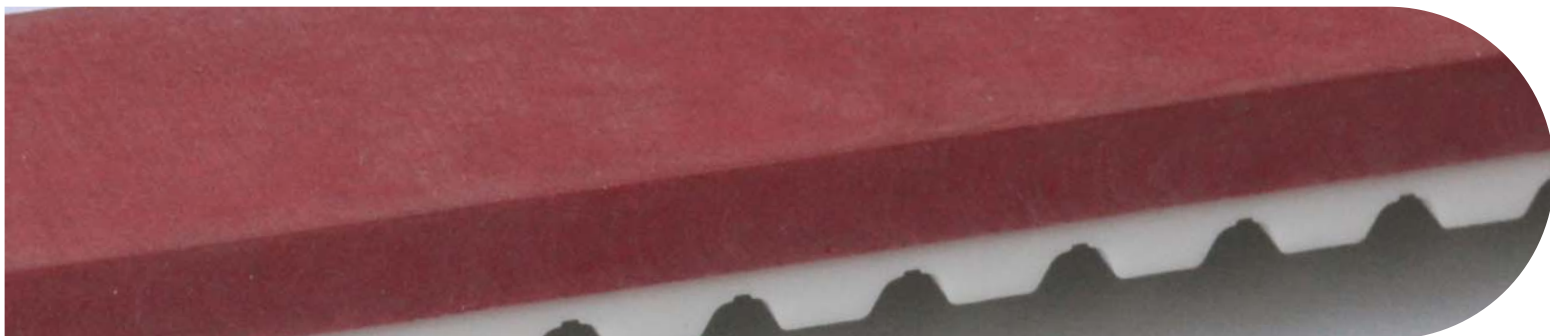
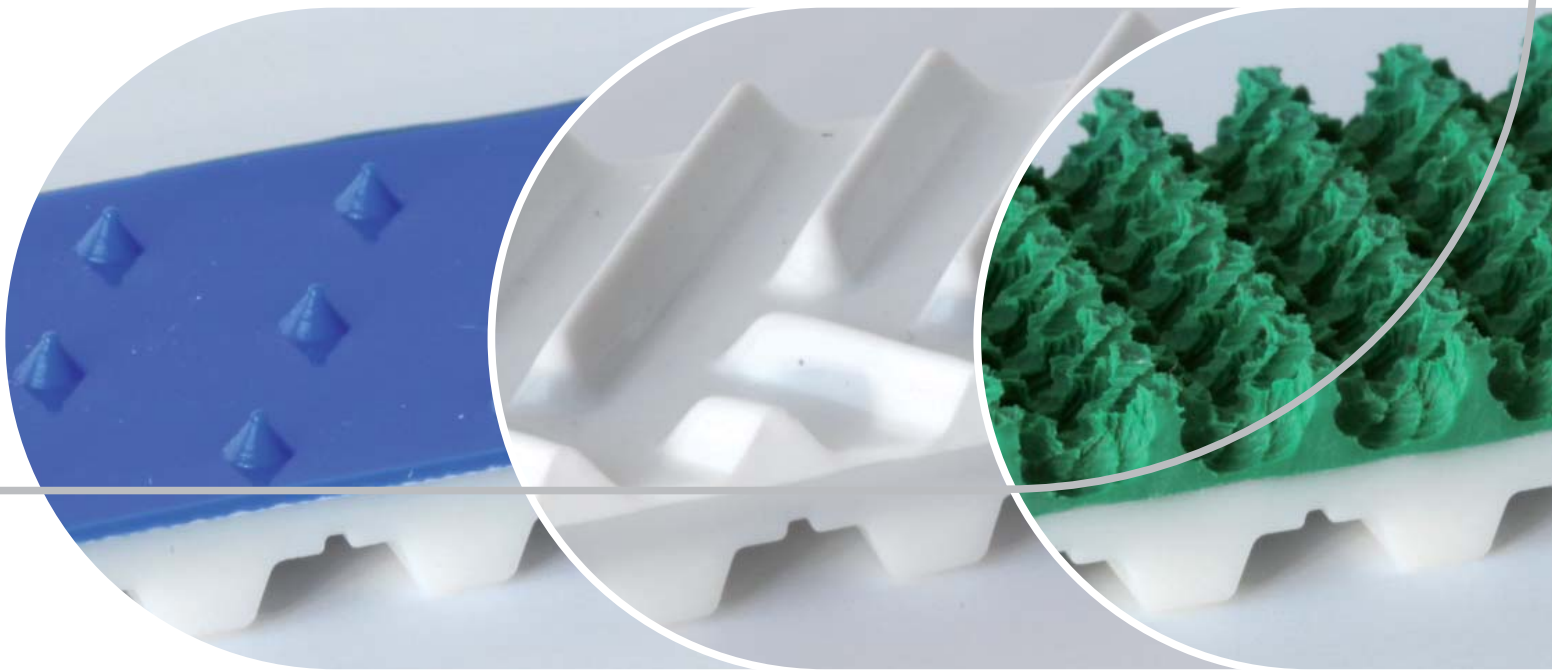


