

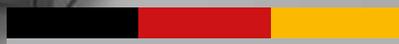
WAREWASHING  
CONTAINER AND UTENSIL WASHER



**FUX**

EFFICIENT – RELIABLE – INNOVATIVE



made in germany

## MADE IN GERMANY

"Made in Germany" has been synonymous with quality and reliability in the premium segment for a long time and still is today. A company can only maintain its hold on the market by keeping its promise to continually deliver high quality.

## WORLDWIDE

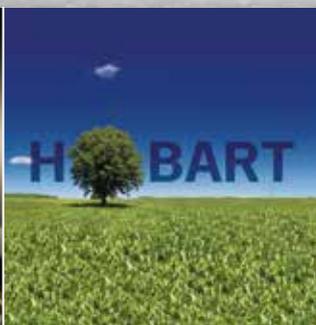
Whether you need a completely new kitchen or a replacement item our competent subsidiaries and partners all over the world would be pleased to support you. It's nice to know we are always there.



- 1883 Mr. Charles Clarence Hobart builds his first engines and generators in Middletown, Ohio.
- 1886 J.C. Cochran receives the patent for the first dishwasher.
- 1897 The HOBART ELECTRICAL MANUFACTURING COMPANY was founded in Troy Ohio, through the acquisition of the engine and generator factory of the HOBART family.
- 1903 HOBART builds the first food processor (a self-contained powered coffee mill).

- 1926 HOBART purchases The Crescent Washing Machine Company, and enters the commercial warewashing market: the first warewashing machine carrying a HOBART label.
- 1930 Foundation of the HOBART MASCHINEN GESELLSCHAFT in Hamburg, Germany.
- 1953 HOBART receives the patent for the first flight-type dishwasher.
- 1960 Acquisition of the dishwashing department of the company K. Martin, Offenburg, Germany.
- 1980 Production plant in Elgersweier, Germany, was newly built.
- 1986 PREMARK INTERNATIONAL GROUP was formed in Deerfield, Illinois.

- 1997 HOBART CORPORATION'S 100th anniversary.
- 1999 Integration of PREMARK into ITW.
- 2004 HOBART relocates to Elgersweier
- 2006 Launch of HOBART's export activities
- 2007 HOBART's PREMAX line begins a new chapter in the annals of dishwashing technology. The PREMAX FTP flight-type dishwasher cuts water use by up to 50%, energy use by up to 30%, and use of chemicals by up to 80%.
- 2009 HOBART introduces the SENSOTRONIC, the world's first intelligent dishwashing technology
- 2010 Tenth record year in succession for HOBART





## THE COMPANY

Based in Offenburg, Germany, HOBART leads the world market in industrial warewashing technology. We serve customers such as hotels, restaurants and caterer, bakeries and butcheries as well as supermarkets, airlines and cruise ships across the world.

HOBART develops, produces and sells warewash, cooking, food preparation and waste treatment appliances and systems, and employs around 6,865 staff members across the world, 903 of them in Germany. HOBART is a subsidiary of the US Illinois Tool Works (ITW) Group, which manufactures and sells a variety of products; the group has a staff of 65,000 employees in 875 autonomous companies in 49 countries.

## OUR VISION

### WASH WITHOUT WATER

Our intensive market research has shown unequivocally that our customers require appliances that are economical and ecological while still producing first-class results. We have addressed this demand and worked out our vision, *Wash Without Water*. The resulting areas of focus – innovation, economy, ecology – set the direction. Our vision means leaving no stone unturned when it comes to reducing water, energy and detergent consumption.

### UTOPIAN?

Everything begins with a vision. Many of the products that make everyday life easier today began as the ideas of a visionary; many of these ideas would have seemed utopian at the time. There can be no progress without a vision – and that applies to warewashing as much as anything else. Before the introduction of PREMAX, a dishwasher with a 50% water saving technology would have been utopia. Today, PREMAX has set new standards, and we by now know that whenever the dishwasher that washes without water will come, it'll be a PREMAX.



## FOCUS

### INNOVATION

Innovation means more than just turning an idea into reality. We at HOBART see innovation as a continuous process. In fact, we've put more than 30 innovative products onto the market since the PREMAX launch. All these innovations share one single goal – to generate real value added for our customers.

