KIST + ESCHERICH

UNIMASTER COMPACT

Compact system for manual cleaning of components

Key Facts

- **Standing workstation for manual cleaning** with maximum component flexibility
- **Customised:** depending on the application, individualised cleaning systems are available
- **Plug & Play:** Set up, connect, get started
- **The work environment stays clean** - particles can be suctioned off reliably
- **Integrated filter and suction system**

Product Description

Used everywhere: The all-rounder among cleaning devices – made in Germany.
The UNIMASTER manual workstation is a highly flexible cleaning device that has proven itself in many applications. Thanks to its versatile functionality, almost any type of component can be cleaned manually using the dry cleaning process, without any special prior knowledge or experience required of the operator.

The cleaning is completely contactless and is individually adapted to your requirements. A range of cleaning systems is available, which include a combination of ionisation for electrostatic discharge of the component surfaces and a powerful, pulsating airstream for the effective removal of dirt particles. To ensure thorough cleaning, any loosened contaminants are directed by a laminar airstream to the internal suction and filter unit.

Technical Features

- Compact cleaning box for use in confined spaces
- Stand-alone machine: Fully integrated system, only media connection is required
- Closed cleaning circuit: Due to the ceiling fed laminar flow (flow box), the workplace remains clean
- Automatic or manual start of cleaning is possible
- Flexibility: The cleaning systems can be adapted to changing requirements at any time
- Monitoring of operating parameters is integrated for efficient cleaning processes
- Built-in workplace lighting
- Parts handling by robots is possible

Maximum flexibility:

Versatile configuration options of the cleaning systems.

Clean work environment:

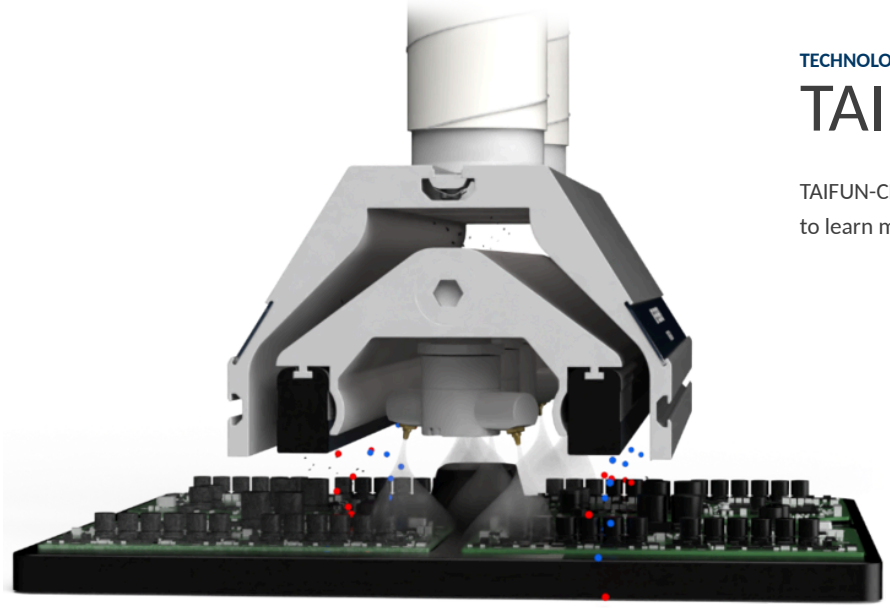
Reliable particle suctioning.

Plug & Play:

Quick setup, ready to use immediately.

Integrated filter and suction system:

Filter change for fast maintenance without tools.



TECHNOLOGY

TAIFUN-CLEAN®

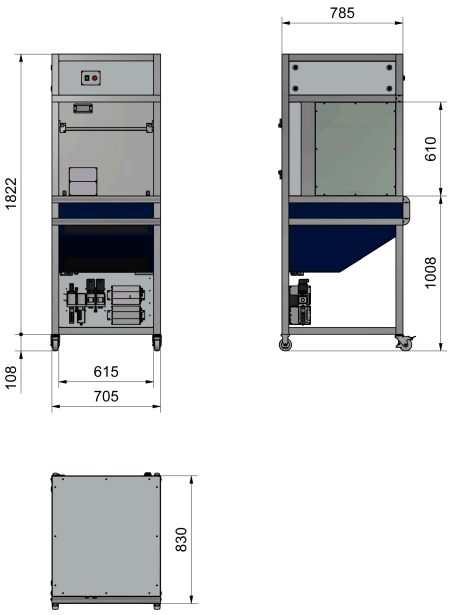
TAIFUN-CLEAN® begins where others have reached their limits. Would you like to learn more about the technology behind our product?

