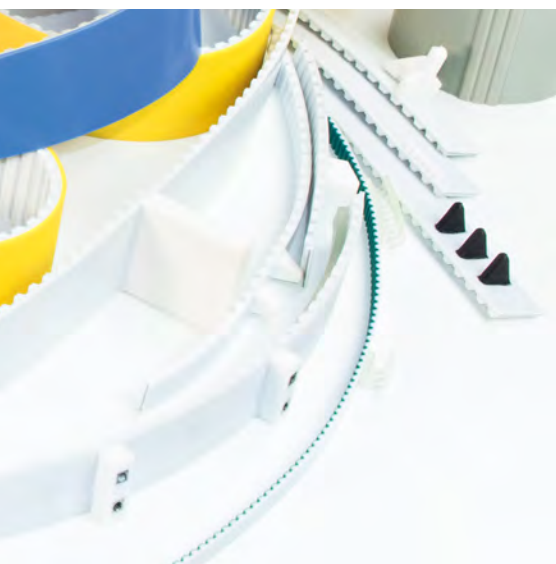
Neoprene rubber can be formulated to provide good chemical and wear resistance, antistatic features, and self-extinguishing (UL94V) non-flammable properties for use in precision conveying applications. Our neoprene rubber covers can be applied to various substrates.

Both Silicone and Neoprene coated products can be further customized with modifications such as holes and slots to meet application needs such as vacuum draw.

MATERIAL	RTV SILICONE	NEOPRENE
<b>HARDNESS (SHA)</b>	Standard: 40, 70 Capable Range: 25-70	55
<b>COLOURS</b>	● ● ● ● ●	●
<b>THICKNESS RANGE (mm)</b>	1-10	0.5-1
<b>WORKING TEMP RANGE °F (°C)</b>	-40/+446 (-40/+230)	-4/+248 (-20/+120)
<b>ABRASION RESISTANCE</b>	Good	Very Good
<b>OIL RESISTANCE</b>	Poor	Good
<b>FOOD CONTACT APPROVED</b>	YES*	—
<b>RUBBER TIMING BELTS</b>	YES	YES
<b>MOULDED PU TIMING BELTS</b>	YES	YES
<b>OPEN-ENDED TPU TIMING BELTS</b>	YES	YES
<b>TRULY ENDLESS FLEX TPU BELTS</b>	YES	YES
<b>RUBBER MULTI-RIB V- BELTS</b>	YES	YES
<b>URETHANE MULTI-RIB V-BELTS</b>	YES	YES
<b>RUBBER BANDED V-BELTS</b>	YES	YES
<b>RUBBER FLAT BELTS</b>	YES	YES
<b>WOVEN &amp; KNITTED POLYESTER</b>	YES	YES
<b>WOVEN KEVLAR®</b>	YES	YES
<b>ENGINEERED BELTS</b>	YES	—
<b>FOAMS</b>	YES	—

\* = Contact Megadyne for Details  
Kevlar® is a registered trademark of DuPont

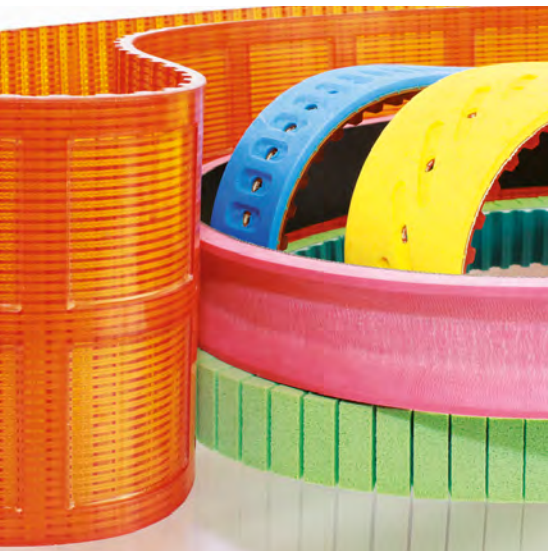
ENGINEERED &  
SPECIALTY BELTS



# MODIFICATIONS

CUSTOM COVER MODIFICATIONS  
CLEATS  
MEGAC4T  
FALSE TEETH  
PROGRESSIVE PIN JOINT (PPJ)





# MODIFICATIONS

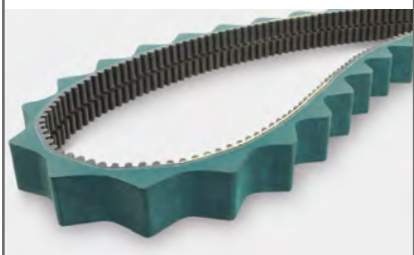
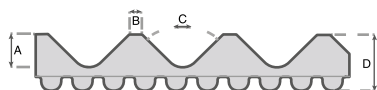
## CUSTOM COVER MODIFICATIONS

Process enhancements, skilled personnel and ongoing capital equipment investments enable Megadyne to stay at the forefront of new design developments and solution delivery to customers across the wide spectrum of industries we serve. Let a Megadyne Technical Sales Representative or Application Engineer create the right belt to deliver optimum performance for your application.

