



KOTON TECHNOLOGIES CO., LTD.

No. 8, Aly. 5, Ln. 280, Xizhou Rd., Shengang Dist.,
Taichung City 42948, Taiwan

T : +886-4-2562-0557 F : +886-4-2562-0267

koton@koton.com.tw www.koton-edm.com



KOTON

TECHNOLOGIES

www.koton-edm.com

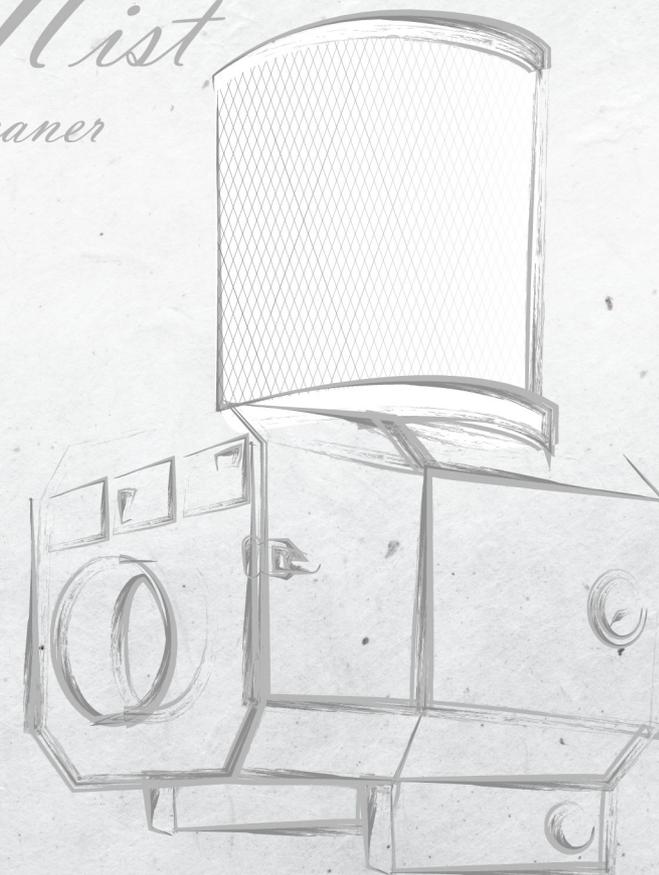
Stay Clean & Green

Clean Air

Healthy Work Environment

Low Carbon Footprint

*Oil Mist
Air Cleaner*



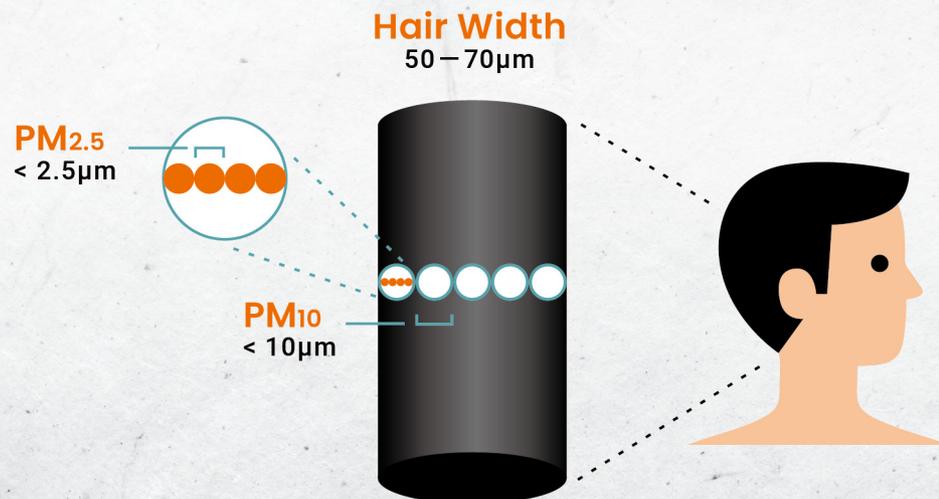
What is PM_{2.5} ?

