



# **INDUSTRIAL CLEANING SYSTEMS & LOGISTICS**

**HORTICULTURE & FRESH PRODUCE**





Unifortes offers smart cleaning solutions for every challenge in the horticulture and fresh produce industries. Our allround experience with cleaning technology in material handling projects enables us to provide our customers with high quality equipment based on the most efficient and cost effective solution, using the latest technology from our modern production facilities.

Unifortes developed a wide range of highly efficient and hygienic washing and blow-off installations for the horticulture and fresh produce industries. We devided our machinery portfolio for these industries into the product carrier being used.

Horticulture



Fresh Produce



## Industrial Washers & Dryers

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# Configure Your Machine

## Find out the definition of clean!

Due to increasing hygiene requirements in the horticulture and fresh produce industries, it is essential to offer supreme quality cleaning that meets each customer-specific standard. The Unifortes modular industrial washers and blow-off systems are suitable for all product carriers of different dimensions and materials. Our modular industrial washing machines have custom-made spraying systems and can be carried out with different type of pumps and filters to meet up to every specific cleaning standard.

## Multiple filtration systems up to 10 micron

Water usage is a substantial cost factor in the daily operation of companies in the horticulture and fresh produce industries in which an efficient cleaning solution can make a difference. Our water re-circulation system combined with one of our filters gives the best washing result against a lower usage of water.



