KIST + ESCHERICH

MULTIMASTER

Semi-automatic cleaning machine for 2D and 3D components

Key Facts

- **The all-rounder for component cleaning**
- **Manual flexibility and automated precision cleaning in one**
- **2 in 1: Top and underside cleaning** in one procedure
- **Autonomous cleaning process** allows the operator to perform parallel operations
- **Integrated filter and suction system**

Product Description

MULTIMASTER is the versatile system platform for automated component cleaning. Parts are inserted into the appropriate part holders and removed after cleaning either manually by an operator or via an automated handling system. Cleaning is carried out dry and without contact using the proven KIST + ESCHERICH technologies made in Germany.

The automated process ensures consistent cleaning quality that is reproducible in contrast to manual cleaning devices. This leads to increased efficiency and quality assurance in the cleaning process. Individual adjustments to the respective component geometry are made via component-specific part holders and cleaning heads as well as configurations in the system controls.

The MULTIMASTER series offers a wide range of designs and configurations that vary depending on component size and handling requirements. This provides the optimum solution for specific requirements and facilitates an efficient cleaning process design.

Technical Features

- Stand-alone machine: Fully integrated system, only media connection is required
- Flexible loading with individual and exchangeable workpiece carriers
- Reducing cycle times by arranging several components on a workpiece carrier
- Adjustable cleaning time and intensity to suit different requirements
- Exchangeable cleaning head for a wide range of cleaning requirements
- Machine gate for operator safety and noise reduction
- Customer-specific cleaning heads guarantee optimum cleaning results even for complex components
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Environmentally friendly cleaning technology
- Connection to higher-level controls for seamless integration into existing systems

Flexible loading

With individual and exchangeable workpiece carriers.

Manual flexibility & Automated precision

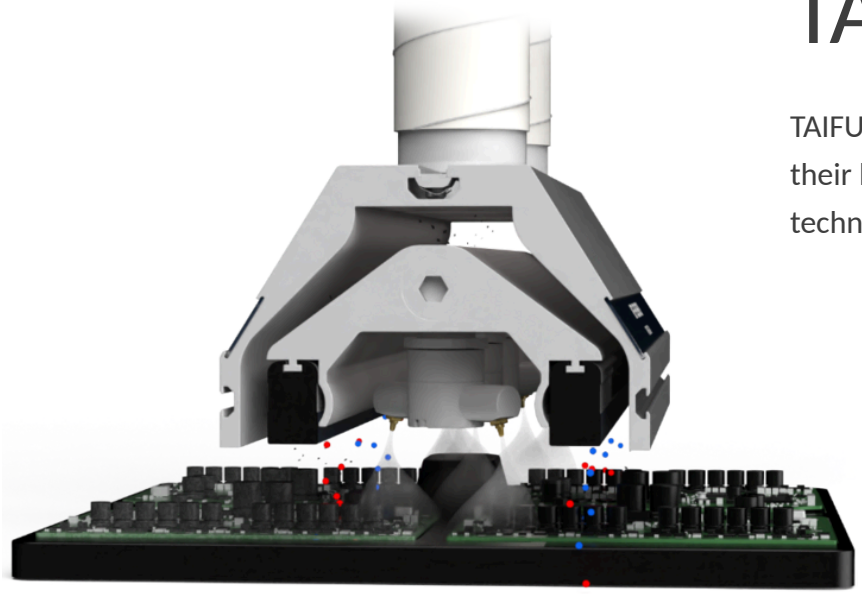
Consistent cleaning quality through an automated process

Machine gate

For maximum operator safety and noise reduction.

Customisable cleaning

Adjustable time and intensity for varying requirements.



TECHNOLOGY

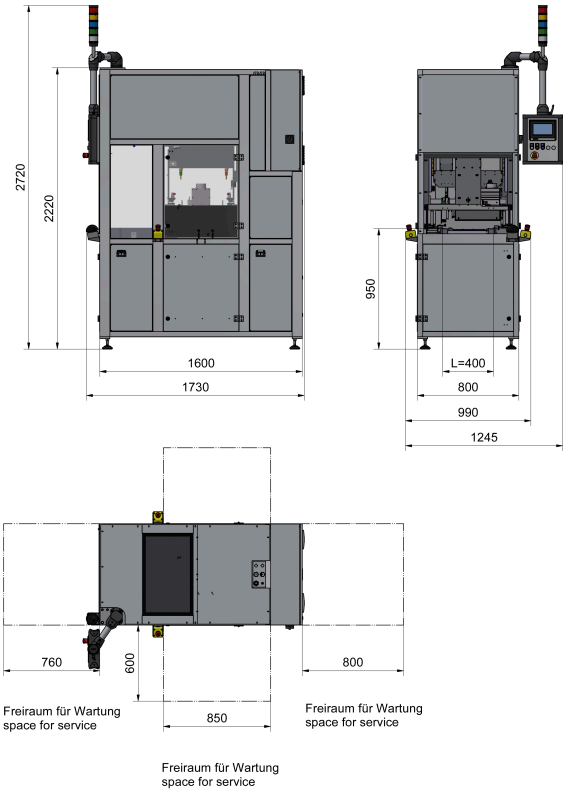
TAIFUN-CLEAN®

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

Technical Data

	MM 400
Working width	400 mm
Working height adjustment range (min. – max.)	25 – 150 mm
Operating air pressure for cleaning system recommended	1.5 – 3.5 bar
Compressed air connection	1” (DN25)
Weight	approx. 650 kg
Transfer height	950 ± 25 mm
Operating voltage	3 × 400 V, PE, N
Frequency	50 Hz
Power consumption	8.6 kVA
Rated current	12.4 A
Conveyer speed	3.6 – 12.0 m/min
Colour	Grey RAL 7035

Technical Drawings



L: Arbeitsbreite
Working width

System Installation

1. Control cabinet
2. Shutter
3. Cleaning system
4. Suction and filter unit
5. Front panel
6. Loading/removal position
7. Pneumatics

Options

- **ESD version (anti-static):** This equipment can be configured for ESD areas to provide safe protection against electrostatic discharge (ESD)
- **Coding of change parts:** Coding of all equipment / change parts for identification and component assignment
- **Operating and machine data recording:**Data recording and processing of the operating and machine data with a link to the production control system (MES)
- **Programme module:** Component-dependent cleaning programmes with recipe management and parameter control functions
- **Monitoring bundle & TC CONTROL:** Extended monitoring package for the systematic recording of process-relevant functions. The TC CONTROL is used to control and monitor the optimum rev speed range of the individual rotating nozzles to ensure consistently good cleaning results
- **Component detection:** Components in the workpiece carrier are automatically detected.
- **Variable removal position:** Machine designs are possible as a continuous system or as recirculation of components using a workpiece carrier
- **Clean room**: The system can be configured for use in clean rooms