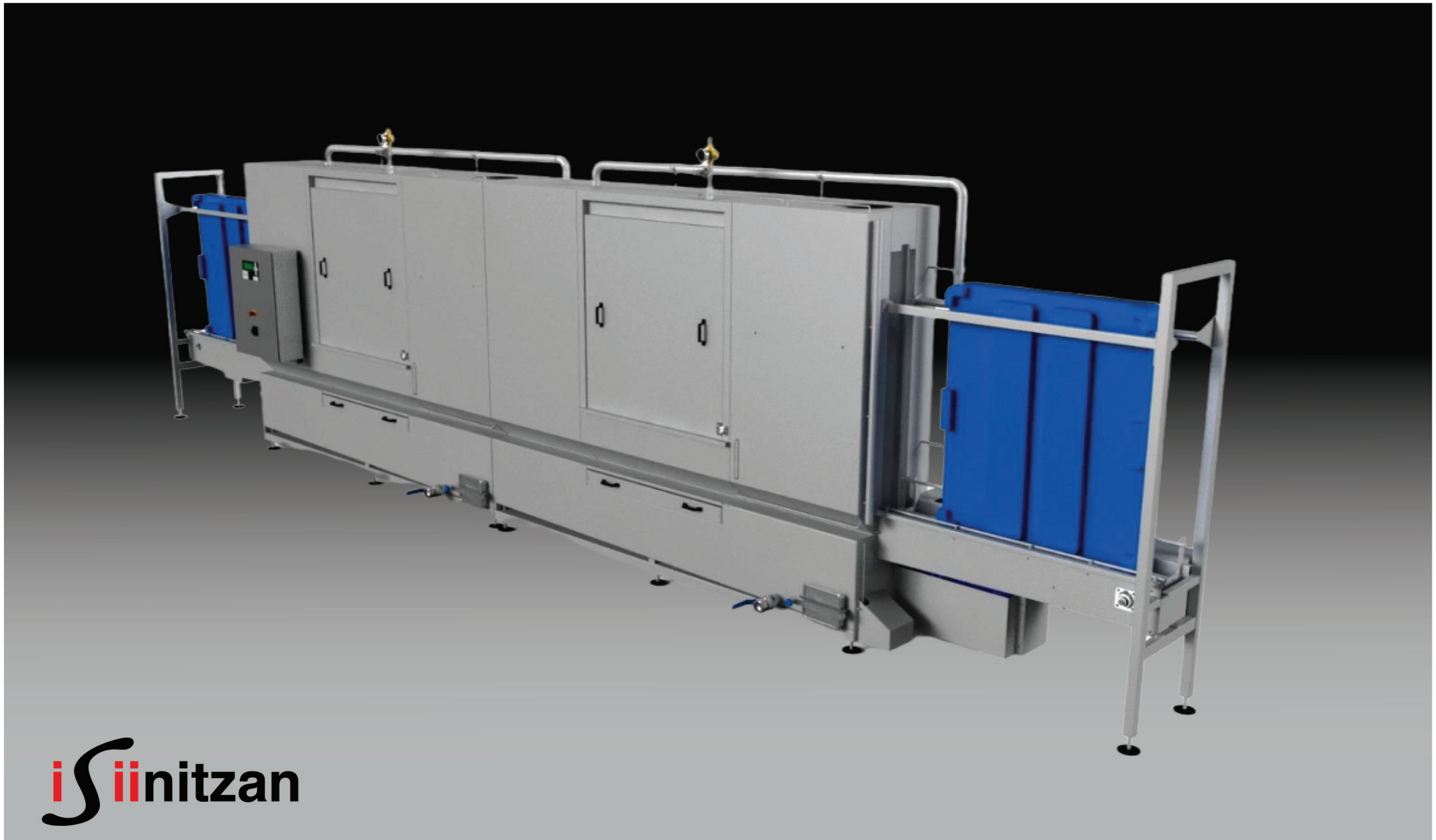


## Pallet washer (EPW-90)



The entire system is constructed out of solid plates and profiles (stainless steel 304) and is placed on adjustable feet. The wash tunnel is accessible by means of removable hatches.

