



WAREWASHING
FLIGHT-TYPE DISHWASHER

PROFI FTN

EFFICIENT – RELIABLE – INNOVATIVE

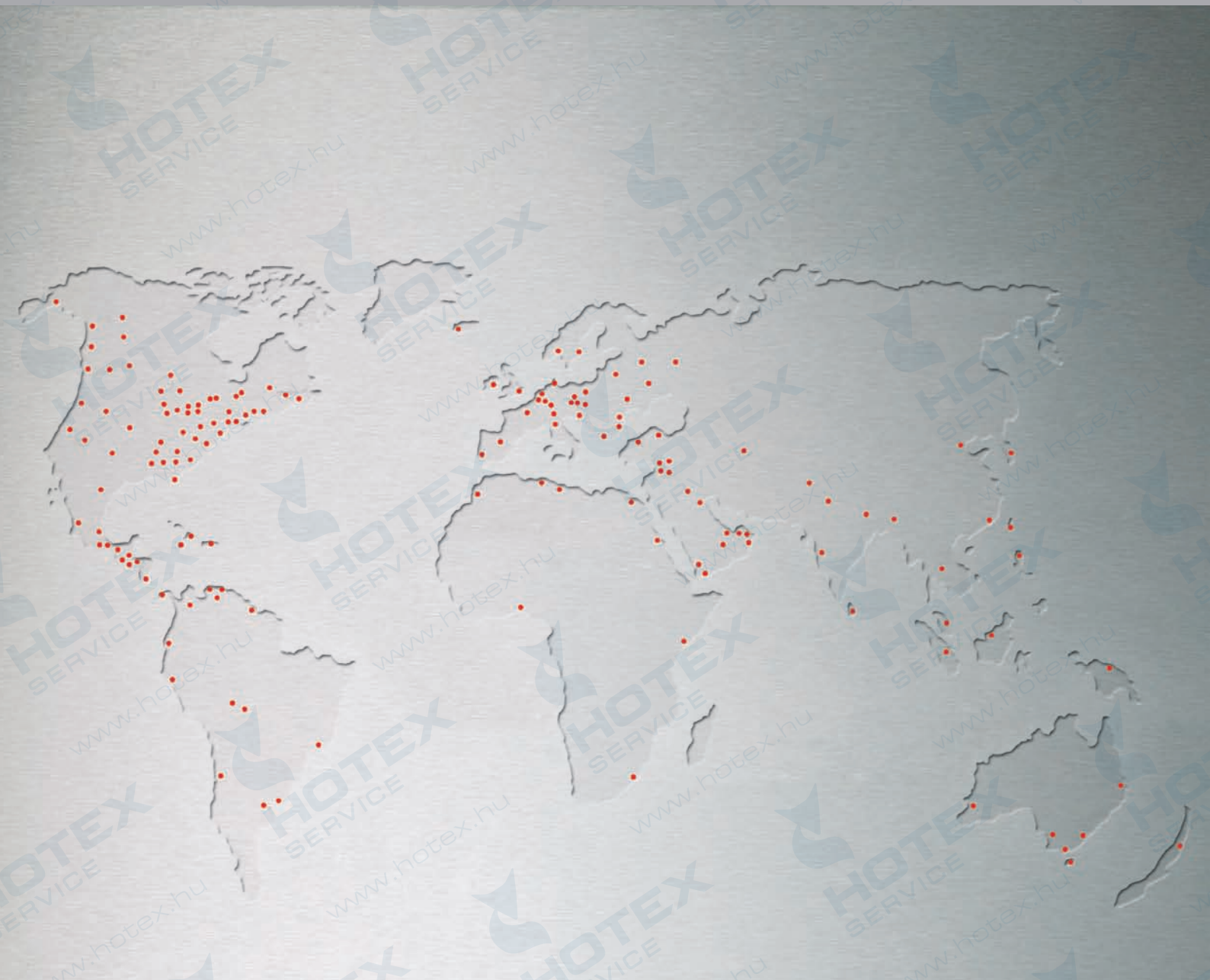


MADE IN GERMANY

„Made in Germany“ has been a synonym for quality and reliability in the segment of high quality for a long time and still is today. A company can only maintain its hold on the market by keeping its promises as to quality and by producing permanently high quality.