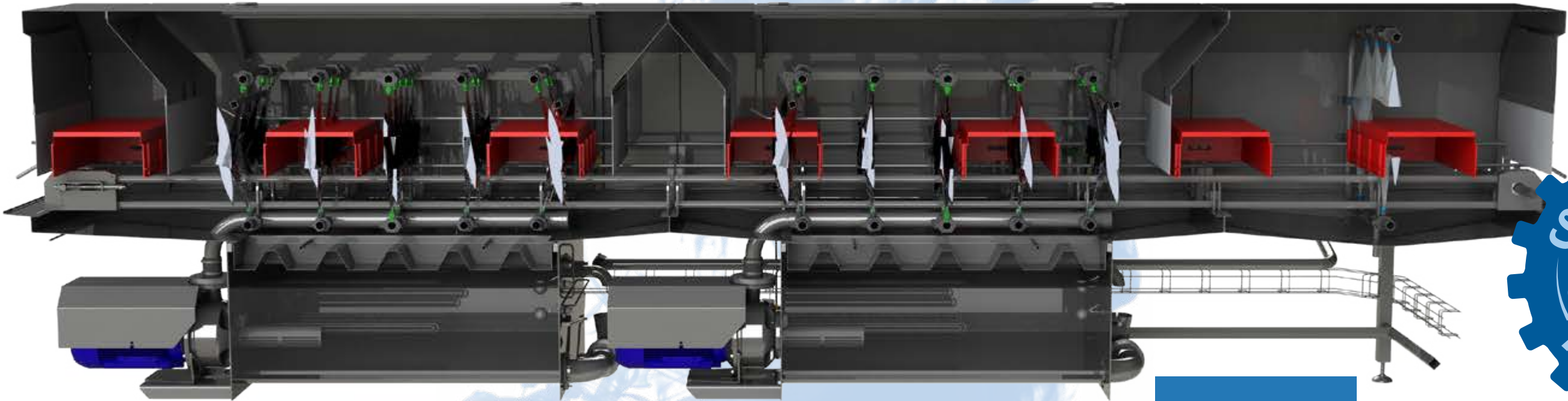
Custom made  
spraying system

Modular design

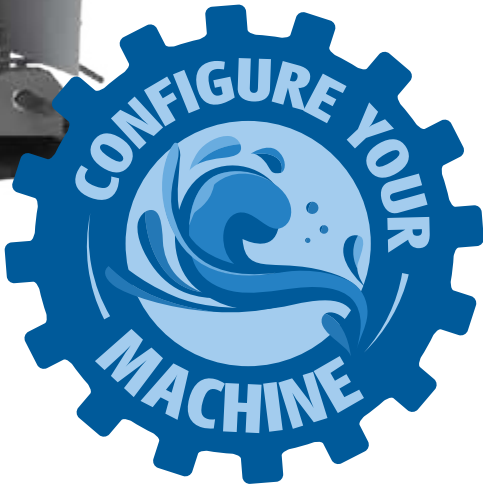
Hatches on  
both sides

Adaptable to the pollution  
and desired capacity

Can be implemented with  
high pressure module



Open design



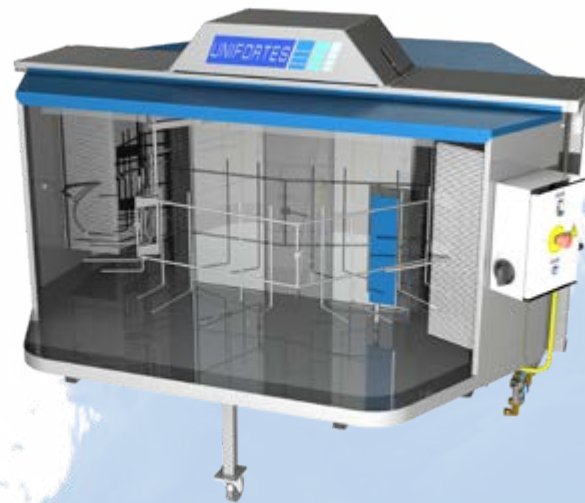
## Unifortes Basic Washers

The Unifortes Basic washer series is designed for washing at a lower capacity and is suitable for washing trays and crates. Each washer contains a washing section and a rinsing section, and can be connected with a high pressure cleaner if the machine is not being used on a daily basis. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the Unifortes washing machines can be adapted according to product and capacity requirements.



**UNI-BT400.150**

- 1m Wash Tunnel
- Wash Section
- Up to 200 trays or crates/h



**UNI-BTC400.300**

- Caroussel Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 400 trays or crates/h

## Unifortes Basic Tunnel Washers

The Unifortes Basic tunnel washers are designed for washing at a lower capacity and suitable for washing trays and crates. Each washer contains a washing section and a rinsing section. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the Unifortes washing machines can be adapted according to product and capacity requirements.



**UNI-BW200.60**

- 2m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 200 trays or crates/h



**UNI-BW300.60**

- 3m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 350 trays or crates/h



## Unifortes Industrial Tunnel Washers

The Unifortes Industrial series is developed for washing at a higher capacity and is suitable for washing trays and crates. The Unifortes Industrial series is suitable for washing hard plastic crates as well as polystyrene, vacuum and hard plastic trays. The machine contains at least one washing section and a rinsing section and is available in different widths. Depending on the pollution and the desired washing result, the machine advised by our sales engineers will differ per situation. Due to its modular and standardized design the machine can be adapted according to the product carrier, pollution and capacity requirements.



### UNI-W350.70

- 3,5m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 600 trays or crates/h



### UNI-W550.70

- 5,5m Wash Tunnel
- Pre Wash Section
- Main Wash Section
- Rinsing Section
- Up to 900 trays or crates/h



### UNI-W750.70

- 7,5m Wash Tunnel
- Pre Wash Section
- 2 Main Wash Sections
- Rinsing Section
- Up to 1250 trays or crates/h



### UNI-W950.70

- 9,5m Wash Tunnel
- Pre Wash Section
- 3 Main Wash Sections
- Rinsing Section
- Up to 1500 trays or crates/h



### UNI-W1150.70

- 11,5m Wash Tunnel
- Pre Wash Section
- 4 Main Wash Sections
- Rinsing Section
- Up to 1800 trays or crates/h

## Unifortes Dryers

The Unifortes washers can incorporate different blow-off systems for the automatic reduction of the moisture on your trays or crates. The Unifortes blow-off systems use a ventilator for reducing the moisture on your trays or crates and can be implemented in-line with the Unifortes Basic and Industrial series or positioned as a stand-alone machine. The Unifortes blow-off systems are available in the widths of 700mm, 1000mm and 1200mm and can be equipped with dual lane transport (max. transport width of 400 mm) for higher capacity.



- UNI-D200.70
- 2 ventilators

- UNI-D200.100
- 4 ventilators

- UNI-D200.120
- 4 ventilators



## Unifortes Industrial Tunnel Washers

The Unifortes Industrial series is developed for washing at a higher capacity and is suitable for washing flower buckets. The Unifortes Industrial series is suitable for washing hard plastic flower buckets. The machine contains at least one washing section and a rinsing section and is available in different widths. Depending on the pollution and the desired washing result, the machine advised by our sales engineers will differ per situation. Due to its modular and standardized design the machine can be adapted according to the product carrier and capacity requirements.