Technical Data	
Capacity	Capacity of 170 H1 pallets per hour.
Dimensions of the pallets:	1200 x 800 x min/max 120/160 mm (l <sub>w</sub> xh) transport time 132 seconds.
	1200 x 1000 x min/max 120/160 mm (l <sub>w</sub> xh) transport time 105 seconds.
Type	EPW-90
Power	440V; 3 PH + earth + 0; 60 Hz
Safety	3x 32A – C-characteristic
Transport chain	Synthetic
Chain guiding	Stainless steel
Drive	Frequency controlled; 0,18 kW
IP-rating switch box	IP65 / IP55 (depending on options)
Input lane	Length: 3000 mm
	Height: 723 mm
Output lane	Length: 3000 mm
	Height: 723 mm

## Pallet washer (EPW-90)

Pallets are put on the input table. Transport of the pallets is conducted by a plastic transport chain; the pallets are transported on the short side.



The spraying bars are provided with a large number of nozzles and will guarantee an optimum cleaning result. Guiding keeps the pallets in the right position while being cleaned.

Sensors on the hatches will stop the installation immediately if a hatch is opened while the washer is running. A Siemens LOGO, installed in the stainless steel switch board, controls the pallet washer.



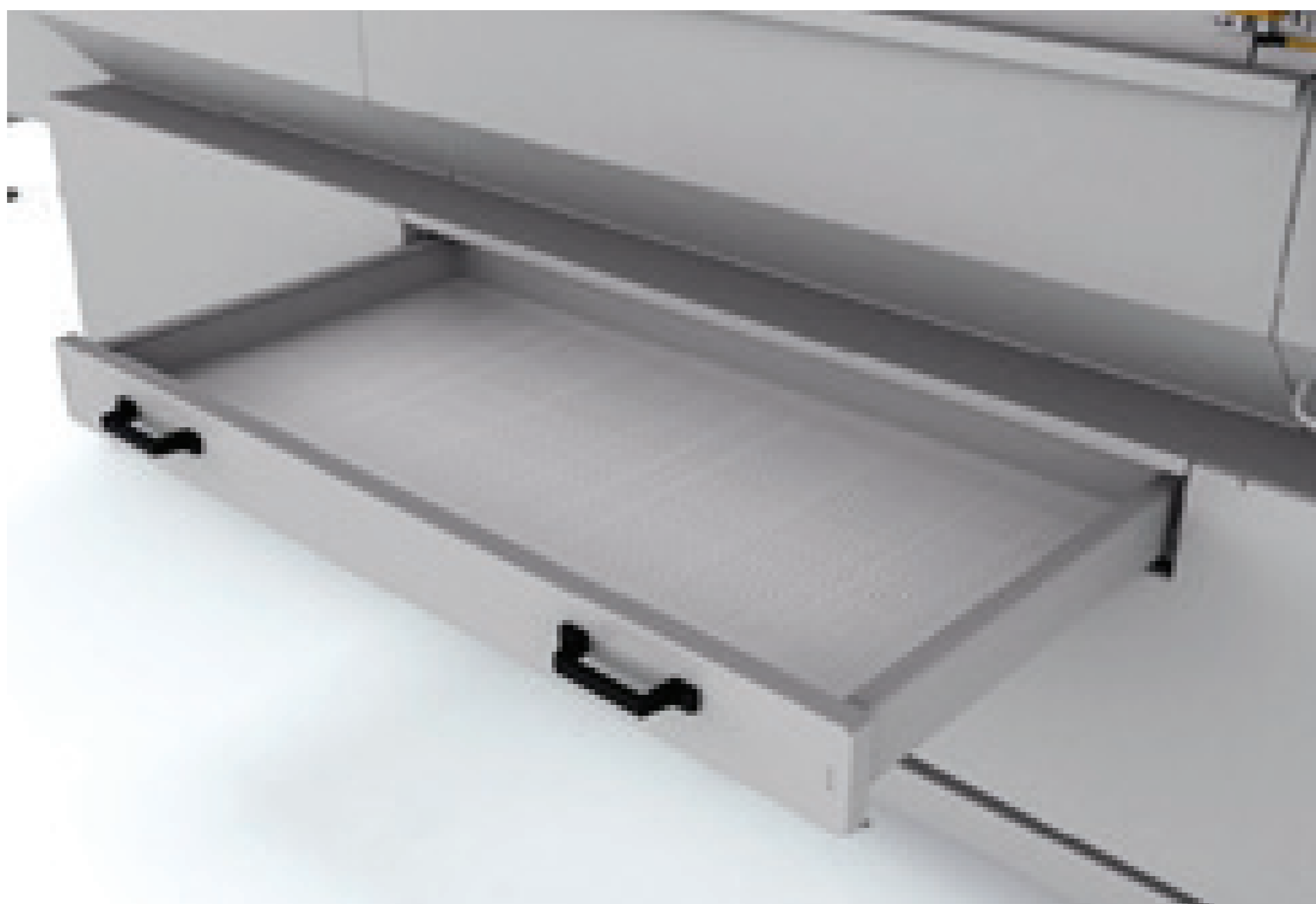
## Prewash zone

In the prewash zone the pallets are rinsed and the raw dirt is removed. The spraying pattern of the nozzles is configured to reach maximum cleaning results. They are supplied with water by a powerful and energy efficient pump.

Before the rinsing water runs back into the tank to be re-used, a stationary wedge wire filter tray ensures it is thoroughly filtered. This filter tray can be taken out. After removing the filter tray the large tank is easily accessible.

The prewash tank is filled with a filling connection that is provided with a level control. This level control switches off the water supply as soon as the operational level has been reached. An overflow prevents the water level from becoming too high.

For easy emptying of the water tank a ball valve is mounted, enabling the system to be emptied within a short amount of time. The tank is constructed with a slanting bottom, enabling a quick flow of water towards the drain when emptied. For a quick cleaning of the water tank a large manhole is installed.



Prewash zone	
Length	2,9 meters
Tank	280 litres
Pumps	1; power: 5,5 kW*
Capacity	48 m <sup>3</sup> /hr, 2,8 bar
Nozzles	Stainless steel
Filter	Removable filter tray
Manhole	230x180 mm
Filling connection	3/4"
Overflow	3"
Drain	2"