WORLDWIDE

Whether you need a completely new kitchen or a replacement item you can buy HOBART equipment at the professional consultancies. It's nice to know we're 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, by 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 emerged in Deerfield, Illinois.

1997 HOBART CORPORATION'S 100th anniversary.

1999 Integration of PREMARK into ITW.

2007 HOBART presents its new dishwasher generation PREMAX.

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HOBART PHILOSOPHY

UNDERSTAND – SIMPLIFY – FOCUS – INNOVATE

This philosophy is the permanent 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 an utopia. At HOBART, efficiency and responsible dealing with 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 innovatory leadership. But even so, HOBART is not satisfied with this. The company will not ease up on its innovation pace, and will look for further possibilities to save even more. The day a first machine will be able to wash without water, we already know, it will be a PREMAX.

HOBART FOCUS

INNOVATION

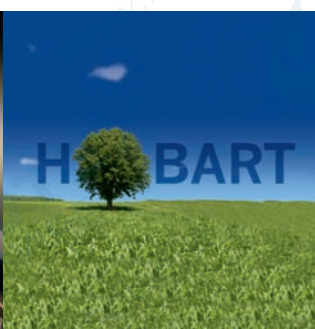
Without the readiness to invest in the future, without the natural reaction of always questioning ourselves, without interdisciplinary basic research and consistent customer orientation, PREMAX would be inconceivable. Worldwide, over 300 research and development engineers and global marketing teams, who identify customer requirements, as well as the company's own Tec-Center with over 1,000 patent applications annually, make innovative technology and make PREMAX possible.

ECOLOGY

The HOBART environmental protection program CO₂NSEQUENT has already been around for a while. 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 to date. 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 "In a hospital it would be a disaster if the dishwasher broke down. That's why I give priority to reliability. HOBART stands for quality and reliability and so it was my prime choice."

3

4

2 "Since we have decided on a HOBART we have more time to meet our guests' wishes."

3 "We have to wash lots of kitchenware in very short periods. The HOBART flight-type dishwasher works at highest performance – every day."

4 "I deliberately decided on a HOBART. I know from my experience that I can always rely on a perfect result. HOBART is and will always be the right choice."

Jeremy Ryan
City Hospital
Cambridge, England

Markus Hesse
Restaurant im Weingut
Schlossberg, Koblenz, Germany

Paolo Cagliostro
La Fenice Catering
Palermo, Italy

Jacques Bourdon
Maison de retraite
Toulouse, France



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EFFICIENT – RELIABLE – INNOVATIVE

1 | ECONOMY

**PATENT
PENDING**

ENERGY-MANAGEMENT EFFICIENT

A conventional flight-type dishwasher loses 40% of the energy already available in the machine via the exhaust system. Here the distribution of water and the air stream have a considerable influence.

The new energy-management EFFICIENT reduces the loss of evaporation. 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-fan. So the circulation performance need is reduced with 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 flight-type dishwasher by up to 25%.

DETERGENT SAVING SYSTEM LOW-CHEM

Detergent is dosed directly into the wash tank. The detergent suds is continuously regenerated by the fresh water from the clear rinse. Detergents are subsequently dosed for the fresh water supply.

The enhanced LOW-CHEM detergent saving system directs 160 litres of fresh water for regeneration of the detergent solution into the wash tank. Via the RADIUS pre-rinse, detergent solution from the items being washed is already rinsed off in advance and returned via diverters into the wash tank.

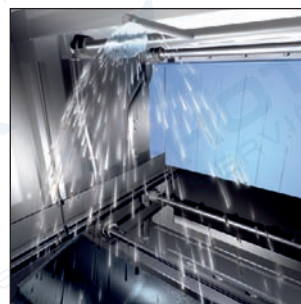
The dosing of detergent depends on the regeneration water volume. So the LOW-CHEM detergent saving system reduces cleaning agent consumption by up to 55% compared with conventional systems.

