
GALILEO Plus

Air Filtration

Oily mist filter unit



Galileo Plus

Galileo Plus is a filter unit patented for mists generated by whole oil and emulsions in machine tools, reliable even with particulate matter.

Galileo Plus is available in 5 models with flow rates from 325 to 3,500 m³/h.

Losma guarantees that each filter unit is individually tested through rigorous control procedures.

A quality and functional test certificate is issued for each unit.

Patented in
Italy, Europe,
USA, China
and Japan

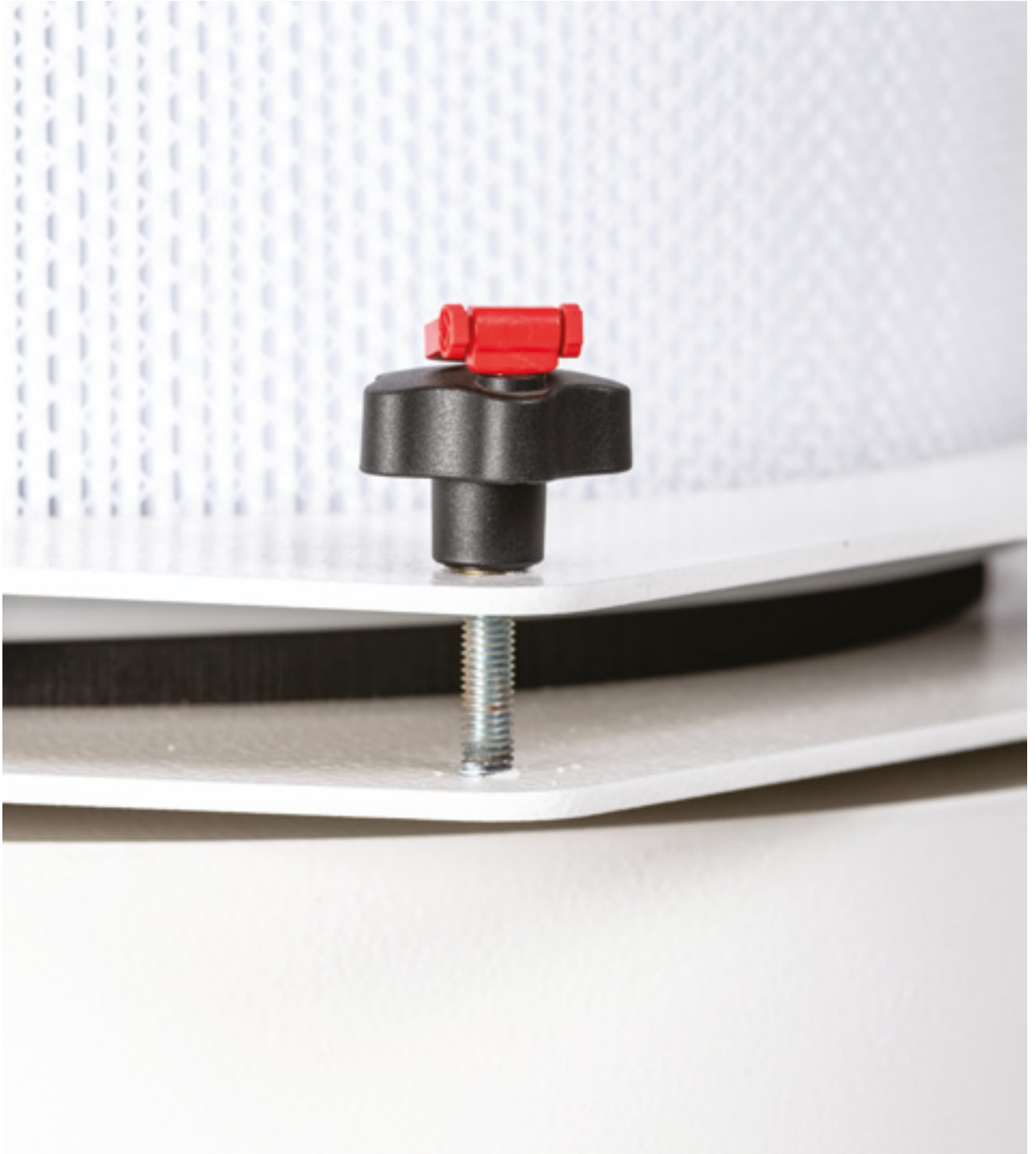




Operation

- The polluted air in machine tools is sucked into the lower pre-chamber of the Galileo Plus.
- The acceleration effect due to the centrifugal force, generated by a turbine, allows the atomised oil particles to unite and return to a liquid state, making use of the principle of coalescence.
- A special high-efficiency Multi-layer filter blocks and captures the smallest pollutant particles, preventing their dispersion into the environment. Oil in its liquid state is then returned to the machine for reuse through a special drainage outlet.