Technical Data

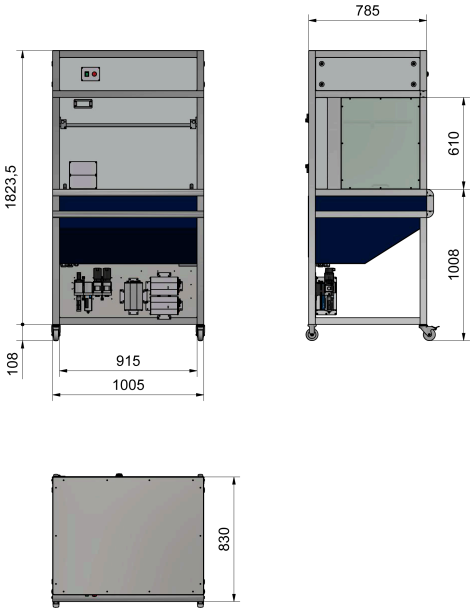
	UMC-0600-V03	UMC-0900-V03	UMC-1200-V03	UMCESD-0600-V03	UMCESD-0900-V03	UMCESD-1200-V03
Working width	600 mm	900 mm	1200 mm	600 mm	900 mm	1200 mm
Operating voltage	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated current	1.8 A	1.8 A	1.8 A	1.8 A	1.8 A	1.8 A
Possible types of integrable cleaning devices	• **TCC110** • **TCC180** • **SAG55** • **SAJ55** • **SAM55** • **SAMSI** • **SASPOTXS**	• **TCC110** • **TCC180** • **SAG55** • **SAJ55** • **SAM55** • **SAMSI** • **SASPOTXS**	• **TCC110** • **TCC180** • **SAG55** • **SAJ55** • **SAM55** • **SAMSI** • **SASPOTXS**	• **SIP** • **SAM-SIP** • **TCC110ESD**	• **SIP** • **SAM-SIP** • **TCC110ESD**	• **SIP** • **SAM-SIP** • **TCC110ESD**
Operating air pressure for cleaning system (recommended)						
Operating air pressure for cleaning system (min. – max.)						
Type compressed air connection for the cleaning system	Hose nozzle DN13	Hose nozzle DN13	Hose nozzle DN13	Hose nozzle DN13	Hose nozzle DN13	Hose nozzle DN13
Circulating air volume flow (max.)	1500 m^3/h	3000 m^3/h	3000 m^3/h	1500 m^3/h	3000 m^3/h	3000 m^3/h
Ambient temperature (min. – max.)	5 – 45 °C	5 – 45 °C	5 – 45 °C	5 – 45 °C	5 – 45 °C	5 – 45 °C
Humidity (min. - max.)	0–60 %RH	0–60 %RH	0–60 %RH	0–60 %RH	0–60 %RH	0–60 %RH
Weight	170 kg	210 kg	250 kg	170 kg	210 kg	250 kg

Technical Drawings

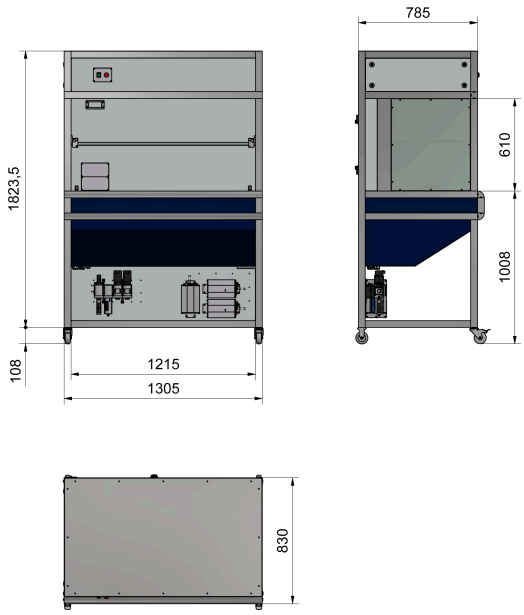
[English] UMC 600



[English] UMC 900



[English] UMC 1200


785
1823,5
610
1008
108
1215
1305
830

System Installation

1. Control cabinet
2. Cleaning system
3. Sockets (optional)
4. Suction grid (removable)
5. Compressed air control
6. Ceiling vent with filter cell
7. Flexible adjustable mounting for cleaning systems
8. Light curtain for activation of the cleaning
9. Suction and filter unit
10. High voltage supply

Options

- **ESD version (anti-static):** This equipment can be configured for ESD areas to provide safe protection against electrostatic discharge (ESD)
- **Customisable work surface:** Stainless steel perforated grid, stainless steel bar grid or powder coated perforated grid ESD.
- **To minimise compressed air consumption**, it is possible to activate compressed air via:
  - Manual foot pedal (monostable): Activated during operation
  - Manual foot pedal (bistable): With on/off switching function
  - Light curtain: Activates when reaching into the work chamber
- **High-performance ionisation gun SAG/SAJ:** Compressed air intensity is continuously adjustable.
- **Cleaning head TC COMPACT 110/180:** Pulsating compressed air vortex for cleaning combined with a ring ioniser for electrostatic discharge. The cleaning heads are each mounted on a flexible VARIO FIX bracket and adjustable.
- **STATIK-AIR MULTIJET Ionisation Blowing Unit:** for the elimination of electrostatic charges and contamination on geometrically challenging parts. STATIK-AIR MULTIJET 55 each mounted on a VARIO FIX adjustable bracket.
- **Maintenance unit 1/2":** equipped with one or more pressure regulators, superfine filter (5 µm) and manometer. Compressed air preparation is carried out at the factory
- **Sockets:** 230 V (2×) sockets integrated in the work chamber including earth fault circuit breaker for individual applications.
- **Guide/fixed rollers**