

WAREWASHING  
GLASSWASHER



# PREMAX GP

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 "I have taken my dishwasher to my new bar in Amsterdam. I didn't want to do without the quality "Made in Germany."

2 "We always have to look good behind the bar. There is no escaping steam from the new PREMAX, so our make-up lasts the whole night."

3 At the bar I have to keep my eye on everything. The PREMAX always shows me what it is doing and how long the program will take. It's the only machine doing this."

4 "Our beer sales have increased since we got our PREMAX GP. The glasses are already cooled down when they come out of the machine, giving the beer a great head - wetting the appetite for more."

Thomas D. Küsterhagen  
Cocktail bar,  
Amsterdam, Netherlands

Sabine Münch  
Discotheque,  
Bremen, Germany

Torben Kaufmann  
Cocktail bar,  
Lyon, France

Mario Fischer  
Pub,  
Munich, Germany



## 1 | WASH RESULT

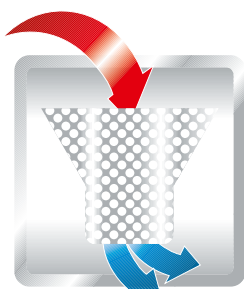
### FINE FILTER SYSTEM GENIUS-X<sup>2</sup>

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 incoming cold water. Depending on the program the ACCURINSE system delivers precisely 2.5 liter of fresh water at over 65°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

HOBART glasswashers are equipped with a top wash arm. The double top and bottom wash action allows washing small tableware in addition to glasses. 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 NOZZLES 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 distributed 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.



**HOBART**



## 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.

**PATENT**

### 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.

The input of humidity into the room decreases by 45% compared to ordinary machines.

## COOL – SPARKLING



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.



The GLASS SHINE deep-clean wash program eliminates the need for manual scouring.

### RINSING AQUA-PLUS

The rinsing of higher glasses or glasses of critical shape makes high demands on the final rinsing. The separately selectable program AQUA-PLUS rinses the glasses with an increased quantity of fresh water.

**PATENT  
PENDING**

### BASIC CLEANING CYCLE GLASS SHINE

New glasses often have a kind of a covering which can not be removed with a normal cleaning process in the machine – leading to bad rinse/drying results. Furthermore glasses as well as china ware tend to build up coverings/deposits during usage (e.g. starch, other minerals, sometimes even food soil), which also can not be removed with a normal cleaning process in the machine.

To achieve perfect results glasses and china need to be cleaned special from time to time. The specific cycle GLASS SHINE can cover this automatically. GLASS SHINE improves results, while eliminating the unpleasant time-consuming chore of special cleaning by hand.

### 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 55°C even during continuous use. The extra heat absorbed by the washed ware also improves the drying result.

## CONSTANT – RELIABLE

# HOBART

## 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.

The PERFECT drying manager also shows the remaining time in the display.

### EASY – INTELLIGENT



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





**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. The input of humidity into the room decreases by 45% compared to ordinary machines.

**PATENT**

## HYGIENE CYCLE ACTIVE

A dirty dishwasher cannot deliver clean results and over a period of time dirt particles, starch and sometimes lime can be 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.

## 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.

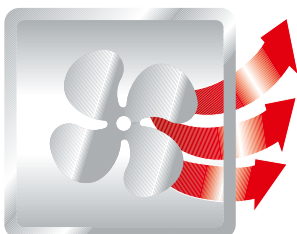
## O-LEVEL CHEMICAL SENSOR

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.

## FREE OF STEAM – CONVENIENT



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

## SOFT – NOISELESS



The deep drawn rack guide at the door and in the interior enables an easy sliding of the glass rack.



## 2 | HANDLING

### **DETERGENT CONTAINER XTENT3**

The optional 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.

## HIGH CAPACITY – RESERVE



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



## 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

### RINSING HOT ↔ COLD

Dishes and wine glasses should come out of the dishwasher dry, beer and softdrink glasses preferably cool. With the HOT ↔ COLD rinse, both is possible. The rinse can be switched from HOT to COLD anytime, without waiting time. The cold rinse cools the glasses after the hot wash cycle. The glass is ready for use immediately and beer will keep a steady, finely porous foam. The hot rinse improves the self drying process. The HOT ↔ COLD glasswasher increases working flexibility while reducing operating costs.