EFFICIENT – OPTIMAL



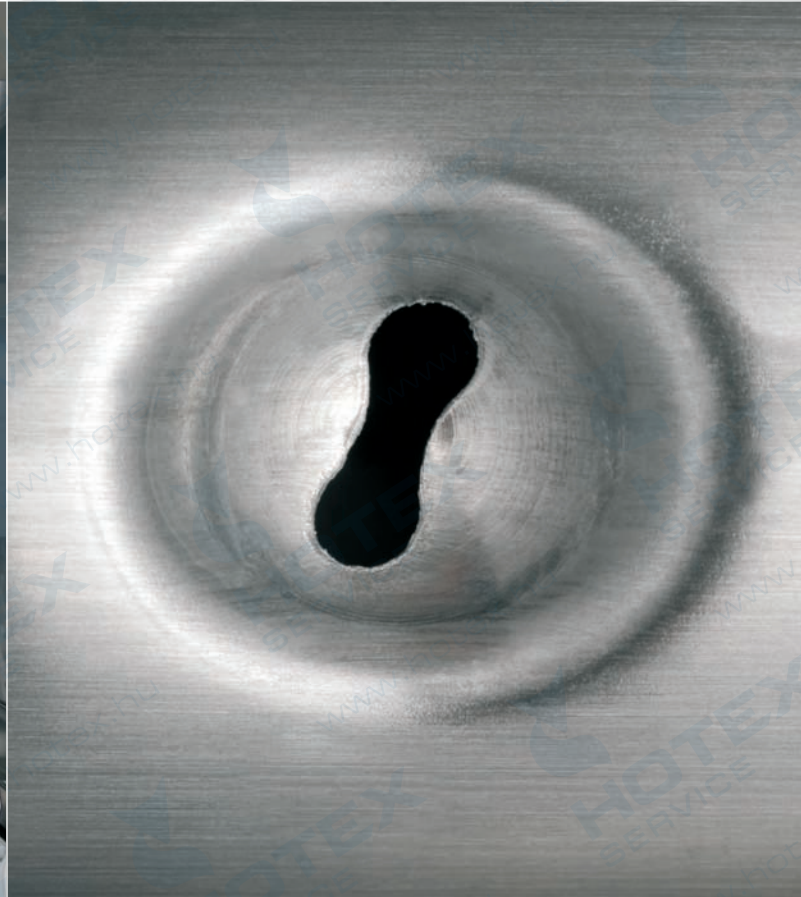
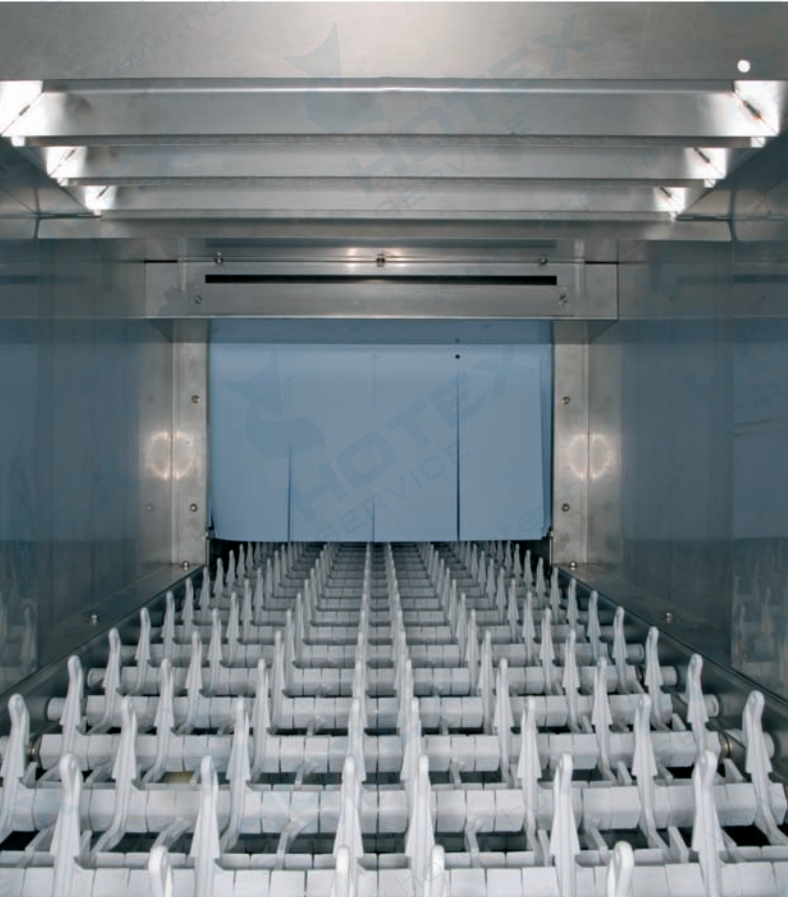
Arrangement of nozzles and wash arms.

