

WAREWASHING  
UNDERCOUNTER DISHWASHER



# PROFI FX

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



## HOBART PHILOSOPHY

### UNDERSTAND – SIMPLIFY – FOCUS – INNOVATE

This philosophy provides the continuing motivation to develop innovations, which are the best driver of economic development and a guarantee for job security. It is a philosophy of the essential, of customer value, of simplicity. A philosophy built on the conviction that things created for a purpose and with logic, do not need to be completely renewed, but must instead be subject to continuous evolution.

## HOBART VISION

### “WASH WITHOUT WATER”

Before PREMAX, a flight-type dishwasher with a 50 % water saving would have been utopia. At HOBART, efficiency and responsible use of natural resources when developing new machines have always gone hand in hand. With PREMAX, the company has set a further milestone, and has further extended its leadership in innovation. But even so, HOBART is not satisfied with this. The company will not diminish the pace of its innovation, and will look for further opportunities to save even more. When the day arrives that a machine is able to wash without water, we already know, it will be a PREMAX.

## HOBART FOCUS

### INNOVATION

Without the readiness to invest in the future, without the natural reaction of always questioning ourselves, without interdisciplinary basic research and consistent customer focus, PREMAX would be inconceivable.

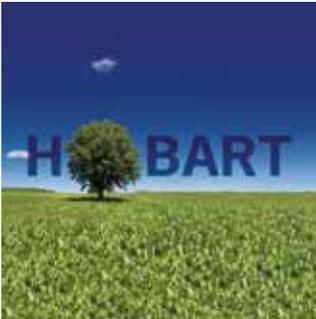
Worldwide, over 300 research and development engineers and global marketing teams, who identify customer requirements, as well as the company’s own Tech-Center, with over 1,000 patent applications annually, develop innovative technology and make PREMAX possible.

### 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.

### ECONOMY

Already in the early 1980s our E-formula set standards 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 with conventional technologies, making HOBART a model in terms of efficiency and economy.



1

2

1 "Today prices are going up. Fortunately, the new HOBART saves 30% water. 2.5 l per cycle is top. Moreover, it achieves better wash results than our old dishwasher."

3

4

2 "In the past we had to wash every little thing in the central kitchen. With the HOBART we can wash the breakfast dishes here at our ward. This makes everything so easy."

3 "I am sick and tired of washing every dirty plate extra. Changing the water always takes a lot of time. The new HOBART is great, it changes the water when needed just by pressing a button. Now, I can wash big plates in between and there are still no spots on the wash ware."

