

HyCLEAN Products

Habasit–Solutions in motion



HyCLEAN – tomorrow’s sanitation standards today

The creation and maintenance of optimal hygiene conditions is one of the greatest challenges faced by the food industry today. As a result, hygienic design and ease of cleaning are important prerequisites for equipment and components used in hygiene-sensitive food processes. Conveyor belts have a key role to play as they are often in direct contact with food.

The Habasit HyCLEAN plastic modular belt products have been developed to improve hygiene conditions and cleaning procedures in food processing areas.

The HyCLEAN package includes a new sprocket and a new 2" flat top module, both patented, with a unique hygienic design.

The HyCLEAN package also includes a new CIP (Cleaning in Place) system that enables faster and more reliable cleaning cycles, substantially less water-use, and lower labor costs.

The HyCLEAN package supports process improvements, risk reduction and cost savings.



Habasit HyCLEAN CIP – proven, awarded and EHEDG certified

The unique Habasit HyCLEAN CIP system was selected by an international jury as Silver Medal winner of the International FoodTec Award 2012.

Furthermore, Habasit’s HyCLEAN plastic modular belts, type M5060 and M5065 with sprocket and CIP system, were evaluated and certified by the EHEDG (European Hygiene Engineering and Design Group) to comply with hygienic equipment design criteria.



The Habasit range of products

Habasit is the only belt supplier to manufacture and offer the complete package of fabric-based and plastic modular belts, as well as complementary products and services for the food industry:

- HabasitLINK® and KVP® plastic modular belts
- HabaFLOW® fabric-based conveyor and processing belts
- HyGUARD® and HabaGUARD® antimicrobial belts
- HySAN® oil- and fat-resistant PVC belts
- Habasit Cleandrive™ extruded positive drive belts
- HabaSYNC® timing belts
- HabaCHAIN® slat and conveyor chains
- Habiplast® profiles, guides and wear strips
- Rossi gear reducers and gear motors

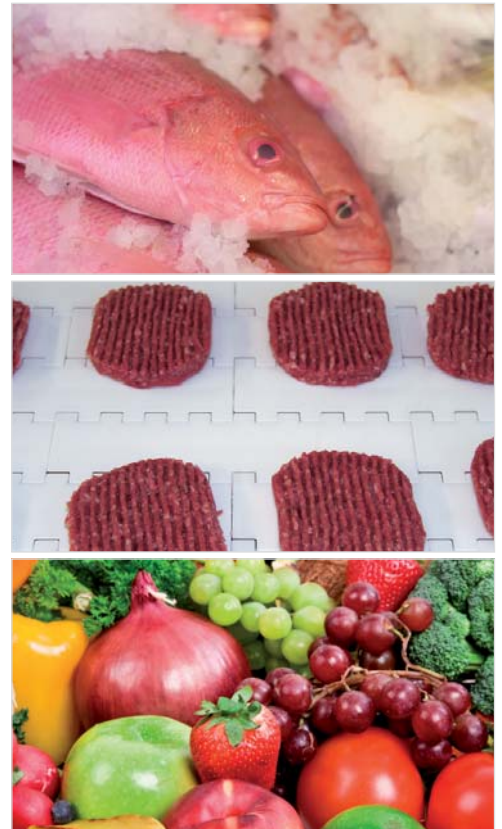


Industries and applications

HyCLEAN plastic modular belts offer an advanced hygienic design that ensures both reliable performance and optimal cleanability.

