

# Working principle Vertical Pallet Washer



WASHING & DRYING  
SYSTEMS



## Tunnel design

The Cretel Vertical Pallet Washer is specially designed for the cleaning of pallets and flat plates. It can be considered as a reliable and proven system thanks to its proven concept with a high standard on hygienic design, water, chemicals and energy consumption. The Cretel Rack Washer is fully designed according the applicable European CE regulations.



## Washing

The vertical pallet washer consists in general of 2 sections, a washing section. Depending on the nominal capacity and the nature of the pollution of the articles to be cleaned, the washing section can be equipped with multiple washing zones, e.g. pre-wash zone and main washing zone(s).

The washing zones consist of a spraying system, a circulation pump and a water tank. This way, the water in the tank is constantly being re-circulated through the filters of the washing zone.

Two principles of spraying systems are available :

Flat spray nozzles which can be detached rapidly. The spray pattern is specifically directed according the application.

Rotating washing arms result in more washing power due to lesser, rotating spraying nozzles. They enables easier maintenance with no risk for clogged nozzles due to soiled washing water.



## Rinsing

Between the washing and rinsing section we have created the necessary distance in order to avoid the mixing of the dirty washing water with the clean rinse water. This is very important to guarantee the removal of all chemicals on the articles.

The rinsing zone is equipped with spray tubes fed directly by the hot water network. The rinse water runs into the water tank of the washing zone which allows maximum recovery of water and energy.



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## Hygienic concept

The installation has a full hygienic and open construction without hidden places in corners or double folds to avoid unattainable zones and accumulation of dirt. This is a result of many years experience and focus on hygienic design.



## The transport system

A transport system provides the transporting of articles to be cleaned through the installation. It consists of the necessary side guides, and a transport chain or a conveyor belt. Standard machines are equipped with fixed side guides.

The transport speed is adjustable, so the contact time of the articles in the tunnel can be extended or shortened. However, the degree of pollution should be taken into account. Excessive increase in speed will decrease the washing results.

## The heating system

The heating system of the pre-washing and washing section is standard based on electric resistance or direct steam injection. Optionally other heating systems are available on request e.g. via hot water or steam heat exchanger, burner unit, etc.

## Chemical

The washing installation can be equipped with chemical cleaning and disinfection by means of an automatic dosing system in the washing zones. Disinfection is also possible by injecting chemicals into the rinsing water.

## Low water and energy consumption

The total water consumption of the washing machine depends on the application and the type of installation, ranging from an average of 0.5 L to 1 L per article.

Via a sophisticated control system we are able to minimize the water and energy consumption.

## Electrical control

Splash-free electrical cabinet equipped with a PLC and other necessary control elements. All tagging on the cabinet is in the language of the user to ensure the communication between the installation and the operator.

## Filtering

The Cretel vertical pallet washer is standard equipped with two filter tubes on the suction side of the pumps which is manually removable for cleaning purposes.

