KIST + ESCHERICH

MAGAZINE MASTER

Machine for cleaning of SMT PCB magazines

Key Facts

- ✓ **This cleaning machine is unique in the industrial world** for dry and non-contact cleaning of printed circuit board magazines
- ✓ **With the original TAIFUN-CLEAN® technology** made in Germany
- ✓ **Optimised for Smart Factory integration**
- ✓ **SMEMA-interface**

- ✓ **Integrated filter and suction system**

Product Description

No more time-consuming washing! MAGAZINE MASTER makes sure that magazines are clean. The machine cleans constantly in a continuous cycle, on all sides and without contact, using our 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, high temperatures or complex drying processes, which results in less stress and a longer service life for the PCB magazines, ESD racks and containers.

The system can be used either in the SMT production area as part of the Smart Factory, in a line concept of magazine handling, or in the logistics area around the material warehouse for storing LP magazines. The transfer and transfer process can be done manually by an operator, by trolley, or by an autonomous mobile robot (AGV). MAGAZINE MASTER can therefore be adapted to the current production process, depending on the degree of automation.

Technical Features

- Independent cleaning machine with integrated conveyor system, cleaning technology, control system, as well as filter and suction combination
- Operation is possible both as an in-process solution and as a stand-alone machine
- Cleaning programmes can be configured: Recipe management with adjustable parameters to adapt to different magazine sizes
- Flexible magazine logistics: individually adapted to the customer's production concept, from manual to fully automatic
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Machine gate for operator safety and noise reduction
- Environmentally friendly cleaning technology
- Connection to higher-level controls for seamless integration into existing systems
- ESD version (anti-static): This equipment can be configured for ESD areas to provide safe protection against electrostatic discharge (ESD)

Integrated filter and suction system:

Flexible magazine logistics:

Adaptable to any production concept – from manual to fully

Filter change for fast maintenance without tools.

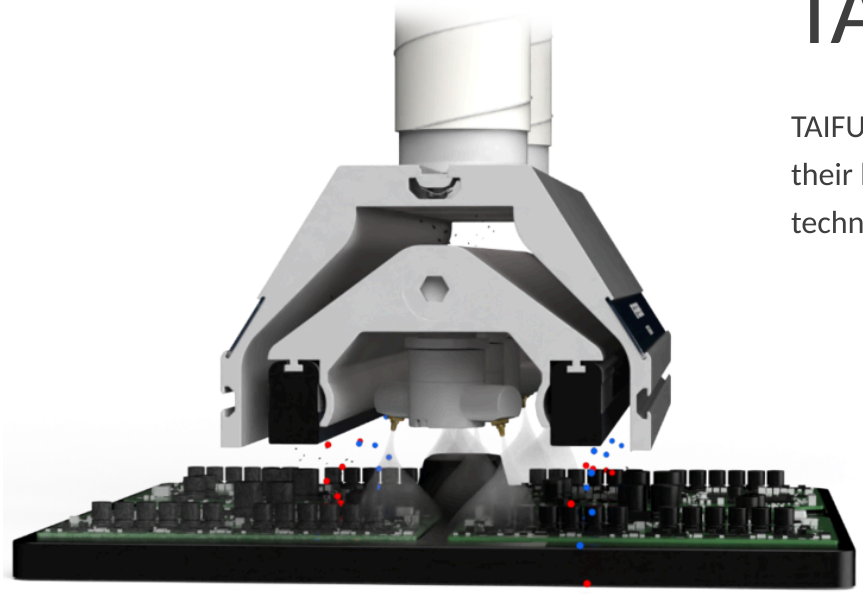
automatic.

ESD version (anti-static):

This equipment is configured for ESD areas to provide secure protection against electrostatic discharge (ESD).

Recipe management:

Individual cleaning programs for different magazine types.



TECHNOLOGY

TAIFUN-CLEAN®

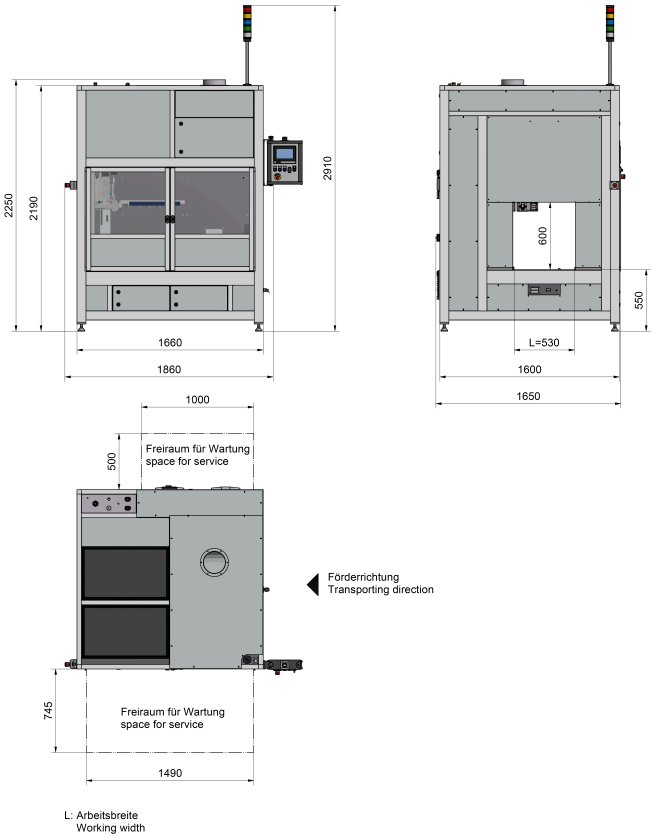
TAIFUN-CLEAN® begins where others have reached their limits. Would you like to learn more about the technology behind our product?

Technical Data

	MAGAZINE MASTER
Working width	320 – 530 mm
Working height adjustment range (min. – max.)	10 – 580 mm
Operating air pressure for cleaning system recommended	1.5 – 3.5 bar
Compressed air connection	1″ (DN 25)
Weight	approx. 950 kg
Transfer height	550 ± 25 mm
Operating voltage	3 × 400 V, PE, N
Frequency	50 Hz
Power consumption	5.4 kVA
Rated current	7.8 A
Conveyer speed	0 – 6.6 m/min
Wire colour	Grey RAL 7035

Technical Drawings

[English] MAGAZINE MASTER



L: Arbeitsbreite
Working width

System Installation

1. Suction and filter unit
2. Cleaning system
3. Outlet conveyor / materials handling
4. Filter box main filter
5. Cleaning object
6. Inlet conveyor / materials handling
7. Shutter
8. Front panel

Options

- **Automatic track width adjustment**
- **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)
- **Variable removal position:** Machine design as a continuous system or reversing
- **Connection to transport systems (FTS/AGV/mobile robots):** Interface for autonomous transport systems (FTS/ATV) is available
- **Clean room**: The system can be configured for use in clean rooms
- **Inlet conveyer, removal/buffer conveyor** for container feeding or acceptance, distribution and as intermediate buffer