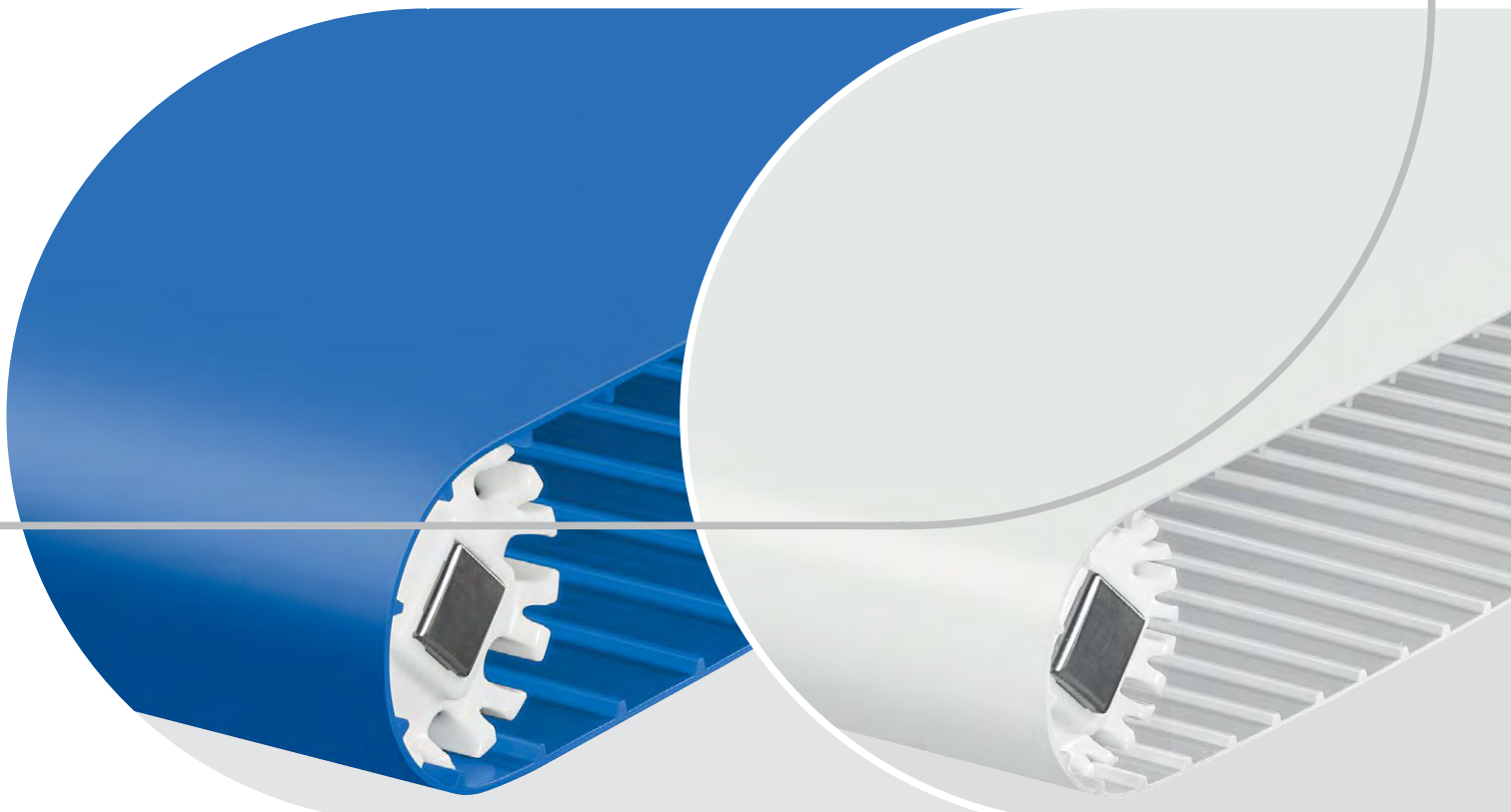
Habasit Cleandrive™

Aramid reinforced monolithic TPU conveyor belts



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Introduction

Habasit Cleandrive™ is a range of extruded, homogeneous conveyor belts manufactured in a width up to 1.8 m.