HabaSYNC® Timing Belt Covers

Habasit—Solutions in motion



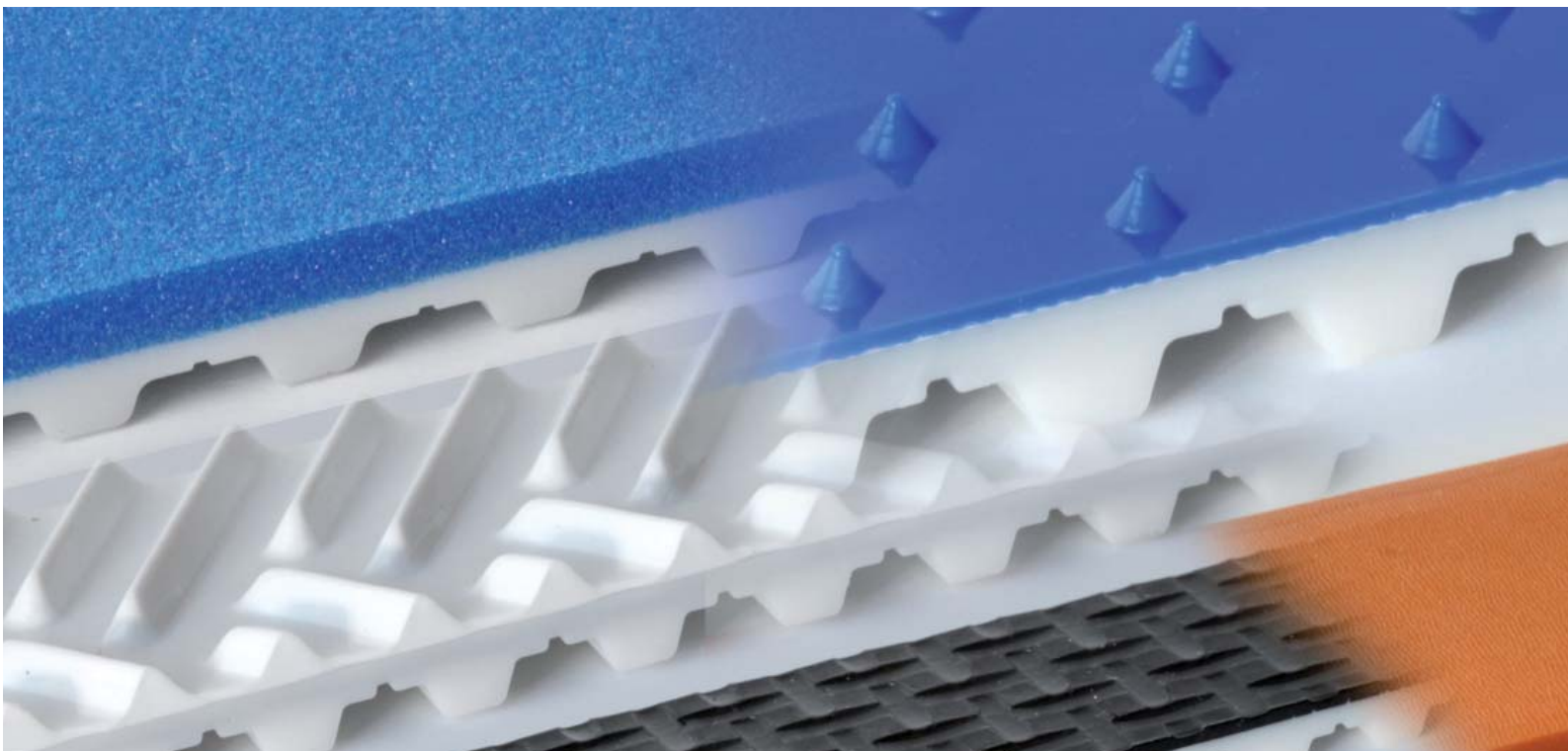
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Product liability, application considerations