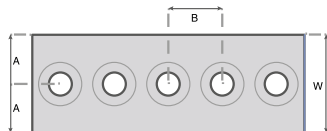
In addition to materials and process selection of the base belt, Megadyne can fully customize our belts with the following machined modifications:

- Custom shapes
- Grinding
- Notching/Knife Cut
- Fabric added to the toothside of belt
- Vacuum Countersinks
- Holes/Perforations
- Pockets
- Slots
- Saw Tooth
- Grooves
- Water Cut

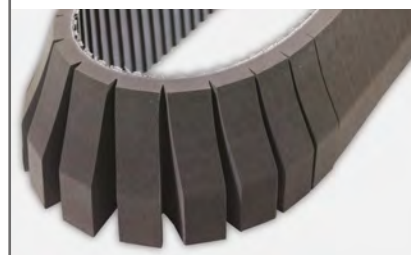
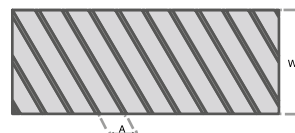
### DEEP GROOVE IN COVER



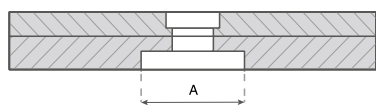
### COUNTERSUNK AND HOLE PUNCH



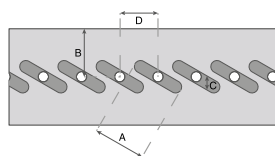
### DIAGONAL SIPES



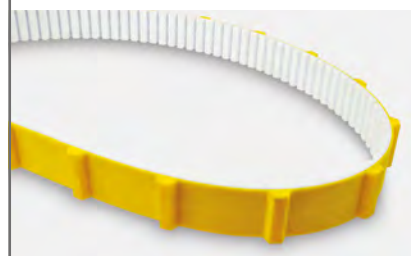
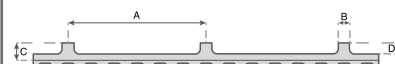
### TOOTH SIDE GRIND



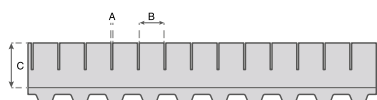
### SLOTS WITH HOLES



### PROFILES GROOVED IN COVER



### KNIFE CUT



**CONTACT MEGADYNE FOR  
OTHER CUSTOM OPTIONS AND  
MODIFICATIONS TO FIT YOUR  
PROCESS/APPLICATION.**

**ENGINEERED &  
SPECIALTY BELTS**





# CLEATS

## FLIGHTS OR PROFILES

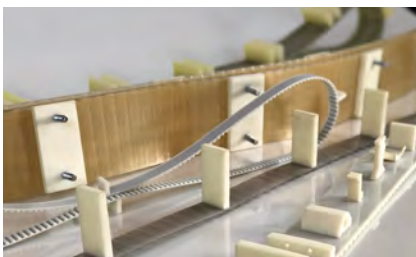
Cleats, also known as flights or profiles, are practical additions to urethane belts to assist in applications where product separation, sortation, actuation, or pushing. Cleated timing belts are commonly found in application areas where pick and place must be timed for production line accuracy.

MEGALINEAR and MEGAFLEX timing belts can be customised with profiles welded, casted out of a mould or even grinded from over-thickness on the backside of the belt.

All cleats, whether injection moulded or CNC machined are made with high-quality thermoplastic polyurethane.

Cleat Design is determined by the application requirements of the cleat and the size of the product required. Using our flexible production capabilities, Megadyne can design any cleat shape to meet the specific requirements of the customer:

- CNC machined from thermoplastic PU sheet or grinded out of over-thickness
- Injection moulded or casted which are manufactured in our own tool building facilities to guarantee fast service.



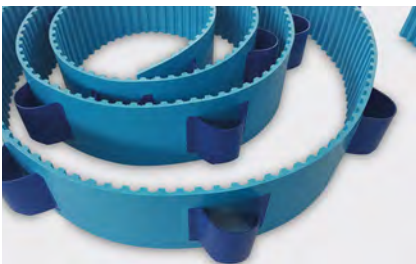
The cleats are attached by using high-frequency vibration, high-friction, hot blade, and infrared-welding or even chemical bonding. When made by grinding or casting, the cleats are homogenous.



### CLEAT MATERIALS FOR THERMOPLASTIC BELTS

Our standard cleat is made with 92° ShA white polyurethane. This material is also used to produce MEGALINEAR and MEGAFLEX timing belt.