Habasit Cleandrive™ aramid reinforced monolithic TPU conveyor belts have been developed to contribute to safe and hygienic processing of food.

Supporting a wide range of applications, Habasit Cleandrive™ belts are manufactured in two versions:

- Sprocket driven positive drive
- Pulley driven friction drive

The monolithic belt design produced by our dedicated manufacturing technology meets food customers' most stringent hygiene requirements, while also delivering exceptional performance and cost efficiency.

Safe hygienic performance

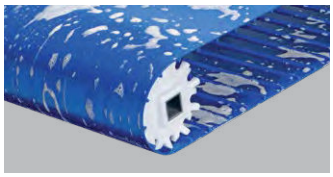
Premium TPU belt material for food safety
Habasit Cleandrive™ belts are manufactured using premium TPU, which features superior durability and hydrolysis resistance, and is inherently resistant to microbiological attack. The belt is designed to withstand the most aggressive cleaning protocols and chemical agents. They are able to operate in a wide temperature spectrum: from low-temperature freezer in-feeds to high-temperature fryer out-feeds.

Food safety
Habasit Cleandrive™ meets the currently relevant EU and US regulations applicable to conveyor belts in direct food contact and are certified by the Japan Food Research Laboratories (JFRL). For details, please contact your Habasit representative, or check our website for information on compliance with the respective food certificates (DoC – Document of Compliance)

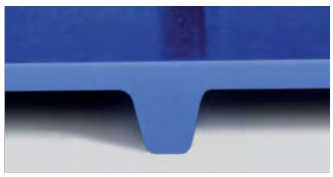
USDA Meat & Poultry and USDA Dairy approvals are available on some belt versions; please contact your Habasit representative.

Monolithic belt design for hygiene
The fully extruded monolithic belt design of Habasit Cleandrive™ belts is completely free of fabric members that could fray during use and pose a food safety risk. The solid yet flexible belt design is also free of the cavities, joining rods and crevices normally found in hinged belts, making Habasit Cleandrive™ belts very easy to clean.

Aramid reinforced belt design for performance
Habasit Cleandrive™ is designed with aramid tensile members for continuous dimensional stability. This extends the belt service life through reliable sprocket engagement and non-slip pulley action, which reduce belt wear, maintenance and downtime. The cords are fully embedded in the thermoplastic material and do not pose any food safety risk.



Premium TPU belt material: superior abrasion resistance and hydrolysis resistance



Fully extruded monolithic belt design and hygienic round corners

Cords maintain tension for reliable sprocket engagement

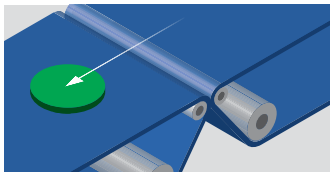
These benefits make the Habasit Cleandrive™ conveyor the safe choice for hygiene-sensitive food processing applications.

Habasit Cleandrive™ friction drive

The advanced design of Habasit Cleandrive™ friction drive conveyor belts meets customers' most complex process requirements, while also providing stringent hygiene and high cost-efficiency.

Increased processing yield
Habasit Cleandrive™ friction drive conveyor belts with their flexible yet strong construction cater for the smallest possible pulley diameters, thus minimizing product damage and product loss in transfer situations, and improving processing yield.

Habasit Cleandrive™ friction drive monolithic conveyor belts are the right choice when the food processing application requires maximum hygiene and/or easy transfer of products.