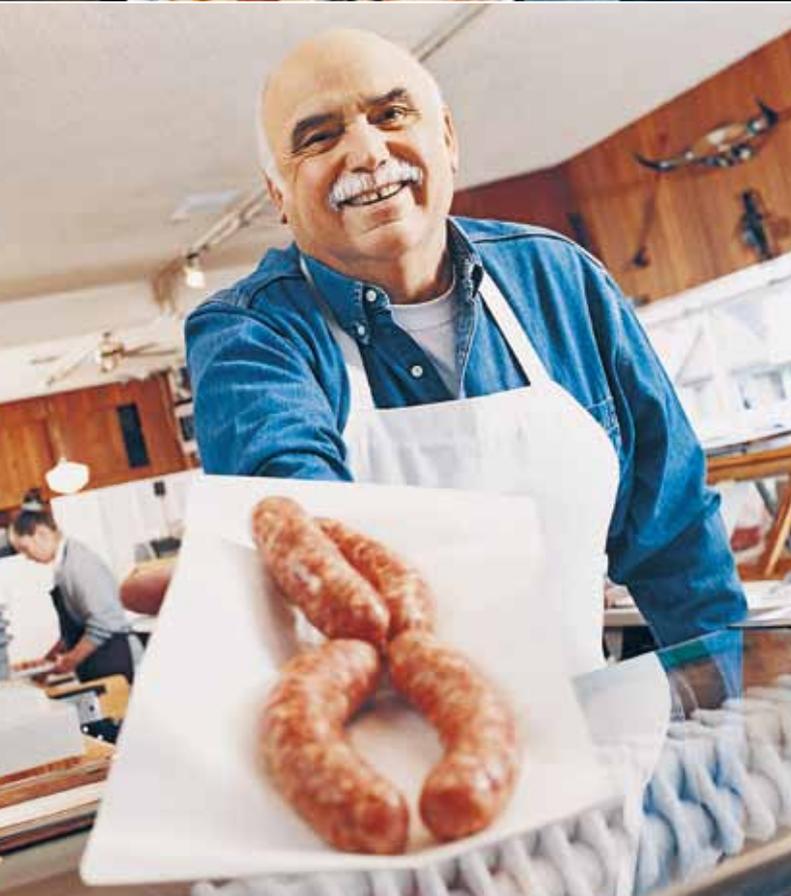
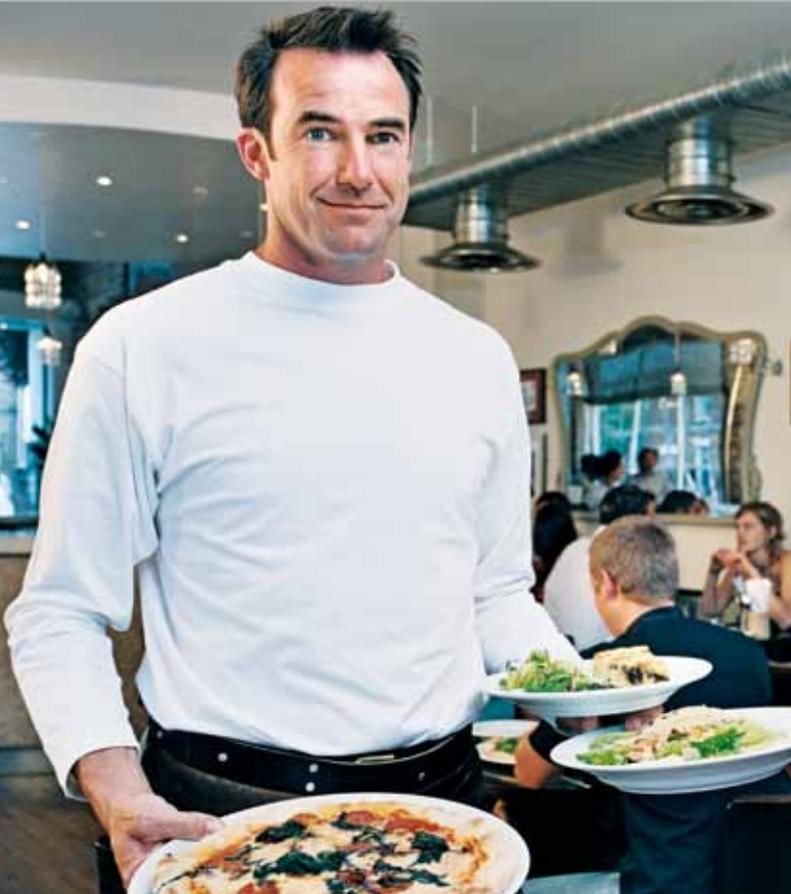
4 "The fantastic HOBART machine offers enough room for our trays. We also wash our cups and dishes from the coffeecorner with it. Even milk remainders are no problem any longer. The machine changes the water by simply pressing a button, so we don't have to wait very long."