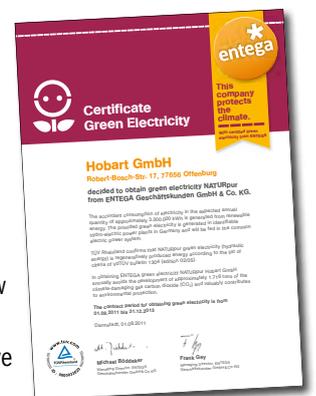
We have a global network of more than 300 research and development engineers to make this possible, plus marketing teams out on every continent to identify customer preferences and requirements. We have a group technology centre in the US with more than a 1,000 patent applications a year, together with an innovation centre for warewashing in Offenburg, Germany.

### ECONOMY

Already in the early 1980s our energy-formula set benchmarks in energy saving and recovery which are still unique today. This innovative spirit found its fulfillment in the PREMAX line. The PREMAX flight-type dishwasher saves up to 50% water, 30% energy, and 80% chemicals in comparison to conventional technologies, making HOBART a pioneer in terms of efficiency and economy.

### ECOLOGY

The HOBART environmental protection program CO<sub>2</sub>NSEQUENT has been in existence for some time. The program includes a large number of measures that are all related to protecting the environment. These measures are implemented in production, purchasing, the development and sale of products and in additional projects. As an example, you might like to know that all HOBART products are manufactured using regenerative energy only.



1

2

3

4

1. "We wash a huge amount of utensils, pots and pans, for which we need a reliable machine that has the capacity to clean very dirty items fully and hygienically. The HOBART FUX is always up to the task in such cases."

2. "We not only wash boxes but also many baking trays and trays. With the FUX, we're able to wash such items at the same time in a single machine, which saves us space, time and money. The HOBART FUX provides superlative performance day in and day out."

3. "Power consumption is one of the most important cost factors for our company. That's why we pay close attention to it when purchasing new equipment. The FUX saves us nearly 3,000 €."

4. "The HOBART FUX gets our boxes not only hygienically clean but also really dry, thus enabling us to reuse the boxes immediately."

Manolo Tirado  
Hospital  
Madrid, Spain

Pete Than  
Hotel, Confectionery  
Dubai, UAE

Aigle Galanis  
Bakery  
Athens, Greece

Anton Schmider  
Butchery,  
Duisburg, Germany



## 1 | ECONOMY

### THRIFTY RINSING

The FUX uses 12% less rinse water, thus reducing operating costs for water by up to 1,000 € annually. The fresh water rinse removes the wash water from the wash ware – the amount of water consumed by this process is mainly determined by the technology used. The less precise the water distribution, the more water is needed to achieve perfect rinse results. HOBART's precision nozzles distribute the water with such laser-like exactness that optimum rinse results are obtained with a small amount of water. This in turn allows for savings in operating cost of up to 1,000 € annually.

### PATENT

### DETERGENT SAVING SYSTEM LOW-CHEM

The FUX cuts detergent consumption by 60%, thus reducing detergent and rinse aid costs by up to 2,900 € annually. Detergent is injected directly into the wash tank, which is continuously regenerated by fresh water from the rinse. Therefore detergent is added to maintain the concentration according to the added regeneration volume. The enhanced LOW-CHEM detergent saving system directs only 120 liter of fresh rinse water into the wash tank for regeneration. As a result detergent consumption is reduced by up to 63% compared to conventional systems. This can reduce operating costs by up to 2,900 € annually.

### VENTILATION-AIR HEAT RECOVERY

Ventilation-air heat recovery functions according to the countercurrent principle, using the energy from the extracted air. The energy exchange takes place in the HOBART high-performance condenser. The hot air heats up the fresh water and at the same time, the extracted air is cooled down and dehumidified. The HOBART ventilation-air heat recovery system reduces energy consumption by up to 8.75 kW and total connected load by up to 24 kW.<sup>1)</sup> Waste air can be channeled directly into the on-site waste-air system.<sup>2)</sup>

<sup>1)</sup> Specimen calculation for the FUX S-AA (throughput width 965 mm) compared to models without a waste-air heat recovery function.

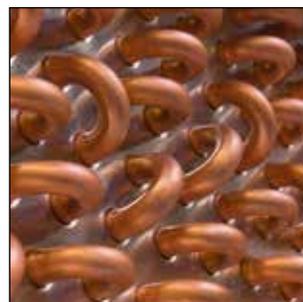
<sup>2)</sup> Subject to conformance with VDI 2052.

