

Habasit[®] Cleanline

Conveying new quality
to food production processes



Meeting the challenges

Delivering excellence

At Habasit, we share your total commitment to quality. Drawing on our decades of industry experience and innovative research and development, we provide the belting solutions and products you need to meet your most demanding conveying and application challenges. Habasit is here to help you achieve maximum operational productivity, competitiveness and profitability alongside zero compromise on food safety.

Food industry challenges

Because raw and cooked product is in direct contact with conveyor belts at many stages of the production process, equipping these applications with the most hygienic belts is essential to ensuring faultless food safety.

Alongside solving food safety issues, we know that food producers are also looking to reduce downtimes, minimize the manpower involved in belt supervision and cleaning, and lower the costs of water, energy and cleaning agents. Such savings not only increase competitiveness, they also contribute towards a more environmentally sustainable world.



The cost of poor quality

Breakdowns and unplanned maintenance lead to costly repairs, lost production time, and lower revenues. Each belt replacement or repair can take from one to four hours, with the cost of just one hour of lost production ranging from USD 10,000 to USD 100,000 - depending on the product involved and the size of the production plant.

Inferior equipment also leads to product damage and quality issues, with even more serious consequences for the food industry, including long and disruptive sanitation procedures, shorter food shelf-life, contamination risks, and potential product recalls. Furthermore, the reputational damage caused by a food-safety health threat to consumers could even endanger the survival of your business.

Customer benefits

The Habasit® Cleanline belt range has been designed to meet the most stringent demands of the food industry and comply with all relevant EU and FDA food regulations. Featuring a specially modified thermoplastic olefin (TPO) coating in white or cobalt blue, these belts offer numerous added-value benefits.



Outstanding release properties



Thanks to the belts' special coating, even very sticky food products, e.g. those containing sugars or starch, will not adhere to the belt. This means that they can be easily

transported without product loss or damage. The coating also enables a reduction in the use of processing agents such as oil or flour; easier and quicker cleaning of the belts; and potentially increased belt lifetimes. Which all adds up to significant savings on manufacturing costs, as well as environmental advantages.

Superb chemical and hydrolysis resistance



Habasit Cleanline belts withstand disinfection using chlorine and hot water (up to 80° C), and are resistant to almost all acidic and alkaline cleaning agents.

This ensures proper sanitation and has a significant positive impact on maintenance costs even in wet or humid environments.

Limited risks of cross contamination



Due to the excellent surface properties of the belts, which allow perfect release, microorganisms are easy to remove during cleaning. The surface coating is free

of micro-cracks, and has very low porosity. Additionally, all Habasit Cleanline belts have wear resistant belt edges.

High flexibility even at low temperatures



The majority of Habasit Cleanline belts are suitable for use with nosebars (radius 2 mm or 4 mm), which enable tight product transfers to the next conveyor without loss of product.

Technical specification

Conveyor belts with a thermoplastic olefin coating are used for belt surfaces requiring excellent chemical resistance and outstanding product release. The table below shows the key technical characteristics of Habasit Cleanline belts.

Product name	Thickness [mm]	Min. pulley diameter		k1% (after relax) [N/mm]	Min. temp [°C]	Max. temp [°C]	Conveying side cover		Traction layer
		w/o counter flecion [mm]	w/ counter flecion [mm]				Structure	Color	No of Layers
CNB-7EZCO-A1	1.4	20	25	5	-30	80	Silk finish	Cobalt blue	2
CNB-7EZWO-A1	1.4	15	25	4.6	-40	80	Silk finish	White	2
CNB-5EVWW-A1	2.3	40	50	3.2	-40	80	Matt	White	2
CNB-6EVWQ-A1	1.5	40	50	3	-40	80	Matt	White	2
CNI-6EB	0.9	15	20	4.2	-40	60	Impregnated fabric	White	2
CNW-5E-A1	1.9	30	50	3	-40	80	Waffle structure	White	2
CNW-6EB-A1	1.5	25	40	3.4	-40	80	Waffle structure	White	2
CNW-6EBC-A1	1.5	25	40	2.8	-40	80	Waffle structure	Cobalt blue	2
CAB-6EB	1.05	15	20	3.4	-40	70	Glossy	White	2
CNB-6EB-A1	1.1	15	20	3.2	-40	80	Matt	White	2
CNB-6EBC-A1	1.1	15	20	3.2	-40	80	Matt	Cobalt blue	2
CNB-5E-A1	1.4	20	40	3.4	-40	80	Matt	White	2
CNB-5EQ-A1	1.4	20	40	4.6	-40	80	Matt	White	2
CNB-8E-A1	2	50	70	5.5	-40	80	Matt	White	2