Jean-Pierre Dausset  
Restaurant,  
Montpellier, France

Saara Halonen  
Hospital,  
Lathi, Finland

Jerry Elliott  
Butcher's shop,  
Calgary, Canada

Liselotte Becker  
Bakery,  
Berlin, Germany



## 1 | WASH RESULT

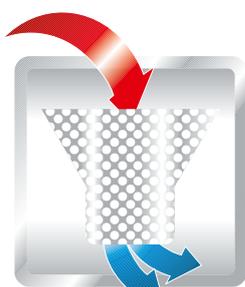
### FINE FILTER SYSTEM GENIUS-X<sup>2</sup>

Permanently clean wash water is the key requirement for an optimal wash result with less detergent and water consumption. In the next generation GENIUS-X<sup>2</sup> fine filter system, the wash water is continuously led through a system of filters. During the wash cycle the majority of soil particles are removed during the first phase of draining. Any remaining soil particles are retained in the filter and are then removed during the second stage of draining, just before the final rinse. The tank water is then replenished with 2.5 liter of fresh hot rinse water. This optimal regeneration ensures a perfect wash result. The GENIUS-X<sup>2</sup> cleans itself during the draining phase. The fine filter system GENIUS-X<sup>2</sup> reduces detergent consumption by up to 30%.

### RINSE SYSTEM ACCURINSE

Ensuring constant temperature and volume of clean rinse water is vital to achieve not only clean, but hygienically clean table-ware. The HOBART system “pulls” rather than “pushes” the rinse water through the booster and is totally independent of flow pressure on site thus preventing any mixing with external cold water. Depending on the program the ACCURINSE system delivers precisely 2.5 liter of fresh water at over 80°C every cycle to ensure perfect hygiene standards. In addition the precision of ACCURINSE saves up to 30% water, energy, detergent and rinse aid.

## HYGIENIC – CLEAN – ECONOMICAL



The fine filter system GENIUS-X<sup>2</sup>, with integrated pre-washing process, filters the wash water continuously and then pumps out the soil particles.

### WASH SYSTEM ROTOR

The performance depends heavily on a reliable wash system. The ROTOR wash system is continuously efficient. Separate, rotating wash and rinse arms at the top and bottom are driven by the water pressure. Every corner of the wash chamber is efficiently covered by the dynamic water action, during the wash as well as during the rinse.

### PATENT

### WIDE ANGLE NOZZLE FAN

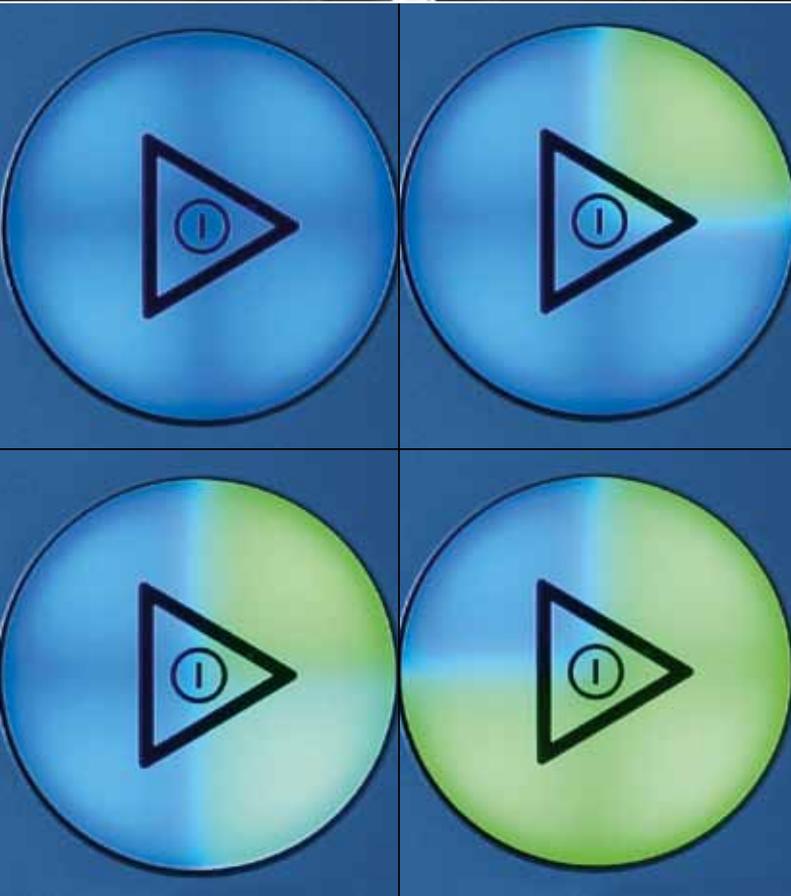
Wash efficiency depends largely on the distribution of the wash water and on avoiding any masked areas. Spraying angles and the precision of the wash jets are vital factors in achieving a powerful, searching wash action and the HOBART designed wide angle nozzles FAN provide a substantially broader and more precise spray pattern. Compared with conventional wash arm systems the wash water is disturbed more efficiently, masking is avoided and the wash result, especially in the corners, is considerably improved.