## THRIFTY – ECOLOGICAL



The detergent saving system LOW-CHEM reduces water consumption by up to 20%.

## ECONOMIC – EFFICIENT



Efficient HOBART heat recovery reduces energy consumption and operating costs.

**HOBART**



## 2 | WASH RESULT

### CONTAINER WASH SYSTEM

The HOBART container wash system guarantees reliable wash results. A high water circulation and the right water pressure are pivotal when it comes to achieving hygienic rinse results.

The HOBART container wash system achieves this goal, thanks to the systems' innovative wide angle nozzles FAN, which remove even the most encrusted food by spraying water with an optimum mechanism. This ensures consistent and reliable wash results.

### PUMPED RINSE SYSTEM DUO

The pumped rinse system DUO allows for hygienically perfect rinse results according to DIN 10522. Rinse quality is mainly determined by the manner in which fresh water is applied. Ideally, a minimum amount of water should be used. HOBART's pumped rinse system DUO, which comprises separate pumped rinse and fresh water rinse elements, achieves this goal. The pumped rinse, which occurs prior to the fresh water rinse, removes most of the wash water. The ensuing fresh water rinse then removes the remaining wash water using fresh hot water.

The pumped rinse system DUO guarantees a perfect, hygienic wash result.

### BLOWER SECTION

The HOBART blower section reduces residual moisture on containers and boxes. Most utensils, baskets and containers have recesses where moisture can accumulate, thus making it impossible for circulating hot air to remove the moisture. The presence of air slots on all four sides of the blower section allows for the removal of moisture from recesses and droppings from the wash ware using high-velocity air. This ensures that all residual moisture is reliably reached.

### HIGH PERFORMANCE DRYING SYSTEM DS

HOBART's high performance drying system DS delivers optimum drying results. Drying quality for utensils and plastics is determined by two factors – the intrinsic temperature of the wash ware, as well as by air velocity and volume. The HOBART high performance drying system generates high-velocity air and volume. Moisture is more efficiently removed from the wash ware and absorbed by the drying air.\*

\* According to the requested residual moisture it is suggestive to use a combination of the blower section and the drying system DS for high capacities with plastic containers and boxes.

## DYNAMIC – PERFORMANCE



Impeccable wash results thanks to a wash system that is specially designed for boxes and containers.

## HYGIENIC – CLEAN



Hygienic rinse results thanks to two rinse cycles.

# HOBART

## 3 FLEXIBILITY & RELIABILITY

### SEPARATE CLEANING LINE FOR BAKING TRAYS

The FUX allows for simultaneous washing of baskets and baking trays. In bakeries, apart from containers and boxes many baking trays (600x400x200/100mm) must also be washed. Ideally, all these items should be washed using the same machine. HOBART offers a separate line in the machine where baking trays and trays can be washed and dried. This line has separate wash, rinse and drying systems, specifically aligned to the wash ware. Separate high pressure pumps, wash arm and nozzle configurations allow for a perfect wash result. The FUX's pumps and air fans can be deactivated when only baskets and boxes are being washed, thus reducing operating costs.

### A RANGE OF TUNNEL WIDTHS

HOBART offers the right dishwasher for every type of wash ware. The dimensions of the utensils and containers that are washed vary from one industry or segment to another. HOBART offers three different tunnel widths, and thus an optimum machine for every application.

## FLEXIBLE – POWERFUL



Optimal machine capacity use thanks to a separate baking tray line.



## 4 | HANDLING

### MODULAR CONSTRUCTION

The HOBART FUX is optimally tailored to the customer's requirements. Each machine is individually configured according to the customer's specifications in terms of the nature and quantity of the wash ware, as well as the drying cycle.

Thanks to the modular construction of the FUX container and utensil washer, HOBART is able to offer each customer a machine that is configured to their exact needs.

### TRIED-AND-TRUSTED MATERIALS

The container washer comes in stainless steel, ensuring long life and reliable operation.

### INTELLIGENT DESIGN

Decades of experience in designing container washers mean that all of the components match one another. This intelligent design ensures extremely high levels of reliability.