### UNI-W350.70

- 3,5m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 600 flower buckets or boxes/h



### UNI-W550.70

- 5,5m Wash Tunnel
- Pre Wash Section
- Main Wash Section
- Rinsing Section
- Up to 900 flower buckets or boxes/h



### UNI-W750.70

- 7,5m Wash Tunnel
- Pre Wash Section
- 2 Main Wash Sections
- Rinsing Section
- Up to 1250 flower buckets or boxes/h



### UNI-W950.70

- 9,5m Wash Tunnel
- Pre Wash Section
- 3 Main Wash Sections
- Rinsing Section
- Up to 1500 flower buckets or boxes/h



### UNI-W1150.70

- 11,5m Wash Tunnel
- Pre Wash Section
- 4 Main Wash Sections
- Rinsing Section
- Up to 1800 flower buckets or boxes/h

## Unifortes Dryers

The Unifortes washers can incorporate different blow-off systems for the automatic reduction of the moisture on your flower buckets. The Unifortes blow-off systems use a ventilator for reducing the moisture on your flower buckets and can be implemented in-line with the Unifortes basic and industrial series or positioned as a stand-alone working machine. The Unifortes blow-off systems are available in the widths of 700mm, 1000mm and 1200mm and can be equipped with dual lane transport (max. transport width of 400 mm) for higher capacity.



- ### UNI-D200.70
- 2 ventilators



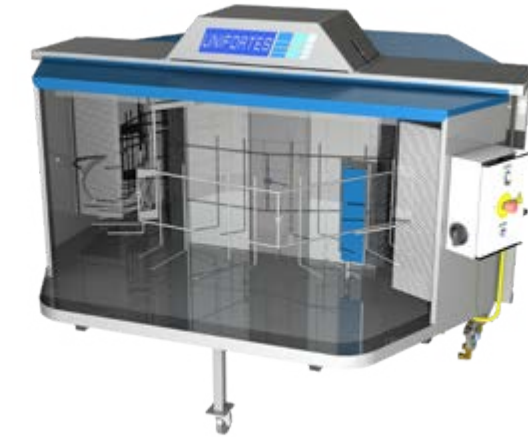
- ### UNI-D200.100
- 4 ventilators

- ### UNI-D200.120
- 4 ventilators



## Basic Tunnel Washers

The Unifortes Basic washer series is designed for washing at a lower capacity and is suitable for washing pots. Each washer contains a washing section and a rinsing section, and can be connected with a high pressure cleaner. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the Unifortes washing machines can be adapted according to product and capacity requirements.



- UNI-BTC400.300**
- Carousel Wash Tunnel
  - Main Wash Section
  - Rinsing Section
  - Up to 400 pots/h



- UNI-W350.70**
- 3,5m Wash Tunnel
  - Main Wash Section
  - Rinsing Section
  - Up to 1000 pots/h



- UNI-W550.70**
- 5,5m Wash Tunnel
  - Pre Wash Section
  - Main Wash Section
  - Rinsing Section
  - Up to 1800 pots/h

## Unifortes Industrial Tunnel Washers

The Unifortes Industrial series is developed for washing at a higher capacity and is suitable for washing pots. The machine contains at least one washing section and a rinsing section and is available in different widths. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the machine can be adapted according to the product carrier, pollution and capacity requirements.



## Unifortes Trolley Washers

This modular transit tunnel washer is suitable for cleaning trolleys that are used in the horticulture and fresh produce industries. This unique design has a transport height of only 350mm and can therefore be placed directly on the production floor. The machine contains at least one washing section and a rinsing section and is available in different widths. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the machine can be adapted according to the product carrier, pollution and capacity requirements.



