

EFFICIENT - RELIABLE - INNOVATIVE

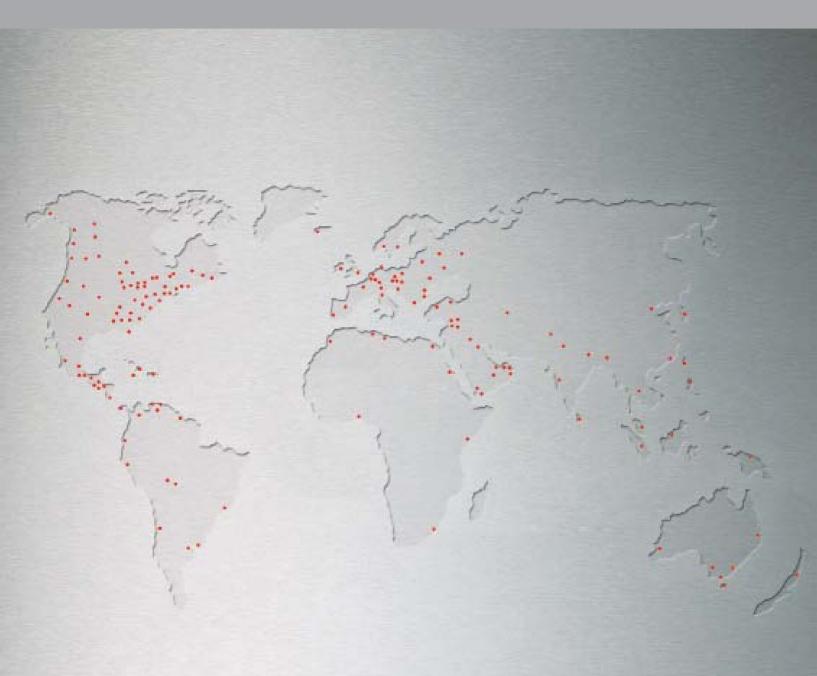


GERMAN TECHNOLOGY

German technology 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.





EFFICIENT - RELIABLE - INNOVATIVE

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 ${\rm CO_2NSEQUENT}$ 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.











PROFICS

EFFICIENT - RELIABLE - INNOVATIVE

SIMPLE - STRONG - RELIABLE

The PROFI CS is HOBART's smallest rack-type dishwasher and stands for top quality and absolute reliability.

If the capacity of a hood-type dishwasher is not sufficient to meet your needs, the PROFI CS is the perfect solution.

By using the optional heat recovery, you can save up to 7 kWh in energy.







PROFI CN

EFFICIENT - RELIABLE - INNOVATIVE

GOOD - BETTER - PROFI

Under continuous high capacity conditions in hotels, restaurants, nursing homes, canteens and motorway service areas, warewashing equipment must meet the most stringent requirements in terms of quality and reliability.

With its energy management system EFFICIENT and its highly effective heat recovery systems, HOBART sets new economical standards in rack-type dishwashers, while also protecting the environment by reducing consumption levels.

With its perfectly hygienic wash result and practical use features, the PROFI CN stands for quality – made by HOBART.





3 | 4

1 "We operate at constant high capacity. One bus after the other stops at our motorway service area for a break. Our warewashing has to cope and cannot afford to break down. With the PROFI CN, we have found the perfect machine for our needs."

2 "The eye leads to the stomach. Therefore we devote great attention to the presentation of our food. Sparkling and hygienically clean tableware are an obvious prerequisite. With the PROFI CN, we can guarantee this at all times."

3 "In addition to keeping operating costs down, we have stringent demands regarding hygiene. The PROFI CN satisfies both. It gives us the security of reduced operating costs, which pleases the management."

4 "Throughout the day, we get a constant flow of wash ware. Therefore a rack—type dishwasher was the right choice for us. Even though we are strapped for space, the PROFI CN fits in perfectly and is a reliable partner around the clock."