*Suitable for metal detector applications

Tight knited bottom fabric	Frayless	Wear-resist. edges	Pulley side			Antistatic*	Nosebar-suitable, min. radius [mm]	Troughed	Power turns
			Material	Structure	Color				
No	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	4	No	No
No	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	4	No	No
No	No	Yes	Thermoplastic olefin	Waffle structure	White	Yes	No	No	No
Yes	Yes	Yes	Thermoplastic olefin	Quadrangular structure	White	Yes	No	No	No
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
No	No	Yes	Polyester (PET)	Impregnated fabric	White	Yes	No	No	No
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
Yes	Yes	Yes	Polyester (PET)	Impregnated fabric	White	Yes	2	Yes	Yes
No	No	Yes	Polyester (PET)	Impregnated fabric	White	Yes	No	No	No
No	No	Yes	Polyester (PET)	Impregnated fabric	White	No	No	No	No
No	No	Yes	Polyester (PET)	Impregnated fabric	White	Yes	No	No	No

Accessories & fabrication

Habasit Cleanline range is the solid
and reliable solution for every conveyor
or processing line.

Habasit offers a full range of complementary products to ensure the best possible solution for your application needs.

TPU scraper bar

Belt scrapers are an essential component on the production line in many sectors, but particularly in the food processing industry. Scrapers are used to remove sticky parts of the transported goods from the belt. This prevents spillage and material accumulation on the return rollers, which could potentially lead to bacterial growth and food contamination. While belt scrapers must be efficient, they must also avoid scratching or damaging the belt surface, which can decrease belt lifetime. If belt cleaning is not properly performed, material leaks at transfer points can accumulate extra material on the roller drums, causing tracking problems and belt edge damage.



Key advantages of using the Habasit TPU scraper bar

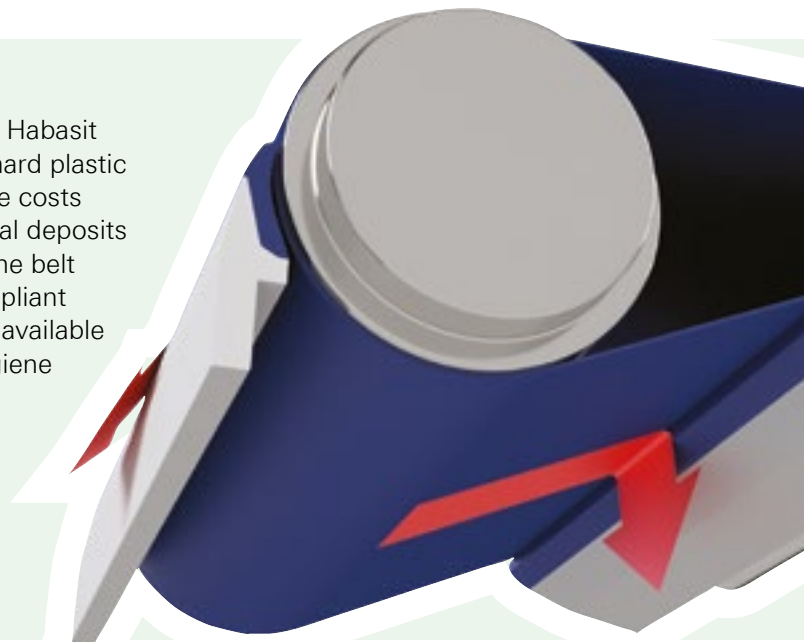
While classic belt scrapers are usually completely inflexible, the Habasit TPU scraper bar has the advantage of a flexible tip, which translates to three key advantages:

- **No risk of damaging the belt surface** due to the reduced pressure applied between the scraping bar and the belt.
- **More efficient cleaning** since the TPU scraping tip follows the belt surface at all times. The flexible tip also offers an advantage over metal or hard plastic scrapers mounted on a flexible rig, as rigid material on a tip lets belt irregularities push the scraping bar away from the roller, resulting in uneven cleaning.
- **Easier cleaning** as liquids like oil, water and detergents are better dealt with by a flexible TPU scraper bar that maintains continuous contact with the belt surface.