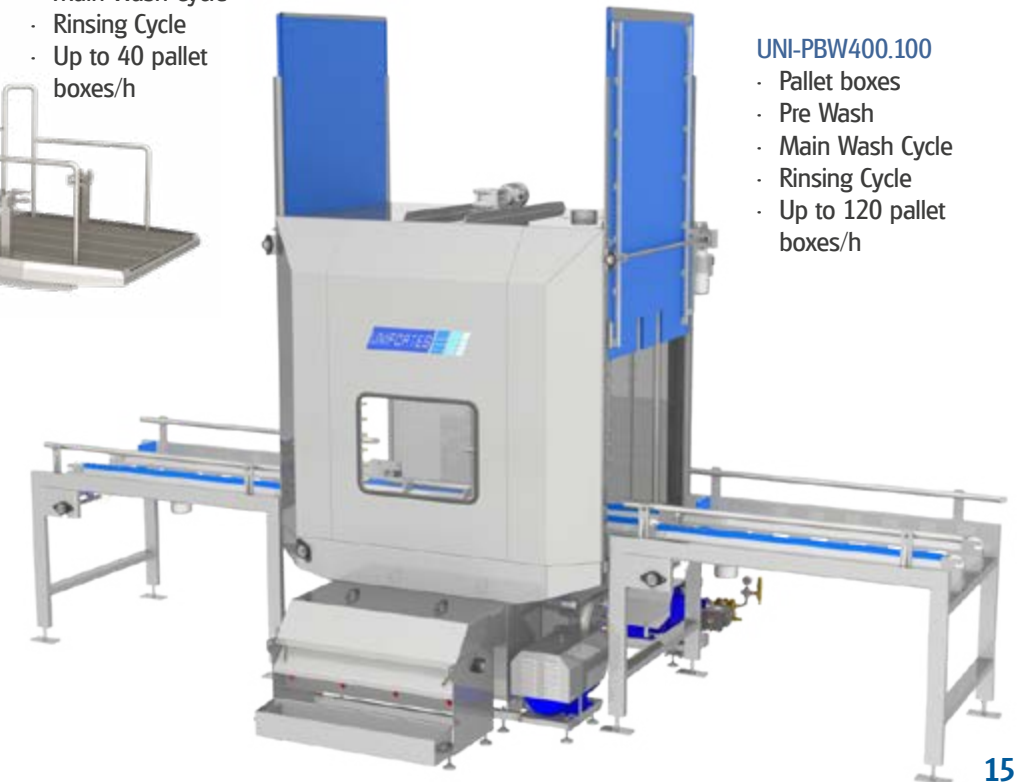
- UNI-TW450.80.220**
- 3,5m Wash Tunnel
  - Main Wash Section
  - Rinsing Section
  - Max. trolley Height 2200mm
  - Up to 40 trollies/h

## Unifortes Cabin Washers

These cabin washers are suitable for washing pallet boxes that are used in the horticulture and fresh produce industries. The machine contains at least one washing section and a rinsing section and is available in different widths. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design the machine can be adapted according to the product carrier, pollution and capacity requirements.



- UNI-CW120.100**
- Pallet boxes
  - Pre Wash Cycle
  - Main Wash Cycle
  - Rinsing Cycle
  - Up to 40 pallet boxes/h



- UNI-PBW400.100**
- Pallet boxes
  - Pre Wash
  - Main Wash Cycle
  - Rinsing Cycle
  - Up to 120 pallet boxes/h



# Rolling Benches & Pallets

## Rolling Benches / Pallet Washers

The Unifortes Basic washer series is designed for washing at a lower capacity and is suitable for washing rolling benches and pallets. Each washer contains a washing section and a rinsing section. Depending on the pollution and the desired washing result, the machine recommended by our sales engineers will differ per situation. Due to its modular and standardized design, the Unifortes washing machines can be adapted according to product and capacity requirements.



### UNI-PW250.100

- 2,5m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 50 benches or pallets/h



### UNI-PW450.100

- 4,5m Wash Tunnel
- Main Wash Section
- Rinsing Section
- Up to 100 benches or pallets/h





## Unifortes Filtration Systems

Unifortes washers can incorporate different systems for automatic water filtration. Depending on the type and amount of pollution, and the product carriers being used, Unifortes offers the right specific water filtration system. By enabling the re-use of water, the filtration of water promotes the sustainability of companies in the horticulture and fresh produce industries.

Water usage is a substantial cost factor in the daily operation of a horticulture or fresh produce company in which an efficient cleaning solution can make a difference. Our optimal water re-circulation system combined with one of our filters gives the best washing result against the lowest usage of water.