PM_{2.5}

- Suspended particles
- Particle size of suspended particles
- A mixture of solid particles and liquids in the air

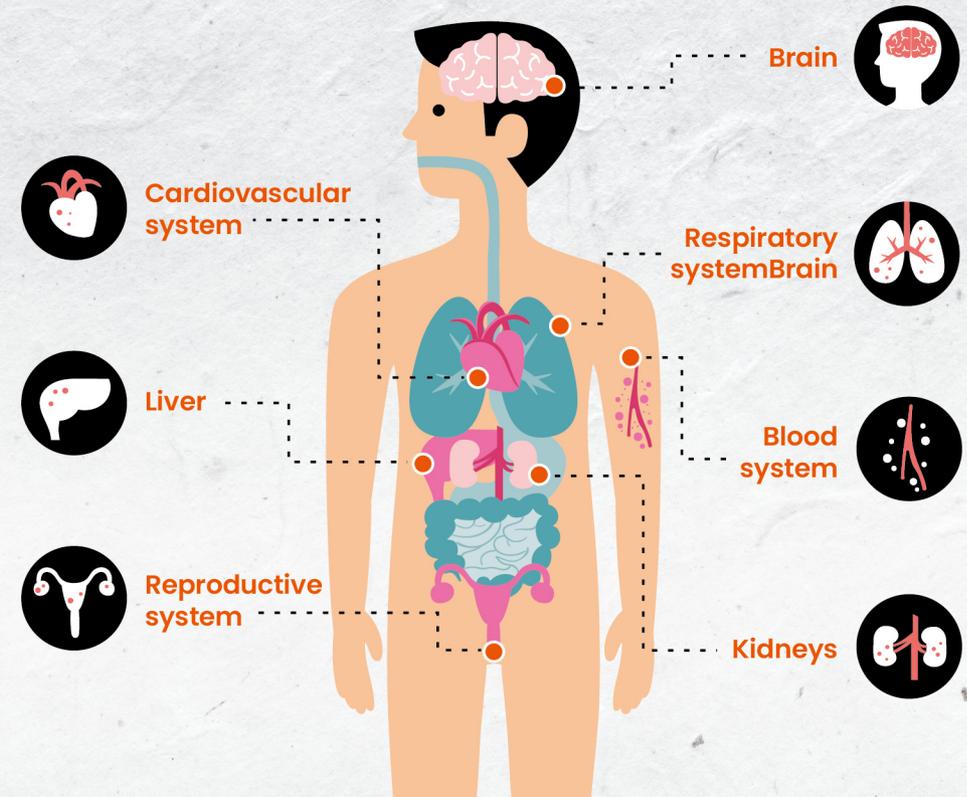


How large is PM_{2.5} ?



What exactly is the size of PM_{2.5}? For example, the diameter of human hair is about 50-70 µm, which is 20-28 times larger than PM_{2.5}! So PM_{2.5} is really a very, very small particle, and because of this, it has a significant impact on the human body.

What are the effects of PM_{2.5} on health ?



Potential Risks in Mechanical Processing

Metalworking Fluids:

- Contain various chemicals, with up to 95% water content.
- Long-term exposure and continuous recycling of these fluids make them prone to bacterial growth.

Health Effects:

- More complex than natural PM_{2.5}, leading to higher health risks.
- PM_{2.5} can enter the bloodstream through the lungs, triggering organ inflammation and increasing the risk of thrombosis and respiratory diseases.

Introduction to Different Model Versions



- E Series**
- Pressure Meter Version



- t Series**
- Digital LED Indicator.
 - LED light changes color based on pressure levels, and alerts operators when it's time to clean the filter.
 - Removes airborne particles from industrial workplaces.
 - Originally designed for the metalworking industry; now also used in: Other industries; Commercial food industry; Air purification.



- W Series**
- Exclusive Variable Frequency Control Technology.
 - Automatically adjusts suction power based on the amount of oil mist in the environment.
 - Energy Management.
 - Collects data on oil mist collector usage.
 - Facilitates better allocation and arrangement by managers.
 - Provides valuable insights for efficient management.