If the proper selection and application of Habasit products are not recommended by an authorized Habasit sales specialist, the selection and application of Habasit products, including the related area of product safety, are the responsibility of the customer.

All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT'S AND ITS AFFILIATED COMPANIES' CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES.



Habasit offers a broad selection of covers for its HabaSYNC® Timing Belts. Covers provide the friction needed to handle products so that they are correctly indexed and securely and effectively managed. Our covers are designed to cope with a wide variety of requirements and can thus guarantee reliable conveyance in every type of transport function and manufacturing application.

Some cover materials are applied during timing belt production, affording homogeneous structure benefits. Others are added later using heat lamination or adhesive bonding processes. Our expertise ensures that the materials are combined in every case using the most suitable procedures, thus delivering consistently optimized quality.

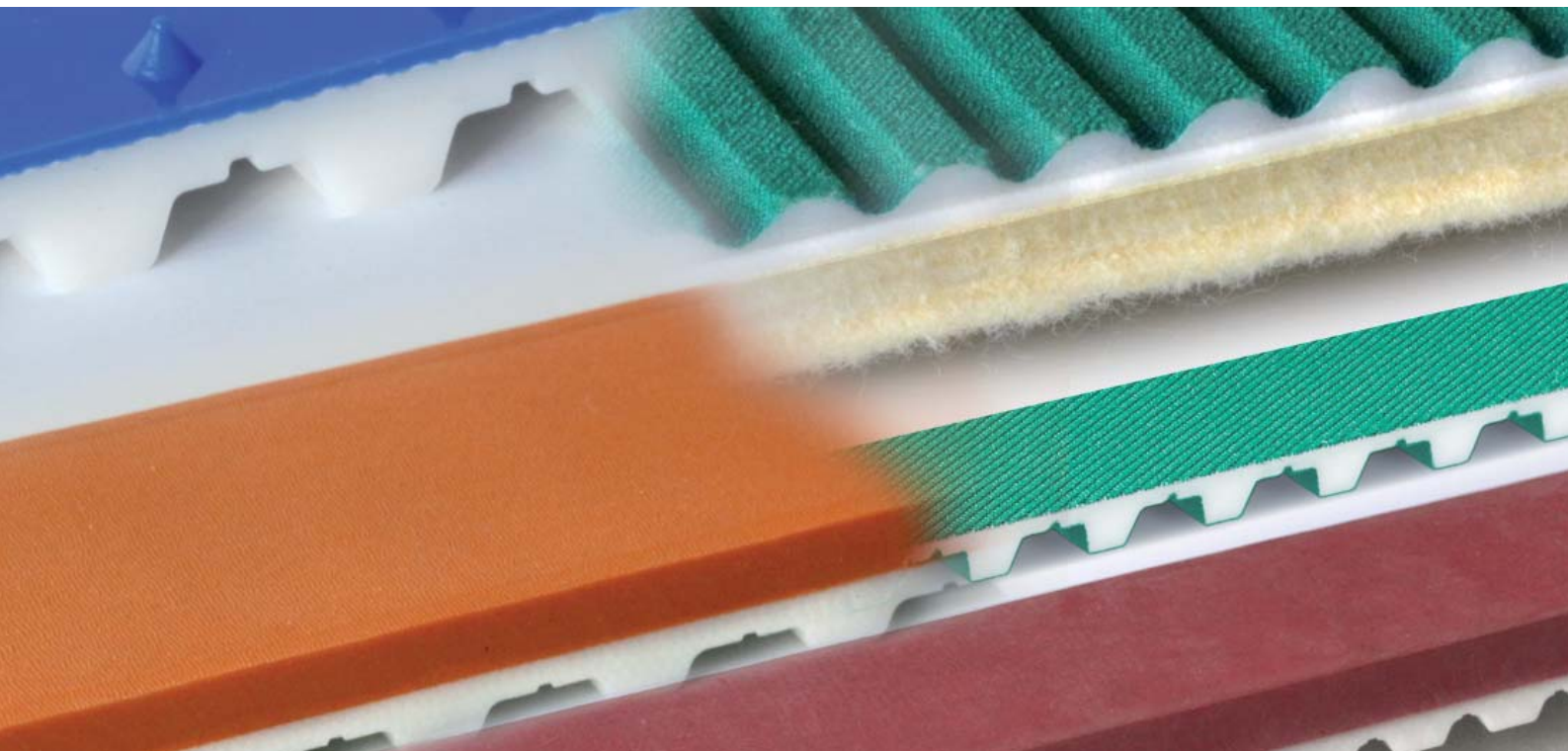
Covered HabaSYNC® Timing Belts can provide a combination of features that include:

- Abrasion resistance
- Chemical resistance
- Compressibility
- Electrostatic discharge – antistatic features
- Excellent release properties
- Gentle movement
- Heat resistance
- High or low coefficient of friction
- Shock absorption

As a result, belts can be used in multiple applications and in the most challenging conditions. The most appropriate and best performing conveying side cover always depends on the application and function. For example, soft for careful product handling in filling lines, or hard with additional wear resistance for abrasive environments. Chemical and thermal features meet the needs of food applications and materials handling processes at elevated temperatures.

Talk to us about your technical requirements. We love a challenge. Our fabrication specialists will be pleased to discuss all the options with you. Since we can put covers on all our HabaSYNC® Timing Belts, we will be able to satisfy your requirements with at least one of our specially designed high-tech products.

Please note that not all products are available as standard stock items in every country. Check with your local Habasit representative for availability within our worldwide service network, which you can find on: www.habasit.com.





Designation		FAC-C		FAF		FAS		FAW	
Material		TPU		TPU		TPU		TPU	
Surface		cone top		fish/herringbone		saw tooth		waffle	
Color		cobalt blue		white		white		white	
FDA		•		•		•		•	
Hardness	Shore A	85		85		85		85	
Temperature range	°C / °F	0 – 100	32 – 212	-30 – 80	-22 – 176	-30 – 80	-22 – 176	-30 – 80	-22 – 176
Thickness	mm / in.	1.1	0.04	3.0	0.12	0.7	0.03	0.6	0.02
Product features / special properties		Abrasion-resistant Non-adhesive Laterally stable		Abrasion-resistant Adhesive		Abrasion-resistant Adhesive		Abrasion-resistant Adhesive Longitudinally flexible	