Narrow transfers possible

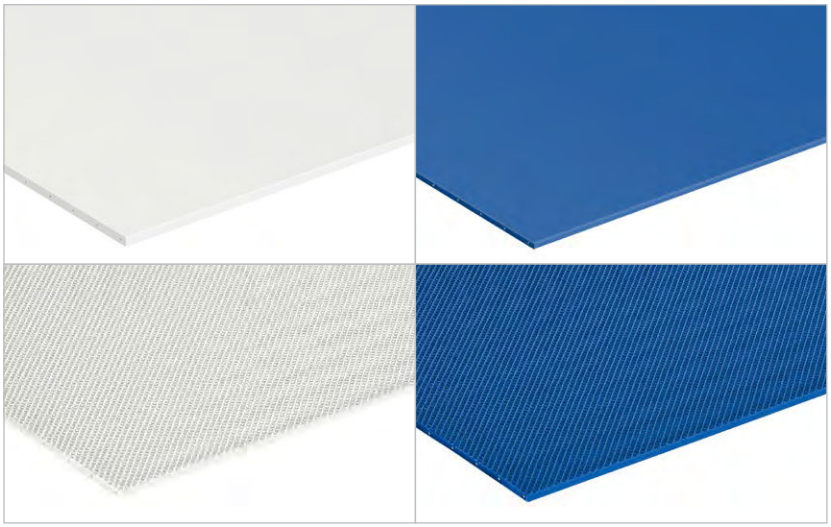
Product Range Overview – Friction drive belts

CD FD3
Colors: cobalt blue and white

Surface: smooth
Min. diameter = 30 mm / 1.18"

Surface: waffle
Min. diameter = 35 mm / 1.38"

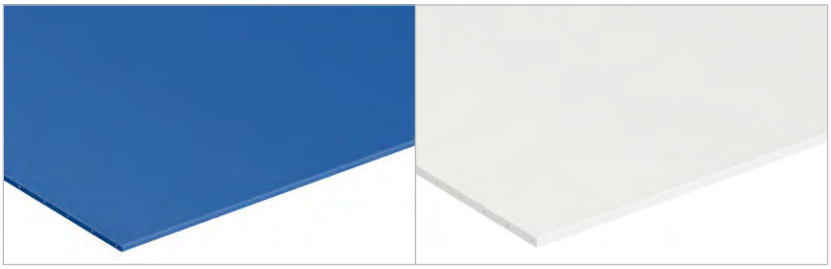
Hygienic alternative
to coated fabric belts



CD FD2
Colors: cobalt blue and white

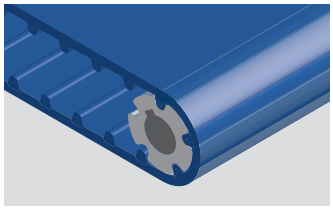
Surface: smooth
Min. diameter = 25 mm / 0.98"

Ideal for narrow transfers



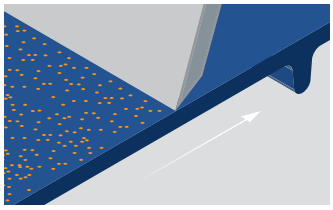
Habasit Cleandrive™ positive drive

Habasit CleandriveTM positive drive aramid reinforced monolithic conveyor belts deliver significant advantages for wet and dry applications in the food processing industry.

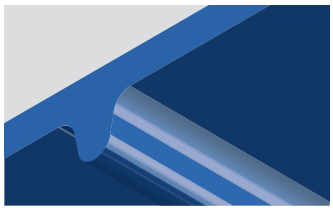


Easy conveyor construction, installation and retrofit
Habasit Cleandrive™ belts reduce the amount of design work needed when building a conveyor. Their zero-tension belt design eliminates the need for special active sprocket engagement, which reduces complexity and cost, and extends belt lifetime due to less abrasion.

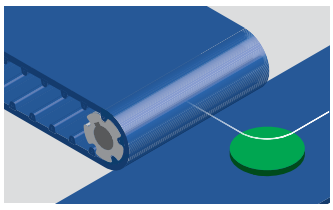
Aramid reinforced design
Aramid cords guarantuee reliable sprocket engagement and dimensional stability without the risk of fraying.



Scraper friendly
Our proprietary manufacturing process allows us to produce Habasit Cleandrive™ belts with a completely even surface, free of depressions and sink marks. This facilitates a very scraper-friendly solution, as all residual products can be safely removed by a scraper, which maximizes yield, reduces the risk of cross-contamination, and makes the belt easier to clean.