Difference Table

	"E" SEIRES - PRESSURE METER	"t" SEIRES - DIGITAL VERSION	"W" SEIRES - PROFESSIONAL TYPE
1 Pressure Visualization	✓		
2 Cleaning Reminder		✓	✓
3 Block Interrupt		✓	✓
4 Overheat Protection	✓	✓	✓
5 Network Connection			✓
6 Monitoring System			✓
7 Maintenance Record			✓
8 Equipment Management			✓
9 Automatic Suction Adjustment			✓
10 Energy Management			✓

Oil Mist Air Cleaner



Low Carbon Footprint



Clean Air



Environmental Recycling



Pre-Filtration System

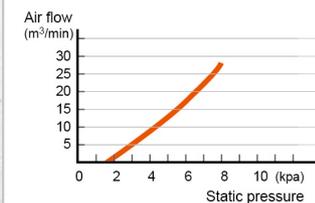
- Effective, low-drag pre-filter for air/oil separation
- Separates oil droplets from the air and returns 95% of the oil to the machine
- Stainless and washable

Unique Fan Design

- Unique fan design & efficient compact motor reduce energy consumption

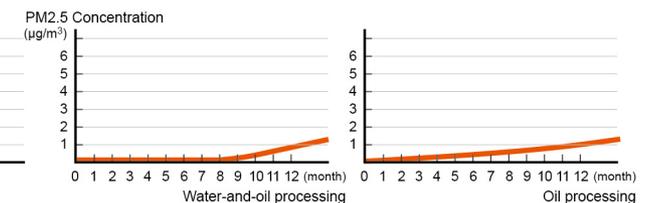
High Efficiency Air Filter

- European E11 HEPA-Standard
- Cylindrical, multi-layer design with increased filter surface area
- High density micro-fine fiberglass elements
- Efficiently removes up to 99.5% of PM2.5 particles
- Tool-free filter change



Suction volume graph of pre-filter

It is a KF-20E estimated result.