Cleats can also be supplied in different durometers and in alternative urethane colours. In applications where a hard and wear-resistant cleat is required, a harder durometer like 96 ShA can be provided. Additionally, Megadyne can mould glass fibre reinforced polyurethane.



In addition to our standard 92 ShA or harder 96 ShA urethane, Megadyne can provide EU Food compliant, FDA compliant blue, or transparent polyurethane for the food and pharmaceutical industry with a hardness of 85 ShA. Blue cleats made with the same FDA material as our blue belt are available to ensure materials compatibility for use in food applications.

Selection of the cleat material can be also dependant on the environment temperature (at low ambient temperatures low hardness is recommended). In general, individual cleat colours deviating from the standard can be produced according to indicated RAL number and under consideration of a minimum quantity.

Cleats can be covered by fabrics or made with dual material, like elastomers with metal inserts.

Cleats can be also reworked mechanically out of homogenous belt body. This is especially for high-quantity of cleats with a low pitch distance a very effective way to manufacture cleated belts. As this kind of process is made out of belts produced in over-thickness, the cleat height is limited and depends on the belt type and pitch.

### LOOKING FOR CUSTOM CLEATS?

If you require a unique shape cleat for your specific product application, we can help.



Contact our team for more information.

ENGINEERED &  
SPECIALTY BELTS



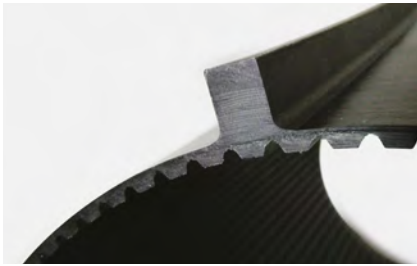
# CLEATS

## FLIGHTS OR PROFILES

### CLEAT MATERIALS FOR THERMOPLASTIC BELTS

For MEGAPOWER PU belts, cleats are cast in homogeneous fashion as the timing belt is moulded. For this, special tooling is needed. Quantity is a critical factor in determining if this process is right for you. The hardness of the base belt and the cleat is for this kind of manufacturing the same and depends on the selected Thermoset PU.

This kind of processing allows a more accurate tolerance of the cleat position and allows even blind holes in cross direction without an additional reworking.



### DIMENSIONAL TOLERANCES

The dimensional accuracy of injection-moulded cleats depends on the shrinking behaviour of the selected polyurethane, the size and shape of the cleat.

- Injection-moulded cleats have a general tolerance of up to  $\pm 0.3$  mm.
- Mechanically processed cleats have a general dimension tolerance of up to  $\pm 0.5$  mm.
- Smaller tolerances can be achieved depending on the cleat material and must by requested case by case.



## METHODS USED TO WELD CLEATS

### HIGH-FREQUENCY, INFRARED & HOT BLADE

Depending on the shape and quantity of cleats to be welded, thermoplastic cleats can be welded using one of several options. When heating the cleat and base belt, polyurethane melts and creates a bead around the welding point. To avoid any negative impact of this bead on the transport side it will be cleaned accordingly to secure the precise positioning of the transport goods.

In some specific cases, a suitable tool is needed to fully remove the welding bead. The cleaning of welding beads on cleats with glass-fibre reinforcement should be avoided in general. Additional to the bead the welded cleat loses height during the welding process. This height loss is called burn-off and is taken into consideration during cleat design and production.

### COLD WELDING (CHEMICAL BONDING)

During chemical bonding, the thermoplastic polyurethane cleat is permanently connected with the thermoplastic polyurethane base belt. Chemical bonding is preferably used for flat, round, and thin-walled cleats, as in contrary to the hot welding no material melts off, no welding beads and no burn-off occurs. Glass-fibre reinforced polyurethanes cannot be chemically bonded.

### SPECIAL CLEAT DESIGNS

Megadyne can use components made from food-contact approved conveyor belts as cleats, applied with high-frequency technology to TPU timing belt. This hybrid construction is perfect for food applications, such as fruit conveying.

More information and profiles available online in our Technical Engineering Manuals:



