



WAREWASHING  
UNDERCOUNTER DISHWASHER

**PREMAX FP**

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.  
2007 HOBART presents its new dishwasher generation PREMAX.



## 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.

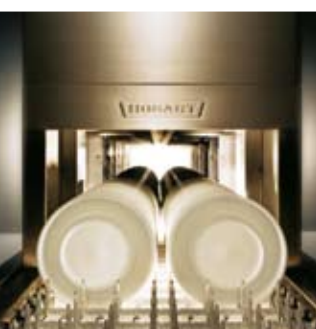
Worldwide, over 300 research and development engineers and global marketing teams, who identify customer requirements, as well as the company's own Tech-Center, with over 1,000 patent applications annually, develop innovative technology and make PREMAX possible.

### 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

3

4

1 „The new PREMAX only needs 1.5 l water per cycle. Since washing with this machine we can use the water more reasonably and economically.“

2 „Everything is so much easier with the new PREMAX and the operation is very simple. Now I have much more time for my guests.“

3 „My new dishwasher even has a pre-wash function and it changes the water automatically when needed. It saves us a lot of time, detergent and energy.“

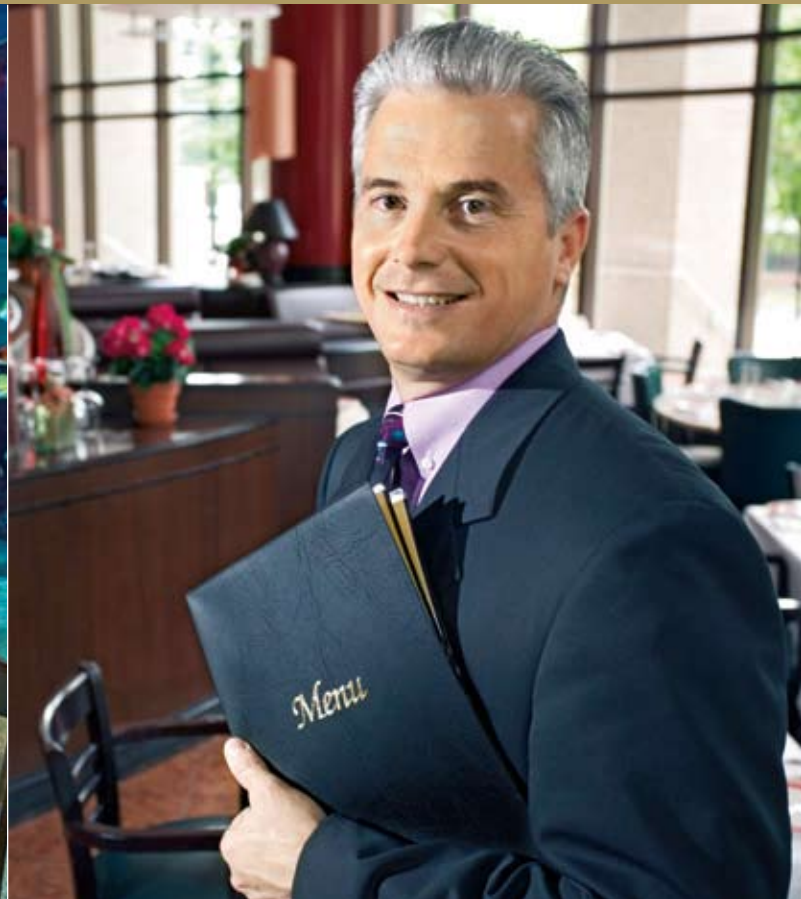
4 „Once a month we make a basic cleaning with the hygiene program of the new PREMAX. Afterwards the machine looks as good as new.“

Reiner Salzmann  
Restaurant,  
Friedrichshafen, Germany

Baptiste Benoist  
Hotel,  
Nantes, France

Timothy Greenwood  
Gastronomy,  
Toronto, Canada

Katie Fleming  
Restaurant,  
Canterbury, England



## 1 | ECONOMY

**PATENT  
PENDING**

### VAPO RINSE ECO

The primary task of rinsing is to remove detergent from the wash item. The switchable steam rinse cycle VAPO RINSE ECO works in two phases. In the first phase, the detergent is rinsed off with water. The following VAPO RINSE ECO fills the wash chamber completely with steam which forms a microscopically thin film on the wash items and removes residual alkalinity. The self-drying effect of the wash items is additionally enhanced by the increased temperature penetration into the wash items. The steam rinse cycle VAPO RINSE ECO reduces the consumption of fresh water to 1.5 liter per cycle. Compared to standard machines, this represents a saving of up to 55 % in water and detergent as well as up to 70 % in rinse aid.

