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СИСТЕМЫ УПАКОВКИ И РАЗЛИВА EASYCHECK, EASYGUIDE, POWERGUIDE

Технические характеристики





GEA EasyCheck

Checkweigher/Metal
Detector for seamless
production flow

With EasyCheck GEA introduces an outstanding solution with product inspection components from Bizerba. BIZERBA is a worldwide leading specialist in weighing technologies for industry and trade and is a worldwide leading specialist in industrial weigh-ing, labeling and inspection solutions.

GEA EasyCheck is a compact checkweighing system with build in metal detector. GEA EasyCheck recognizes reliable products with metal decontamination and incorrect weights. This is a complete inspection system in compliance with the modern requirements from HACCP, IFS, BRC and others. GEA developed a special hard-ware interface to connect the checkweigher and metal detector to GEA Line Control Software. This ensures that the respective product recipes are synchronized between GEA PowerPak, the checkweigher and the lane converger. GEA EasyCheck automati-cally takes over the selected recipe and can be started and stopped without further detours from the GEA PowerPak. In this configura-tion, the GEA EasyCheck is only available in combination with the GEA EasyGuide, PowerGuide or CombiPick lane convergers.

Performance at a glance

- Throughout of up to 120 products/min (pack size and weight dependent)
- Max. pack dimensions:
EasyCheck (HD)
Length: 230 mm (400 mm)
Width: 200 mm (200 mm)
Height: 70 mm (70 mm)
- Weight ranges: 50 - 500 g (50 - 3000 g)
- IP rating: IP65
- Metal detector for all types of metals, dual-frequency technology
- Line control: Remote start/stop and recipe synchronization to GEA PowerPak, GEA PowerGuide, GEA CombiPick

Quick Reference Data

Max. weight	500 g (1500/3000 g)
Min. weight (MID certified)	50 g
Weighing resolution	0,5 g (0,5 g/1 g)
Display resolution	0,5 g (0,5 g/1 g)
Max. speed	60 m/min.
Transport height min./max.	750 - 1150 mm
Transport direction	right-to-left
Belt widths	225 mm
Weight cell belt length	325 mm (500 mm)
Standard Display	12" Color Touch
Rejection system	Air nozzles (2 Pn. Cylinder)
Interfaces	RS 232, Ethernet, I/O signals
IP rating	IP65
Material	1.430 stainless steel
Power supply	230/120V 50–60Hz 500/750VA
Operating temperature	-0 +40 C°
Humidity	20 - 90 % non-condensing

GEA EasyCheck (HD)



Area of use

Filtering out metal-contaminated packs as well as packs with incorrect weight. Process regulation and metal detection with automatic combi-checkers helps avoid complaints, saving valuable raw materials and increasing profits and customer satisfaction. According to the pre-packaging regulation (FPV), foodstuffs manufacturers must inspect all packaged and equalized products that enter the market to ensure their contents are correct. The fill amount must not be lower than the average value, which must be thoroughly documented during the production process. All foodstuffs manufacturers are obligated to inspect the products

for hazardous foreign objects. The Product Liability Act governs the responsibility. HACCP, IFS, BRC, etc. determine the implementation in detail.

Combi-checkers are suitable in particular for

- frozen products
- instant meals
- meat and sausage products
- dairy products
- non-food products

GEA EasyGuide

Fully automatic, compact converging system for interfacing with GEA thermoformers.

The automatic converging of packages is a reliable and safe system performed after the form-fill-seal process. GEA EasyGuide is a compact lane converger system, positioned after the cutting station of thermoforming packaging machines such as GEA PowerPak and PowerPak PLUS, that matches their speed. It converges packages from 2-6 tracks to one with high functionality, hygiene and has a pack aligning function.

GEA EasyGuide synchronizes to the pace of the thermoformer with a production speed of up to 70 packages per minute with single lane outfeed. Consisting of a transfer conveyor and a modular outfeed conveyor belt, it is easy to assemble this lane converger for various track configurations. Meanwhile, it has a hygienic design and provides maximum flexibility and versatility.

GEA EasyGuide converges all well-known package types – such as MAP, skin and vacuum packs or sustainable solutions such as the GEA FoodTray. The interface belts can be manually adjusted for different package heights without affecting the overall height of the packaging line.



General info

The GEA PowerGuide compliments any GEA thermoformer. Pack converging into a single lane is a key function in all automated packaging operations centred on a thermoformer. The GEA PowerGuide can be easily adapted to changing pack sizes and lane configurations in the thermoformer. The max output - 100 packs/minute. It is an intelligent out-feed system, which is fully integrated into GEA PowerPaks (speed synchro, remote start/stop, recipe transfer, "run allowance" signal exchange for down- and up-stream equipment, etc. Standard execution of GEA PowerGuide is covering all PowerPak applications up to 750 mm index length, 600 mm web width and 1-180 mm pack depth.

- Multi format converging system
- Seamless integration with GEA thermoformer range
- Outstanding price-performance ratio
- Flexible design to handle all kinds of pack types and - heights

Working principle

Individual belts pick up the packs right in the longitudinal cutting station of the thermoformer. Because of speed synchro, packs are transferred in unchanged order to the indexing section of GEA PowerGuide. It converges from 2-6 tracks to one, and achieves a feed of up to 100 packages per minute (ppm). Maximum pack spacing is automatically calculated for the available cycle time and a pack length. A product build-back sensor is mounted on the outfeed of the guiderails to control the synchronised line shutdown in the event of product build-back due to a downstream equipment stop.

