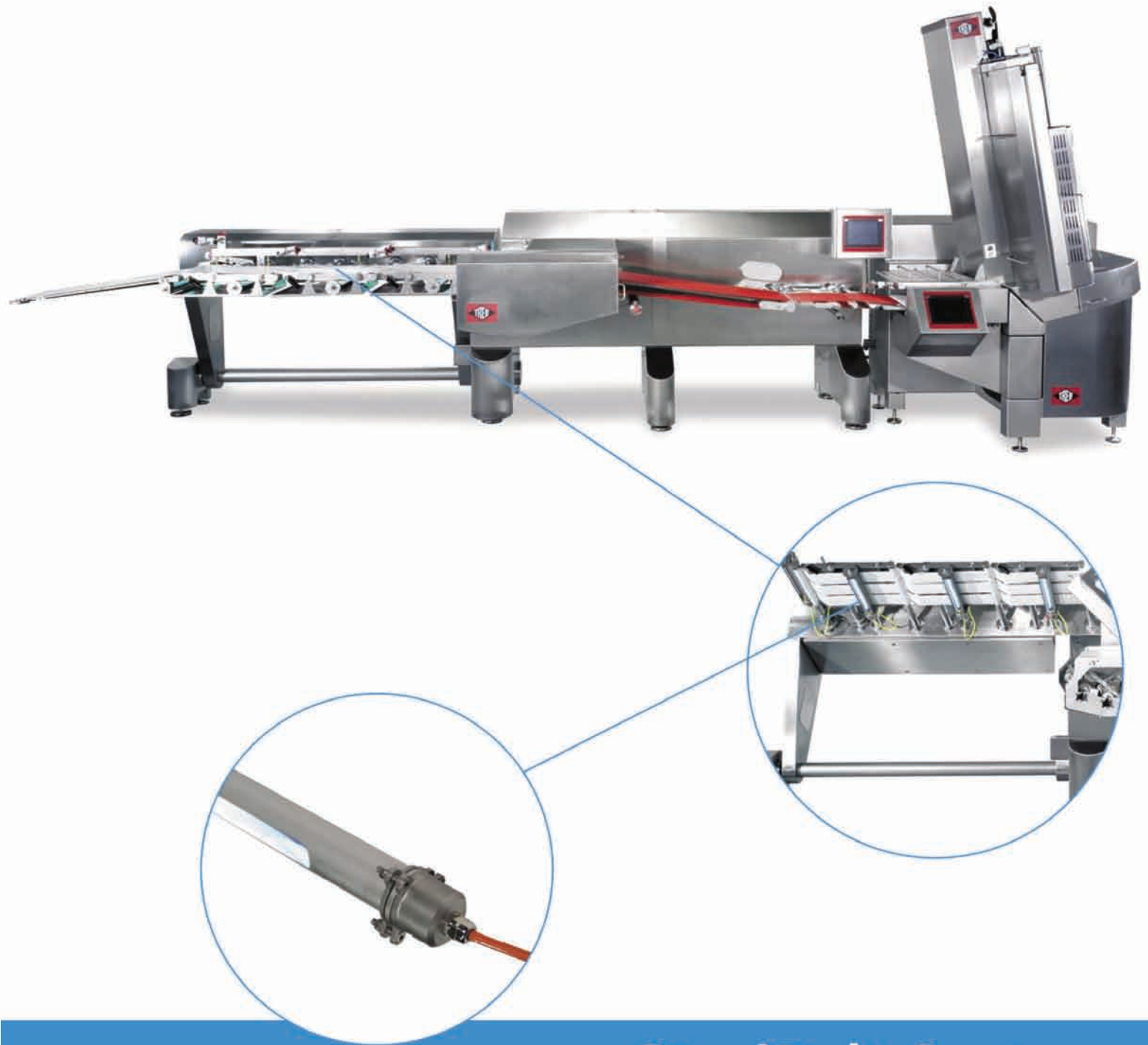




UV Surface Disinfection



# SteriBelt System

Germ-free conveyor belts without the use of chemicals

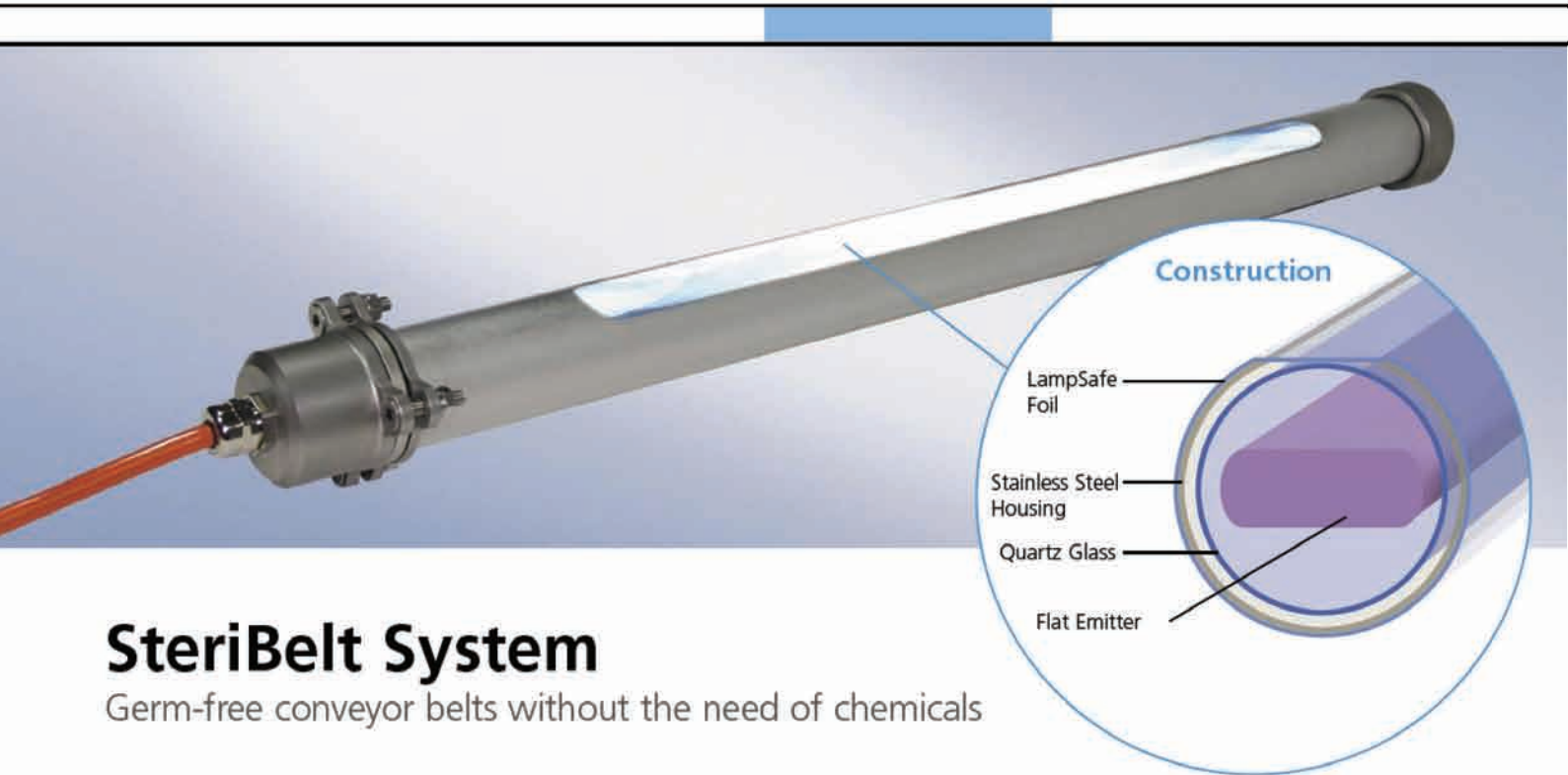


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# SteriBelt System

Germ-free conveyor belts without the need of chemicals

## Areas of Application:

The ultraviolet disinfection system is used for the continuous disinfection of conveyor belts in foodstuffs production, especially in the meat processing industry.

## Problem:

A major requirement for foodstuffs manufacturers is to produce products of ever increasing quality with ever fewer production line stoppages. The presence of germs on the conveyor belts can obviously cause line running problems and must be prevented. Furthermore, increasing market demands to cut out the addition of conservation products, the migration of germs between products on the belt and disinfectant-resistant micro-organisms do much to add to the problem.

## Aims:

- Improvement in quality and its preservation in the manufacturing process
- If relevant, extension of the product sell-by date
- Implementation of hygiene regulations

## Operation:

The SteriBelt module is fitted to the conveyor belt at the front face or from below and reliably decontaminates its surface. By exploiting the cumulative disinfection of the continuously circulating belt section, exceptional disinfection rates are achieved for little operating cost.

