

# FORCHEM

INDUSTRIAL CRATES & CONTAINERS WASHERS



solution for

**FOOD AND ENGINEERING  
INDUSTRY**

# FEATURES AND BENEFITS OF ALL OUR DEVICES



## Protecting the environment

These devices meet all the requirements of European VOC Directives and transposed into national legislation.

## Secure

Safety is our highest principle. Where necessary for reasons of regular use front loading of parts manufactured devices such as FRONT-top loader - front loading of parts followed by immersion parts - a safe, establishment of working from the top chamber.



## Flexible

„Custom made to the needs of customer“ – decisive parameter for us is first necessary to our customer, depending on the size and weight of parts, necessary processes, as well as special features in degreasing needs, or movement of the object being cleaned. In the second step, this password is the flexibility of our facilities and adapt them to the chamber conditions of production workshop customer.



## Cost effective

Special facilities are standard for us! Our modular construction of facilities allows us to move up and demanding process technology in cost effective device. Solutions have to be compiled in addition to price nothing to do with standard equipment.



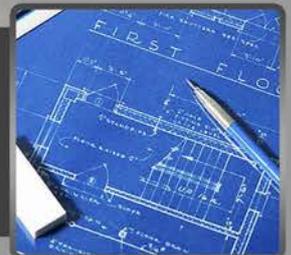
## Reliable

Deployment of proven process technology is based on using only high quality components from leading European manufacturers. This ensures long and reliable operation of our equipment, as well as fast delivery of spare parts.



## Easily serviceable

We give great emphasis, even at conception facilities, easy access to the individual parts and the hole for operation and maintenance. For many years, realize remote modem error analysis and reduce the cost to the repair service.



## Easy to use

Our Touch control panel are multilingual and allow change at any time speech. In conjunction with logical leadership in the program are operator error more or less excluded.



## Custom made working chambers

All are made from a few liters to several hundred liters, according to individual claims. Diversity of technology options and additional equipment that are possible within the working chamber, rotating, swinging at a set angle, vertical or horizontal oscillation, spraying, or spraying high pressure solvent, flooding the chamber with or without ultrasound, reduction items, etc..



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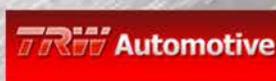
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# FORCHEM REFERENCE

## OUR BUSINESS PARTNERS

The FOREX - SK, s.r.o company for almost 20 years, designs and produces the washers used for cleaning crates, engineering parts, dishes, glasses and cups. During this period of time we achieved the experiences, which rank us among the leaders in the category of cleaning and degreasing crates, blisters, handling plants, trucks, and the others in the food or non - food industry. The production of crate washer with using the modular system allows us adding the basic modules (like pre - rinsing, cleaning, rinsing, drying) and assembling the link which is appropriate not only for the capacity of small producer but also for the huge factory with need to clean thousands pieces per hour without prejudicing the quality. In addition this system is capable of increasing the wattage by expanding the capacity of production (number of washed crates) without the need to replace the whole device.

### Automotive and engineering industry:



### Food industry:



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# FORCHEM MP 100

## CRATE WASHER



- ✓ ratio: prize-power
- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ stable industrial design
- ✓ easy accesibility for cleaning and maintenance
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow

The crate washer FORCHEM MP 100 is the basic model from our crate washers development. It is designed for cleaning the dirty crates used in food and industrial factories.

The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel.

The number of zones, wattage of the washer and the measurements of the cleaning tunnel can be adapted according to the actual needs of the customer. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction.

TECHNICAL DATA	FORCHEM MP 100
Teoretic power (pieces per hour)	100
Width (mm)	700
Lenght (mm)	1770
Height (mm)	1450
Input height (mm)	430
Dossage of cleaning solution (%)	0 - 5
Consumption of rinse water (l/h)	4 - 5
Tank capacity (l)	135
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	16

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# FORCHEM MP 150

## CRATE WASHER



Crate washer FORCHEM MP 150 is designed for cleaning dirty crates used in butcher, baking and the other food factories. The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel. The number of zones, wattage of the washer and the measurements of the cleaning tunnel can be adapted according to the actual needs of the customer. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction. The equipment involves an electric heating and is composed from the main washing module and rinsing module. It is capable of washing the EURO - crates 600x400. The objects are moved on the stainless conveyor belt which speed can be adapted. The pressure in the nozzles is approximately 8 bar for 170 l/min.

- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ saves place, can be placed near wall
- ✓ concentration of chemical solution, water pressure and temperature are adjustable, which helps to achieve the optimal cleaning program and the better crates purity
- ✓ stable industrial design (apron thickness: 1,5mm)
- ✓ easy accesibility for cleaning and maintenance
- ✓ additional safety device for achieving better work safety (directional nozzles)
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow

TECHNICAL DATA	FORCHEM MP 150
Teoretic power (pieces per hour)	150
Width (mm)	700
Lenght (mm)	1770
Height (mm)	1450
Input height (mm)	430
Dossage of cleaning solution (%)	0 - 5
Consumption of rinse water (l/h)	4-5
Tank capacity (l)	135 l
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	16

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# FORCHEM MP 150 S

## CRATE WASHER WITH DRYING MODULE



Crate washer FORCHEM MP 150 S with blower module is designed for cleaning dirty crates used in butcher, baking and the other food factories. The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel. The number of zones, wattage of the washer and the measurements of the cleaning tunnel can be adapted according to the actual needs of the customer. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction. The equipment involves an electric heating and is composed from the main washing module and rinsing module. It is capable of washing the EURO - crates 600x400. Occasionally it is possible to change downforce of washed objects and by using this system clean the different sized objects. The washing speed is adjustable.

- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ easy accesibility for cleaning and maintenance
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow
- ✓ efficient fan for drying

✓ **The possibility of extending a conveyor**



TECHNICAL DATA	FORCHEM MP 150 S
Teoretic power (pieces per hour)	150
Width (mm)	700
Lenght (mm)	2340
Height (mm)	1800
Input height (mm)	430
Dossage of cleaning solution (%)	0-5
Consumption of rinse water (l/h)	4 - 5
Tank capacity (l)	135
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	21

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# FORCHEM MP 150 2S

## CRATE WASHER WITH DRYING AND BLOWING MODULES



Crate washer FORCHEM MP 150 S with drying and blowing module is designed for cleaning dirty crates used in butcher, baking and the other food factories. The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel. The number of zones, wattage of the washer and the measurements of the cleaning tunnel can be adapted according to the actual needs of the customer. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction. The equipment involves an electric heating and is composed from the main washing module and rinsing module. It is capable of washing the EURO - crates 600x400. Occasionally it is possible to change downforce of washed objects and by using this system clean the different sized objects. The washing speed is adjustable.

- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ easy accesibility for cleaning and maintenance
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow
- ✓ efficient fan for drying

✓ **The possibility of extending a conveyor**



TECHNICAL DATA	FORCHEM MP 150 S
Teoretic power (pieces per hour)	150
Width (mm)	770
Lenght (mm)	5310
Height (mm)	1800
Input height (mm)	430
Dossage of cleaning solution (%)	0-5
Consumption of rinse water (l/h)	4 - 5
Tank capacity (l)	135
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	37

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# FORCHEM MP 350 L

## LASKA AND HANDLING TROLLEYS WASHER



- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ easy establishment and removing the washed objects
- ✓ stabile industrial design and easy cleaning and maintenance

Crate washer FORCHEM MP 350 L is designed for cleaning dirty handling carts and laska carts used in the food industry. The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel. Adapting all factors which influence the cleaning process (especially the pressure, time, the quantity of cleaning agent and the temperature) can FORCHEM MP have always excellent performance. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction. With many new innovations it satisfy the highest customer requests and ranks the new quality standard. Its another benefit is easy accesible service.

TECHNICAL DATA	FORCHEM MP 350 L
Teoretic power (pieces per hour)	10 - 15
Width (mm)	1600
Lenght (mm)	1600
Height (mm)	2000
Input height (mm)	x
Dossage of cleaning solution (%)	4 - 6
Consumption of rinse water (l/h)	10
Tank capacity (l)	150
Voltage (V)	415
Tank temperature (°C)	45
Wattage (kW)	16

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# FORCHEM MP 450

## SHIPPING AND HANDLING BOXES WASHER



- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ stable industrial design and easy cleaning and maintenance
- ✓ regulation of water flow
- ✓ cleaning and drying system

Box washer FORCHEM MP 450 is designed for cleaning huge sizes dirty haulage box used in food and engineering factories. Its real wattage is based on efficient washing system in combination with high - tech hydraulic pump and a lot of nozzles which are situated in the cleaning place and in the cleaning arm where is located drying system, too. Through the concentrated power can washer achieve the hygienically clean results despite the high pollution. The whole washer is made from the stainless steel. The washer wattage and the capacity of cleaning place can be adapted to the customer request, because every factory has its individual demands.



