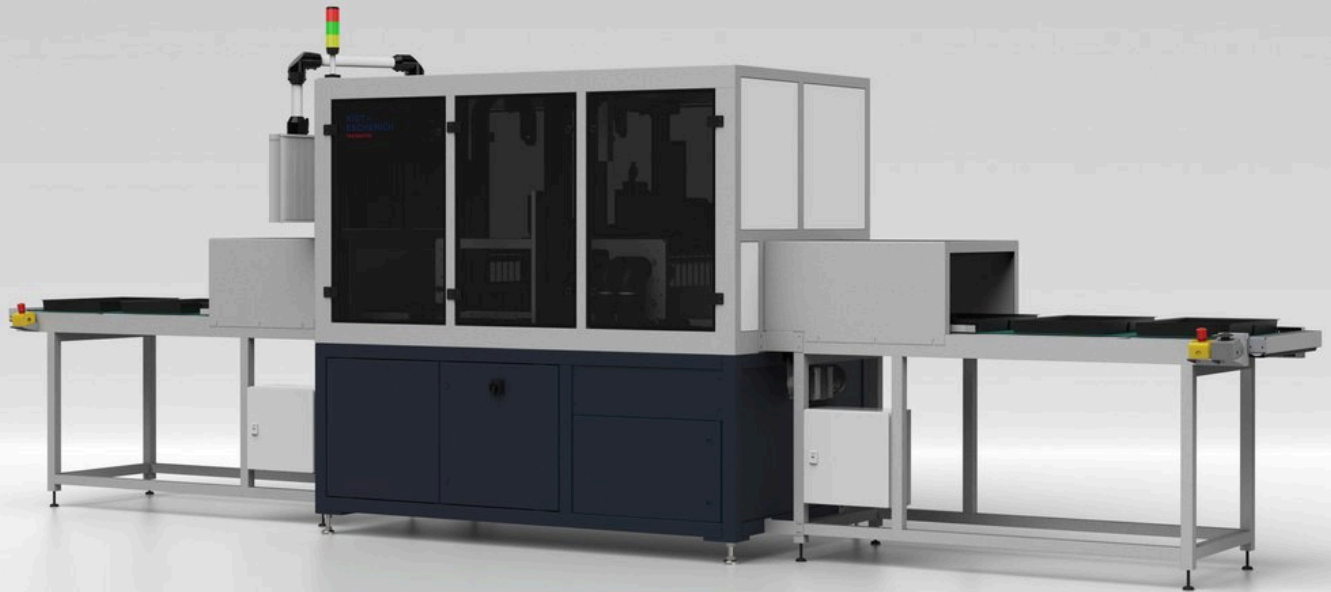


TRAYMASTER

Machine for cleaning trays and flat components



Key Facts

- ✓ **TRAYMASTER** - Our solution for professional cleaning of trays of different sizes and heights
- ✓ With the original **TAIFUN-CLEAN®** technology made in Germany
- ✓ **2 in 1: Top and underside cleaning** in one procedure
- ✓ **Adjustable cleaning time and intensity**
- ✓ **Integrated filter and suction system**

Product Description

Clean components into clean trays. The machine cleans constantly and in a continuous cycle, contactless on both sides, using the proven TAIFUN-CLEAN® technology. Disruptive particles are removed using highly turbulent compressed air, electrostatic discharge, and precise suction technology, and then efficiently transferred into the output air flow in order to capture them in an integrated filter system. This creates excellent cleaning results. The dry cleaning process is extremely gentle on surfaces, as it requires no chemicals, no high temperatures or complex drying processes, which then results in less stress and a longer service life for the trays, containers and twin-sheet trays. Special note: Cleaning of EPP trays is possible as well.

The system can be used in the logistics area, as a sluice into the clean room or as a solution directly in the production process and thus becomes an elementary component of container management. A variety of configuration variants are available to adapt the cleaning machine to customer requirements.



Technical Features

- Belt transport for minimal shading during cleaning and gentle transport of the trays
- Sensor-controlled height adjustment for automatic adaptation to different tray heights

- Recirculation principle: Proportional air recirculation to optimise the suction performance
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Extensive system control to optimise operations
- Operation is possible both as an in-process solution and as a stand-alone machine
- Environmentally friendly cleaning technology
- Inlet conveyer, removal/buffer conveyor for container feeding or acceptance, distribution and as intermediate buffer



Sensor-controlled height adjustment

For the automatic adjustment to different tray heights.



Integrated filter and suction system

The filter unit can be changed without tools.