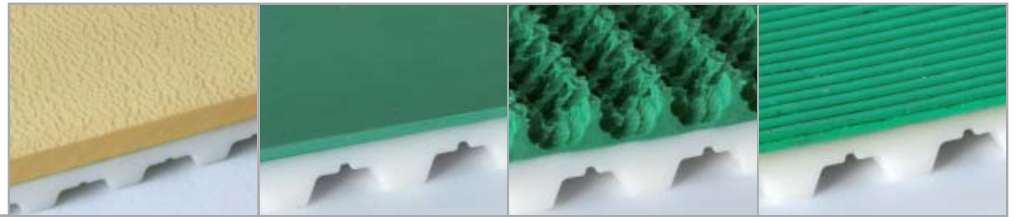


Designation		T/NPW		PU60T		PU85C		PU85W	
Material		TPU		PU		PU		PU	
Surface		pimple top		smooth		smooth		smooth	
Color		white		transparent		cobalt-blue		white	
FDA		•		—		•		—	
Hardness	Shore A	80		60		85		85	
Temperature range	°C / °F	-20 – 80	-4 – 176	-20 – 80	-4 – 176	-20 – 80	-4 – 176	-20 – 80	-4 – 176
Thickness	mm / in.	1.35	0.05	2.0/3.0/ 4.0	0.08/0.12/ 0.16	2.0/3.0/ 4.0	0.08/0.12/ 0.16	2.0/3.0/ 4.0	0.08/0.12/ 0.16
Product features / special properties		Abrasion-resistant Adhesive High grip		Wear-resistant Adhesive Chemical- and oil- resistant		Wear-resistant Food-grade Chemical- and oil- resistant		Wear-resistant Chemical- and oil- resistant	

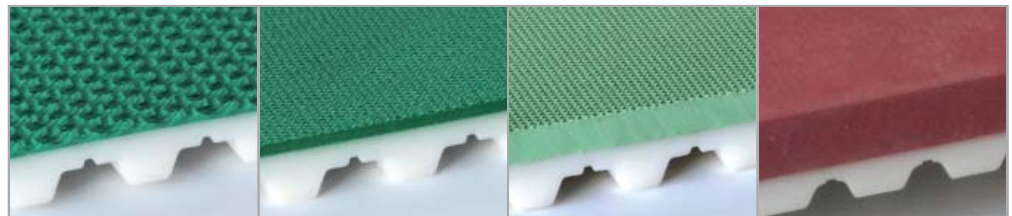
For details of cover materials and pulley sizes, please contact your local Habasit partner, which you can find on: www.habasync.com



Designation		PU60BL		PU92WN		WAL-C	
Material		PU		PU		TPU	
Surface		longitudinal rib		smooth		longitudinal rib	
Color		black		natural white		cobalt blue	
FDA		—		—		•	
Hardness	Shore A	60		92		85	
Temperature range	°C / °F	-20 – 80	-4 – 176	-20 – 80	-4 – 176	-30 – 80	-22 – 176
Thickness	mm / in.	3.0 5.0	0.08 0.19	2.0 3.0	0.08 0.12	1.2	0.05
Product features / special properties		Abrasion-resistant Adhesive Chemical- and oil-resistant		Abrasion-resistant Wear-resistant Non-adhesive Chemical- and oil-resistant		Abrasion-resistant Constant coefficient of friction	

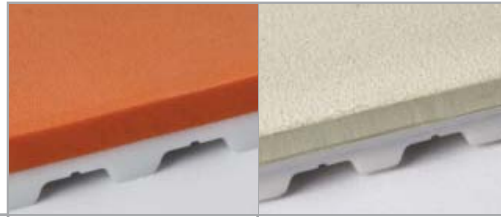


Designation		Gum rubber		HAB		HAG		HAL	
Material		Natural rubber		NBR		NBR		EPDM	
Surface		smooth		smooth		grip structure		longitudinal groove	
Color		beige		green		green		green	
FDA		—		—		—		—	
Hardness	Shore A	40		80		50		45 – 50	
Temperature range	°C / °F	-15 – 70	5 – 158	0 – 100	32 – 212	0 – 100	32 – 212	-30 – 100	-22 – 212
Thickness	mm / in.	4.0	0.2	0.8	0.03	4.7	0.19	1.2	0.05
Product features / special properties		Very adhesive High coefficient of friction		Abrasion- and oil-resistant Super-adhesive		Abrasion- and chemical-resistant Adhesive Constant and high coefficient of friction		Highly adhesive even at low temperatures Constant coefficient of friction	