TECHNICAL DATA	FORCHEM MP 450
Teoretic power (pieces per hour)	7 - 10
Width (mm)	1600
Lenght (mm)	3500
Height (mm)	2200
Input height (mm)	1800
Dossage of cleaning solution (%)	6 - 8,5
Consumption of rinse water (l/h)	20
Tank capacity (l)	150
Voltage (V)	415
Tank temperature (°C)	45
Wattage (kW)	20,1

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# FORCHEM MP 150 2S

## CRATE WASHER WITH DRYING AND BLOWING MODULES AND WITH CONVEYOR



Crate washer FORCHEM MP 150 S with drying and blowing module is designed for cleaning dirty crates used in butcher, baking and the other food factories. The guarantee of the cleaning quality are the high - tech hydraulic pump and a lot of nozzles situated in the cleaning tunnel. The whole crate washer is made from stainless steel. The number of zones, wattage of the washer and the measurements of the cleaning tunnel can be adapted according to the actual needs of the customer. Easy service, not difficult maintenance and the long durability of our equipments are for us the important point of the customer satisfaction. The equipment involves an electric heating and is composed from the main washing module and rinsing module. It is capable of washing the EURO - crates 600x400. Occasionally it is possible to change downforce of washed objects and by using this system clean the different sized objects. The washing speed is adjustable.

- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ easy accesibility for cleaning and maintenance
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow
- ✓ efficient fan for drying

✓ **The possibility of extending a conveyor**



TECHNICAL DATA	FORCHEM MP 150 S
Teoretic power (pieces per hour)	150
Width (mm)	700
Lenght (mm)	2340
Height (mm)	1800
Input height (mm)	430
Dossage of cleaning solution (%)	0-5
Consumption of rinse water (l/h)	4 - 5
Tank capacity (l)	135
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	21

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# FORCHEM MP 150 2S

## CRATE WASHER WITH DRYING AND BLOWING MODULES AND WITH CONVEYOR



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- ✓ made from stainless steel
- ✓ stainless nozzle system
- ✓ the module composition which can be extended
- ✓ easy accesibility for cleaning and maintenance
- ✓ adjustable height for cleaning different types of EURO crates
- ✓ regulation of water flow
- ✓ efficient fan for drying

✓ **The possibility of extending a conveyor**



TECHNICAL DATA	FORCHEM MP 150 S
Teoretic power (pieces per hour)	150
Width (mm)	700
Lenght (mm)	2340
Height (mm)	1800
Input height (mm)	430
Dossage of cleaning solution (%)	0-5
Consumption of rinse water (l/h)	4 - 5
Tank capacity (l)	135
Voltage (V)	415
Tank temperature (°C)	20 - 60
Wattage (kW)	21

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# FORCHEM SM 150

## PRODUCTS DRYER

Products dryer FORCHEM SM 150 is intended for use in the pharmaceutical, food and chemical industries for drying products. Products are dried using sophisticated drying system with rotary turbo head and thanks to the adjustable temperature and air blowing is guaranteed perfect drying. In this dryer the warm air circulates so we could reduce power consumption by 30-40% compared to other devices. Direct heating of the drying process, which is environmentally friendly. The wet product is fed into the dryer, which is heated to the desired temperature quickly. Drying consists the blowing of hot air and evaporating the remaining water moisture from the product. The product temperature is minimal, which ensures high quality product and maintain its original characteristics. Management is ensured by automatic control (PLC), which is designed for more complex machinery, equipment and production lines, where it is necessary to record the temperature, temperature sensing, signaling limit parameters, taking multiple values, automatic dosing, level controlling, time setting, monitoring, etc. With touchscreen control it's possible copy the desired data to PC or connect the device to ethernet.



- ✓ finish stainless steel
- ✓ stainless steel drying system
- ✓ modular composition which is expandable at any time
- ✓ stable industrial design
- ✓ Easy accessibility for cleaning and maintenance
- ✓ special adjustable height for drying more types of products
- ✓ speed regulation system feed
- ✓ two powerful fans for drying
- ✓ the possibility of extending a conveyor belt



TECHNICAL DATA	FORCHEM SM 150
Teoretic power (pieces per hour)	150
Width (mm)	770
Lenght (mm)	2340
Height (mm)	1800
Input height (mm)	430
Dossage of cleaning solution (%)	---
Consumption of rinse water (l/h)	---
Tank capacity (l)	---
Voltage (V)	415
Tank temperature (°C)	0 - 80
Wattage (kW)	21

# FORCHEM



**MP 100**



**MP 150**



**MP 150 S**

TECHNICAL DATA	FORCHEM MP 100	FORCHEM MP 150	FORCHEM MP 150 S
Teoretic power (pieces per hour)	100	150	150
Width (mm)	700	700	700
Lenght (mm)	1170	1170	2340
Height (mm)	1800	1800	1800
Input height (mm)	430	430	430
Dossage of cleaning solution (%)	0 - 5	0 - 5	0-5
Consumption of rinse water (l/h)	4 - 5	4-5	4 - 5
Tank capacity (l)	135	135	135
Voltage (V)	415	415	415
Tank temperature (°C)	20 - 60	20 - 60	20 - 60
Wattage (kW)	16	16	21

**YOUR SUPPLIER:**