Hygienic design
Hygienic design plays an increasingly important role in food-safe production. Smooth, rounded shapes make it easy to remove foodstuff residues – even from the backside of the belt.



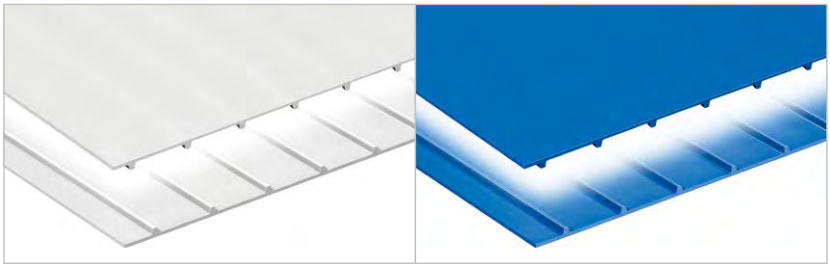
Narrow transfers
Flexible and strong construction allows the smallest possible pulley diameters, thus minimizing product damage and loss in transfer situations.

Product range overview – Positive drive belts

CD M50
Colors: cobalt blue and white

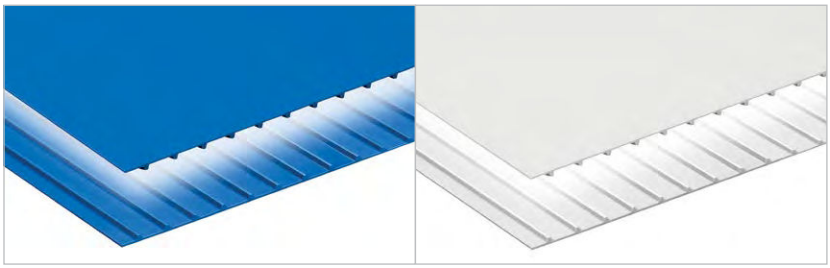
Surface: smooth
Min. pitch diameter = 80.8 mm / 3.20”

All-purpose conveying
Smallest 2" drive pulley on the market



CD M25
Colors: cobalt blue and white
Surface: smooth
Min. pitch diameter = 60.1 mm / 2.37”

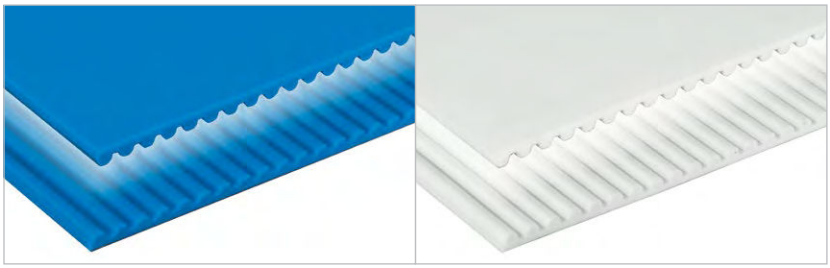
Compact installations
Narrow transfers



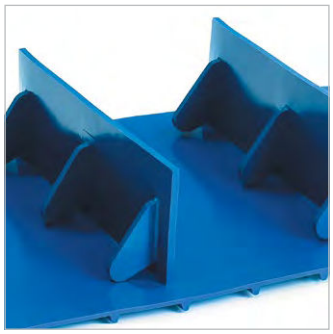
CD H5
Colors: cobalt blue and white

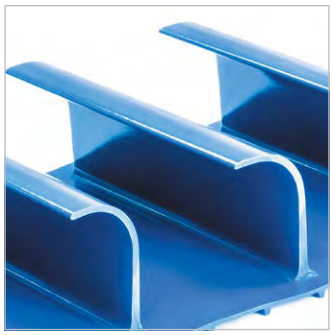
Surface: smooth
Min. pitch diameter = 60.1 mm / 2.37"
Min. pulley diameter = 20 mm / 0.8"