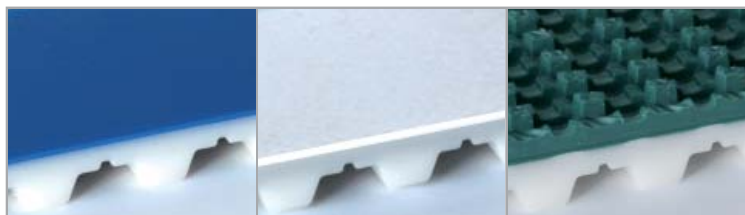


Designation		HAR		HAT		HAT-W		Linatex®	
Material		NBR		NBR		NBR		Natural rubber	
Surface		rough textile structure		textile structure		textile structure		smooth	
Color		green		green		light green		red	
FDA		—		—		—		—	
Hardness	Shore A	70		60		60		35	
Temperature range	°C / °F	-20 – 100	-4 – 212	0 – 100	32 – 212	0 – 100	32 – 212	-40 – 70	-40 – 158
Thickness	mm / in.	0.7	0.03	1.25	0.05	1.0 – 2.0 2.0 – 4.0	0.04 – 0.08 0.08 – 0.16	2.0 – 12.7	0.08 – 0.5
Product features / special properties		Abrasion- and chemical-resistant Adhesive Constant and high coefficient of friction		Abrasion-resistant Adhesive Constant and high coefficient of friction		Abrasion-resistant Adhesive Constant and high coefficient of friction		Cut- and abrasion-resistant Very high coefficient of friction	

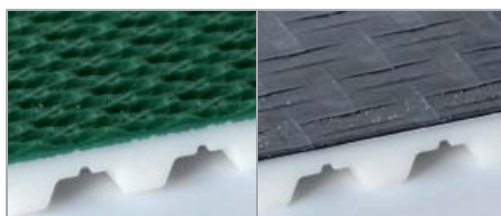
For details of cover materials and pulley sizes, please contact your local Habasit partner, which you can find on: www.habasync.com



Designation		Linatril®		Nitrile white	
Material		Nitrile		Nitrile	
Surface		smooth		smooth	
Color		orange		white	
FDA		—		•	
Hardness	Shore A	55		60	
Temperature range	°C / °F	-20 – 110	-4 – 230	-20 – 80	-4 – 176
Thickness	mm / in.	3.0 – 6.0	0.12 – 0.24	2.0 – 6.0	0.08 – 0.24
Product features / special properties		Abrasion-resistant Heat- and chemical-resistant High coefficient of friction		Food-grade Oil-resistant Non-adhesive	

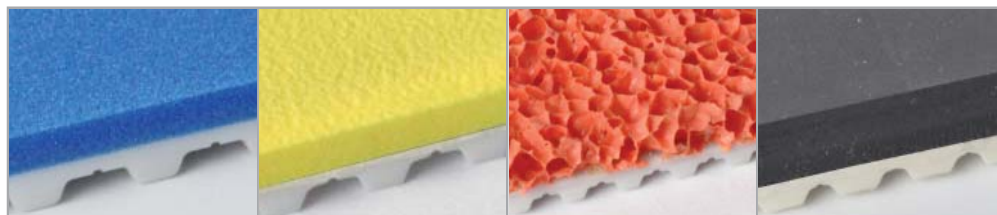


Designation		FAB-CV		NAB-WV		NAG-DV	
Material		PVC		PVC		PVC	
Surface		smooth		smooth		grip structure	
Color		blue		white		dark green	
FDA		•		•		—	
Hardness	Shore A	86		45		45	
Temperature range	°C / °F	-10 – 80	14 – 176	-10 – 70	14 – 158	-10 – 70	14 – 158
Thickness	mm / in.	0.4	0.02	0.6 – 1.0	0.02 – 0.04	3.8	0.15
Product features / special properties		Abrasion-resistant Food-grade		Adhesive Food-grade		Adhesive High grip	



