

ULTJUMBO®

**Filter trolley 2.0
ELEPHANT**



LASER
FUMES



DUST AND
SMOKE



SOLDERING
FUMES



ODORS,
GASES, AND
VAPORS



CLEANING
INDUSTRIAL
GASES



NEW
EMISSIONS



WELDING
FUMES



OIL AND
EMULSION
MISTS



COMPLETE
SOLUTIONS

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Extraction. Filtration. Persistence.



DUST AND SMOKE

Application and use

With the Jumbo ELEPHANT you can reliably clean unwanted particles from surfaces for the maximum degree of cleanliness. The combination of a high performance filtering unit with an innovative suction head can remove even the most stubborn, sticky and electrostatically charged dusts from the **surface of items**, without stirring up these particles in your production facilities. Due to its compact, mobile design, this unit can be used anywhere in your production area. It has an integrated ioniser to neutralise the electrostatic attraction between dust and the surface of components. Pulsed compressed air also helps to extract particles from recesses. The mobile filter unit sucks in the mixture of air and particles and uses a multi-stage cleaning process to remove even the finest particles of dust. The filtered air is then returned straight back to the working area. Thanks to its innovative design, high reliability and long service life, the Jumbo ELEPHANT provides you with clean surfaces and pure air.

Applications

- ↳ **Before:**
assembly, coating, printing, finishing, picking parts, laminating, fitting parts, packaging
- ↳ **After:**
deburring, cutting, punching, perforating, grinding, milling, transporting

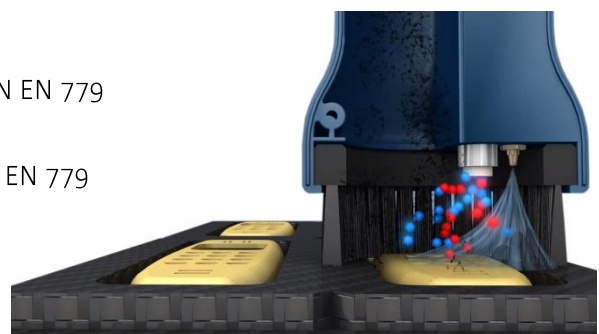
ULT Jumbo Features & Functions

- ↳ Mobile unit with 2 large wheels
- ↳ Low noise level
- ↳ With Elephant collection unit comprising:
 - Ionisation unit
 - Compressed air nozzle
 - Trigger sensor for compressed air
 - Round brush for best suction and cleaning of components
 - Holder on the unit
- ↳ Knob to control the compressed air pulsation frequency
- ↳ With system permitting each filter to be replaced separately
- ↳ Adjustable blower direction
- ↳ Large multi-coloured light indicates:
 - unit is operating
 - particle filters are saturated
 - failure of ionising unit



Filter system:

- (1) Z-Line filter G4 in a disposal carton
Filter class: G4 filter for coarse dust to DIN EN 779
- (2) filter mat M5
Filter class: M5 medium dust filter to DIN EN 779
- (3) Particle filter cassette H13
Filter class: H13 HEPA filter, high-efficiency particulate air filter to DIN EN 1822