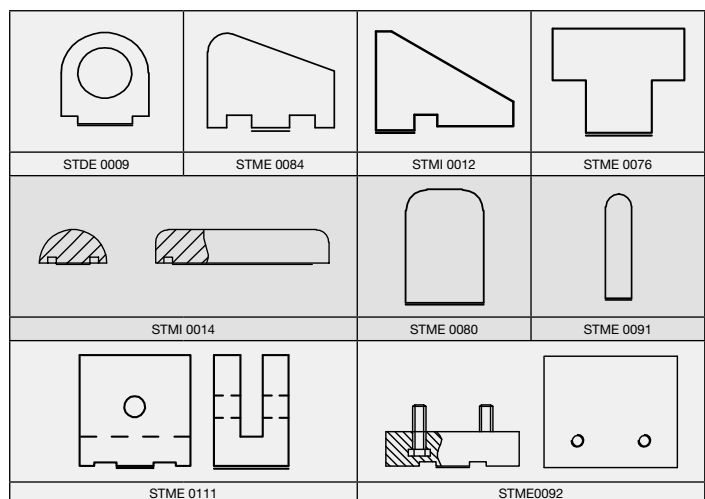


# CLEATS

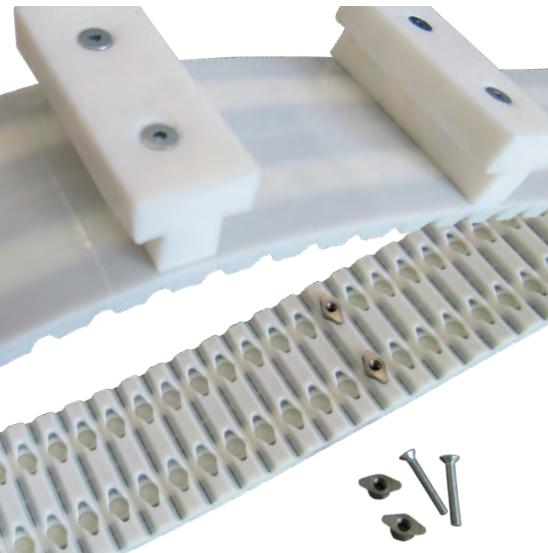
## BELT WORKSHEET

Application:																																									
<b>QUANTITY OF CLEATS AND BELTS NEEDED:</b>																																									
Base Belt Substrate: <input type="checkbox"/> MEGALINEAR <input type="checkbox"/> MEGAFLEX <input type="checkbox"/> Other:																																									
Cleat colour:	Cleat material:																																								
FDA: <input type="checkbox"/> yes <input type="checkbox"/> no																																									
Belt pitch:	Belt length:	Belt width:																																							
Belt cord:																																									
Pulley diameter(s) or # of teeth and pitch:																																									
Cleats spacing:																																									
Desired cleat dimensions:																																									
<b>IF THE CLEATS ARE IN GROUP, PLEASE SPECIFY:</b>																																									
Quantity of cleats per group:		Spacing of cleats inside the group:																																							
Spacing of the groups:																																									
Sketch cleat(s) design with all relevant dimensions:																																									

Some cleats Examples:



ENGINEERED &  
SPECIALTY BELTS



## MEGAC4T

**A SPECIAL SOLUTION IS BECOMING STANDARD!!!**

The fastening system of the exchangeable profile in the tooth of the belt allows a quick assembly and makes the belt extremely versatile — the same belt can be equipped with different profiles for individually transported goods without de-installation. The highly variable profile pitch will standardize any application.



## CLEATS

### MEGAC4T & FALSE TEETH

Our False Tooth product is designed to provide an easy mechanical attachment option for placement of cleats and other profiles and shapes to H, AT10, and AT20 pitches. False Teeth can be added to MEGALINEAR open-ended, MEGAFLEX truly endless thermoplastic, and MEGAPOWER urethane timing belts.

False Teeth with mechanical attachments can be used to offer flexibility of adjustment and positioning in applications where sortation, actuation and product separation are needed such as in pick and place systems, inserting and cartoning machines found in the packaging industry. Megadyne's False Tooth attachments provide a method to reposition or replace broken cleats without the need to replace belts, thus saving time and money.

Additionally, False Teeth used to mount mechanical attachments can be a solution in applications where the forces placed against conventional weld-on cleats are too high and not robust enough to withstand the loads placed on them, which can lead to pull-off failure.

Megadyne standard False Tooth's material is AISI 304 stainless-steel. Contact Megadyne to discuss other material options.

