

CONTAINER MASTER

Cleaning machine for large-size products such as LLC



Key Facts

- ✓ **Powerful cleaning machine:** Efficient, dry and non-contact cleaning of pallets, LLC and containers
- ✓ **With the original TAIFUN-CLEAN® technology** made in Germany
- ✓ **Advanced container management:** An innovative solution for efficient container cleaning
- ✓ **Easy integration:** Seamless integration into your material logistic system – no need to interrupt the utilisation or wash the containers

Product Description

Companies are facing an ever-growing challenge in modern container management systems: How can the cleanliness of plastic pallets and small and large load carriers be ensured without jeopardizing efficiency and the economic viability of the logistics chain? Dust, dirt particles and residues that accumulate during transport or storage can affect the quality of transported products and interfere with the production process.

Conventional cleaning methods can quickly reach their limits in this scenario. This could be caused by high time demands, significant costs or inadequate results. It becomes clear that innovative solutions are needed to remove impurities effectively and sustainably, especially with increasing demands on the cleanliness of components and packaging.

KIST + ESCHERICH's CONTAINER MASTER platform offers a pioneering solution to this problem. This highly efficient cleaning technology cleans large-size products without contact. This is done quickly, efficiently and directly on site. Highly turbulent, rotating compressed air nozzles remove even the most stubborn dirt, while an integrated and focused suction system captures the particles. Electrostatic discharge applications break down binding forces and also effectively prevent any re-adhesion of dust particles.

This dry cleaning process is particularly gentle on surfaces, as it does not require chemicals, high temperatures or complex drying processes. This not only reduces stress on your pallets, but also on large load carriers, containers and boxes, extending their service life significantly.

The result is perfectly cleaned containers that will meet even the highest cleanliness standards. Optimise your container management system and make cleanliness an integral part of your process safety.



Technical Features

- An automatic cleaning machine that combines a powerful conveyor system with modern cleaning technology to ensure smooth processes
- Flexible filter and suction combination in a supply tower that can be positioned externally
- Machine shutter for operator safety and noise reduction
- Connection to higher-level controls for seamless integration into existing systems
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Custom variants are available upon request



Dry cleaning:
For maximum surface protection.



Environmentally friendly cleaning technology:
Avoidance of chemical cleaning agents and minimal use of resources.



Customisable cleaning:
Adjustable time and intensity for varying requirements.

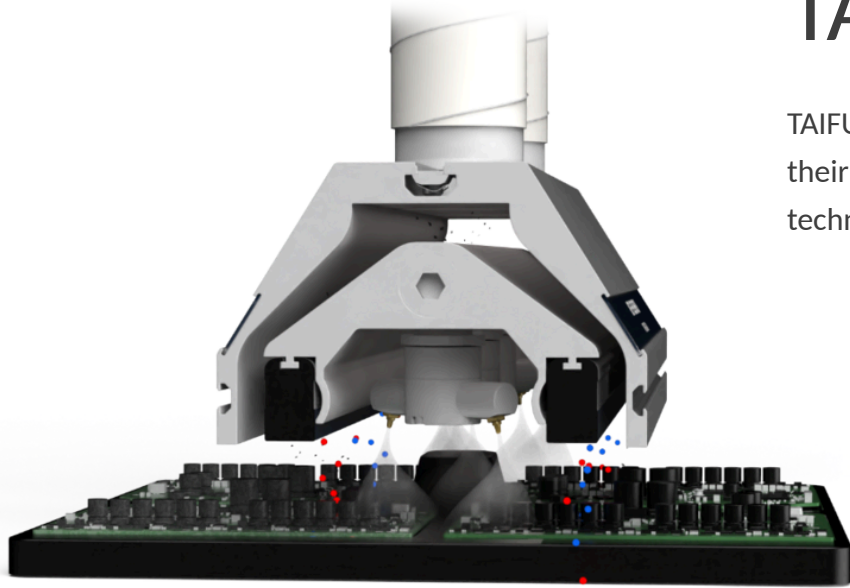


Ideal as a material airlock:
For cleanrooms and controlled environments.

TECHNOLOGY

TAIFUN-CLEAN®

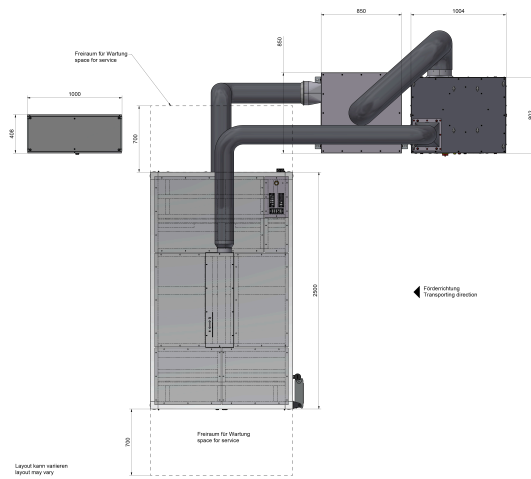
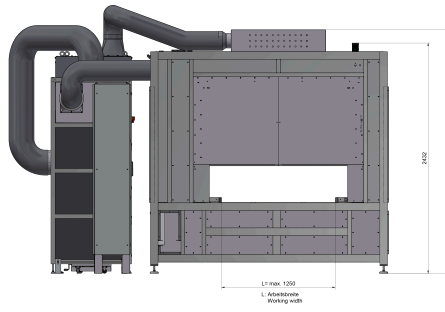
TAIFUN-CLEAN® begins where others have reached their limits. Would you like to learn more about the technology behind our product?