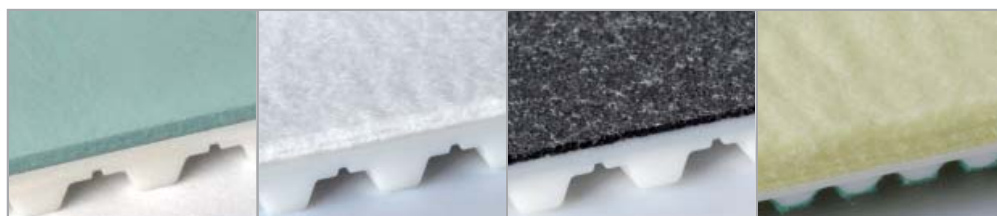
Designation		WAG-G		SAQ	
Material		PVC		PVC	
Surface		basket weave		quadrangular	
Color		green		anthracite	
FDA		—		—	
Hardness	Shore A	50		~68 – 72	
Temperature range	°C / °F	-20 – 80	-4 – 176	-10 – 60	14 – 140
Thickness	mm / in.	1.6	0.06	2.5	0.10
Product features / special properties		High coefficient of friction		Constant and gentle positive grip Adhesive	

For details of cover materials and pulley sizes, please contact your local Habasit partner, which you can find on: www.habasync.com



Designation		EVA foam		PU foam		Rubber foam		Synthetic rubber	
Material		Ethylene vinyl acetate		PU		Natural rubber		Polychloroprene	
Surface		closed cell		closed cell		open cell		closed cell	
Color		blue		yellow		orange		black	
FDA		—		—		—		—	
Density ¹	kg/m ³	50		500		200		175	
Temperature range	°C / °F	-30 – 70	-22 – 158	-10 – 60	14 – 140	-20 – 65	-4 – 149	-15 – 80	-5 – 176
Thickness	mm / in.	5.0 – 13.0	0.19 – 0.51	1.0 – 12.0	0.04 – 0.47	5.0 – 12.0	0.19 – 0.47	3.0 – 14.0	0.12 – 0.55
Product features / special properties		Soft grip Shock absorbing		Abrasion- and wear-resistant Cushioning		Adhesive Resilient Very soft		Adhesive High grip Chemically inert	

¹Exact density is based on application requirements.



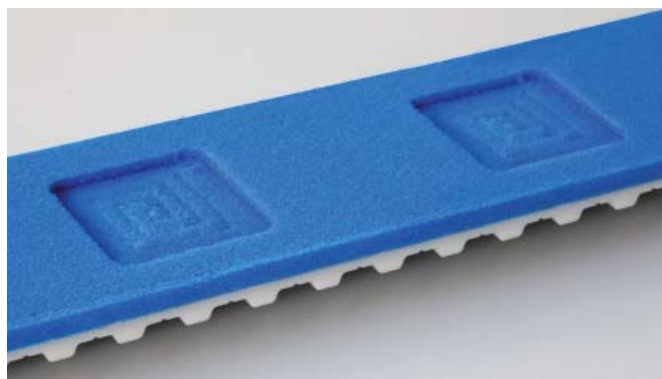
Designation		Artificial leather		Felt-top		G-NB		Heatmate	
Material		PES/TPU		PES		PES		Aramide	
Surface		smooth		non-woven (fleece)		non-woven (fleece)		non-woven	
Color		gray		white		black		yellow	
FDA		—		•		—		—	
Hardness	Shore A	50		40		80		NA	
Temperature range	°C / °F	0 – 60	32 – 140	-20 – 70	-4 – 158	-10 – 80	14 – 176	-20 – 426 ²	-4 – 799 ²
Thickness	mm / in.	1.0 – 2.0	0.04 – 0.08	2.0	0.08	0.8 2.0	0.03 0.08	5.0	0.19
Product features / special properties		Oil-resistant Non-adhesive		Good release Non-adhesive		Cut-resistant Wear-resistant edges Non-adhesive		Excellent heat- and flame-resistance	

²Cover temperature far exceeds base belt temperature.