## EVERYWHERE – CONSTANT



The wide angle nozzle FAN avoids spray shadows and improves the wash results.

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## 1 | WASH RESULT

### STRAINER CONTROL SYSTEM PROOF

Clean wash water and accurate detergent dosage are key factors in achieving a clean and hygienic wash result. An efficient filter system is useless if it is not in the right position.

The strainer control system PROOF has an interlock which is continuously monitored by the SMARTRONIC control.

The wash cycle can only be activated if the filter is correctly positioned.

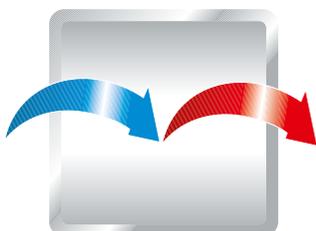
### X-CHANGE CYCLE AQUA-NEW

Items like milk glasses, cappuccino cups, ice cream bowls and greasy utensils overload the wash water with fat, reducing the detergent efficiency. HOBART's unique AQUA-NEW X-change cycle drains the wash water from the tank before the rinse, pumping out emulsified fat and other food soil. The tank is then refilled with fresh water from the rinse for the following cycle. The X-change cycle can be activated automatically as required at the touch of a button.

### HEAT ELEMENT ECOTHERM

A consistently high wash temperature extracts maximum cleaning performance from the wash water. HOBART research has established that higher washing temperatures optimize detergent performance. ECOTHERM ensures a constant 60°C even during continuous use. The extra heat absorbed by the washed ware also improves the drying result.

## FLEXIBLE – CONSTANT



The switchable AQUA-NEW fill and dump programme washes very dirty wash ware in between – without manual changing of water.

## 2 | HANDLING

### SINGLE BUTTON SMARTRONIC

In any busy establishment the dishwasher must be easy to operate and customers tell us that having simple, understandable controls is of big importance.

The SMARTRONIC control with single button operation indicates the machine status in clear, self explanatory colours. Only the essential functions such as filling and heating, washing and rinsing, ready for use, and draining are indicated. Incorrect operation and misuse are eliminated and additional functions can be accessed as required.

### REMAINING TIME INDICATOR

The remaining time indicator visibly shows the progress of the running wash program. The four segments of the STARTER colour up clockwise in sequence. Even in peak times personnel can set their priorities at a glance and work more efficiently.

**PATENT**

### HYGIENE CYCLE ACTIVE

A dirty dishwasher cannot deliver clean results and over a period of time dirt particles, starch and sometimes lime can build up inside the machine leading to bacteria and poor machine hygiene.

Together with the specially formulated INTENSIVE chemical tablets HOBART's ACTIVE hygiene cycle effectively removes these deposits from the wash tank and chamber leaving a clean machine with a fresh smell.

## EASY – INTELLIGENT



The simple SMARTRONIC control combines the most important functions into just one STARTER button.

**HOBART**



## 2 | HANDLING

### WATER SOFTENING SYSTEM NONSTOP

Lime scale is a major cause of poor wash results and machine problems. Deposits build up on machine parts, in the boiler and on heating elements reducing efficiency, increasing running costs and causing failures. Detergent performance is also significantly reduced.