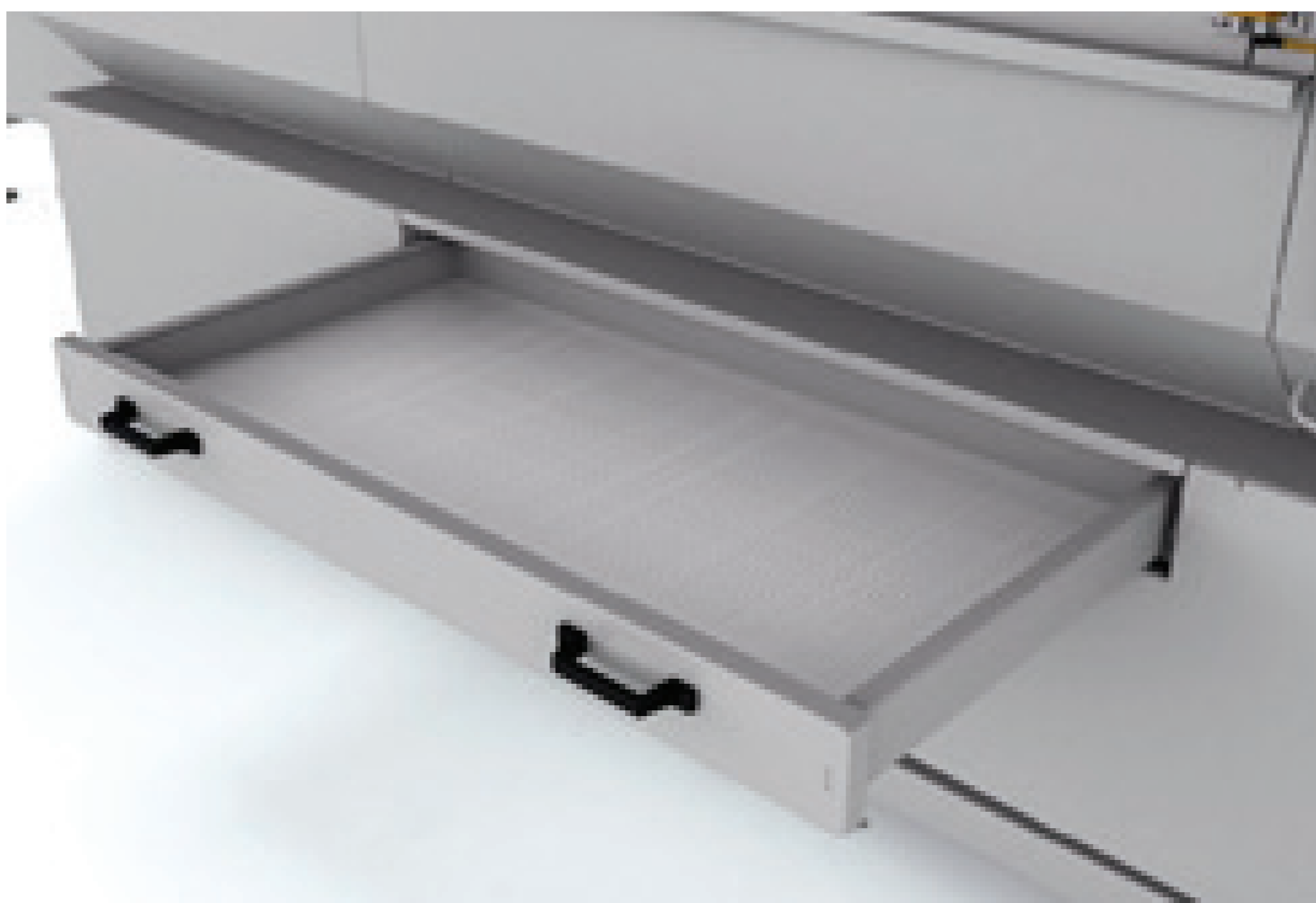
## Main wash zone

In the main wash zone, the pallets are cleaned and the dirt is removed. The spraying pattern of the nozzles is configured to reach maximum cleaning results. They are supplied with water by a powerful and energy efficient pump.

Before the cleaning water runs back into the tank to be re-used, a V-shaped perforated filter tray ensures it is thoroughly filtered. This filter tray can be taken out. After removing the filter tray the large tank is easily accessible.

The main wash tank is filled with a filling connection that is provided with a level control. This level control switches off the water supply as soon as the operational level has been reached. An overflow prevents the water level from becoming too high.

For easy emptying of the water tank a ball valve is mounted, enabling the system to be emptied within a short amount of time. The tank is constructed with a slanting bottom, enabling a quick flow of water towards the drain when emptied. For a quick cleaning of the water tank a large manhole is installed.



Main wash zone	
Length	2,9 meters
Tank	280 litres
Pumps	1; power: 5,5 kW*
Capacity	48 m3/hr, 2,8 bar
Nozzles	Stainless steel
Filter	Removable filter tray
Manhole	230x180 mm
Filling connection	3/4"
Overflow	3"
Drain	2"

