



Boost your freezer
productivity

KEEPING IT
RUNNING

GEA Q-belt

Turnkey service concept
for self-stacking freezer equipment



engineering for
a better world

gea.com

Robustness and reliability meets consistent service

The GEA Q-belt is a robust, reliable and customizable self-stacking solution designed to outlast and out-perform existing self-stacking solutions. It features a patented interlocking design which minimizes friction between tiers of long belts, and thereby improves stability and durability. The Q-belt offers a turnkey service concept: a comprehensive service package that is a one-stop shop for addressing all our client's needs.

Turnkey service concept

The Q-belt offers a complete solution that provides the right level of customer service at every step, and offers tailor made packages spanning regular inspections and maintenance, repair, turnkey support and on-site personnel expert training. The Q-belt is a solution designed to help your self-stacking freezers run efficiently and offers long-term dependability, thereby reducing overall total cost of ownership and downtime.

Upgrading to reduce total cost of ownership

As market demands change and regulations are updated, we can work with you to configure the most efficient and sustainable upgrades that will take your equipment to the next level, keep you flexible, competitive, and up-to-date with the most stringent regulatory requirements.

Our upgrades are customized component packages that deliver cost-effective and quality results. We can tailor upgrades to increase freezing capacity, product output or uptime, improve yield and throughput, maximize food product quality and hygiene, or minimize damage and waste.

Stable and durable design

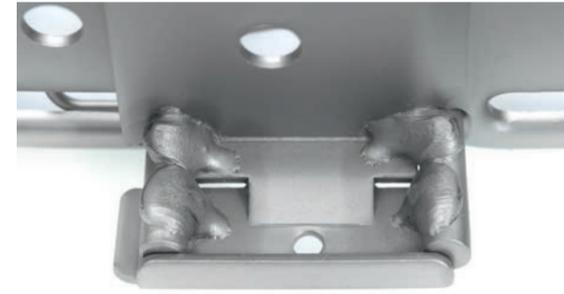
The GEA Q-belt is backed by GEA engineering expertise, and a patented interlocking design that provides flexibility, stability and long-term durability.

Flexibility to boost your productivity

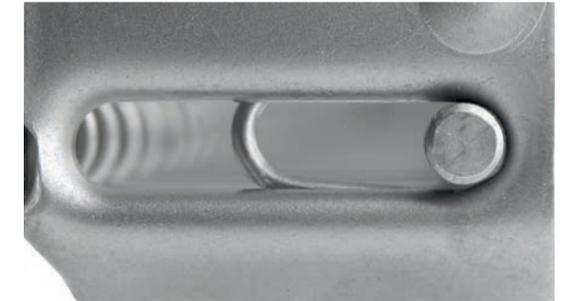
We know that one size doesn't fit all, so we've made the GEA Q-belt available in several widths, tier heights and mesh patterns, which can be customized to your application. The Q-belt is compatible with OEM drive systems and with existing self-stacking belts, so you can replace just one section, a few, or the entire belt, without having the added expense of modifying the whole freezer drive configuration.

Collapsing belt take-up (CBTU)

Our collapsing belt take-up (CBTU) technology has been developed as a tensionless, and more dependable, belt return solution than existing counterweight systems; The CBTU solution enables up to twice as much belt storage as standard systems, and also minimizes the likelihood of unplanned stoppages for belt length adjustments.



Multiple welds for stronger assembly (patented)



Form-fit engagement in slot to reduce wear (patented)



Enhanced interlocking between tiers for greater stacking stability (patented)



Large contact area between tiers to reduce wear on the rods (patented)

Technical Specifications

Belt width (mm)	420, 460, 510, 580, 600, 640, 660 and 760mm
Link height (mm)	60, 80, 100 and 120mm
Mesh	M9, M13 and other on request
Wire diameter	1,6
Material	Stainless steel

Other mesh/belt width on request.

GEA Q-belt is backed by GEA
engineering expertise

Turnkey service concept

We understand that nothing in this industry is ever static. Technology, markets, legislation and customer expectations can change with little warning.

We have developed a complete turnkey service concept, through which our experts can work with you to make sure that your equipment and plant are up to date with the latest technological developments, and ready to meet changing market and regulatory demands. Using our in-depth industry knowhow, experience and engineering expertise, we can improve your freezer system efficiency and safety, and extend technology lifespan, to help keep your production flexible, and maximize the return on your investments.

GEA's expert services ensure that even well-used equipment receives high quality maintenance and the most appropriate machine upgrades, so you can hope to maximize value from your equipment, while realizing added operational savings. You can expect a lower total cost of ownership over 10-15 years, thanks to optimized machine operation and reliability, reduced maintenance costs, and outlay on spare parts.

Drive maintenance kit

Here at GEA we aim to offer solutions that will help to optimize your existing systems. So, when you replace a self-stacking belt with a GEA Q-belt, we can provide a drive maintenance kit for you to inspect and overhaul your drive system. Using belt replacement downtime to carry out drive maintenance could ultimately extend equipment lifespan and reduce the likelihood of unplanned stoppages. It will also help to ensure that your freezer system will restart and run smoothly without a hitch.

And don't forget our highly trained and experienced global network of GEA experts are on hand to provide professional service support.

Here are the five steps of the Q-belt turnkey solution :

- 1 Baseline Performance Analysis**
 We start by sending one of our experienced engineers to carry out a thorough freezer inspection, during which they record its current baseline performance level.



- 2 Comprehensive Inspection & Written Report**
 Data from the inspection will allow our GEA experts to provide you with a comprehensive inspection and written report, detailing all overhaul and upgrade recommendations



- 3 Detailed Cost Report**
 A customized quote report, including costs for:
 - spare parts and new self-stacking Q-belt
 - collapsing belt take-up installation and commissioning of the freezer.
 - on-site personnel training regular preventive mechanical inspections per year



- 4 Installation and commissioning Services**
 An installation team will be dispatched to install the required equipment; the commissioning team will do fine-tuning and retention time analysis to ensure optimal performance from day one.



- 5 Ongoing Customer Support Services**
 Ongoing customer support services such as on-site personnel expert training and regular maintenance services provided once a year, and once every 3 months, all customized to your needs.



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

“Engineering for a better world” is the driving and energizing principle connecting GEA’s workforce. As one of the largest systems suppliers, GEA makes an important contribution to a sustainable future with its solutions and services, particularly in the food, beverage and pharmaceutical sectors. Across the globe, GEA’s plants, processes and components contribute significantly to the reduction of CO₂ emissions, plastic use as well as food waste in production.

GEA is listed on the German MDAX and the STOXX® Europe 600 Index and also included in the DAX 50 ESG and MSCI Global Sustainability indexes.

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