### HANDLING ASSISTANT EASY

featuring

- SMARTRONIC control
- PROTRONIC control
- Drop-In wash arms
- Coded wash and rinse arms
- Coded curtains

### PROTRONIC CONTROL

The innovative multi-line display with text and symbols also serves appliance operation by touchscreen, ensuring ease of use while minimising operator error.

### DROP-IN WASH SYSTEM

Easy to take out and insert.

### CODED WASH AND RINSE ARMS

The wash and rinse arms are clearly designed to prevent risk of confusion when inserting.

### CODED CURTAINS

Easy to take out and insert. The clear marking on the wash curtains prevents confusion when inserting.

## ROBUST – RELIABLE



Robust construction, e.g. stainless steel tie bars.

## OBVIOUS – SIMPLE



The drop in wash system is easy to take out and insert.

## 5 | SUPPORT

### CLEANING ASSISTANT SUPPORT

comprising

- Bayonet catch
- Alligator flap
- Completely moulded wash tanks
- 1-part strainer
- 150 mm floor clearance
- Mono-block condenser
- Panorama door

### BAYONET WASH ARM CATCH

The wash arms are easy to open and close.

### FOLDABLE INTAKE

Most of the food waste occurs in the feeding section of the machine. The upward folding entry cover ensures convenient accessibility and easy cleaning. Operators do not have to fumble with removing coverings.

### MOULDED DRAIN ELEMENT

Dirt is directed via beading to a central point and into the drain. This prevents dirt accumulation in the tank.

### WASH ARMS

The wash arms are easy to insert and take out due to a drawer mechanism.

### COMPLETELY MOULDED TANK

The tank sump and tank bottom are moulded from one single part. There are no corners and edges or weld seams where dirt could accumulate. This optimizes cleaning and hygiene.

### DISTANCE BETWEEN BELT AND BODY

Easy accessibility, even in confined areas.

### STRAINER DRAWER IN ENTRY SECTION

In case of very high dirt accumulation fast cleaning is possible by simply removing the drawer from the outside – without interrupting operation. Overflow is prevented by a high-sided drawer which holds a large capacity.

### CONDENSER

Optimal accessibility for water spraying – by simply removing the front covering.

## EASY – CLEAN



Rapid and simple cleaning thanks to sieve drawers.

## COMFORTABLE – ACCESSIBLE



The panorama door provides unhindered access to the interior of the machine for cleaning.

## 6 | TECHNICAL DATA

### 612 MM TUNNEL WIDTH

| Container/<br>box/<br>basket output<br>per hour<br>(maximum) | Model                  | Fresh<br>water<br>consumption<br>(l/h) | Connected load kW<br>without drying/blower section |                        |            | Total length<br>incl. dryer<br>(in mm) |
|--|------------------------|--|--|------------------------|------------|--|
|  |                        |  | CW** 12°C,<br>with HR*                             | CW 12°C,<br>without HR | WW*** 50°C |  |
| 400  | FUX 2-S-A-P-F-DS-4     | 280                                    | 61.3   | 70.3                   | 58.3       | 7,400                                  |
| 400  | FUX 3-S-A-P-F-DS-5     | 280                                    | 61.3   | 70.3                   | 58.3       | 8,000                                  |
| 400  | FUX 4-S-A-P-F-DS-6     | 280                                    | 61.3   | 70.3                   | 58.3       | 8,600                                  |
| 750  | FUX 2-S-A-A-P-F-DS-4   | 320                                    | 87.5   | 99.5                   | 85.2       | 8,800                                  |
| 750  | FUX 3-S-A-A-P-F-DS-5   | 320                                    | 87.5   | 99.5                   | 85.2       | 9,400                                  |
| 750  | FUX 4-S-A-A-P-F-DS-6   | 320                                    | 87.5   | 99.5                   | 85.2       | 10,000                                 |
| 1,000  | FUX 2-S-A-A-A-P-F-DS-4 | 350                                    | 110.7  | 119.7                  | 104.7      | 10,200                                 |
| 1,000  | FUX 3-S-A-A-A-P-F-DS-5 | 350                                    | 110.7  | 119.7                  | 104.7      | 10,800                                 |
| 1,000  | FUX 4-S-A-A-A-P-F-DS-6 | 350                                    | 110.7  | 119.7                  | 104.7      | 11,400                                 |