## After rinse zone

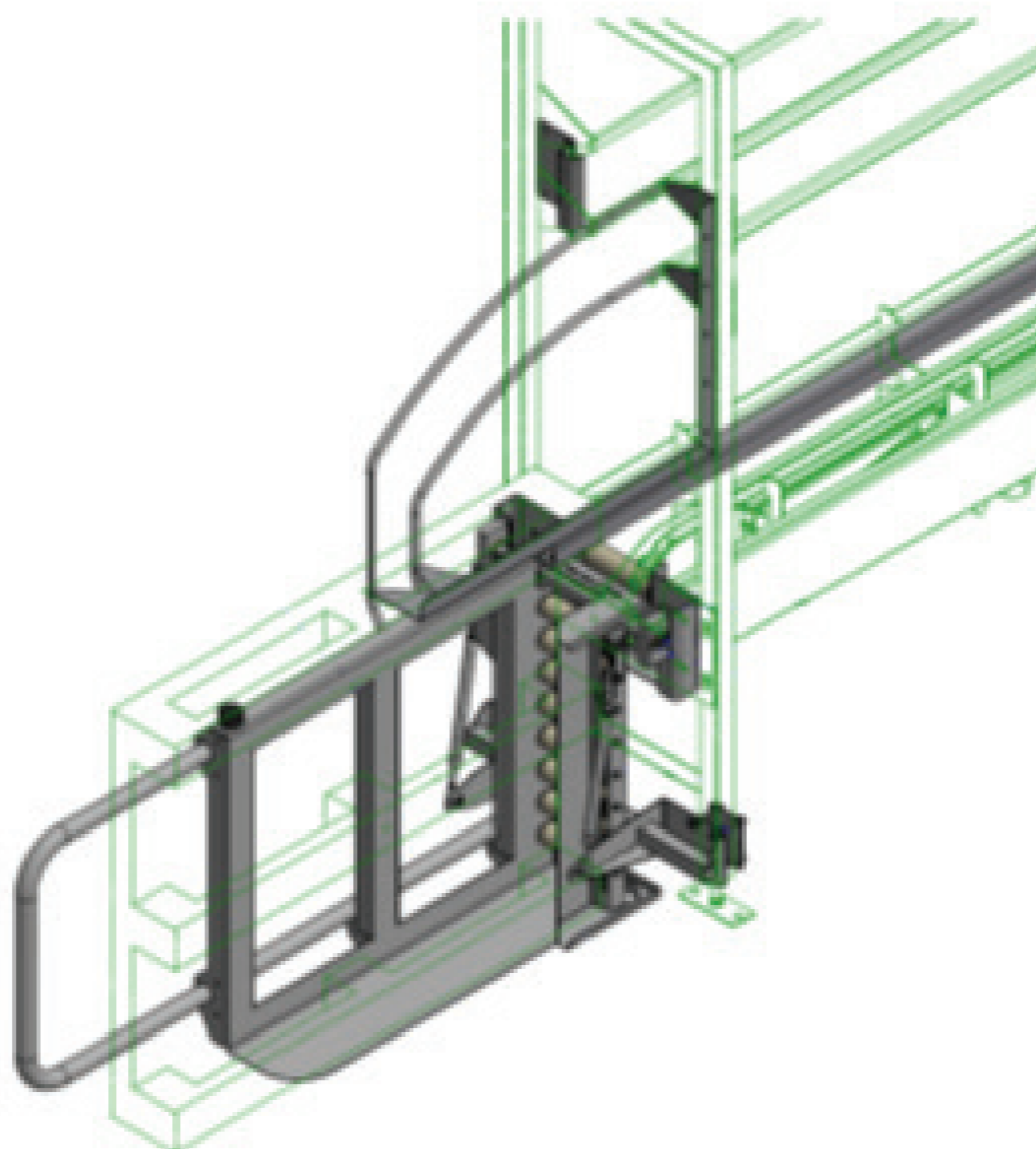
In the after rinse zone the pallets are rinsed with fresh water. Any residual detergent will be removed. To achieve this, the rinsing bow is directly connected to the fresh water supply.

## Safety

- Sensors on safety fences.
- Emergency stop at switchboard and fence.
- Water level switches in water tanks to avoid running dry of the pumps.
- Torque protection on the drive of the lifting door. If drive is blocked, it stops automatically.
- Protection hood on all rotating parts.
- Temperature safety
- \* Pump equipped with SiC/SiC seal: higher closing resistance, better chemical resistance (SiC = Silicon - Carbon)

