

VARIOMASTER

Cleaning station with drawer for 2D and 3D components



Key Facts

- ✓ **Compact cleaning box** for use in confined spaces
- ✓ **With the original TAIFUN-CLEAN® technology** made in Germany
- ✓ **Manual flexibility and automated precision cleaning in one**
- ✓ **Autonomous cleaning process** allows the operator to perform parallel operations
- ✓ **2 in 1: Top and underside cleaning** in one procedure

Product Description

The VARIOMASTER is the compact system for automated cleaning of small and medium-sized components. The components are inserted into the intended part holders manually by an operator and removed again after cleaning. Cleaning is carried out dry and contactless using highly turbulent compressed air, electrostatic discharge and precise suction technology. In this way, contaminants are first loosened and then efficiently transferred to the output air flow in order to be captured in the external filter system. This creates excellent cleaning results. The dry cleaning process is as gentle as possible on surfaces.

The automated cleaning cycle ensures a constant cleaning quality that is reproducible in contrast to manual cleaning systems. This leads to increased efficiency and quality assurance in the cleaning process.

The VARIOMASTER can be used in production flexibly as a space-saving table top unit or as an independent standing workstation.

Technical Features

- Popular for small components
- Available as a desktop or floor unit
- Drawer for easy loading, sound insulation, operator protection
- Loading via individual, exchangeable part holder (one or more parts at the same time)
- Suction via proven ESUC filter, suction and supply unit
- Adjustable cleaning time and intensity to suit different requirements
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Connection to higher-level controls for seamless integration into existing systems



Ergonomic drawer

Convenient loading for an efficient workflow.



Customised cleaning heads as an option

Guarantees optimum cleaning results even for complex components.

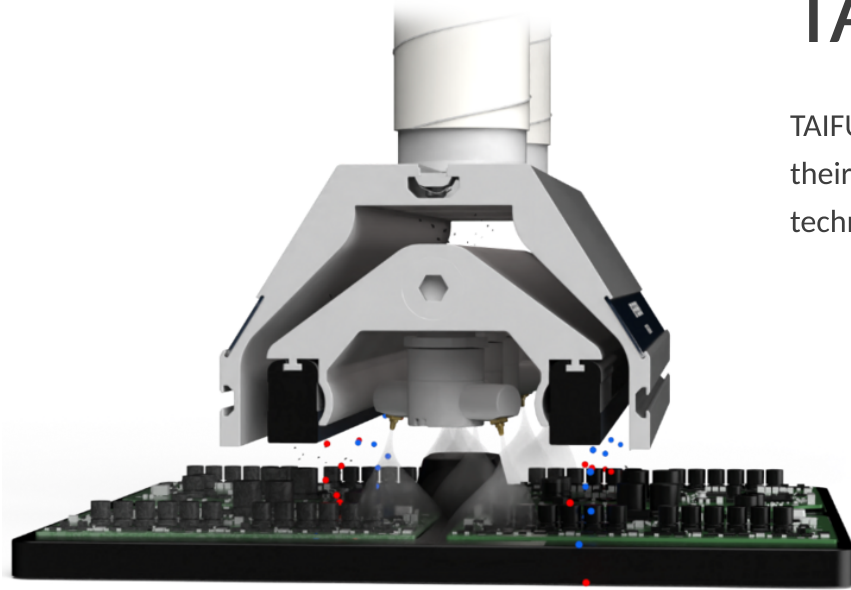


Stand-alone device

Perfect for integration into the production process.



ESUC flexible filter, suction and supply unit



TECHNOLOGY

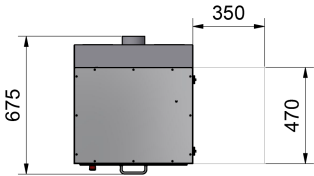
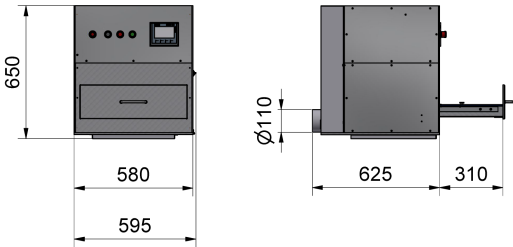
TAIFUN-CLEAN®

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

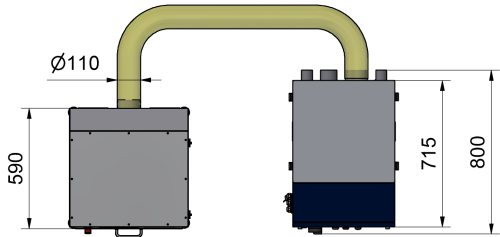
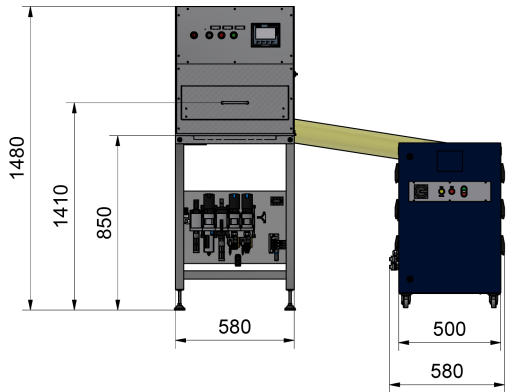
Technical Data

VARIOMASTER	
Work chamber	250 mm × 300 mm × 50 mm
Compressed air connection	1/2" (DN 19)
Input pressure	6.0 bar
Operating pressure for cleaning system recommended	1.5 – 3.5 bar
Length / width / height	675 mm x 600 mm x 650 mm
Length / width / height with frame	675 mm x 600 mm x 1,480 mm
Transfer height with frame	approx. 1000 ± 25 mm
Weight	approx. 65 kg
Operating voltage	230 V AC
Frequency	50 Hz
Power consumption	0.6 kVA
Rated current	2.5 A

Technical Drawings



Freiraum für Wartung
space for service



System Installation



- 1 Control cabinet
- 2 Loading position (drawer)
- 3 Pneumatics
- 4 Front panel
- 5 Cleaning system
- 6 Suction, filter and supply system

Options

- **ESD version (anti-static):** This equipment can be configured for ESD areas to provide safe protection against electrostatic discharge (ESD)
- **Component-specific cleaning system:** adaptation of the cleaning system to the component according to cleaning requirements
- **Programme module:** Component-dependent cleaning programmes with recipe management and parameter control functions
- **Standing workstation:** The tabletop unit is extended by a machine frame.
- **Security package:** Monitoring maintenance accesses and drawer with magnetic closure. When the cleaning is complete, the drawer opens automatically
- **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 recognition:** Components in the workpiece carrier are automatically detected.
- **Operating and machine data recording:** Data recording and processing of the operating and machine data with a link to the production control system (MES)
- **Coding of change parts:** Coding of all equipment / change parts for identification and component assignment
- **Workpiece retainer** fixes lightweight products in the component holder
- **Clean room:** The system can be configured for use in clean rooms