### 760 MM TUNNEL WIDTH

| Container/<br>box/<br>basket output<br>per hour<br>(maximum) | Model                  | Fresh<br>water<br>consumption<br>(l/h) | Connected load kW<br>without drying/blower section |                        |                        | Total length<br>incl. dryer<br>(in mm) |
|--|------------------------|--|--|------------------------|------------------------|--|
|  |                        |  | with C32   | without C32<br>CW 12°C | without C32<br>WW 50°C |  |
| 400  | FUX 2-S-A-P-F-DS-4     | 375                                    | 74.5   | 86.5                   | 68.5                   | 7,400                                  |
| 400  | FUX 3-S-A-P-F-DS-5     | 375                                    | 74.5   | 86.5                   | 68.5                   | 8,000                                  |
| 400  | FUX 4-S-A-P-F-DS-6     | 375                                    | 74.5   | 86.5                   | 68.5                   | 8,600                                  |
| 750  | FUX 2-S-A-A-P-F-DS-4   | 460                                    | 98.0   | 118.7                  | 94.7                   | 8,800                                  |
| 750  | FUX 3-S-A-A-P-F-DS-5   | 460                                    | 98.0   | 118.7                  | 94.7                   | 9,400                                  |
| 750  | FUX 4-S-A-A-P-F-DS-6   | 460                                    | 98.0   | 118.7                  | 94.7                   | 10,000                                 |
| 1,000  | FUX 2-S-A-A-A-P-F-DS-4 | 515                                    | 121.2  | 139.2                  | 115.2                  | 10,200                                 |
| 1,000  | FUX 3-S-A-A-A-P-F-DS-5 | 515                                    | 121.2  | 139.2                  | 115.2                  | 10,800                                 |
| 1,000  | FUX 4-S-A-A-A-P-F-DS-6 | 515                                    | 121.2  | 139.2                  | 115.2                  | 11,400                                 |

### 965 MM TUNNEL WIDTH

| Container/<br>box/<br>basket output<br>per hour<br>(maximum) | Model                  | Fresh<br>water<br>consumption<br>(l/h) | Connected load kW<br>without drying/blower section |                        |                        | Total length<br>incl. dryer<br>(in mm) |
|--|------------------------|--|--|------------------------|------------------------|--|
|  |                        |  | with C38   | without C38<br>CW 12°C | without C38<br>WW 50°C |  |
| 600  | FUX 2-S-A-P-F-DS-4     | 480                                    | 87.0   | 105.0                  | 81.0                   | 7,400                                  |
| 600  | FUX 3-S-A-P-F-DS-5     | 480                                    | 87.0   | 105.0                  | 81.0                   | 8,000                                  |
| 600  | FUX 4-S-A-P-F-DS-6     | 480                                    | 87.0   | 105.0                  | 81.0                   | 8,600                                  |
| 1,000  | FUX 2-S-A-A-P-F-DS-4   | 540                                    | 118.0  | 142.0                  | 112.0                  | 8,800                                  |
| 1,000  | FUX 3-S-A-A-P-F-DS-5   | 540                                    | 118.0  | 142.0                  | 112.0                  | 9,400                                  |
| 1,000  | FUX 4-S-A-A-P-F-DS-6   | 540                                    | 118.0  | 142.0                  | 112.0                  | 10,000                                 |
| 1,350  | FUX 2-S-A-A-A-P-F-DS-4 | 600                                    | 149.0  | 167.0                  | 140.0                  | 10,200                                 |
| 1,350  | FUX 3-S-A-A-A-P-F-DS-5 | 600                                    | 149.0  | 167.0                  | 140.0                  | 10,800                                 |
| 1,350  | FUX 4-S-A-A-A-P-F-DS-6 | 600                                    | 149.0  | 167.0                  | 140.0                  | 11,400                                 |

\*HR = heat recovery \*\*CW = cold water \*\*\*WW = warm water

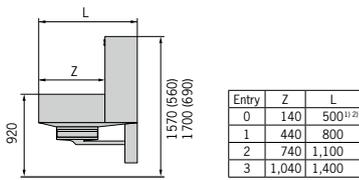
WAREWASHING  
CONTAINER AND UTENSIL WASHER