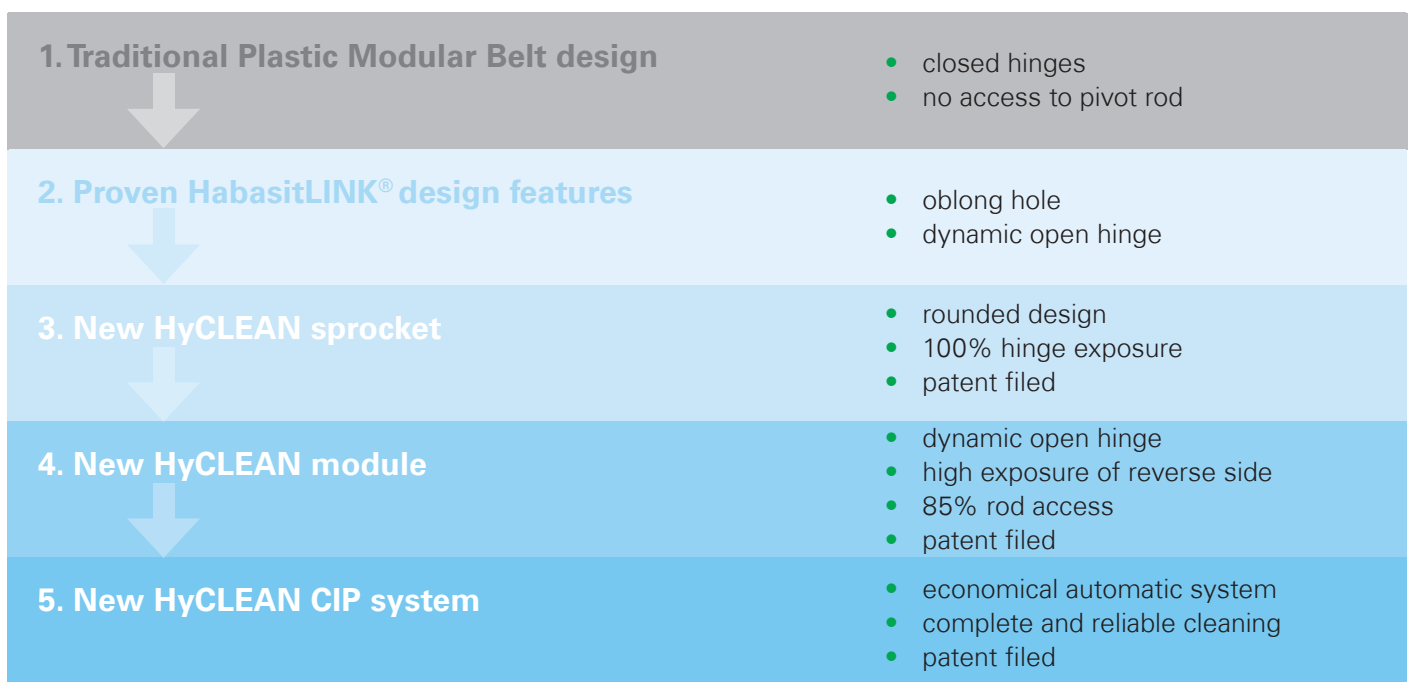
Wet food processing

- Meat processing
 - deboned, cooked, fried, and frozen processed meat
 - handling of large and cut pieces
- Poultry processing
 - whole bird and cut pieces
- Similar applications for
 - fish processing
 - fruit & vegetable processing (not for abrasive applications)
 - potato processing (not for abrasive applications)
- Other segments requiring hygienic design and easy cleaning




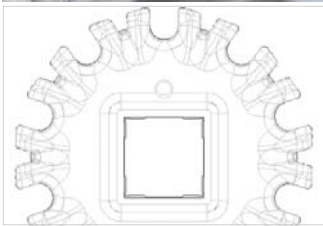






The evolution of Habasit's hygienic plastic modular belt designs

HyCLEAN is the result of a continuous evolution of hygienic design within Habasit's plastic modular belt product range.