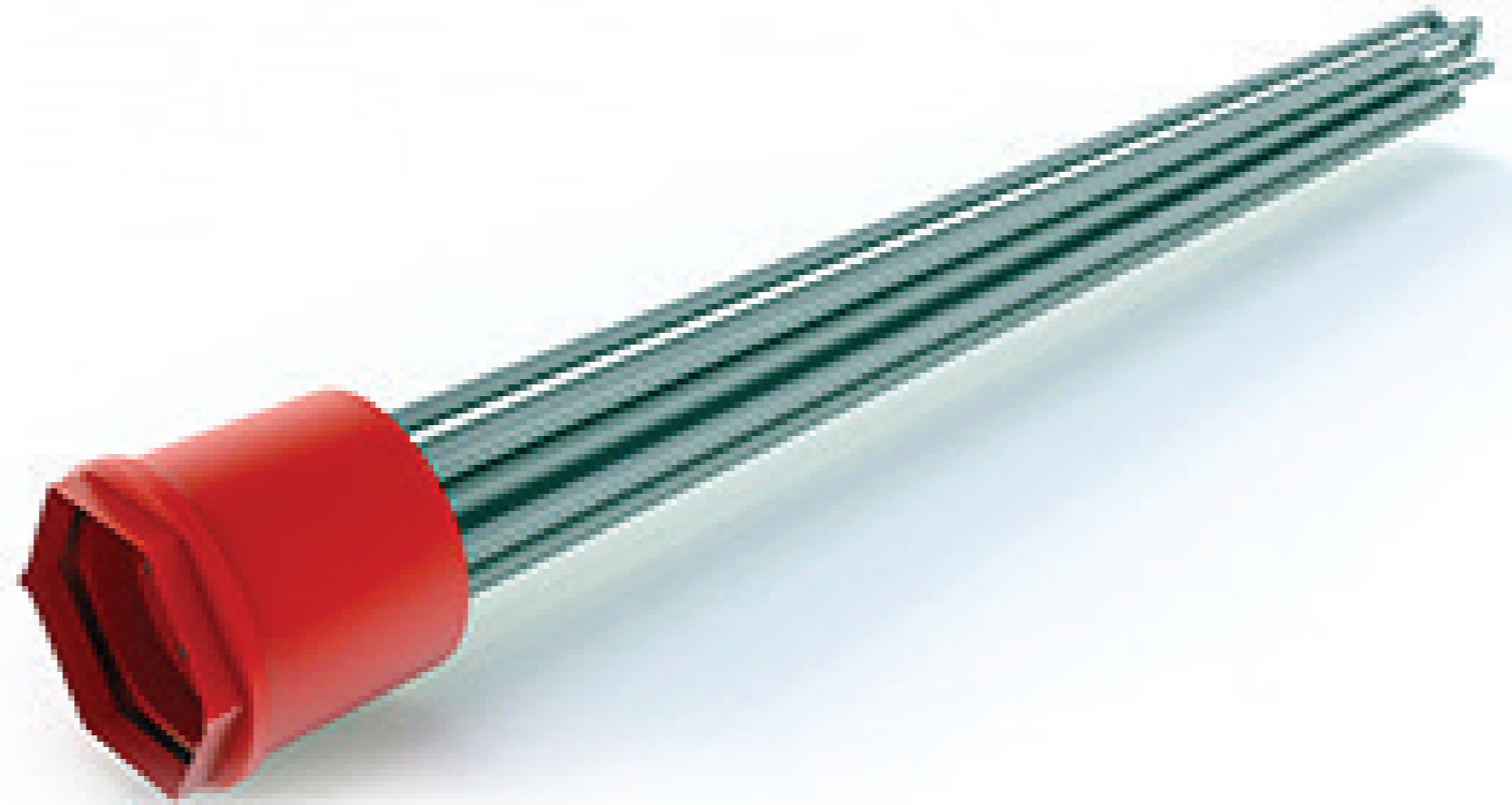
## Loading support for pallet washer

With a loading-support pallets will be fed onto the infeed conveyor of the EPW. Pallets are placed vertically into the loading-support. By means of a handle (supported with gas springs) the loading-support can be lifted to raise the pallet to the infeed height of the conveyor-belt. Once levelled at the same height the pallet can be pushed onto the conveyor belt, on the front side of the infeed conveyor. The outbound direction works in the opposite way.



## Heating by electric element

To heat up the water an electric body of 30 kW is installed. A PT-100 sensor controls the temperature and switches the element on or off.



## Dosing pump for detergent

To optimize the cleaning result a detergent is dosed into the main wash zone. The dosage is adjustable.



## Dosing pump for rinse aid

To optimize the cleaning result a rinse aid is dosed into the after rinse zone. The dosage is adjustable.



## Frequency controller

By means of frequency control it is possible to change the washing time. A shorter washing time means a higher capacity.



## Vapour extraction

On the roof of the installation a stainless steel ventilator for vapour extraction is possible. The capacity of this ventilator is 1600m<sup>3</sup>/hr at 150Pa. The power of the drive is 0,37 kW. Connection to the exhaust channel is Ø 315 mm.