Compact installations
Narrow transfers



Custom fabrication

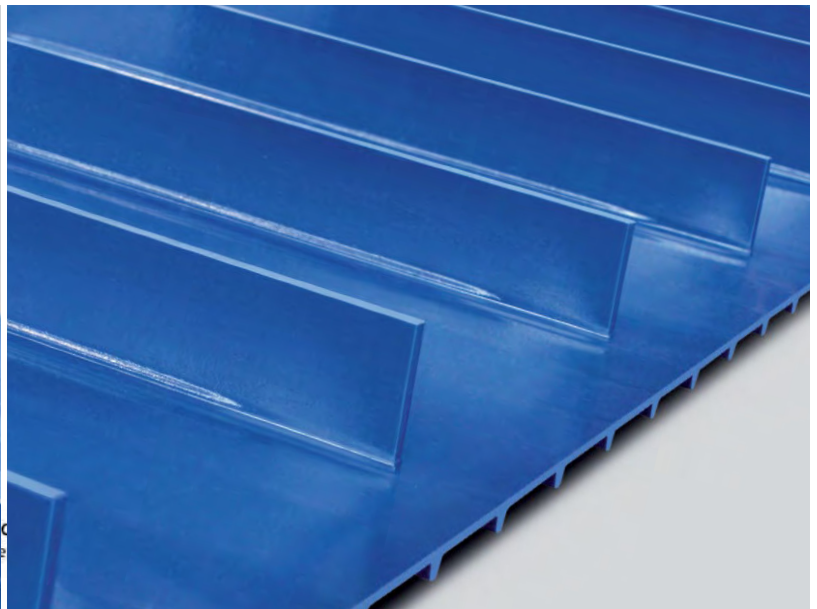




The use of options and modifications to Cleandrive™ belts can enhance the possibilities in your applications. Options such as flights, sidewalls, guiding profiles and different machining sources can optimize the product and improve the usage.

Standard and customized flights
A variety of standard flight solutions can be found in the chapter “Profiles” (page 10). Depending on the application and product shape, customized flights can be cut out of flat flight material according to your drawings. Customized flights can help to support or convey products.

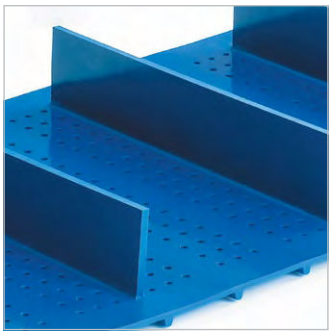
Flight gussets
In order to support flights in heavy duty applications, gussets can be applied to the back side of flights.



Standard and customized sidewalls
Sidewalls can be added in different height and thickness.
For technical information, see chapter “Sidewalls” (page 12).
Customized sidewalls help to optimize the belt features to specific application needs.

Grinding guiding slots (grooves) for supports or profiles
In positive drive Habasit Cleandrive™ belts, slots can be grinded through the drive bars in running direction for different purposes, such as better belt tracking. In addition, profiles can be welded into the slots for guiding purpose as well. The edge sections of the drive bars can be grinded away to close gaps at the belt edge and to guide the belt.

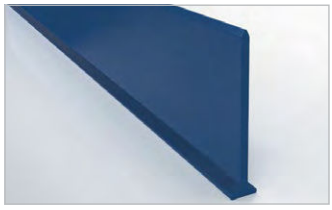
Cutting flush holes
For applications in wet surrounding the belt can be produced with machined holes in order to flush water away in front of flights or throughout the whole belt.
Note: Holes can only be cut between the cords.



Belt accessories – Profiles / Cleats

TPU Flat

Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Thickness [mm]	**Product name**	
1.3		E-FB13-HW-C100
2.2		E-FB22-HW-C100
5.0	E-FB50-HC-C25	E-FB50-HW-C50

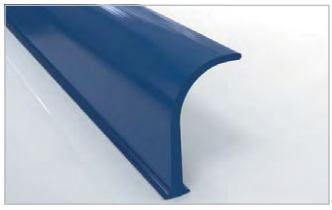


E-PN Narrow

Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Height [mm]	**Product name**	
30	E-PN30-HC-B100	E-PN30-HW-B100
60	E-PN60-HC-B43	E-PN60-HW-B43

