

Tunnel washer



WASHING & DRYING
SYSTEMS



Modular Line

A Cretel industrial tunnel washer can be considered as a reliable and proven system thanks to its modular concept with a high standard on hygienic design, water, chemicals and energy consumption. The Cretel tunnel washer is fully designed according to the applicable European CE regulations.



Washing

The tunnel washer consists in general of 2 sections, a washing section and a rinsing 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, neutral zone, main washing zones and label removing.

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 easily. The spray pattern is specifically directed according to the application.

Rotating washing arms result in more washing power due to lesser, rotating spraying nozzles. They enable easier maintenance with no risk for clogged nozzles due to soiled washing water. This spraying system is limited to 400 - 450 mm width.

Optionally, a washing zone can be equipped with a label removing system @ 30 bar g.

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.



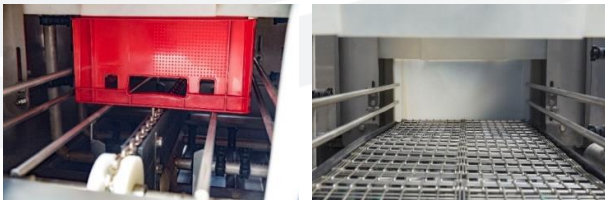
A.T.S. nv - Langerbruggekaai 15 - B-9000 Gent
T +32 (0)9 376 95 95 | F +32 (0)9 376 95 96
info@cretel.com | www.cretel.com

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, a hold down system and a transport chain or a conveyor belt. Standard machines are equipped with fixed side guides and a swinging hold down system.



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 an automatic chemical cleaning and disinfection dosing system. If permitted by local authorities, disinfection is also possible by injecting appropriate 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 tunnel washer is standard equipped with a static filter which is manually removable for cleaning purposes. The design is made to create a maximum filtering capacity even in case of intensive soiling.



Optionally the tunnel washer can be equipped with a rotating filter (Auger or Slit system) in case of extremely intensive soiling.