Modifications to the cover and tooth side of a HabaSYNC® belt can enhance performance for your conveying and linear positioning applications. Please contact your nearest Habasit partner to discuss your ideas and application needs. The examples below show just a selection of what we can do.

Profile grinding

After covers are added, they can be ground to yield special designs to help maintain product control. Designs include slots, contours, v-shapes and round shapes.



Surface grinding

Grinding of the added cover can provide tight thickness tolerances and in many cases, deliver more friction from the conveying side of the belt.



Lateral machining

Profiling across the belt width can create holders or pockets, or reduce stress concentration on the cover as it flexes around pulleys.



Hole punching / perforations

Holes can be punched to provide the process and functional optimization you desire. If required, teeth can be partly removed in order to allow belts to be used in vacuum applications on product feed lines.



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HabaSYNC Products

[Product Data Sheets](#)

Habasit offers a comprehensive range of timing belt products.

Standard timing belts for general conveying and linear positioning



Metric and imperial pitches are made with white 92 Shore A TPU and steel or aramide tensile members. A wide range of widths – with or without special attachments or modifications – suits every conveying and positioning movement. [Overview](#)

Timing belts for food handling applications



Selected pitches with aramide tensile member are manufactured with transparent 88 Shore A TPU to run in dry food processing applications. With its good resistance to oils and solvents they are optimally capable to match all your needs. [Overview](#)

Antistatic timing belts for fragile product movement



Select pitches designed for movement of fragile and sensitive parts. Our belts are constructed with 88 Shore A transparent TPU and faced on the tooth and conveying side with antistatic fabric. They comply with ISO 9563. [Overview](#)

Timing belts for special applications



Belts designed to operate where general conveying and linear positioning conditions require extra strength, better wear or temperature resistance, increased friction or good hydrolysis features. [Overview](#)

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Covers

[Materials](#) [Surface structures](#)

Habasit offers a broad range of cover materials that provide the frictional benefits to handle your product effectively. The choice of cover material and surface structures is dependant on specific application needs and the material properties.

Covered timing belts are used in various applications and feature the following attributes:

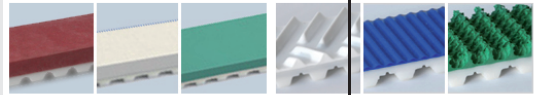
- Abrasion resistance
- Compressibility
- Electrostatic discharge – antistatic features
- Excellent release properties
- Gentle movement
- Heat resistance
- High or low coefficient of friction
- Shock absorption

Cover materials

Each material with its particular property characteristics offers very specific inherent features which boosts the performance of your synchronous product transfer application.

Cover surface structures

Distinctive structures support the needs of your application. Made of appropriate material they enhance feed, retard, compression, incline as well as many other special handling requirements.



Not all products are standard stock items in each country, please check with your local [contact](#).

Surface structures on timing belt covers

[back](#) [Materials](#)

Our structures offer these features:

- wear resistance
- compressibility
- food-grade covers
- good release
- heat resistance
- high friction
- low friction
- shock absorption

Feature and application

Additional wear resistance

Covers that provide longer belt life in applications where abrasion can occur between the product conveyed and the belt conveying surface.



- Smooth top surface
- Natural rubber
- Textile structure
- Rough textile structure

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Rossi is one of Europe's largest manufacturers of gear reducers, gearmotors, inverters, standard and brakemotors, and is a member of the Habasisit Group.

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