The optional NONSTOP integral water softening system provides continuously and automatically soft water production and eliminates the downtime or extended program times typically associated with other integral softener systems. The dishwasher, and in particular, the heating elements are maintained in optimum working order for efficient performance.

### SMOOTH COUNTERBALANCED DOOR

Hydraulic shock absorbers give the spring loaded door a gentle opening and a silent closing. The flat rack slides on the inner door make loading and unloading easy from all sides.

### INTERGRATED CHEMICAL CONTAINER

Optional large liquid containers for rinse aid and detergent (the largest on the market) cut the number of refill times and save space next to the machine. The generously dimensioned container openings make it easy to fill the containers without spillage on a busy day. The reserve indicator on the control panel alerts you to a low fill level to make sure you fill the detergent and rinse aid containers on time. This guarantees an ideal wash result.

### O-LEVEL CHEMICAL SENSOR

For machines with integrated containers detergent and rinse aid are essential for a clean and sparkling wash result. The integrated chemical sensor of the detergent container and the rinse aid container show in time, when detergent or rinse aid has to be refilled. The wash program doesn't have to be interrupted at once. Dosing pump is protected.

### REFILL SIGNAL

For machines with external containers the integral low level signal indicates when detergent and rinse agent need refilling. This guarantees a perfect wash result every time.

## SOFT – NOISELESS



An easily accessible filler cap and a large refill opening allow quick and simple salt replenishment for the water softener NONSTOP.

## HIGH CAPACITY – COMFORTABLE



Large containers for detergent and rinse aid lengthen refilling intervals.

**HOBART**



## 3 | RELIABILITY

### QUALITY

A commercial dishwasher is used up to 85,000 times during its lifecycle. To HOBART reliability is no coincidence: therefore, our machines are repeatedly exposed to daily requirements, in order to guarantee performance after progressive use. For example the door is opened and shut more than 100,000 times.

### SOFT START PROTECT

In bars and bistros glass- or dishwashers are often installed under the counter, close to guests. The PROTECT soft start considerably reduces the noise emission. In addition it avoids shaking up glasses and ware, and protects components in the long run.

## 4 | FLEXIBILITY

### XL-CHAMBER

In bakeries, besides coffee dishes also presentation trays and baking trays are washed. In butcheries and meat processing industry additionally EN-boxes and large sheets are to be washed. Due to an enlarged chamber the FXL-model offers space for wash ware up to 600 x 400 m.

### DRAIN PUMP

The drain pump, a standard fitting, drains the waste water into any effluent with a maximum height of 1 m.

### MULTI-PHASING (230/400 V)

Multi-Phasing allows the operation of the same machine either on 230 V or 400 V. According to the local situation the phasing can be changed by simple plugging, possible at any time.

## SAFE – UNIVERSAL – PRACTICAL



XL capacity gives you enough space for washware up to 600 x 400 mm...