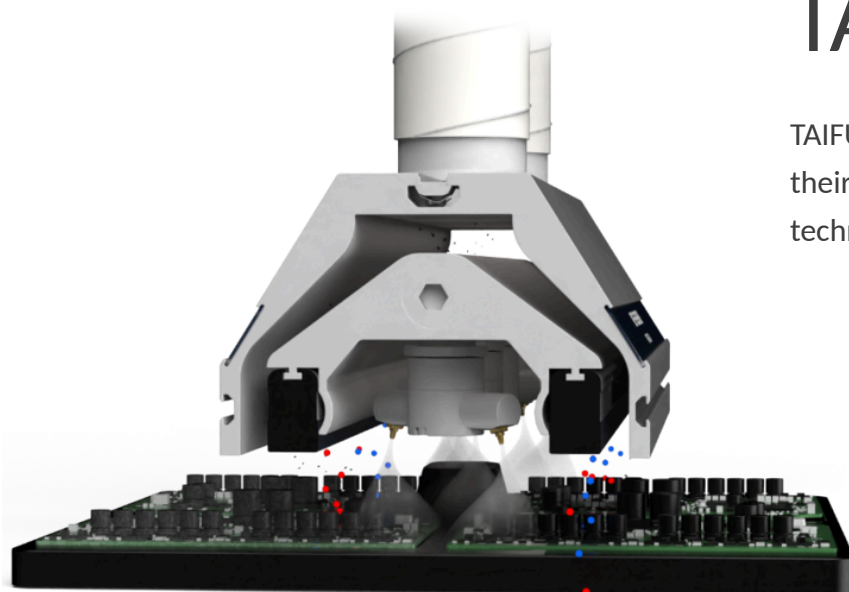
Tray transport

Round belts enable the safe transport of different sized parts.



Extensive system control

For optimised operations.



TECHNOLOGY

TAIFUN-CLEAN®

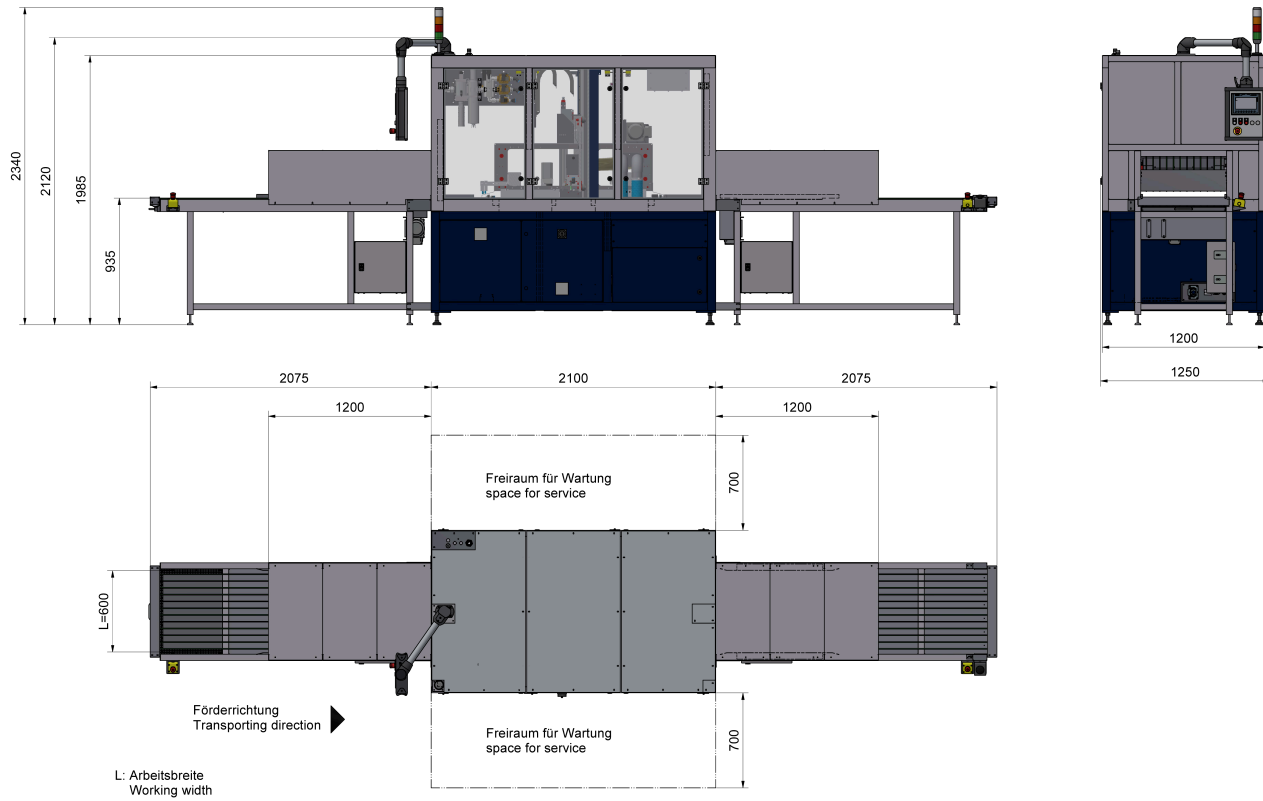
TAIFUN-CLEAN® begins where others have reached their limits. Would you like to learn more about the technology behind our product?