Left: example sequence taken from product operation video

Advantages

HIGH DEGREE OF FILTRATION AND LONG-LIFE FILTERS

The combination of the centrifugal action of the turbine and the high-efficiency multilayer filter set guarantees a high degree of filtration. The filters are positioned after the centrifugal action of the turbine, so they are exposed to a limited amount of smaller pollutants. Thanks to this positioning, Galileo Plus filters have a longer service life than those of the main centrifugal or static vacuum cleaners on the market.

MATERIALS TESTED BY LOSMA LABORATORIES

The internal materials have passed stress compatibility tests in contact with numerous types of oil and emulsions on the market.

INNOVATIVE DESIGN AND SIMPLIFIED MAINTENANCE

Galileo Plus combines Italian design and modern technology for a cleaner, more pleasant work environment. The internal filters can be changed very easily. Simply lift the cover door to access the filters inside the machine.





Optional

1. G-Guard pre-filter

2. G-Clipper post-filter

3. X-View

1. G-Guard pre-filter

Metallic pre-filter to maximise filtration efficiency and filter duration in the presence of high oil mist production, even at high pressures, mixed with powders and metal shavings.

The G-Guard an inspection door for easier maintenance and is completely washable.



2. G-Clipper post-filter

Cartridge post-filter for micro-mists, vapours and fumes. Can obtain a very high level of filtration up to 99.95%.



3. X-VIEW

Filter clogging sensor

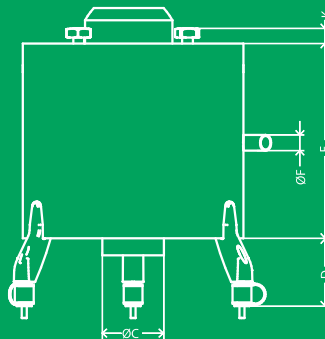
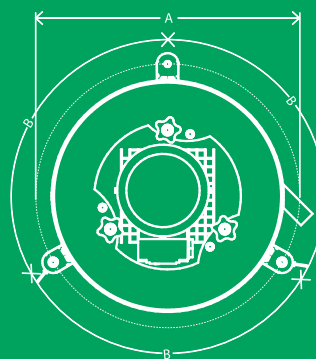
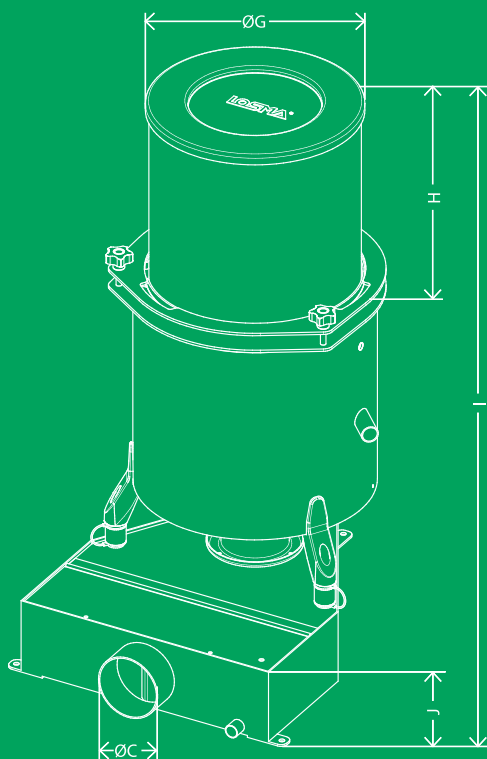
The X-VIEW sensor is able to detect the progressive clogging state of the Galileo Plus filters, signaling three main operating phases:

- GREEN: Clean Filters;
- YELLOW: Pre clogging;
- RED: Clogging.

Also thanks to an exclusive software, it is possible to detect possible anomaly.



Technical Data





Models	Dimentions (mm)										
	ØA	<) B	ØC	D	E	ØF	ØG	H	I	J	K
Galileo Plus 250	350	120	78	98	388	25	254	314	698	93	22
Galileo Plus 500	400	120	98	98	418	25	315	314	732	113	26
Galileo Plus 1000	490	120	148	88	508	25	380	435	940	163	75
Galileo Plus 2000	530	120	148	88	558	25	380	435	990	163	33
Galileo Plus 3000	560	90	198	88	658	25	460	350	1024	218	25

Models	Maximum air flow (m ³ /h)* 50/60 Hz		Pressure (Pa) 50/60 Hz		Power (kW)		Opening inlet (mm)	Noise level (dBa)		Net Weight (kg)	RPM (rpm)	
	From	To	From	To	50 Hz	60 Hz		50 Hz	60 Hz		50 Hz	60 Hz
Galileo Plus 250	310	450	260	410	0,09	0,12	80	58	60	10	2900	3450
Galileo Plus 500	600	850	740	900	0,25	0,29	100	68	69	14	2900	3450
Galileo Plus 1000	1120	1550	1000	1200	0,55	0,63	150	70	71	29	2900	3450
Galileo Plus 2000	1450	2230	830	1300	1,10	1,30	150	72	73	34	2900	3450
Galileo Plus 3000	2280	3500	1250	1500	1,50	1,75	200	71	75	54	2900	3500

* Free inlet