Due to their TPU polyether or polyester tip construction, Habasit TPU scraper bars cannot damage the belt cover, unlike hard plastic or metal scrapers. This translates into lower maintenance costs and reduced downtime. It also means less risk of material deposits and bacterial formation, as grooves are not created on the belt surface. Habasit TPU scraper bars are food-contact compliant and fulfill both EU and FDA requirements. They are also available in X-ray and metal-detectable versions for additional hygiene and food safety procedures.

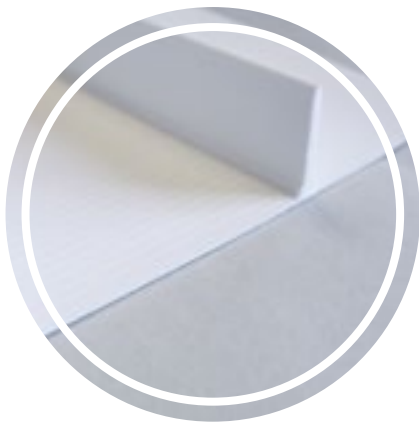
The combination of a TPU scraper bar with a Habasit Cleanline belt supports fast and efficient cleaning that ensures the highest level of hygiene and food safety.





TPO Cleats

Habasit Cleanline belts are now available fabricated with T-shaped TPO cleats and quadrangular-shaped profiles. The T-shaped TPO cleats are made of an exclusively produced material, and are perfectly bonded to the belt surface using a specially developed welding process.



TPO cleats offer the stiffness required to convey goods on steep inclines, with good product release and food contact compliance in line with the proven Habasit Cleanline range.

Four different heights of TPO cleats are available: 20, 30, 40 and 50 mm, to cover the majority of cleated light food belt applications. They are ideal for incline/ decline applications or for handling small and sticky bulk goods.



The quadrangular-shaped profiles can be used as cleats on Habasit Cleanline conveyor belts. In addition to their use in incline/decline applications where improved grip is needed, or for chevron configurations, they can also be placed longitudinally as a side barrier. The profiles are applied to the belt surface using a hot air welding process.



V-Guiding profiles

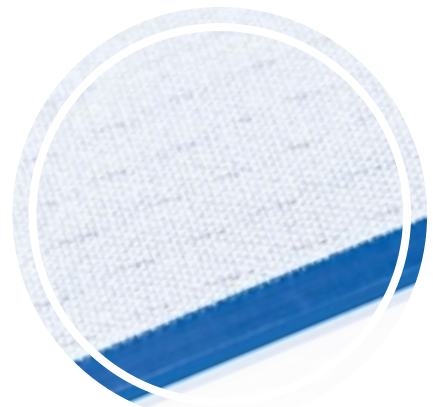
V-guiding profiles can be used on the bottom side of Habasit Cleanline belts to limit tracking problems or for product separation. As every Habasit belting solution is different, the use of V-guiding profiles will be carefully evaluated by your Habasit engineer in order to offer the best possible solution.



TPO edge sealing profiles

Edge sealing profiles are used to seal belt edges to prevent oil, fat, water and other substances from penetrating the belt, and to avoid fraying. The profiles are applied using a special fabrication process.

Belt edge sealing is particularly important in the food industry, where hygiene is a basic requirement.



CNB-6EBC-A1

drastically cuts scrap

Over USD 20,000 in monthly savings

Customer background

A major cranberry processor in the USA.

Application

Transport of sweet and sticky cranberries on a 20 degree incline conveyor to the packaging section.

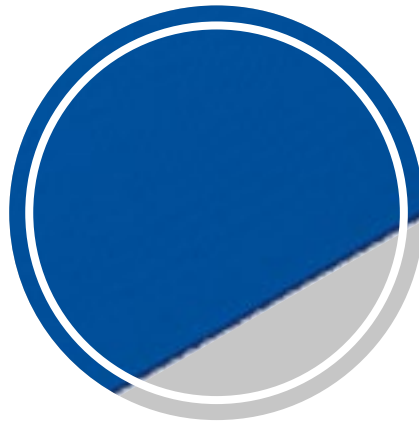
Challenge

The build-up of sticky dehydrated cranberries clinging to the joints between previously installed belt modules was leading to accumulation. There were also high amounts of scrap when the product was transported around the end of the conveyor and dropped onto the floor or into scrap bins. Thousands of kilos of product were being lost weekly, adding to the labor costs of cleaning the machinery and removing the waste.

To solve the costly scrap problem, the food processor required a food-approved belt with high release characteristics, a smooth surface structure, and suitability for inclined conveying of a sticky food product.