Technical Data

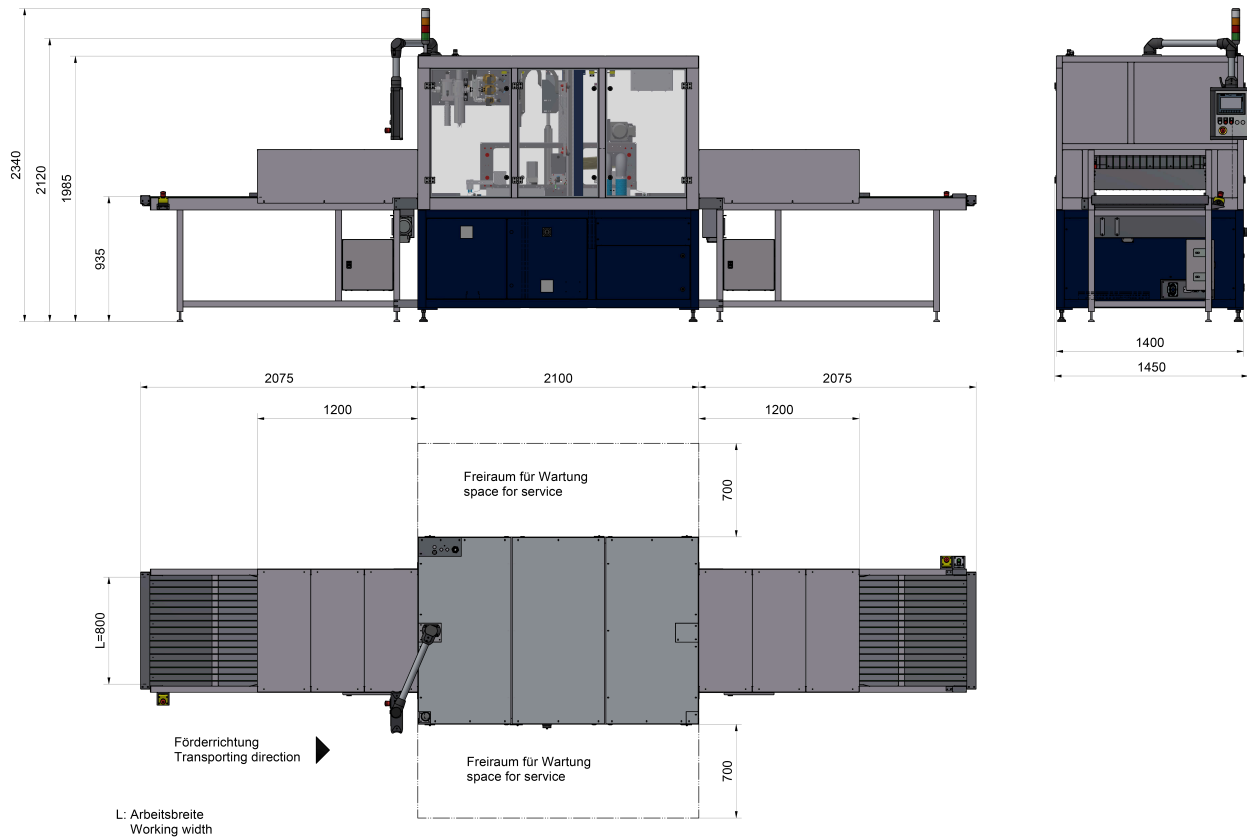
	TRAYMASTER 600	TRAYMASTER 800
Working width	600 mm	800 mm
Working height	10-150 mm, special height possible	10-150 mm, special height possible
Operating air pressure for cleaning system recommended	1.5 – 3.5 bar	1.5 – 3.5 bar
Compressed air connection	1" (DN 25)	1" (DN 25)
Weight	approx. 1,200 kg TRAYMASTER	approx. 1,500 kg TRAYMASTER
	approx. 1,500 kg incl. conveyor	approx. 1,900 kg incl. conveyor
Transfer height	935 +/- 25 mm	935 +/- 25 mm
Operating voltage	3 × 400 V AC, PE, N	3 × 400 V AC, PE, N
Frequency	50 Hz	50 Hz
Power consumption	9.7 kVA	11.2 kVA
Rated current	14.1 A without conveyor	14.5 A without conveyor
Conveyer speed	3–11 m/min	3–11 m/min
Colour	RAL 7035 / RAL 5003	RAL 7035 / RAL 5003