#### ADVANTAGES OF MEGADYNE FALSE TEETH:

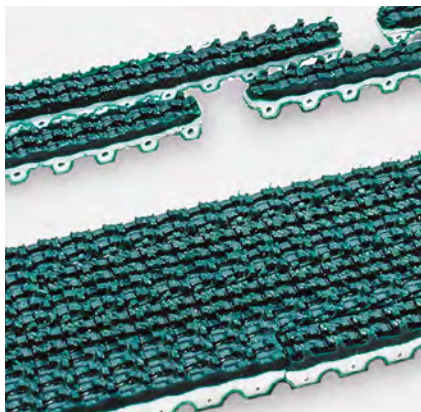
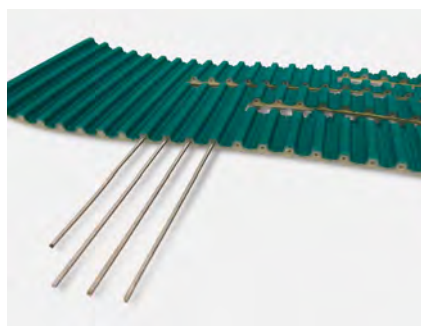
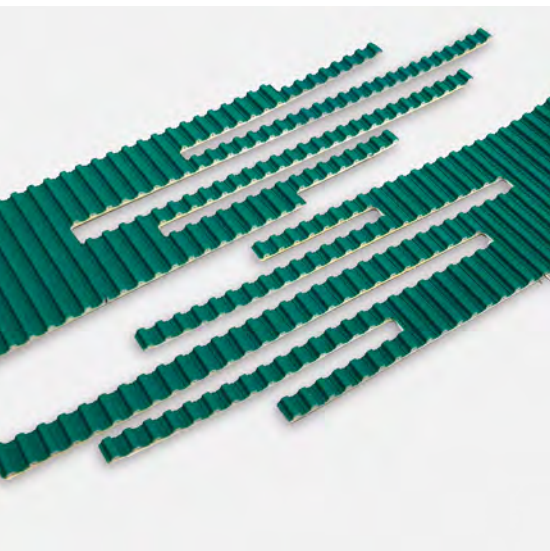
- Easy installation and removal of cleats
- Precise profile positioning
- Cost reduction in assembly and maintenance:
  - No removal of belt needed to replace cleats
- Different cleat materials can be used
- stainless-steel false teeth suitable for food & pharmaceutical industry
- Available with NFT/NFB, FDA Urethane and with steel aramid or stainless-steel cords. Self-tracking belts can also be provided.

#### AVAILABLE ON FOLLOWING BELTS:

PITCH AND WIDTH	HOLE SPACING (mm)	# OF HOLES	DIAMETER OF HOLE (mm)	POST THREAD SIZE
H50	25	2	6 +/-0.3	M4
25AT10	12 +/-0.2	2	6 +/-0.3	M4
32AT10	20 +/-0.2	2	6 +/-0.3	M4
50AT10	25 +/-0.2	2	6 +/-0.3	M4
75AT10	25 +/-0.2	3	6 +/-0.3	M4
100AT10	25 +/-0.2	4	6 +/-0.3	M4
25AT20	-	1	7.5 +/-0.3	M5
32AT20	20 +/-0.2	2	7.5 +/-0.3	M5
50AT20	25 +/-0.2	2	7.5 +/-0.3	M5
75AT20	25 +/-0.2	3	7.5 +/-0.3	M5
100AT20	25 +/-0.2	4	7.5 +/-0.3	M5

ENGINEERED &  
SPECIALTY BELTS





# MODIFICATIONS

## PROGRESSIVE PIN JOINT SYSTEM (PPJ)

Megadyne's Progressive Pin Joint (PPJ) system provides a simple, reliable method of placing a timing belt on an application without the need to tear apart the conveyor or join the belt endless online. PPJ is a perfect option for parallel path belts where the load being moved is spread across several belts. Installation and replacement of belts is fast, simple and cost-saving.

### PPJ IS AVAILABLE FOR THE FOLLOWING BELT TYPES:

BELT TYPE	WIDTH (mm)	BELT TYPE	WIDTH (mm)
T10/AT10	25	T20/AT20/ATG20	75
TG10 K6	25	MTD8/RPP8	20
T10/AT10	32	MTD8/RPP8	30
T10/AT10	50	MTD8/RPP8	50
T10/AT10	75	MTD8/RPP8	85
T10/AT10	100	MTD8/RPP8	100
TG10/ATG10	50	MTD14	55
T20/AT20	32	MTD14	85
T20/AT20	50	H075	19.05 (0.75 in)
HG150	38.1 (1.5 in)	H100	25.4 (1 in)
HG200	50.8 (2 in)	H200	50.8 (2 in)

For different widths please consult Megadyne.

### AVAILABLE PITCHES AND STEEL CORD TYPES:

STANDARD	HIGH FLEX	STAINLESS
T10, AT10, TG10 ATG10, T20 AT20, MTD8, RPP8	T10, AT10 T20, AT20	T10, AT10 TG10, ATG10, MTD14

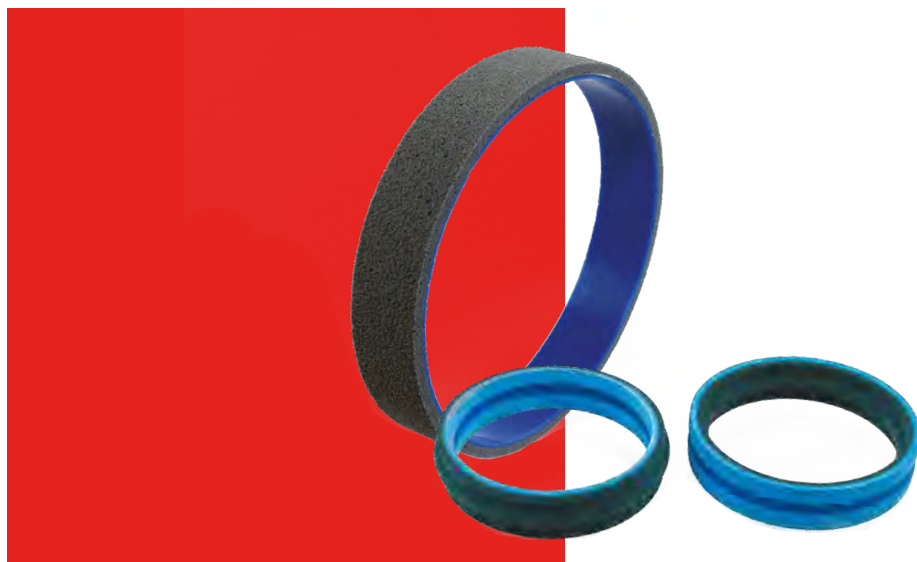
If Kevlar® cords are required please consult Megadyne.