Habasit's solution

Habasit satisfied this requirement by retrofitting the modular belt with the CNB-6EBC-A1 fabric belt, which features a modified TPO coating that boosts release properties. The uniform high-release surface of the CNB-6EBC-A1 also meant there was nowhere for product to become trapped and cling to the surface.





Benefits

Once installed, the CNB-6EBC-A1 eliminated the sticky build-up and ensured successful transfer of the product to the packaging process. As a result, the customer virtually eliminated product waste between processing and packaging, increased throughput, cleared floorspace of containers full of waste product, eliminated safety hazards due to slippery product dropping onto the floor, and made more effective use of employees tasked with waste removal and cleaning activities.

Overall, by retrofitting to Habasit's high-release Cleanline fabric belt, the food processor enjoyed substantial monthly savings:

- USD 20,280 each month in redeemed product
- USD 3,500 in belt replacement savings
- Significantly reduced labor and material costs



To read more success stories visit the Habasit website: www.habasit.com

CNB-6EB-A1

ends mistracking and costly cleaning

Over 600 less hours of sanitation

Customer background

A North American snack food producer.

Application

Transfer of granola and protein bars.

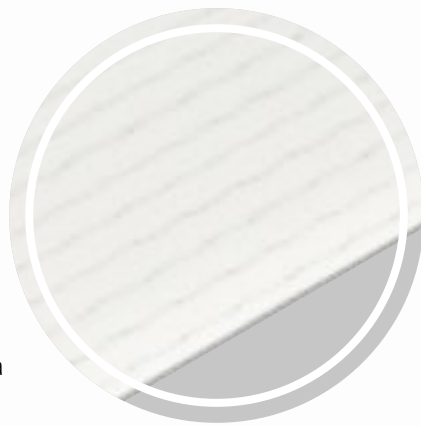
Challenge

The previously installed 1-ply fabric belt used in the production of granola and protein bars was experiencing problems including mistracking and crease lines after sanitation, yellowing, and poor release characteristics. During system audits, the noticeably worn and yellowed belts were failing inspections, leading to regular replacements.

To improve belt lifetime, the snack food producer required a food-approved fabric belt suitable for tight nosebars, which also offered better lateral strength and release characteristics than the existing competitor's belt.

Habasit's solution

Habasit satisfied this requirement with the Cleanline CNB-6EB-A1, a white 2-ply belt that resists fold marks, maintains tracking, withstands yellowing, and promotes release through a specially modified thermoplastic olefin coating.



Benefits

Once installed, the CNB-6EB-A1 lasted twice as long as the previous belt, with no mistracking, yellowing, or lengthy sanitation procedures to remove sticky product. The added lateral strength and proprietary coating proved effective in enhancing performance and extending belt lifetime.


Overall, the snack food producer experienced substantial annual savings:

- USD 12,000 in reduced maintenance for replacements
- USD 36,000 in lower salaries due to 600 fewer hours of sanitation
- Added value through competitive pricing for replacement belts



To read more success stories visit the Habasit website: www.habasit.com

Our services



Our commitment to our customers' success is what drives our continuous innovation and product and service improvements. We combine engineering expertise with dedication to reliability, to create lasting value for our customers.

Global leadership, local service

Habasit is your local partner with global reach. With 30 affiliated companies, each with its own inventory, fabrication, assembly, and service facilities, plus our worldwide network of partners, we react quickly and expertly to meet your most complex installation challenges.



Comprehensive technical support

from belt selection to design assistance
Extensive knowledge of our customers' processes lets us guide you from application analysis to selecting the optimal solution. We offer online calculation and belt selection tools, as well as on-site engineering assistance and equipment design, to make sure you get the best solution.



Process optimization and everyday efficiency

Innovation comes from understanding our customers' daily challenges. Habasit is more than a belting company. Our experts can provide belt condition monitoring, regular inspections, analysis, and surveys at your sites, to keep your lines running smoothly and fully optimize your equipment and production processes.



Sharing knowledge and making business easy

Habasit offers training programs and support tools to ensure optimal use of our products, with training on fabrication, installation, assembly, maintenance and belt repair either at a Habasit site or your own location. Orders, shipping and tracking can be managed via our Customer Care team, or directly online.

Committed to innovation beyond the obvious

Because our customers' challenges and needs are always changing, we are constantly investing in the research and development of new products and solutions not only for today, but also for tomorrow.

Habasit is a member of EHEDG

Our dedicated belting solutions aim to support the highest standards of hygienic equipment design.



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