### Rotating cloth filter

- Filtration up to 150 - 200µm
- Different cloth densities available
- Applicable as add-on for Unifortes washers



### Bow screen filter

- Filtration up to 250µm
- Applicable as add-on for Unifortes washers or as a stand-alone system



### Sand filter

- Filtration up to 40µm
- Specially designed for the horticultural and fresh produce sector
- Applicable as add-on for Unifortes washers or as stand-alone machine

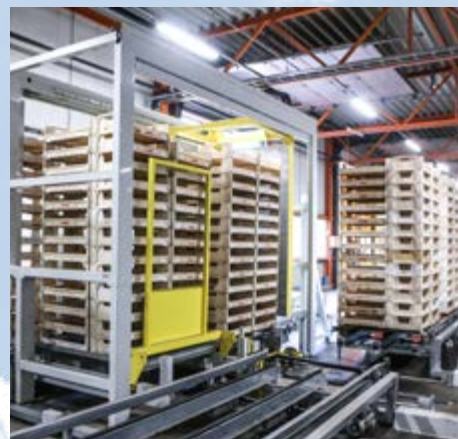


### Compact belt filter

- Filtration up to 10µm
- Different paper densities available
- Applicable as add-on for Unifortes washers or as a stand-alone system



# Material Handling



## Handling systems

The experience of Unifortes in handling systems can cover practically every part of the automated infeed and outfeed of your washing installation. The industrial washers can be directly connected to your production area through affiliated material handling technology.

Typical systems include: conveying, transportation, (de) stacking, (de)palletizing, sorting and storage systems. All based on a modular construction and designed based on HACCP regulations and food-grade environments.

### Material Handling Solutions:

- Stackers and de-stackers
- Palletizers and de-palletizers
- Sorting systems
- Conveying technology
- Loading and unloading systems
- Automatic warehouse systems







## Find out the definition of clean!

With the Unifortes Test Centre the bar is set even higher to offer the customer the possibility to run cleaning and drying trials with their contaminated products at real time production capacity.

During time Unifortes has gathered large amounts of technical information about washing temperatures, washing contact times, pressures and the use of detergents required to clean specific types of products in a broad variety of industries. The word “clean”, however, can sometimes be interpreted differently. Therefore it is most important to get the customer involved with testing their own products to come to an acceptable meaning of the word “clean”. This approach ensures that the customer is provided with the most cost effective solution. Unnecessary investment costs for machine and building and, are avoided high running costs for electricity, water usage and chemicals.

Unifortes can provide laboratory and testing reports for official documentation to support and underpin investment.



## Machine Rental

Unifortes offers a flexible rental program that allows your company to accommodate any temporary or seasonal production demands. Due to its modular and standardized design our rental machines can be tailored to your specific needs.

Our rental service starts with running cleaning and drying trials with your products beforehand. This ensures you are provided with the right machine settings and delivers you the best cleaning result.

The rental machines are delivered ready to use. Staff training and installation of the machine can be done by Unifortes' own qualified service engineers if desired. Unifortes provides the option to rent air recirculation dryers as well.

For more information on our rental program please contact us on +31 (0)78 629 12 62 or at [info@unifortes.com](mailto:info@unifortes.com).





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- A world map with a blue background. Red dots indicate Unifortes offices, and blue dots indicate Unifortes agents. Offices are located in Europe (Belgium, Poland) and North America (USA). Agents are spread across Europe, Africa, Asia, and Australia.
- UNIFORTES OFFICE
  - UNIFORTES AGENT

## Taking cleaning to a higher level

The company's background with many years of experience in 'Cleaning Technology' and 'Material Handling' enables Unifortes to provide its customers with the most efficient solutions and high quality equipment, using the latest technology from our modern production facilities. Unifortes' strength is offering smart solutions for every challenge. Our focus and pride is on efficiency, durability and hygiene as well as user friendliness. In order to maintain our strong position in the market, Unifortes will continuously develop and introduce new technologies to our customers and prospective customers.

With our worldwide network we can provide a full and comprehensive service in almost any country in the world, enabling us to react quickly and efficiently where necessary. The service and maintenance department offers on-site service and can be contacted 24 hours a day, seven days a week. Possible electrical malfunctions on a production line can also be located or solved from within our company using internet and webcam technology. This way, production downtime is reduced to an absolute minimum.

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