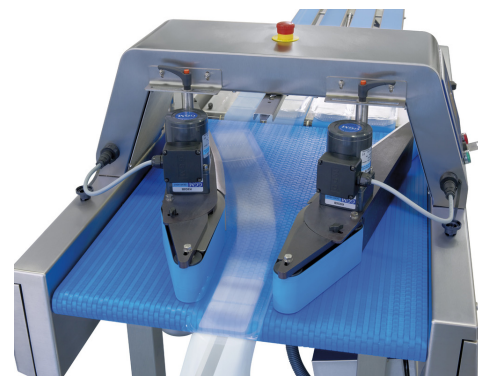
- Easily adaptable to a variety of pack lane configurations
- Available in Multi-Format Execution (no tool-change needed)
- Automatically calculated pack spacing
- Converges from 2-6 tracks to one
- product build-back sensor controls upstream equipment stops



Performance

The GEA PowerGuide handles up to 100 packs/min depending on pack dimensions.

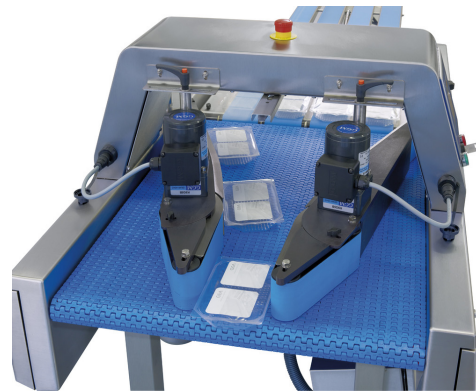
- up to 100 packs/min



Output quality

Maximum pack spacing is automatically calculated for the available cycle time and a pack length. It is very important for downstream equipment to get a pack flow with even gaps between them. GEA PowerGuide provides the most accurate pack flow. Powered side rails convey the packs rather than simply guide them from the converging system, which is particularly important when the packs are wider than they are long as the parabolic powered side rails help to prevent the pack from turning during converging. Modular belt out feed conveyor offers long life without the need for belt tracking. There is a product build back sensor mounted above out feed conveyor with an auto switch-off function in event of product build back (prevents belt damage).

- Automatic product spacing to ensure optimum product pitch at all times
- Powered side rails convey the packs (no more packs twisting)
- Modular belt outfeed conveyor (extremely durable)
- Pack build-back sensor with auto switch-off function



Flexibility

The quick-release modular design of the interfacer- and index conveyor enables easy removal of the conveyor bed (for any maintenance purpose or when multi-format applications are required). The motor remains on the converger frame, so only the conveyor bed needs to be replaced/removed. GEA PowerGuide can be easily retro fitted into any thermoforming line.

- Easily accessible for any maintenance activities
- Index length (up to 750 mm) Web width (up to 600 mm)
- Pack depth independent (adjustable infeed conv.: 1 - 180 mm)
- Quick and easy interfacer- and index conveyor removal for rapid belt change
- Easily retro fitted into any thermoforming line



Reliability

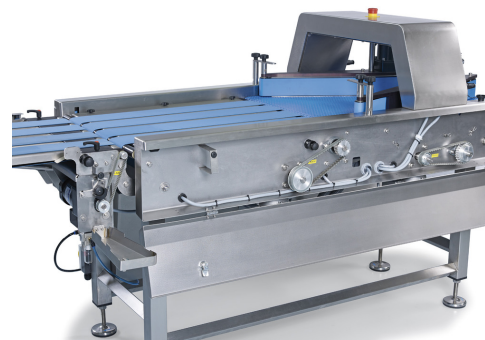
High quality materials used in GEA PowerGuide make this unit very reliable. Same hardware and software components used as in GEA Thermoformers (same spare parts can be used in case of break-down). Rather than relying on timers, encoder intelligence allows accurate and consistent positioning of the packs ready for converging. In case of encoder dysfunction/ damage there is a possibility to switch on timers until a new encoder is installed (production contingency plan).

- High quality materials used
- encoder intelligence allows accurate and consistent positioning of the packs

Hygiene

All PowerGuides are designed to offer the user high levels of hygienic design allowing the machine to be quickly and simply disassembled when deep cleaning of equipment is necessary. All welding is ground flush and polished to prevent dirt gathering in crevices. All horizontal faces are kept to a minimum with angled faces used to prevent the accumulation of dirt.

- High levels of hygiene and ease of cleaning



Safety

Dual circuit emergency stops positioned for quick and easy access in the event of an emergency. All sensitive areas on the machine are clearly labeled to ensure operator safety. The HDMI is situated for easy ergonomic access and away from the operating area of the machine.

- Dual circuit emergency stops
- quick and easy access

Controls

Comprehensive line control is incorporated into the heart of the GEA PowerGuide. GEA PowerGuide uses a functional and accessible B+R touch screen display. Full integration with GEA Thermoformer.

- Comprehensive line control
- functional and accessible B+R touch screen
- Full integration



Technical specifications

Label	GEA PowerGuide	Unit
Max. index length	750	mm
Max. product height	70	mm
Max. index width	600	mm

Accessories / Options

GEA Process Controls

- Automate management of production recipes
- Scheduling of production batches
- Production reporting
- Material tracking and tracing
- Manually influence production



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