EFFICIENT – ECONOMICAL



Up to 55% detergent saving.

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2 | WASH RESULT

**PATENT
PENDING**

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 patent pending 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 so 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 11 wash arms of the CONTACT-PLUS wash system guarantee an optimal wash result.

PATENT

RINSE TRI

The patented triple rinse TRI consist of the RADIUS pre-rinse, pumped rinse and fresh water rinse. The new RADIUS pre-rinse is ranged in front of the pumped rinse. It removes detergent from the ware and directs it via diverters back into the wash tank. The concentration of the cleaning agent in the subsequent pump clear rinsing is minimized.

**PATENT
PENDING**

CONVEYOR BELT FREEFLOW

The position of the wash items in the machine influences whether the suds is directly sprayed on the wash ware. A tray may shield a following plate which is then only moistened with suds via reflex water.

The new FREEFLOW conveyor belt avoids spray shadows.

The water directly impacts every wash item.

The FREEFLOW conveyor belt optimizes cleaning performance when inhomogenous items are loaded.

PERFORMANCE – POWERFUL

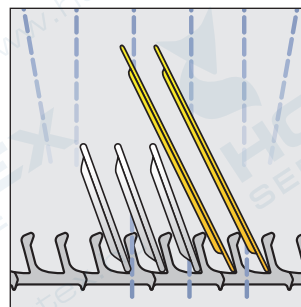


Highest performance due to 6 wash arms above and 5 wash arms below.

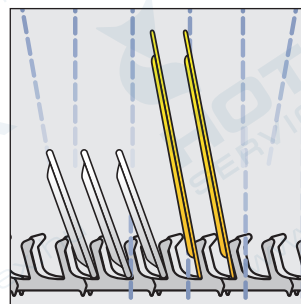


Best wash results due to triple rinse.

DIRECT – DYNAMIC



Spray shadow



Special fingers on the conveyor belt DIRECT enlarge the adjustment angle for the trays.



3 DRYING RESULT

PATENT DRYER GUIDEAIR

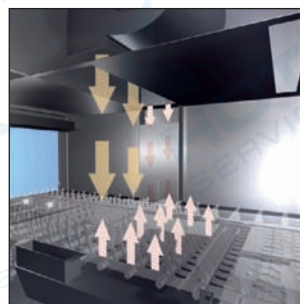
A conventional drying blows the warm air on the wash ware from above. The air reflects uncontrolled from below to above. The patented dryer GUIDEAIR funnels the air via channels and nozzles directly above and below the ware for faster drying.

The dryer GUIDEAIR guarantees perfect drying results for hollow items such as cups, bowls and glasses.

INSIDE – OUTSIDE



Optimal drying results due to wellaimed airflow ...



... also from below.

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4 | RELIABILITY

HANDLING ASSISTANT EASY

featuring

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

PROTRONIC control

Switch on/off – all other functions are automatically assumed by the control.

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.

5 | SUPPORT

CLEANING ASSISTANT SUPPORT

comprising

- Cleaning manager 360DEGREES
- Bayonet catch
- Alligator flap
- Completely moulded tanks
- 1-part strainer
- 150mm floor clearance
- Mono-blockcondenser
- Panorama door

CLEANING MANAGER 360DEGREES

The 360DEGREES nozzles inside on the rear wall of each wash module enhance the cleaning of the machine. With an unrestricted spray pattern – at an angle of 360°C – the fresh water also reaches places with restricted accessibility from outside. The optional 360DEGREES cleaning manager facilitates easier and faster cleaning of the machine.

BAYONET WASH ARM CATCH

The wash arms are easy to open and close.