### 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.

## FAST – FLEXIBLE



Hot or cold water rinse can be selected as required.

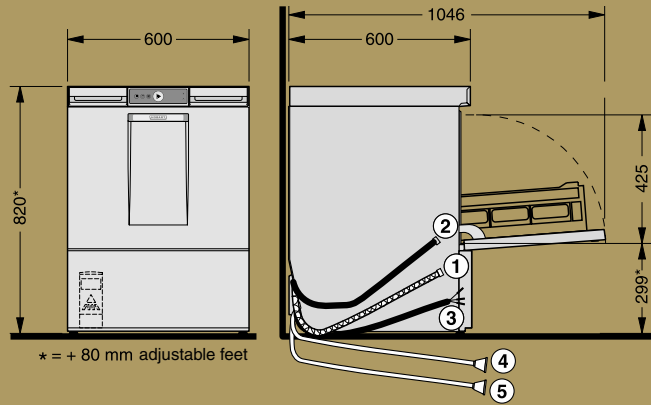


**Cold glass (left)**  
beer delight for the palate and the eye  
**Hot glass (right)**  
the foam collapses quickly after pouring

## 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.



\* = + 80 mm adjustable feet

- ① flexible drain hose
  - ② fresh water connection
  - ③ power cord
  - ④ hoses for detergent (optional)\*
  - ⑤ rinse agent\*
- \*for machines with external containers

## 4 | TECHNICAL DATA

MODEL	GP
<b>Cycle times</b> in sec. [ 1 ] [ 3 ]	
with 400 voltage	60 / 90 / 120
with 230 voltage	60 / 90 / 120
<b>Capacity with 400 voltage</b> [ 2 ]	
racks / h	60
glasses / h	2,160
<b>Capacity with 230 voltage</b> [ 2 ]	
racks / h	60
glasses / h	2,160
<b>Tank volume</b> liter	10.8
<b>Fresh water consumption per cycle</b> liter	2.5 / 4.0 (cold water rinse)
<b>Total loading</b> kW	
with 400 voltage	6.8
with 230 voltage	3.2
<b>Dimensions</b> in mm	
Width	600
Depth	600
Height	820
Loading height	425
Rack size	500 x 500
	500 x 530
<b>Features</b>	
Drain pump	●
Rinse pump	●
Rinse aid dispenser	●
Detergent dispenser	●
Rinse aid container	○
Detergent container	○
Rack equipment	1 universal rack with 4 sloped rows

● inclusive    ○ optional    – not available

## WATER TREATMENT

**For spot-free sparkling glasses, we recommend installing a water treatment system.**

### PARTIAL DESALINATION CARTRIDGES

for sparkling wash results when the raw water contains minerals.  
Series TE output of 7,000 to 16,000 litres 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 litres 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  
GLASSWASHER

**PREMAX GP**

EFFICIENT – RELIABLE – INNOVATIVE

## VERSATILITY RULES

Depending on whether you are running a café, bar or restaurant, you can switch from hot to cold rinse at the touch of a button using the HOT&COLD rinse system to ensure that crockery is dry and beer glasses are cold when they come out of the machine. You can use the glasses straight away for a refreshing cool drink. The PERFECT drying manager also helps in drying washware while eliminating time-consuming polishing.

The VAPOSTOP door system prevents steam escaping out of the machine when you open it.

Apart from flexibility and a perfect washing result, PREMAX GP with the SMARTRONIC single button control and the remaining time indicator is incredibly easy to use.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

**HOBART GMBH**

Robert-Bosch-Straße 17

77656 Offenburg/GERMANY

Phone +49(0)781.600-28 20

Fax +49(0)781.600-28 19

email: [info-export@hobart.de](mailto:info-export@hobart.de)

[www.hobart-export.com](http://www.hobart-export.com)

**EFFICIENT – RELIABLE – INNOVATIVE**

Member of the *ITW* Food Equipment Group Europe