HyCLEAN features and benefits

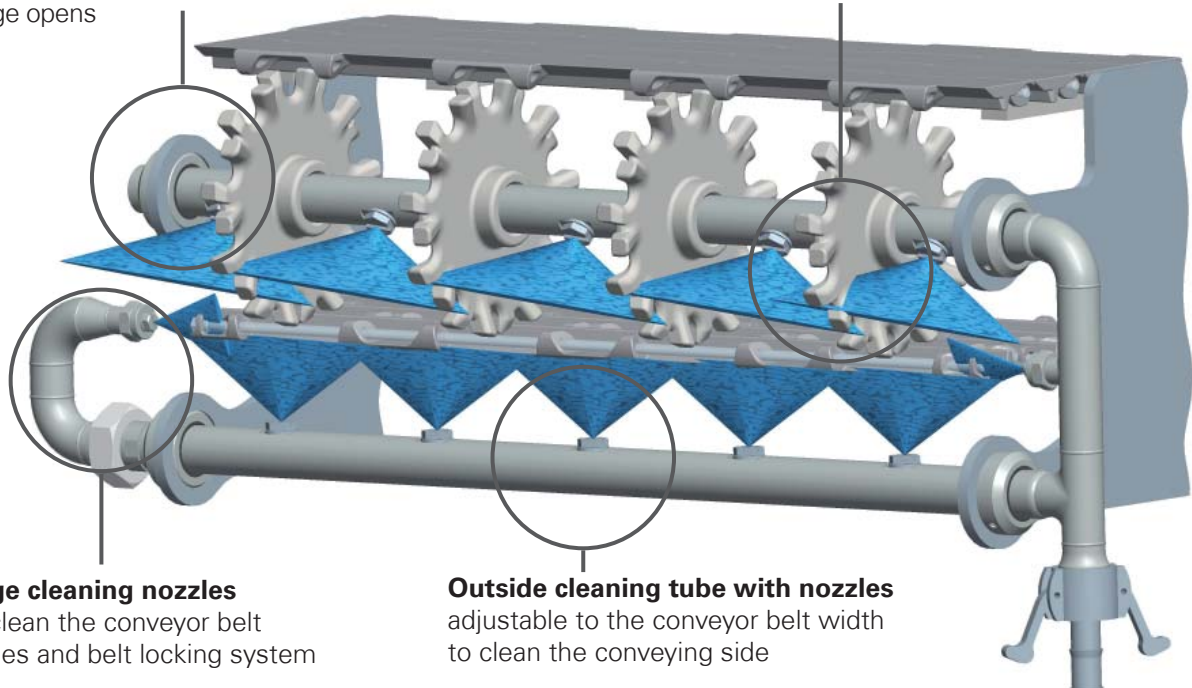
| | Features | Your benefits |
|---|---|--|
|   | <ul style="list-style-type: none"> • Rounded design, optimized for cleanability • Slot between teeth pairs • Minimized contact surface with belt reverse side • Highest exposure of critical belt reverse side area • 100% hinge exposure over entire belt width – unique in the market • Excellent suitability for CIP systems | <ul style="list-style-type: none"> → Best water accessibility → High cleaning efficiency → Reduced cleaning time → Cost savings in terms of labor, cleaning agents and water |
|  | <ul style="list-style-type: none"> • Proper, forgiving and smooth engagement • Robust design (no windows) • Reduced noise development | <ul style="list-style-type: none"> → Suitable for heavy duty applications → Less downtime → Longer belt life → More worker friendly |
|  | <ul style="list-style-type: none"> • Unique teeth design (patented) | <ul style="list-style-type: none"> → Compatible with M5010, M5060, M5065, and typical flat top products |
|  | <ul style="list-style-type: none"> • Unique new hygienic design with dynamic open hinge • Extra wide open links and oblong holes • Seamless belt width up to 24" (609 mm) | <ul style="list-style-type: none"> → Easy release of debris → Quick and complete cleaning → High cleaning efficiency → Time and cost savings → 85% rod surface access |
|  | <ul style="list-style-type: none"> • Polished, shiny reverse side | <ul style="list-style-type: none"> → Minimizes soiling and adherence of food residues → High cleaning efficiency → Time and cost savings |
|  | <ul style="list-style-type: none"> • Smart fit rod retaining | <ul style="list-style-type: none"> → Easy belt installation, removal and maintenance |
|  | <p>HyCLEAN package containing:</p> <ul style="list-style-type: none"> • HyCLEAN modular belts • HyCLEAN sprockets • HyCLEAN CIP system | <ul style="list-style-type: none"> → Cutting edge – optimized hygienic design → Ideal combination to gain best cleaning results and efficiency |

The HyCLEAN CIP system

The new HyCLEAN CIP system (patent pending) has been developed to satisfy the need for a modular, customized, economical automatic cleaning system for the complete and reliable sanitation of plastic modular belts in hygiene-sensitive food processes.

Spray shaft with sprockets and nozzles, adjustable to the conveyor width – to clean inside-out at position where the dynamic open hinge opens

Spraying pattern on spray shaft with nozzles allows the overlapping water spray to clean over the whole belt width



The Habasit HyCLEAN CIP system was developed to innovate cleaning efficiency of plastic modular belts and other belting products. It enables the following proven benefits:

- Eliminates risks of manual cleaning procedures
- Supports hygienic processing and consumer safety
- Ensures reliable microbiological belt cleaning results
- Reduces downtimes, enables longer processing runs
- Lowers costs in terms of water and detergents
- Saves your employees' valuable time
- Enables attractive cost/value ratio – payback on average conveyor systems about one year
- Complies with hygienic design criteria

Summarized, the HyCLEAN CIP is an innovative tool for sustainable, hygienic food processing, supporting HACCP and other process quality management systems.



- Saves up to 70 % water
- Improves cleaning efficiency
- Reduces chemical usage

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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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