Technical Drawings

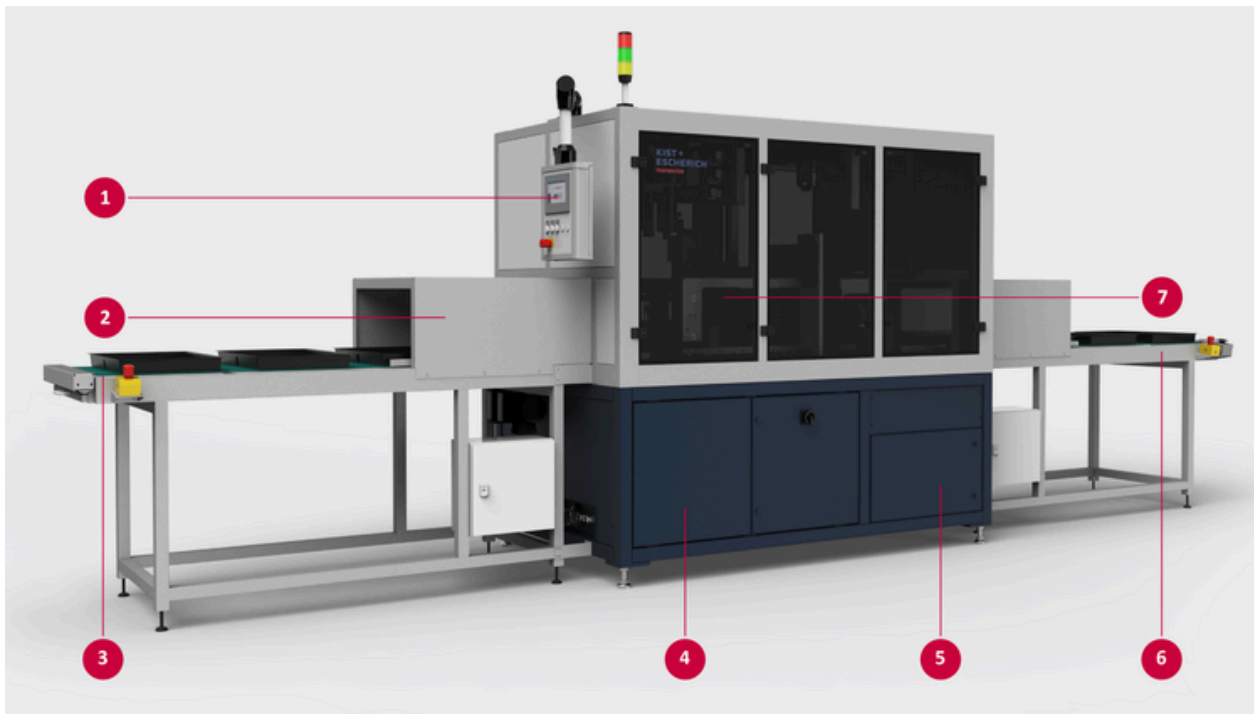
TM600



TM 800



System Installation



- 1 Front panel
- 2 Noise control tunnel
- 3 Inlet conveyor
- 4 Control cabinet
- 5 Suction and filter unit
- 6 Outlet conveyor with buffer function
- 7 Cleaning system

Options

- **Side panel cleaning:** Cleaning system consisting of ionisation and flat jet nozzles for cleaning side panels in the transport direction
- **Programme module:** Component-dependent cleaning programmes with recipe management and parameter control functions
- **Compressed air control** (only in conjunction with program module)
- **Monitoring bundle & TC CONTROL:** Extended monitoring package for the systematic recording of process-relevant functions. TC CONTROL is used to monitor the optimum rev speed range of the individual rotating nozzles to ensure a consistent cleaning result
- **Operating and machine data recording:** Data recording and processing of the operating and machine data with a link to the production control system (MES)
- **Automatic gates** at the input and output of the machine
- **Noise reduction:** Soundproof tunnel at the inlet and outlet (only in conjunction with the inlet and outlet conveyer)
- **Dust drawer:** Catches particles that may fall out when the trays are put in place
- **ESD version (anti-static):** This equipment can be configured for ESD areas to provide safe protection against electrostatic discharge (ESD)
- **Interface to upstream or downstream automation** e.g., robots, stacking units etc.
- **Clean room:** The system can be configured for use in clean rooms