**FUX**

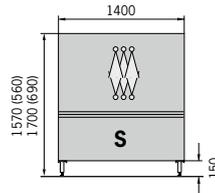
EFFICIENT – RELIABLE – INNOVATIVE

**7** | MODULES

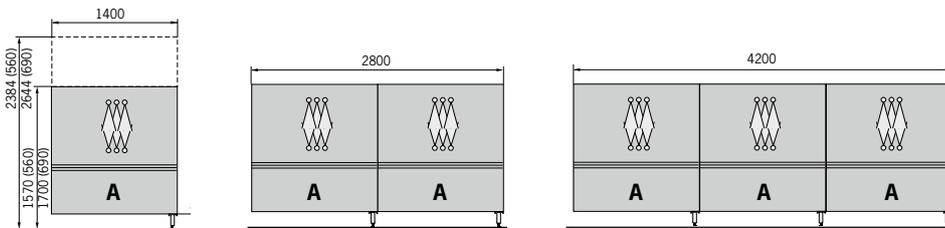
ENTRY SECTIONS



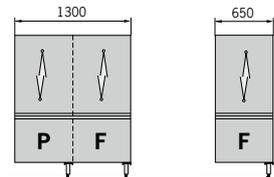
PRE WASH



MAIN WASHES



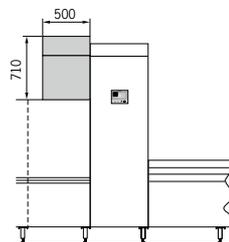
PRE & FINAL RINSE



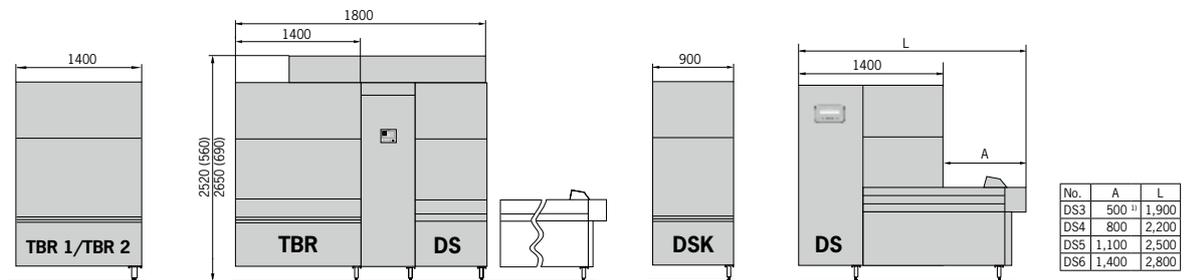
NEUTRAL ZONE



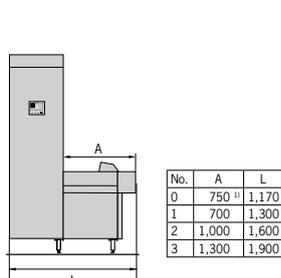
EXHAUST



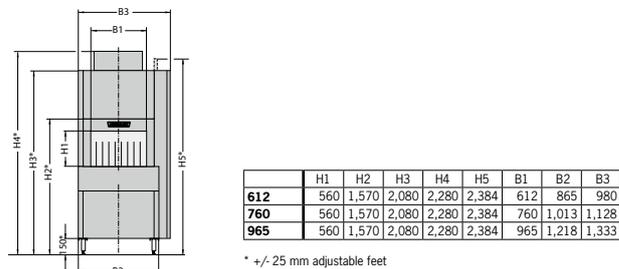
BLOWER SECTION/DRYING



WITHOUT DRYER



DIMENSIONS DEPENDING ON LOADING WIDTH



\* +/- 25 mm adjustable feet

1) For roller table connection only  
2) For A and SA machine only

## **POWERFUL AND ECONOMICAL: THE WASHING SOLUTION FOR CONTAINERS, BAKING TRAYS AND UTENSILS**

HOBART FUX container and utensil washers are the ideal solution for medium to large bakery and butcher businesses, as well as for large kitchens where 2,000 baskets per hour are washed.

The FUX provides an outstanding performance and offers the lowest operating costs of any comparable machine on the market today.

What's more, HOBART's FUX container and utensil washer offers an outstanding quality and reliability.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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**EFFICIENT – RELIABLE – INNOVATIVE**

Member of the *ITW* Food Equipment Group Europe