### 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 incoming cold water. Depending on the program the ACCURINSE system delivers precisely 1.5/2.5 l of fresh water at over 80°C every cycle to ensure perfect hygiene standards. In addition the precision of ACCURINSE saves up to 55 % water and 30 % energy.

## ECONOMICAL – EFFICIENT



The VAPO RINSE ECO steam rinse cycle reduces the consumption of fresh water to 1.5 liter per cycle.

## 2 | WASH RESULT

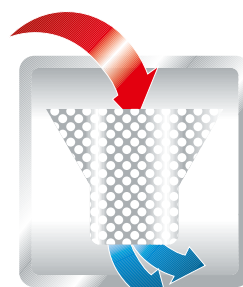
### FINE FILTER SYSTEM GENIUS-X<sup>2</sup>

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. Depending on the program the tank water is then replenished with 1.5/2.5 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.

### PERMANENT WASH PROGRAM

The permanent wash program is built-in as standard and can be adapted anytime to heavily soiled wash ware. No need to run a second cycle, only the wash phase is extended. No additional detergent dosing or rinsing is necessary. Time is saved and operation costs are reduced.

## HYGIENIC – CLEAN



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.





## 2 | WASH RESULT

### 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.

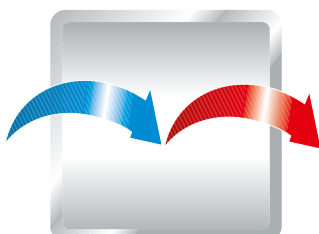
### HEAT ELEMENT ECOTHERM

A consistently high wash temperature extracts maximum cleaning performance from the detergent solution. HOBART research has established that higher wash temperatures optimize detergent performance. ECOTHERM ensures a constant 62°C even during continuous use. The extra heat absorbed by the washed ware also improves the drying 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.

## FLEXIBLE – CONSTANT



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

PATENT  
PENDING

### DRYING MANAGER PERFECT

The self-drying of the wash ware is highly influenced by its temperature and the moisture in the chamber of the machine. The drying manager PERFECT has a multi-stage ventilation which extracts the air, saturated with moisture, out of the machine. Fresh air streaming in also absorbs moisture. The system of air diverters optimizes the air circulation and enables a faster and even drying result. At the same time the temperature of the wash ware is reduced – especially glasses can soon be used again. The drying phase can be interrupted at any time.

### WASH SYSTEM ROTOR

The performance depends heavily on a reliable wash system. Fixed wash arms and jets will often leave shadow areas, especially with some clogged jets. 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.

## COOL – BRILLIANT



The drying manager PERFECT monitors the drying of the wash ware. At the same time the wash ware is cooled down – glasses can be used again within a very short time.



## 2 | WASH RESULT

**PATENT  
PENDING**

### WIDE ANGLE NOZZLES FAN

Wash efficiency depends largely on the distribution of the detergent solution 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 nozzles FAN provide a substantially broader and more precise spraying pattern. Compared with conventional and fixed wash arm systems the detergent solution is distributed more efficiently, masking is avoided and the wash result, especially in the corners, is considerably improved.

### COMPLETE – CONSTANT



The wash system ROTOR increases the safety reserves and guarantees a constant wash result.



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



## 3 | HANDLING

**PATENT  
PENDING**

### SINGLE BUTTON SMARTRONIC

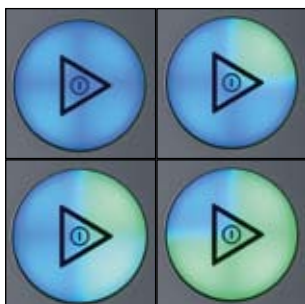
In any busy establishment the dishwasher must be easy to operate and customers tell us that having simple, understandable controls is of big importance. The SMARTRONIC control with single button operation indicates the machine status in clear, self-explanatory colours. Only the essential functions such as filling & heating, washing & rinsing, ready for use, and draining are indicated. Incorrect operation and misuse are eliminated. PREMAX models have the extra benefit of machine status indication within the door handle for clearer, easier identification.

### 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.



The single button operation SMARTRONIC combines the most important functions in the STARTER.