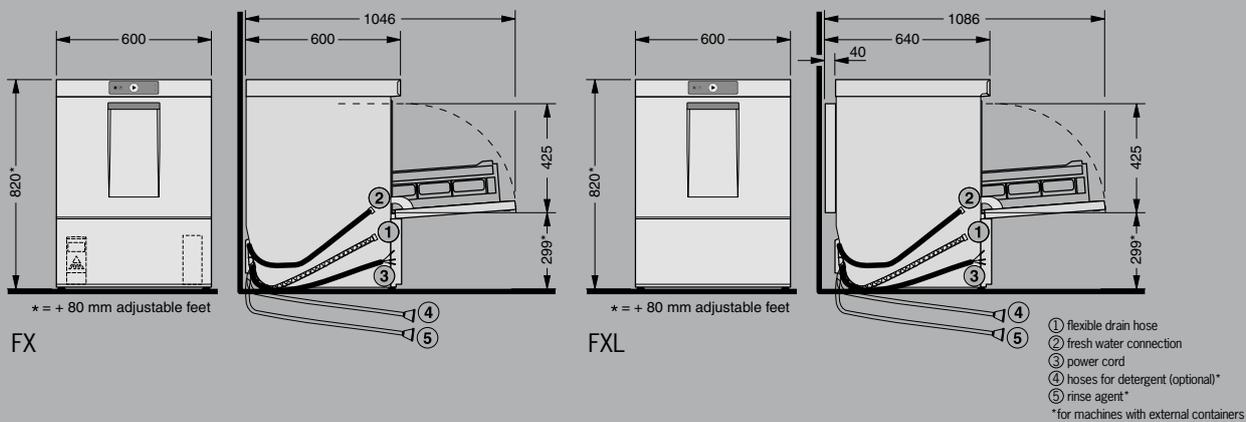


...such as boxes.

## GUARANTEED – EASY



The quality manager GARANT: For example, the door is opened and closed again 100,000 times in a stress test to ensure highest reliability.



## 5 TECHNICAL DATA

MODEL	FX	FXL
<b>Cycle times</b> in sec. [ 1 ] [ 3 ]		
with 400 voltage	90 / 180 / 360	90 / 180 / 360
with 230 voltage	140 / 180 / 360	140 / 180 / 360
<b>Capacity with 400 voltage</b> [ 2 ]		
Racks / h	40	40
Dishes / h	720	720
Glasses / h	1,440	1,440
<b>Capacity with 230 voltage</b> [ 2 ]		
Racks / h	25	25
Dishes / h	450	450
Glasses / h	900	900
<b>Tank volume</b> liter	10.8	10.8
<b>Fresh water consumption per cycle</b> liter	2.5	2.5
<b>Total loading</b> kW		
with 400 voltage	7.7	7.7
with 230 voltage	3.6	3.6
<b>Dimensions</b> in mm		
Width / Depth / Height	600 / 600 / 820	600 / 640 / 820
Loading height	425	425
Rack size	500 x 500 500 x 530	500 x 500 500 x 530 600 x 400
<b>Features</b>		
Drain pump	●	●
Rinse pump	●	●
Rinse aid dispenser	●	●
Detergent dispenser	●	●
Rinse aid container	○	-
Detergent container	○	-
Water softener	○	○
Rack equipment	1 plate rack 1 universal rack, 1 cutlery rack with 4 boxes	1 plate rack 1 universal rack, 1 cutlery rack with 1 box

● incl. ○ optional - Not available

## WATER TREATMENT

### WATER SOFTENING SYSTEM

to protect against calcium deposits

Mod. SE output 1,600 liter at 10° d (total hardness)

### PARTIAL DESALINATION CARTRIDGES

for sparkling wash results when the raw water contains minerals

Series TE output of 7,000 to 16,000 liter at 10° d (carbonate hardness)

### FULL DESALINATION CARTRIDGES

for sparkling wash results when the raw water has a high mineral content.

Series VE output of 3,100 - 5,000 liter at 10° d (total hardness)



[ 1 ] The machine is equipped with an automatic cycle-time control which ensures hygienic rinse temperatures even on a cold-water supply or with reduced heating performance.

[ 2 ] Theoretical performance

[ 3 ] Multi-Phasing allows the operation of the same machine either on 230 V or 400 V. The change is done by simple plugging on site when installing the machine.

WAREWASHING  
UNDERCOUNTER DISHWASHER

# PROFI FX

EFFICIENT – RELIABLE – INNOVATIVE

## ALWAYS SUITABLE

### CATERING

Clean plates are the business card of restaurants and hotels. The requirements to wash result and reliability are accordingly high. Easy operating is essential for daily routine with a changing staff in a seasonal business.

### BAKERY

In bakeries, besides coffee dishes also presentation trays and baking trays are washed. The water tank in the FXL is completely emptied by a water exchange program. Anodized trays are finally washed with fresh water.

### BUTCHERY

In butcheries and meat processing industry EN-boxes and large sheets are to be washed as well. Due to an enlarged chamber the FXL-model offers space for wash ware up to 600 x 400 m.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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Member of the *ITW* Food Equipment Group Europe