### AVAILABLE COVERS ON PPJ BELTS:



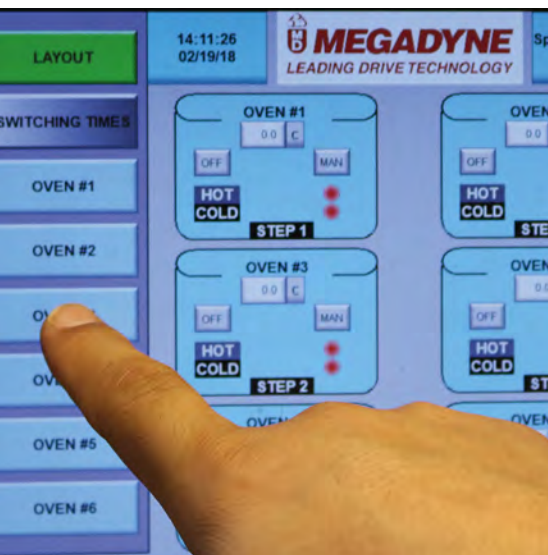
Contact Megadyne to discuss other cover material options.

ENGINEERED &  
SPECIALTY BELTS



# ENGINEERED SOLUTIONS

ENGINEERED BELTS  
HYBRID BELTS



# ENGINEERED SOLUTIONS

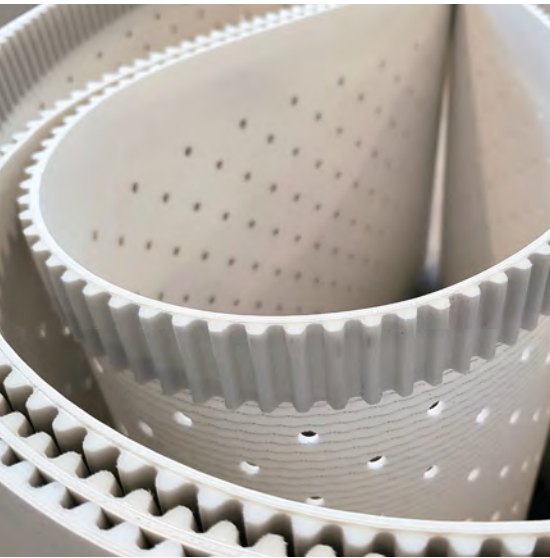
## ENGINEERED BELTS

Megadyne offers several advanced engineered elastomers and processes to produce high-precision belts for applications within packaging, business machines, aerospace and medical applications.

These elastomers offer performance benefits ranging from high-temperature resistance to outstanding flex fatigue to electrical insulation. Elastomers within this class can be spun cast, moulded, wrapped or ultrasonically welded to deliver the performance needed in the toughest applications.

MATERIAL	FILM ULTRASONIC WELDING		SPIN CASTING			VULCANIZATION
	MYLAR®	KAPTON®	HYTREL®	URETHANE	SILICONE	REINFORCED SILICONE
HARDNESS (SHORE A)	N/A	N/A	30/40/50/60/70	60/80	55	40
COLOURS	○	●	●	● ● ● ● ●	●	● ● ●
THICKNESS RANGE	0.003-0.014"	0.001-0.005"	0.010 to 0.040"	0.020 to 0.125"	0.5 to 12 mm	1 mm
WORKING TEMP RANGE °F (°C)	-94/+320 (-70 /+160)	-148/+716 (-100 /+380)	-40/+212 (-40 /+100)	-4/+176 (-20 /+80)	-40/+446 (-40 /+230)	-40/+446 (-40 /+230)
WATER RESISTANCE	Good	Good	Good	Good	Good	Good
ABRASION RESISTANCE	Very Good	Very Good	Good	Good	Poor	Poor
OIL RESISTANCE**	Good	Very Good	Very Good	Good	Poor	Poor
FOOD CONTACT APPROVED	Yes	Yes	No	No	Contact Customer Support	
OTHER BENEFITS	Electrical Insulation	UL94 VO Fire Rating	High Flex Fatigue Resistance	Hydrolytic Stability	Low CoF	Heat/Cold Resistance
Mylar®, Kapton® and Hytrel® are registered trademarks of DuPont						