E-PQ Rectangular

Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Height [mm]	**Product name**	
8	E-PQ08-GC-B300	E-PQ08-GW-B300
12	E-PQ12-GC-B150	E-PQ12-GW-B150
16	E-PQ16-GC-B150	E-PQ16-GW-B150

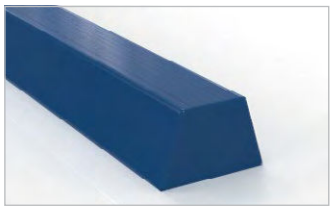


E-PS Scoops

Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Height [mm]	**Product name**	
75 (3")	E-PS03-HC-B144	E-PS03-HW-B144
100 (4")	E-PS04-HC-B144	E-PS04-HW-B144
150 (6")	E-PS06-HC-B72	E-PS06-HW-B72

Belt accessories – Tracking guides

Tracking guides are placed on the running side of conveyor belts. This provides true belt tracking in applications where long narrow belts are used for conveying products.
Tracking guides are also common where products are side loaded, which could otherwise cause a lateral shift in the belt's direction of travel.
The tracking guides can be notched or deep notched to provide maximum flexibility around the pulleys.



E-PV – Standard

Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Thickness [mm]	**Product name**	
6	E-PV06-GC-C300	E-PV06-GW-C300
8	E-PV08-GC-C200	E-PV08-GW-C200
10	E-PV10-GC-C200	E-PV10-GW-C200
13	E-PV13-GC-C100	E-PV13-GW-C100

E-PV+N – Notched

Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Thickness [mm]	**Product name**	
6	E-PV06-GC-C300+N	E-PV06-GW-C300+N

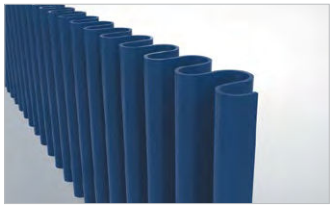
E-PV+NN – Deep notched

Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Thickness [mm]	**Product name**	
8	E-PV08-GC-C200+NN	E-PV08-GW-C200+NN
10	E-PV10-GC-C200+NN	E-PV10-GW-C200+NN
13	E-PV13-GC-C100+NN	E-PV13-GW-C100+NN

Belt accessories – Sidewalls

Habasit Habibord flexible and wear resistant corrugated sidewall profiles can be applied on TPU conveyors and processing belts.

Profiles are applied to the conveying side of a belt using a high-frequency welding process. Habibord can be used in a wide range of applications in order to contain bulk goods at the sides of conveyor belts. Pre-formed flat profiles can be cut down in height; the excellent flexibility of the polyurethane permits small pulley diameters.

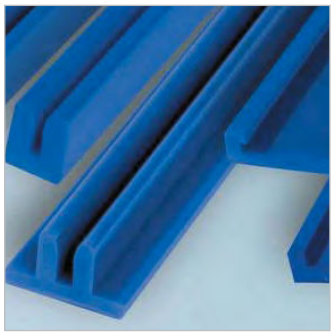


E-PL Standard / E-FB

Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	●	●
Hydrol. Resist.	●	●
Thickness [mm]	**Product name**	
1.3	E-PL13-HC-B40	E-PL13-HW-B40
2.2	E-FB22-HC-C100	E-FB22-HW-C100

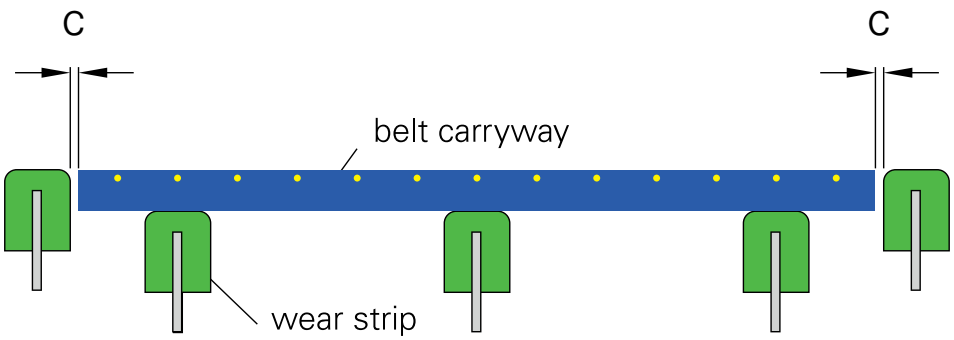
Belt accessories – HabiPLAST™ guides and wear strips

Our HabiPLAST™ range of guides and wear strips offers hygienic conveyor accessories.