FOLDABLE INTAKE

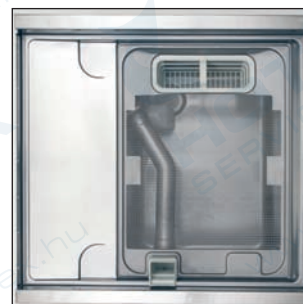
Most of the food waste occurs in the feeding section of the machine. The upward folding entry cover ensures convenient accessibility and easy cleaning. Operators do not have to fumble with removing coverings.

OBVIOUS – SIMPLE



The curtains are marked distinctly.

SIMPLE – CLEAN



The deep drawn tank is made out of one piece without edges and corners.

HOBART



5 SUPPORT

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 systems are easy to remove and to insert 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 INTAKE

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.

CONVENIENT – ACCESSIBLE



Bajonet catch: easy cleaning of wash arms.

PROFI FTN

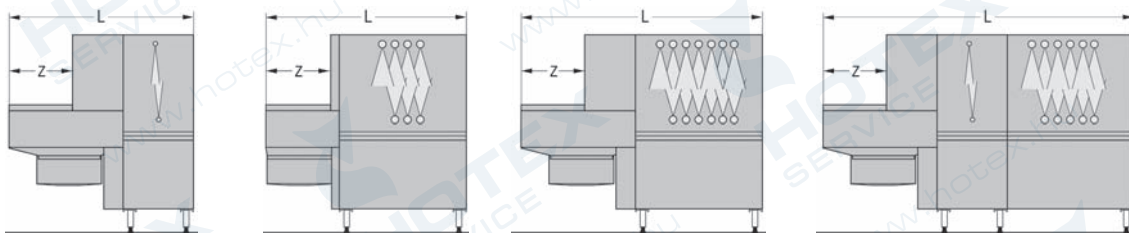
EFFICIENT – RELIABLE – INNOVATIVE

6 TECHNICAL DATA

Plate capacity			water consumption (l/h)	Energy consumption (connected load)			Recommended model selection	Total length (in mm)	Entry section (in mm)	Exit section (in mm)
based on DIN 10510	maximum	Belt speed (m/min)		with C25	with FHP-18	with HP				
2.100	2.500	0,97	290	41,5 (43,9)	n.a.	n.a.	FTN 1-E-A-DL3	4.600	440	800
2.300	2.750	1,05	290	40,3 (42,4)	27,8 (38,7)	29,7 (31,1)	FTN 0L-A-DL3	4.700	440	800
							FTN 0L-A-DL4	5.000	440	1.100
							FTN 1L-A-DL3	5.000	740	800
							FTN 1L-A-DL4	5.300	740	1.100
2.600	3.200	1,18	290	41,0 (43,1)	28,5 (39,4)	21,4 (31,8)	FTN 1-S-A-DL3	5.000	440	800
							FTN 1-S-A-DL4	5.300	440	1.100
							FTN 2-S-A-DL4	5.600	740	1.100
							FTN 2-S-A-DL5	5.900	740	1.400
2.600	3.200	1,18	290	41,0 (43,1)	28,5 (39,4)	21,4 (31,8)	FTN 1-S-A-DS4	5.300	440	800
							FTN 1-S-A-DS5	5.600	440	1.100
							FTN 2-S-A-DS5	5.900	740	1.100
							FTN 2-S-A-DS6	6.200	740	1.400
3.100	3.780	1,42	320	41,2 (43,1)	28,7 (39,4)	21,5 (31,8)	FTN 1-E-S-A-DS5	6.100	440	1.100
							FTN 2-E-S-A-DS5	6.400	740	1.100
							FTN 2-E-S-A-DS6	6.700	740	1.400
							FTN 2-E-S-A-DS7	7.000	740	1.700
3.530	5.150	1,62	360	49,6 (51,3)	n.a. (n.a.)	25,5 (34,7)	FTN 2-S-A-A-DS5	6.800	740	1.100
							FTN 2-S-A-A-DS6	7.100	740	1.400
							FTN 2-S-A-A-DS7	7.400	740	1.700
4.100	5.530	1,88	360	49,6 (51,3)	n.a. (n.a.)	25,5 (34,7)	FTN 2-E-S-A-A-DS5	7.300	740	1.100
							FTN 2-E-S-A-A-DS6	7.600	740	1.400
							FTN 2-E-S-A-A-DS7	7.900	740	1.700
4.600	6.500	2,10	400	58,1 (65,5)	n.a. (n.a.)	30,1 (42,9)	FTN 2-S-A-A-A-DS5	7.700	740	1.100
							FTN 2-S-A-A-A-DS6	8.000	740	1.400
							FTN 2-S-A-A-A-DS7	8.300	740	1.700
5.060	7.130	2,32	400	58,1 (65,5)	n.a. (n.a.)	30,1 (42,9)	FTN 2-E-S-A-A-A-DS5	8.200	740	1.100
							FTN 2-E-S-A-A-A-DS6	8.500	740	1.400
							FTN 2-E-S-A-A-A-DS7	8.800	740	1.700