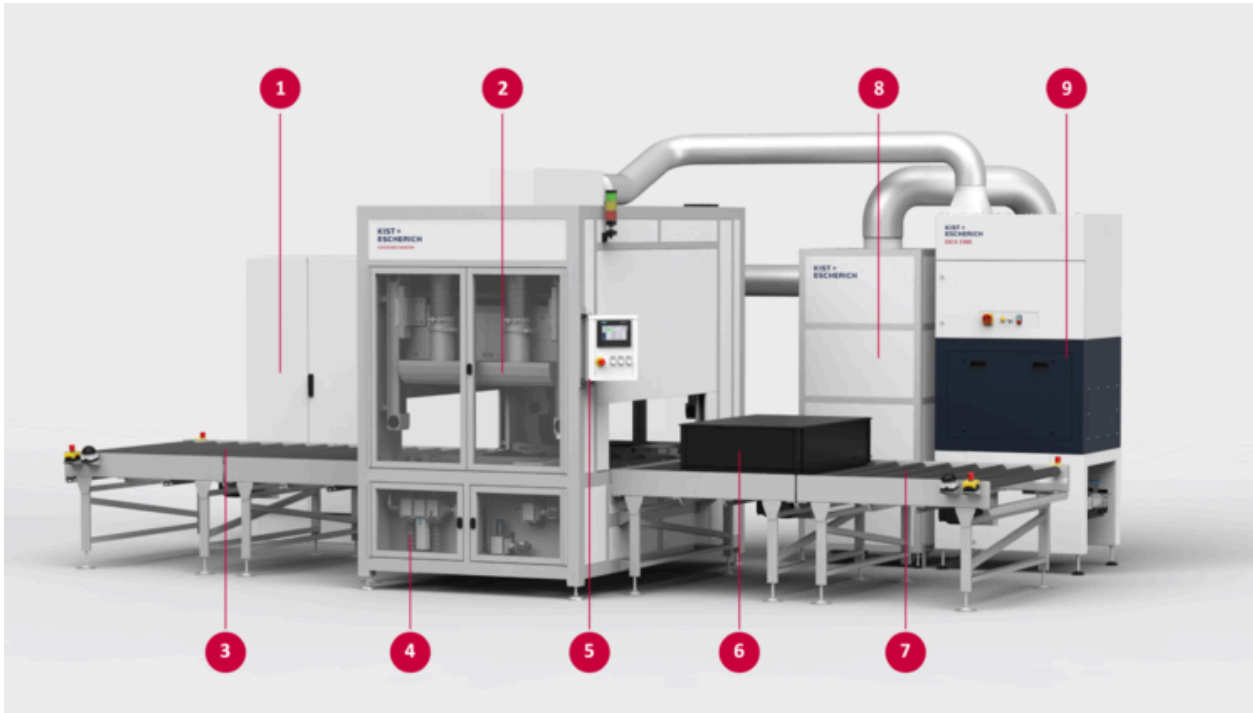
Technical Data

CONTAINER MASTER 1200	
Working width	max. 1,250 mm
Working length	max. 800 mm
Working height adjustment range (min-max)	60 – 400 mm
Operating air pressure for cleaning system recommended	2 – 4 bar
Compressed air connection	1" (DN 25)
Weight	approx. 1,500 kg (without cyclone, suction device and conveyor belts)
Transfer height	850 ± 25 mm
Operating voltage	3 × 400 V AC, PE, N
Frequency	50 Hz
Power consumption	approx. 8.3 kVA Basic machine
	approx. 15.2 kVA incl. Suction, input conveyor, output conveyor
Rated current	approx. 12 A Basic machine
	approx. 22 A incl. Suction, input conveyor, output conveyor
Conveying speed	0–11 m/min

[English] CONTAINER MASTER



System Installation



- 1 Control cabinet
- 2 Cleaning system
- 3 Outlet conveyor
- 4 Maintenance unit / Pneumatics
- 5 Front panel
- 6 Cleaning object
- 7 Inlet conveyor / materials handling
- 8 Cyclone pre-separator
- 9 ESCA suction and filter unit

Options

- **ESD version (anti-static):** Optional system for use in ESD areas to prevent electrostatic discharge (ESD).
- **Programme module:** Component-specific cleaning programs with recipe management and parameter settings.
- **Compressed air control:** Control of the compressed air supply, only in combination with the program module.
- **Monitoring package & TC CONTROL:** Advanced monitoring for recording process-relevant functions. TC CONTROL monitors the rev speed of the rotating nozzles to ensure consistent cleaning results.
- **Operating and machine data recording:** Data recording and processing of the operating and machine data with a link to the Manufacturing Execution System (MES).
- **Inlet/outlet/buffer conveyor:** For container inlet or outlet, distribution and as intermediate buffer.
- **Connection options to transport systems (FTS/AGV):** Interface for the integration of autonomous transport systems (FTS/AGV).
- **Automatic shutters:** Automatic shutters at the input and output gates of the machine.
- **Pre-separator:** System for collecting coarser and heavier dirt particles. It increases the service life of filters in the filter and suction system and prevents damage from larger particles such as wood pieces, plastic chips or metal parts.