Key features:

- Low coefficient of friction
- Self-lubricating
- Good vibration and noise absorption
- High wear resistance
- High chemical resistance, no corrosion
- No moisture absorption
- High dielectric strength
- High impact and fracture strength



Belt accessories – Sprockets

Habasit Cleandrive™ HyCLEAN series M2
Habasit Cleandrive™ HyCLEAN sprockets guarantee the highest reliability and very easy cleaning thanks to hygienic rounded surfaces that are free of crevices.

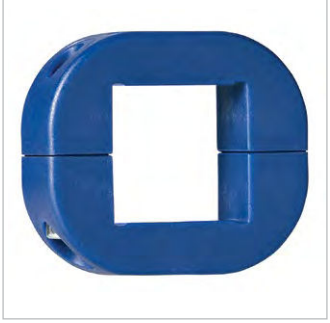
HyCLEAN series sprockets are designed for standalone performance but can be ideally combined with our HyCLEAN CIP automated cleaning system.

For further details, please contact your local Habasit representative.

Habasit Cleandrive™ series C3
A wide range of machined sprockets guarantuees the best fit for all Habasit Cleandrive™ types and pitch sizes.

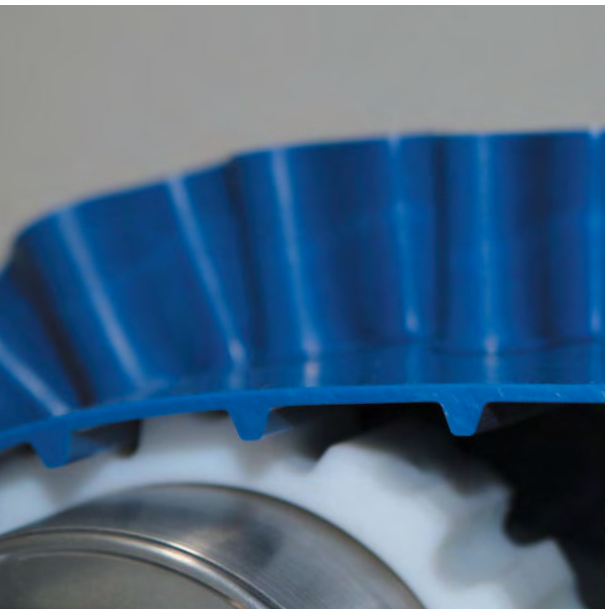
Different materials and customized sprockets are available to meet your specific application requirements.

For detailed information and support please contact your local Habasit partner.



Retainer Rings
The series of matching retainer rings round or square bore shapre can be used for axial fixation of sprockets and idlers.

The design supports easy installation from one side, no shaft turning for screw fixing is necessary.



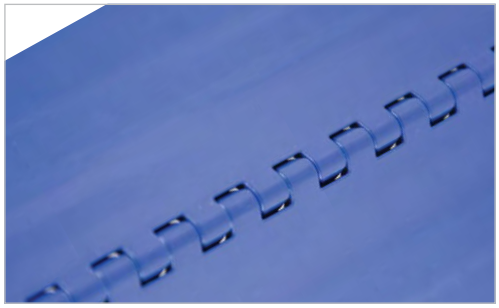
Lacing and joining

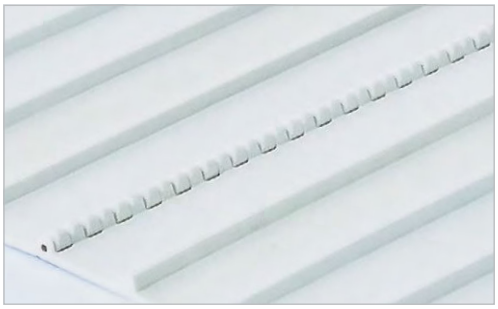
Habasit CleandriveTM belts are available as open end belts or endless welded.
In addition to this, mechanical joinings can be used for faster maintenance and installation.