Marjan Ružić Motorway service area Ljubljana, Slovenia Darja Tamm Restaurant Tallinn, Estonia Juan Ogella Retirement and nursing home Sevilla, Spain

Dimitry Plostak Hotel Moskva Russia













EFFICIENT - RELIABLE - INNOVATIVE

1

ECONOMY



ENERGY-MANAGEMENT EFFICIENT

A conventional rack-type dishwasher loses 40% of the energy available in the machine via the exhaust system. The distribution of water and the air stream have a considerable influence. The new energy-management EFFICIENT reduces the evaporation loss. The improved arrangement of the wide angle nozzles FAN and the orientation of the wash arms reduce the air flow within the machine. The patent pending wide angle nozzle FAN spreads out a 65% wider and more even spray pattern. Therefore the recirculation of water can be reduced for the same wash result. In order to keep the system in balance less air/water steam has to be exhausted. The new energy-management reduces the energy loss of the rack-type dishwasher by up to 15%.

HOBART HEAT RECOVERY

HOBART's heat recovery system functions according to the countercurrent principle, using the energy from the extracted air to heat up the incoming water. The energy exchange takes place in the HOBART high-performance condenser. At the same time, the extracted air is cooled down and dehumidified. The HOBART heat recovery system reduces energy consumption by up to 8.5kW and total connected load to 36.7 kW¹⁾. The extracted air can be led directly into the building's ventilation ducting.²⁾

HOBART HEAT PUMP

THE HOBART heat pump uses the residual energy in the extracted air following heat recovery. A compressor and refrigerant are used to ensure efficient heat recovery. The amount of recovered energy is sufficient to heat the wash and rinse water. This innovative technology reduces energy consumption by up to 10 kWh and total connected load to 27.0 kW.¹⁾ The temperature of the extracted air is reduced to approx. 20°C.³⁾ The extracted air can be blown directly into the room.²⁾ **CN feature**

- Calculation example for the PROFI CN S-A DS compared to models without heat recovery.
- ²⁾ Conditional on compliance with VDI 2052
- 3) Depending on incoming air in the room and inlet temperature of the fresh water

EFFICIENT – OPTIMAL



Up to 65% wider and more even spray pattern.

ECONOMICAL - EFFICIENT



The HOBART heat pump uses the residual energy in the extracted air.





EFFICIENT - RELIABLE - INNOVATIVE

1 | ECONOMY

PATENT

DETERGENT SAVING SYSTEM LOW-CHEM

With the optional detergent saving system LOW-CHEM 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 105 litres of fresh rinse water into the wash tank for regeneration. Ahead of the final rinse, detergent is flushed off the wash ware by the RADIUS pre-rinse nozzle and diverted back into the wash tank. The dosing of detergent depends on the regeneration water volume. As a result detergent consumption is reduced by up to 70 % compared to conventional systems. **CN feature**

2 WASH RESULT

PATENT

POWERFUL WASHING

The combination of four upper and three lower wash arms leads to perfect results. **CS feature**

SPARKLING - CLEAN



Best wash result due to 4 wash arms above and 3 wash arms below.

PATENT

WASH SYSTEM CONTACT-PLUS

The impact with detergent solution via the wash arms is, apart from the temperature, the main factor influencing the cleaning result. The precision of the FAN wide angle nozzles makes it possible to reduce the distances between the wash arms. The wash arms are located very close to one another and thus achieving full cleaning performance. In connection with the 65% wider wash jets the new configuration of the FAN wide angle nozzles washes the items three times per wash arm. The new wash system CONTACT-PLUS with its 6 wash arms above and 5 wash arms below guarantees an optimal wash result. **CN feature**

ECOLOGICAL - ECONOMICAL



Up to 70% detergent saving.

PERFORMANCE - POWERFUL



Highest performance due to 6 wash arms above and 5 wash arms below.



EFFICIENT - RELIABLE - INNOVATIVE

9 WASH RESULT

THOROUGH DUAL RINSE

A second rinsing zone is integrated prior to the actual final rinse. Here, the fresh water collected in the receiving pan is used a second time in an additional pre-rinse. The optional dual rinse ensures a sparkling wash every time.

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 wider and more precise spray pattern. Compared with conventional and fixed wash arm systems the wash water is distributed more efficiently, masking is avoided and the wash result, especially in the corners, is considerably improved.

NON-CLOGGING NOZZLES

The indented nozzles cannot be obstructed, resulting in a constantly powerful wash and perfect quality results.

PRACTICAL DRIER

A perfect wash means not only sparkling clean, but also dry tableware. The optional drier fulfils this requirement quickly and meticulously, allowing rapid reuse of all washed items.