**Reduce the risks - Improve the quality**

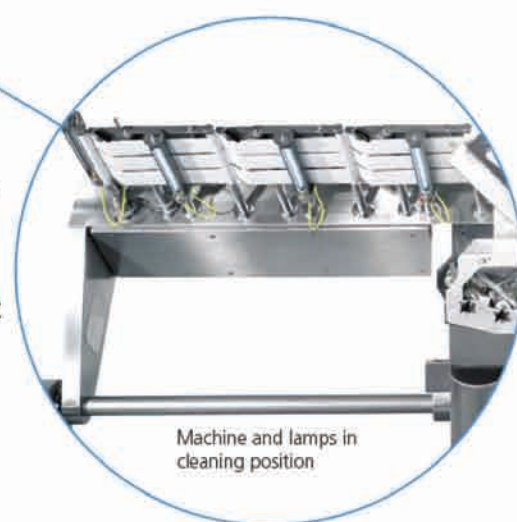


## SteriBelt System

Germ-free conveyor belts without the need of chemicals

### Standard Features:

- Rotationally symmetrical, consequently there are fewer deposits of product residuals on the surface than there would be with a flat plate
- Robust stainless steel housing, with no external air- or water-cooling, suitable for operation in low temperature environments
- IP 65 design
- LampSafe shatter protection – UV-resistant special foil (no PTFE or similar) with exceptional UVC transmissivity
- The system can be removed for cleaning from the optional holder without the need for tools
- Reasonable capital cost and low operating costs. It can also be used for several small band segments and it is suitable for retro-fitting in confined spaces. Simple, on-site emitter replacement
- Maximum lamp power through the optimised application of Indium Amalgam emitters, with flat emitter technology, which have been specially developed for the SteriBelt modules
- There are no chemicals and there is no ozone. This is an environmentally friendly process
- The efficiency can be measured and documented for quality control purposes



Machine and lamps in cleaning position

### Innovative Lamp-Technology:

Conventional round emitters are not ideal for surface disinfection as they apply only about 1/3 of the emitted radiation as direct radiation onto the surface. The rest of the UV energy reaching the surface gets there by reflection and which means there is significant energy loss.

Our Indium Amalgam Flat emitter, because of the emitter shape, ensures that more than 50% of the power is directed straight at the surface so that there is a significant efficiency increase. Moreover, for the same geometry, these emitters offer around 3-times the power, making them even more efficient and cost-effective.

### For the customer this means:

Compact construction, low capital- and operating costs, reliable disinfection power, long equipment operating life.

# SteriBelt System

Germ-free conveyor belts without the need of chemicals

## Technical Data / Order Numbers:

Model	SteriBelt 280	SteriBelt 420	SteriBelt 650	SteriBelt 900
Window width	280 mm	420 mm	650 mm	900 mm
Overall length approx.	520 mm	630 mm	880 mm	1130 mm
Lamp type	"Indium Amalgam Flat emitter"	"Indium Amalgam Flat emitter"	"Indium Amalgam Flat emitter"	"Indium Amalgam Flat emitter"
Lamp identification	GFP 30/28	GFP 45/42	GFP 80/65	GFP 100/90
Nominal Power	30 W	45 W	80 W	100 W
Protection Class	IP 65	IP 65	IP 65	IP65
Power supply unit	electronic	electronic	electronic	electronic
Cooling	-	-	-	-
Peak emission	253,7 nm	253,7 nm	253,7 nm	253,7 nm
Radiation density at 20mm	20-25 mW/cm <sup>2</sup>	20-25 mW/cm <sup>2</sup>	20-25 mW/cm <sup>2</sup>	20-25 mW/cm <sup>2</sup>
Burn-in time	15-30 min.	15-30 min.	15-30 min.	15-30 min.
Order Number	60201	60202	60204	60203

## Replacement parts:

Component	Model	Item Number
Fast release holder for the SteriBelt System	SHBH	60211
Replacement emitter for SteriBelt 280	GFP 30/28	60212
Replacement emitter for SteriBelt 420	GFP 45/42	60213
Replacement emitter for SteriBelt 650	GFP 80/65	60218
Replacement emitter for SteriBelt 900	GFP 100/90	60214
Power Supplies Unit for SteriBelt 280	EVG-SB-280	60215
Power Supplies Unit for SteriBelt 420	EVG-SB-420	60216
Power Supplies Unit for SteriBelt 650	EVG-SB-650	60219
Power Supplies Unit for SteriBelt 900	EVG-SB-900	60217

## Safety Instructions:

UVC Radiation is harmful to the skin and eyes. The UVC Lamp should therefore only be operated under respect of safety measures. UVC Radiation at 245 nm can be shielded using normal glass, transparent synthetic materials such as Macrolon and all non-transparent materials.

Safety signs and / or tripping the lamp by using a contact switch is advisable. Surfaces of irradiated materials may change the colour after a long time period. UV-stabile materials should be used. Due to the intensity decrease in the UV-C range during lamp life, the UV lamp has to be replaced after 4.000 hours to ensure the disinfection efficiency. The units must be correctly connected to ground. A ground fault circuit interrupter (GFCI) must be installed.



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