The STARTER shows the remaining cycle-time and the operation status in self-explanatory colours.

**PATENT  
PENDING**

### DOOR SYSTEM VAPOSTOP

When opening a conventional dishwasher hot steam escapes from the machine. The door opening VAPOSTOP extracts the moisture saturated air by means of a multi-stage ventilation. Due to the exhaust the escape of steam is effectively avoided. So removing the wash ware is much easier for the personnel and the guests at the bar are not disturbed by escaping steam.

**PATENT  
PENDING**

### 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 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

## FREE OF STEAM – CONVENIENT



The door opening VAPOSTOP avoids effectively the escape of steam when loading and unloading the machine.



## 3 | 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.

### 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.

### DETERGENT CONTAINER XTENT3

The largest detergent container on the market with 2.9 liter. Compared with conventional containers the period to the next filling is doubled. The large opening enables a fast and safe refilling.

### RINSE CONTAINER XTENT1

The optional largest liquid container on the market with 1 liter. The frequency of refilling is reduced many times over. A withdrawable drawer makes the refilling easier.

### HOBART RESERVE INDICATOR

Detergent and rinse aid are essential for a clean and sparkling wash result. The integrated reserve indicator of the detergent container XTENT3 and the rinse aid container XTENT1 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.

## PERMANENT – NOISELESS



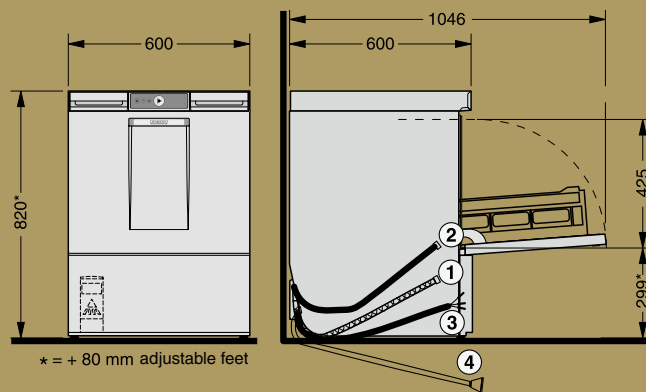
An easily accessible filler cap and a large refill opening allow quick and simple salt replenishment for the water softener NONSTOP.

## HIGH CAPACITY – RESERVE



Largest detergent container on the market, the XTENT3 doubles the period to the next filling.





## 4 TECHNICAL DATA

MODEL	FP	FPS
<b>Cycle times</b> in sec. [ 1 ] [ 3 ]		
with 400 voltage	90 / 170* / 180 / 230* / 360 / > 360	90 / 170* / 180 / 230* / 360 / > 360
with 230 voltage	140 / 320* / 180 / 370* / 360 / > 360	140 / 320* / 180 / 370* / 360 / > 360
<b>Capacity with 400 voltage</b> [ 2 ]		
Racks / h	40 / 21*	40 / 21*
Dishes / h	720 / 378*	720 / 378*
Glasses / h	1,440 / 756*	1,440 / 756*
<b>Capacity with 230 voltage</b> [ 2 ]		
Racks / h	25 / 11*	25 / 11*
Dishes / h	450 / 198*	450 / 198*
Glasses / h	900 / 396*	900 / 396*
<b>Tank volume</b> liter	10.8	10.8
<b>Fresh water consumption per cycle</b> liter	2.5 / 1.5*	2.5 / 1.5*
<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	600	600
Depth	600	600
Height	820	820
Loading height	425	425
Rack size	500 x 500	500 x 500
	500 x 530	500 x 530
<b>Features</b>		
Drain pump	incl.	incl.
Rinse aid dispenser	incl.	incl.
Detergent dispenser	incl.	incl.
Rinse aid container	optional	optional
Detergent container	optional	optional
Water softener	–	incl.

\* with VAPO RINSE ECO steam rinse

## 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.

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UNDERCOUNTER DISHWASHER

**PREMAX FP**

**EFFICIENT – RELIABLE – INNOVATIVE**

## **XL OPENING**

Today, a plate is more than just a plate to the caterer. It is a crucial component to the whole presentation consisting of the product, decoration and service. The variety of shapes and sizes of plates available is steadily increasing.

With the PREMAX FP you are well prepared. The loading height of 425 mm and numerous rack models offer a brilliant solution to every challenge.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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Member of the ITW Food Equipment Group Europe