SPARKLING - CLEAN



Best wash result due to 4 wash arms above and 3 wash arms below.



The nozzle geometry of the wide angle nozzle FAN was calculated in numerous simulations.

DRY - HOT



Fresh water is collected in the receiving pan and reused for an additional pre-rinse.



The curtains are marked distinctively.



WAREWASHING RACK-TYPE DISHWASHER

PROFI CS-CN Series

EFFICIENT - RELIABLE - INNOVATIVE

9 WASH RESULT

3 HANDLING

PATENT

RINSE TRI

The optional HOBART triple rinse TRI consists of the RADIUS pre-rinse nozzle, a pumped rinse and a fresh water final rinse. The RADIUS pre-rinse nozzle rinses off most detergent from the wash ware before entering the rinse zone. The water is directed back into the wash tank, minimizing detergent addition into the recirculating rinse water. **CN feature**

EASYTRONIC CONTROL

Turn on and start at the touch of a button. All other important functions are performed by the controller. A temperature display can be included if required. **CS feature**

SMARTRONIC CONTROL

Switch on/off - all other functions are automatically assumed by the control. **CN feature**

PROTRONIC CONTROL

The innovative, multi-line text and symbol display is operated by touchscreen. This ensures easy operation and minimises errors. **CN feature**

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.

DIRECT - DYNAMIC



Best wash results due to triple rinse.

OBVIOUS - SIMPLE



The curtains are marked distinctively.

RACK-TYPE DISHWASHER

PROFI CS-CN Series HOBART

WAREWASHING

EFFICIENT - RELIABLE - INNOVATIVE





SUPPORT

CLEANING ASSISTANT SUPPORT

comprising

- Wash system
- · Bayonet catch
- Completely moulded washing tanks
- 1-part strainer
- 150 mm floor clearance
- Condenser
- Panorama door

WASH SYSTEM

The wash systems are easy to remove and to insert due to a drawer mechanism.

BAYONET WASH ARM CATCH

The wash arms can easily be opened and closed to simplify cleaning.

MOULDED DRAIN ELEMENT

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

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.

CONDENSER

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

SIMPLE - CLEAN



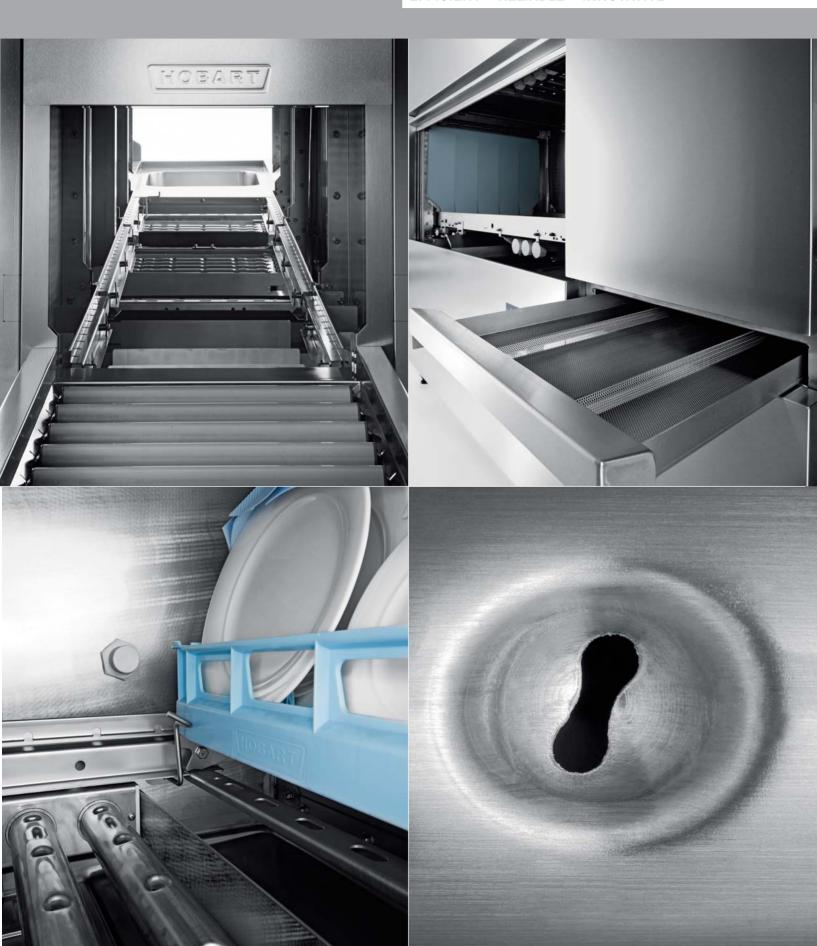
Wash arms can easily be opened and closed.