ENGINEERED &  
SPECIALTY BELTS



# ENGINEERED SOLUTIONS

## PHOTOS

URETHANE W/ TRACKING GUIDE



TRULY ENDLESS SILICONE



TRULY ENDLESS KAPTON®



TRULY ENDLESS HYTREL® COATED  
WITH SILICONE



REINFORCED SILICONE WITH GUIDE



FOAM



TRULY ENDLESS URETHANE WITH TABS

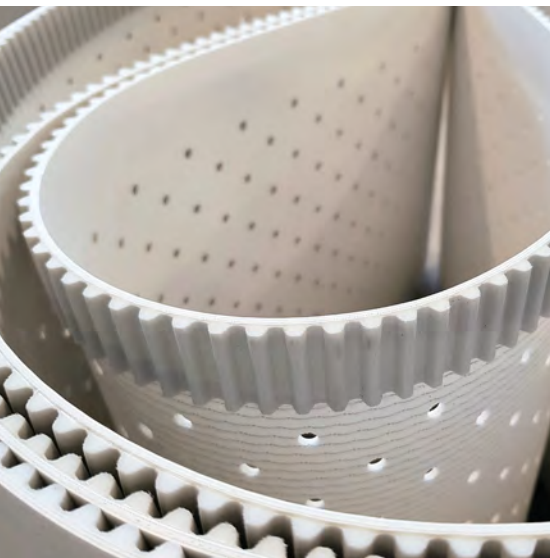


TRULY ENDLESS DUAL DUROMETER URETHANE  
AND NATURAL RUBBER



ENGINEERED &  
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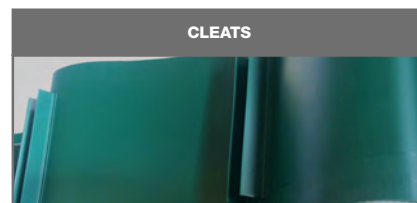
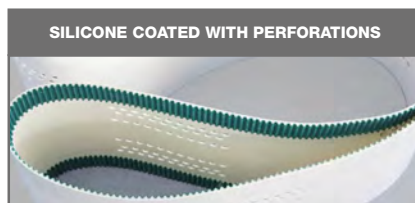
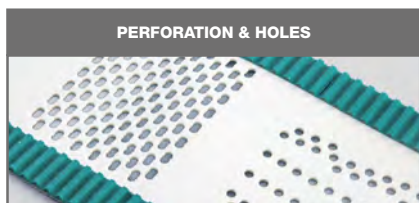
# ENGINEERED SOLUTIONS

## HYBRID BELTS

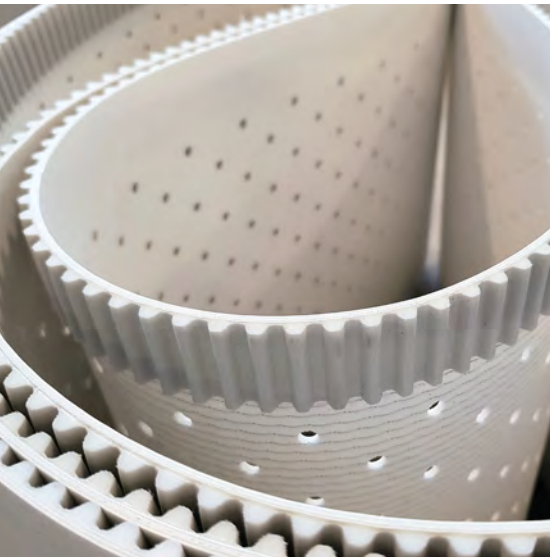
Hybrid belts deliver synchronization and conveying in one belt design. Starting with conveyor belts, we add extruded timing belts to provide precise positioning and accurate tracking. We have successfully implemented the Hybrid solution in several markets & industry sections, which allows us to enlarge our product portfolio.

Hybrid, Hybrid Plus and Hybrid Pro belts are available with polyurethane or silicone covers and available with the following urethane belt pitches- H, T5, T10, MTD5, MTD8M, STD8M, T20, T5 BLUE FC, T10 BLUE FC, AT5, AT10, and AT20 with a base surface of Fabric and Elastoflex. Additionally, with the high-variation and flexibility of our Synthetic and Conveyor portfolio and with the enormous reworking capabilities such as hole perforating and cleat & rope welding we have the perfect solution for any type of application.