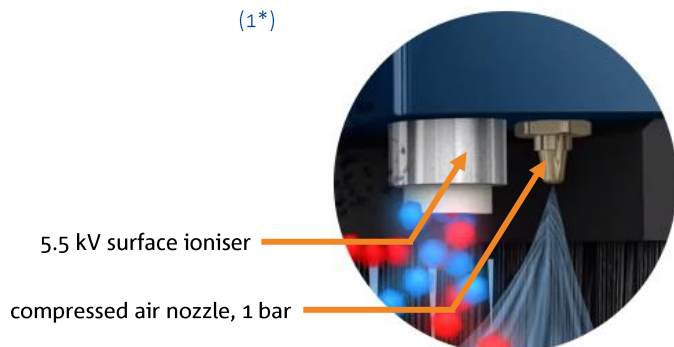


DUST AND SMOKE

Technical Data

Parameter	unit	
Max. air flow	m³ / h	190
Max. vacuum	Pa	3,200
Nominal capacity	m³/h @ Pa	80 / 1,900
Motor - nominal power	W	200
Nominal voltage	V	1~ 230
Nominal current	A	1
Frequency	Hz	50 / 60
Protection class	IP	54
Blower type		EC blower
Noise level	dB(A)	49
Multi-coloured indicator light		operation, filter loaded, failure of ionisation unit
Cleaning of surfaces with compressed air	(1*)	Adjustable pulse-frequency, integrated into the cleaning head, operating pressure 1 bar
Cleaning of surfaces with ionising radiation	(1*)	Continuously operating 5.5 kV ioniser integrated into the cleaning head
Air intake	Ø	1x Ø 50 mm nozzle on the unit
	capturing	permanently installed 1.5 m extraction hose with integrated media supply for the multi-function cleaning head
Air outlet		2 exhaust air openings, adjustable
	position	on both sides at the bottom
Width	mm	340
Depth	mm	450
Height	mm	600
Weight	kg	approx. 18
Length of power cable	m	3.0
Filter system		filter system: storage filter
		filter set complete JuEl 02.1.220
		consisting of:
	(1)	Z-Line filter G4 with a disposal carton JuEl 02.0.221
(2)	filter mat M5 JuEl 02.0.223	
(3)	Particle filter cassette H13 JuEl 02.0.225	
Options & accessories:		
Choice of brush hardness		Ø 0.15; 0.2 (Standard); 0.3 or 0.5 mm; material PP
Wall mounted pressure regulator		suitable for supply of up to 6 bar, reducing to operating pressure of 1 to 2 bar

(1*)





Functional principle:

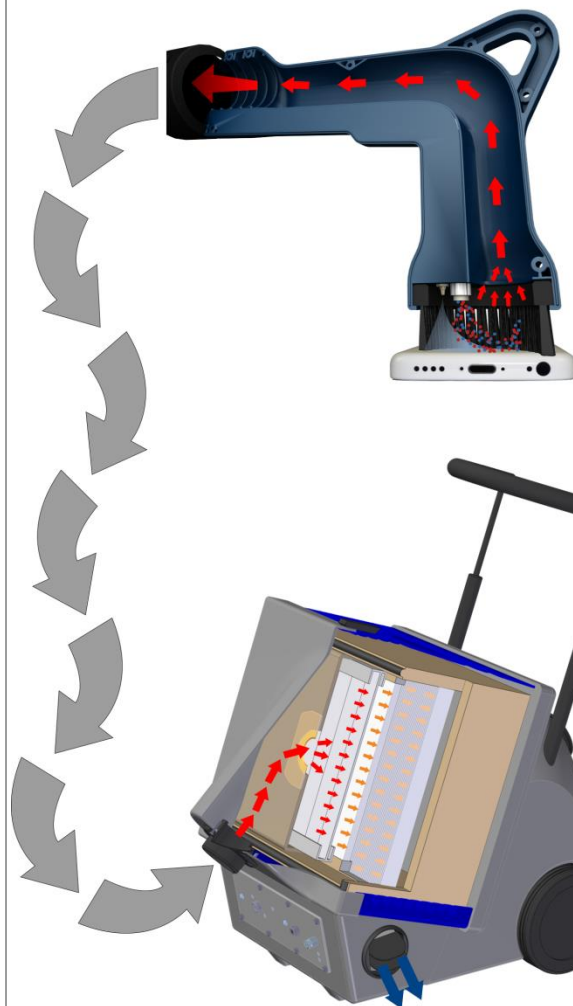
The Jumbo ELEPHANT is “plug & play”. It is quick and easy to use wherever surfaces have to be cleaned.

The operator simply runs the cleaning head over the part to be cleaned. Due to its sophisticated design, unwanted particles will be statically discharged, removed from the surface and sucked away. The pistol-shaped grip makes it easy and intuitive to use. For parts with a complex shape, the long suction hose makes it easy for you to move around. An ergonomically positioned proximity sensor triggers the compressed air cleaning as required.

The electrostatic charge which makes dust stick onto surfaces is eliminated by the permanently active ionisation unit. Statically charged particles can thus be removed from components. Safe to touch, high performance ionisation allows operators to work very precisely.

For stubborn particles and dust, a pulsed jet of compressed air is triggered by the proximity sensor, enabling effective collection and removal of impurities, even when components have undercuts and recesses. Apart from the high cleaning efficiency, pulsing the compressed air also reduces costs by 50% when compared to using a constant air jet.

A blower transfers the extracted mixture of air and dust directly from the suction head into the filtration unit. In the filtration unit, the air is then cleaned in a multi-stage replaceable filter system.



Storage filter system

Filters which are replaced once they are saturated.

Filtration set complete:

- (1) **Coarse dust filter** Z-Line filter G4 in disposal carton
- (2) **Medium dust filter** filter mat M5
- (3) **particulate filter** HEPA filter H13

Due to the high degree of filtering, the **filtered air** can then be returned to the working area. This avoids any loss of heat.

- raw gas
- filtration
- clean gas