Hygienic endless belt joining
Our newly developed Quickmelt joining technology produces a continuous and smooth joining area that is free of crevices and cracks. A short installation time is all it takes to fit a belt on-site that offers high belt strength and easy-to-clean joining.

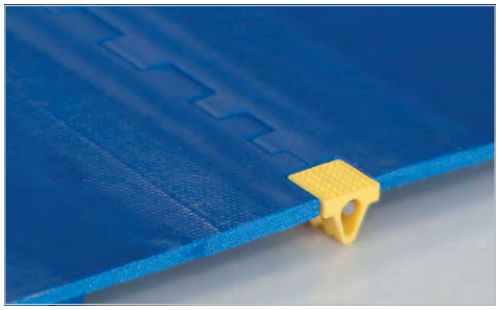
1" and 2" Mechanical Lace
Optional to the welded joinings Cleandrive™ belts can be supplied with a mechanical lacing to open and close the joining with a plasic or steel rod. Mechanical lacings are available for FD and PD belts only. This product offers an exciting solution to meet the strictest sanitation requirements.
The mechanical lace facilitates a very quick opening and closing of the belt, giving you the following benefits:

- Simple assembly and disassembly
- Easy cleaning and maintenance
- Reduced downtime





Habasit SaniClip
For the 2" Habasit Cleandrive belts, the smart SaniClip solution offers even better flexibility and easier belt disassembly, which not only reduces maintenance costs but also improves sanitation by encouraging belt removal instead of cleaning on the conveyor.



Hot-pressing devices – Details

PQ-03

The PQ-03 heat press series has been specifically developed for joining Habasit Cleandrive™ series belts up to 10 mm thick using the Quickmelt method. The press is compact, lightweight and easy to use. It does not need water for cooling and there are no exposed hot parts.

Details			Power supply					Product type				Method			Dimensions				Press details			
Max belt width	Ordering code	P/N	Power [W]	1 x 120 V	1 x 230 V	3 x 230 V	3 x 400 V	Conveyor belts	Habasit Cleandrive™	Power transmission	Machine tapes	Flexproof	Quickmelt	Thermofix	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Kit version	Control unit	Cooling unit	Press accessories
PQ-03 Habasit Cleandrive™																						
400	H088000521	PQ-403/8	1000		•				•				•		670	165	230	15	Mobile	PFR-101		
	H088000520	PQ-403/6	1000	•					•				•		670	165	230	15	Mobile	PFR-101		
600	H088000412	PQ-603/8	1200		•				•				•		900	150	200	19	Mobile	PFR-101		
	H088000411	PQ-603/6	1200	•					•				•		900	150	200	19	Mobile	PFR-101		
1300	H088000457	PQ-1303/8	2900		•				•				•		1690	165	260	62	Mobile	PFR-101		
	H088000456	PQ-1303/6	1600	•					•				•		1690	165	260	62	Mobile	PFR-101		
1800	H088000506	PQ-1803/5	4700				•		•				•		2220	300	320	89	Mobile	PMR-07/5		
	H088000505	PQ-1803/4	3600			•			•				•		2220	300	320	89	Mobile	PMR-07/4		

Hot-pressing devices – Control units

	PMR-07	PFR-101
Model	Lite	Portable
Temperature regulation	Yes Both plates Individual control	Yes Both plates Individual control
Time control	Yes	Yes
Joining parameters	No	No
Pressure control (Mobile)	By external compressor	No
Cooling control (Mobile)	Auto (PM-04/8)	Yes
Pressure control (Stationary)	Manual (PMC-07)	
Cooling control (Stationary)	Auto (PMC-07)	