TYPE	HYBRID				HYBRID PLUS				HYBRID PRO PLUS			
CONVEYOR BELT	PUCON, SILCON, FABCON, ELASTOFLEX				PUCON, SILCON, FABCON, ELASTOFLEX				PUCON, SILCON, FABCON, ELASTOFLEX			
CONVEYOR BELT FABRIC	Rigid, Light Rigid and Flexible Polyester				Rigid, Light Rigid and Flexible Polyester				Rigid, Light Rigid and Flexible Polyester			
MEGALINEAR BELT TYPE AND PITCH	H, T5, T10, MTD5, MTD8M, STD8M, T20, T5 BLUE FC, T10 BLUE FC, AT5, AT10, AT20				H, T5, T10, MTD5, MTD8M, STD8M, T20, T5 BLUE FC, T10 BLUE FC, AT5, AT10, AT20				QST5, QST8, QST14			
MEGALINEAR CORD TYPES	Kevlar®, No cord				Kevlar®, No cord				No cord			
MEGALINEAR DUROMETER/COLOR	92A						92A					
MEGALINEAR NFT	Yes				Yes				Yes			
# OF MEGALINEAR BELTS	One-centered, belt bottom				Two or more as per customer design				Two, belt edges			
MAX BELT WIDTH (mm)	1000				2000				2000			
ADVANTAGES	Driven speeds up to 500 m/min. Precision positioning Energy savings								Enables compact conveyor designs Low noise level			
INDUSTRIES												



## ENGINEERED & SPECIALTY BELTS



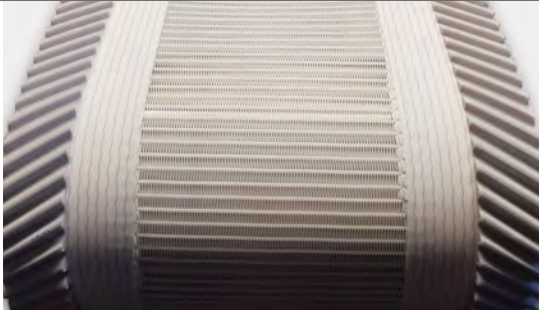








# ENGINEERED SOLUTIONS

## HYBRID BELTS

Hybrid Vacuum is a unique design where synchronization, and an open mesh (used for drainage or vacuum), are combined into one belt design.

### SPIRAFLEX

**Spiraflex** grid conveyor belts are used in diaper manufacturing and to produce other hygienic products as well as the transportation of fresh pasta and licorice. In the Food Industry, Spiraflex can replace traditional metal wire mesh conveyor belts. In the case of conveying fresh pasta or dough, Spiraflex allows the steam sprayed by the machinery inside a tunnel, to eliminate the residual flour of the product. In the case of licorice transport, Spiraflex resists steam used to get a glossy finish on the surface of product.

TYPE	HYBRID VACUUM	SPIRAFLEX
<b>CONVEYOR BELT</b>		
<b>CONVEYOR BELT FABRIC</b>	Polyester open mesh with PUCON	Spiraflex
<b>MEGALINEAR BELT TYPE AND PITCH</b>	Rigid polyester	Polyester with reinforced edges
<b>MEGALINEAR CORD TYPES</b>	H, T5, T10, MTD5, MTD8M, STD8M, T20, T5 BLUE FC, T10 BLUE FC, AT5, AT10, AT20	
<b>MEGALINEAR DUROMETER/COLOR</b>	Kevlar®, No cord	
<b>MEGALINEAR NFT</b>	92A	—
<b># OF MEGALINEAR BELTS</b>	Yes	—
<b>MAX BELT WIDTH (mm)</b>	Two, belt edges	2000
<b>ADVANTAGES</b>	Driven speeds up to 500 m/min. Precision positioning Energy savings Enables compact conveyor designs Open mesh allows vacuum or drainage	Excellent suction properties Customization Low weight
<b>INDUSTRIES</b>	    	 

ENGINEERED &  
SPECIALTY BELTS

## NOTES

## NOTES



The data and information contained in the present catalogue are updated to the date of the catalogue's printing. Ammega Italia S.p.A. reserves the right to modify the specifications, performances and other information relating to the belts described in the present catalogue, at any time at its own discretion, without any prior notice.

For updating refer to our website [www.megadynegroup.com](http://www.megadynegroup.com).

Technical specifications, performances and other information provided in the present catalogue are indicative and do not bound Ammega Italia S.p.A. unless such specifications, performances or other information are expressly agreed in the agreement with the customer.

We also recommend to read carefully the following documents on our web site [www.megadynegroup.com](http://www.megadynegroup.com):

- Ammega Italia S.p.A. General Conditions of Sale (comprising the warranty)
- Theoretical Belt Life
- Drive Components: Storage, Installation, Maintenance and Troubleshooting Handbook
- Belts standard use condition and temperature.

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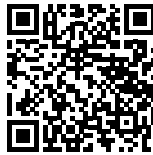
The customer shall not disclose such information to third parties or use such information for purposes different from the definition of the order to Ammega Italia S.p.A., unless upon prior written authorization of Ammega Italia S.p.A..



MEGADYNE S.p.A.  
ITALY - MATHI

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around the globe.



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Scan the QR code  
and find your local  
contact