WAREWASHING RACK-TYPE DISHWASHER



PROFI CS-CN Series

EFFICIENT - RELIABLE - INNOVATIVE



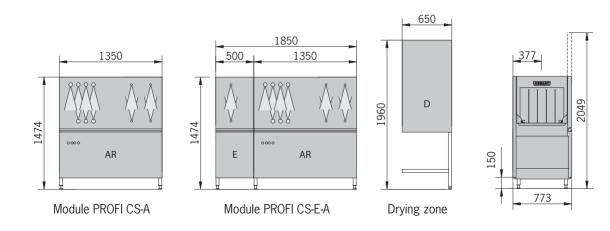


EFFICIENT - RELIABLE - INNOVATIVE

5 | TECHNICAL DATA for CS-CN

	Capacity (racks/h)				Water consumption		Total connected load (kW)			Total length (in mm)
Model	Speed 1 (acc. DIN*)	Speed 2	Speed 3	Rinse system	(l/h)	(I/rack)	Hot water supply (min. 50C)	Cold water supply with heat recovery system	Cold water supply	(without drying zone)
CS-A	80	-	-	Mono	260	3.25	27.20	30.20	36.20	1,350
CS-A	100	150	-	Dual	230	1.53	27.20	30.20	36.20	1,350
CS-E-A	80	120	-	Mono	260	2.17	27.50	30.50	36.50	1,850
CS-E-A	100	150	-	Dual	240	1.60	27.50	30.50	36.50	1,850
CN-A	-	-	220	Mono	342	1.55	27.90	27.90	36.90	1,350
CN-A	100	170	210	Dual	260	1.24	27.90	27.90	36.90	1,350
CN-LA	120	200	250	Dual	260	1.04	29.40	32.40	41.40	2,000
CN-SA	150	240	340	Dual	260	0.76	30.10	33.10	42.10	2,250
CN-SAA	190	250	360	Dual	330	0.92	41.30	44.30	56.30	3,600

^{*} Capacity according DIN10512 for Single Tank Rack Conveyor and DIN10510 for Multi-Tank Rack Conveyor.

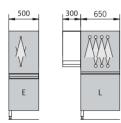


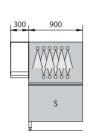


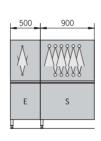
EFFICIENT - RELIABLE - INNOVATIVE

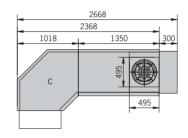
6 | MODULE SELECTION (For CN only)

PRE-WASH ZONE

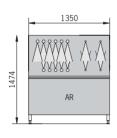


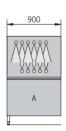


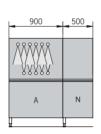




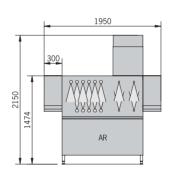
MAIN WASH ZONE



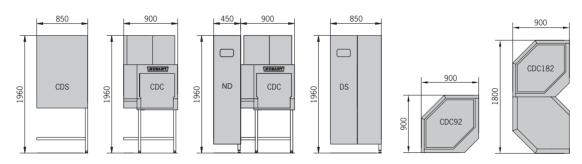




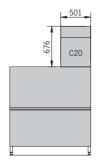


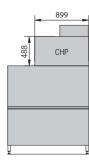


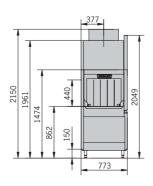
DRYING ZONE

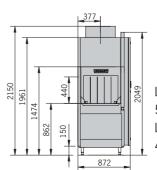


HEAT RECOVERY/HEAT PUMP









Loading width: 510 mm Loading height: 440 mm WAREWASHING RACK-TYPE DISHWASHER



PROFI CS-CN Series

EFFICIENT - RELIABLE - INNOVATIVE