7 | FTN MODUL SELECTION

Pre-wash zone



Prewash E

	L	Z
0 L	1.300	440
1 L	1.600	740
2 L	1.900	1.040

Prewash L

	L	Z
0 L	1.400	440
1 L	1.700	740
2 L	2.000	1.040

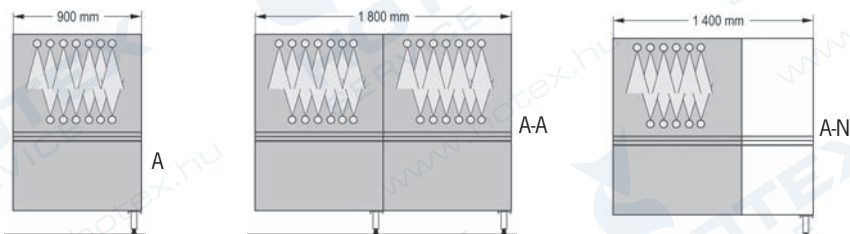
Prewash S

	L	Z
1 S	1.700	440
2 S	2.000	740
3 S	2.300	1.040

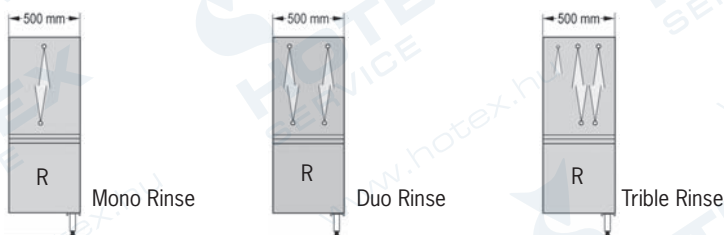
Prewash E-S

	L	Z
1 E-S	2.200	440
2 E-S	2.500	740
3 E-S	2.800	1.040

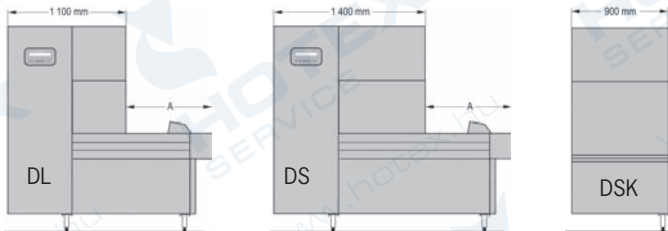
Main wash zone



Rinse zone



Drying zone



FTN-Measures

Loading width: 612 mm and 760 mm

Loading height: 400 mm

	L	A
DL 3	1.900	800
DL 4	2.200	1.100
DL 5	2.500	1.400
DL 6	2.800	1.700

	L	A
DS 4	2.200	800
DS 5	2.500	1.100
DS 6	2.800	1.400
DS 7	3.100	1.700

WAREWASHING
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THE BEST CHOICE

Efficiency, hygienic wash results and reliability are the main factors of a flight-type dishwasher. These factors are essential when a lot of kitchen ware has to be washed in a very short time.

Features such as rinse TRI, wash system CONTACT-PLUS, detergent saving system LOW-CHEM and a reliable robust design guarantee best performance and customer's highest satisfaction.



WAREWASHING

COOKING

FOOD PREPARATION

WASTE TREATMENT

SERVICE

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Member of the *ITW* Food Equipment Group Europe