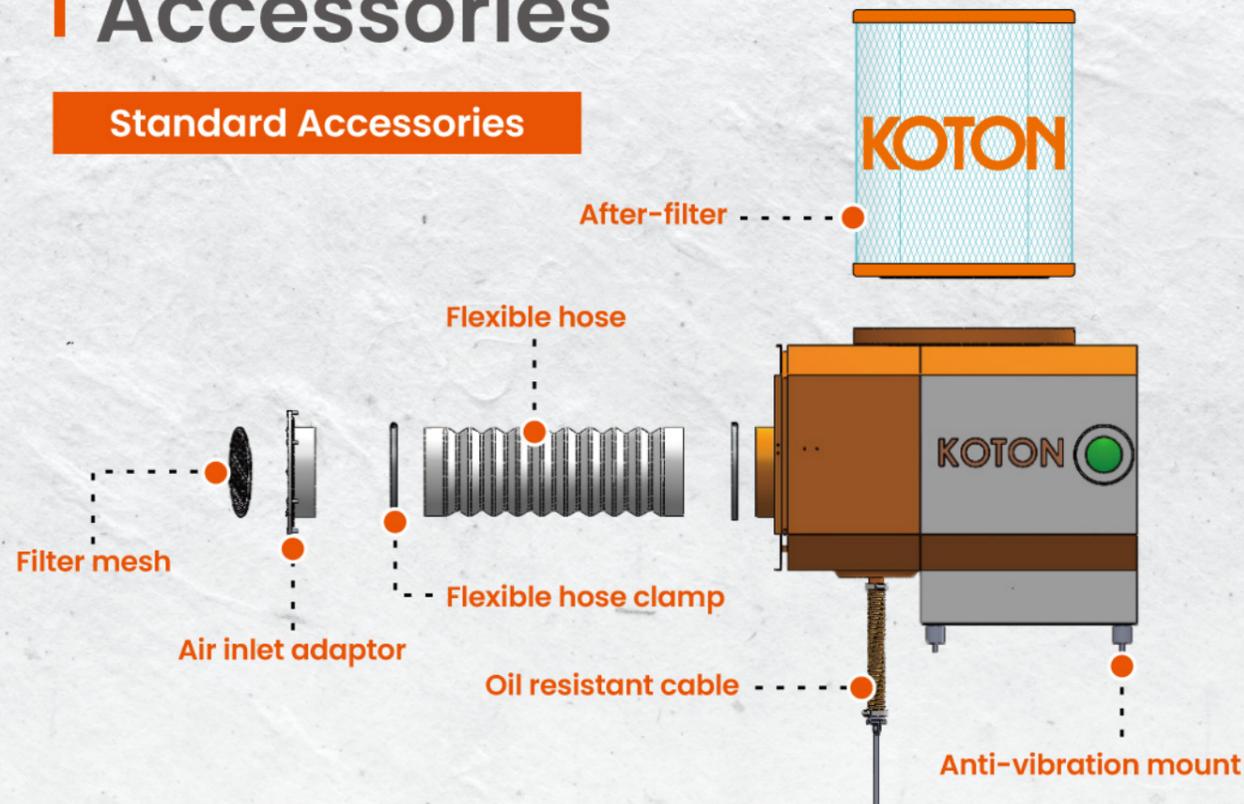
Filtrate PM2.5 graph of after-filter

Test conducted in the water-oil processing machine, after 8 months, PM2.5 is still 0.

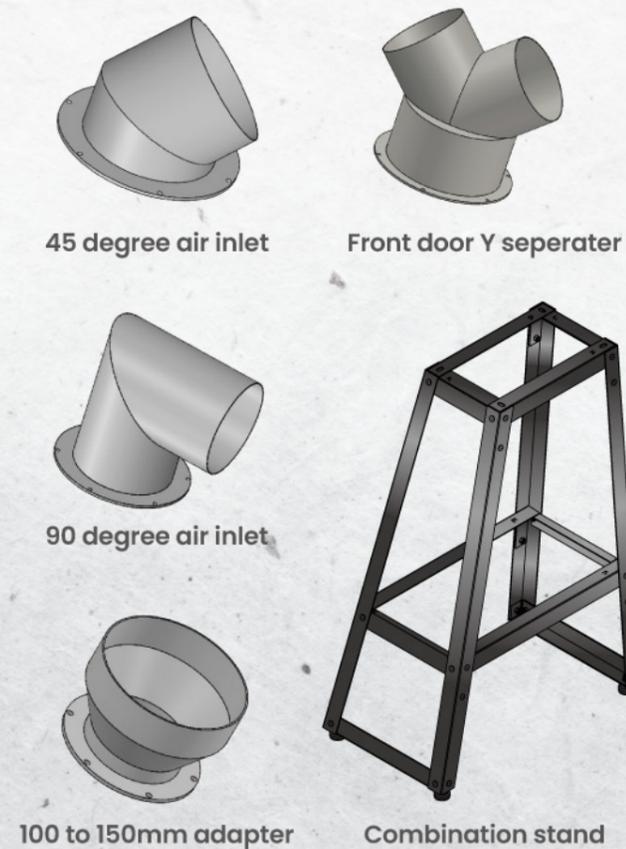
This is the result of testing in terms of KF-20E, all the reported data can be varied due to different delete conditions.

Accessories

Standard Accessories



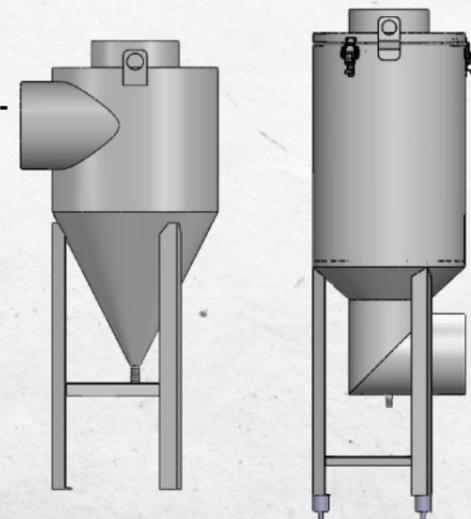
Optional Accessories



★ Cyclone Oil Drum system

Suggest using:

- With strong water or oil machining machine
- Iron filings should be more than oil-water



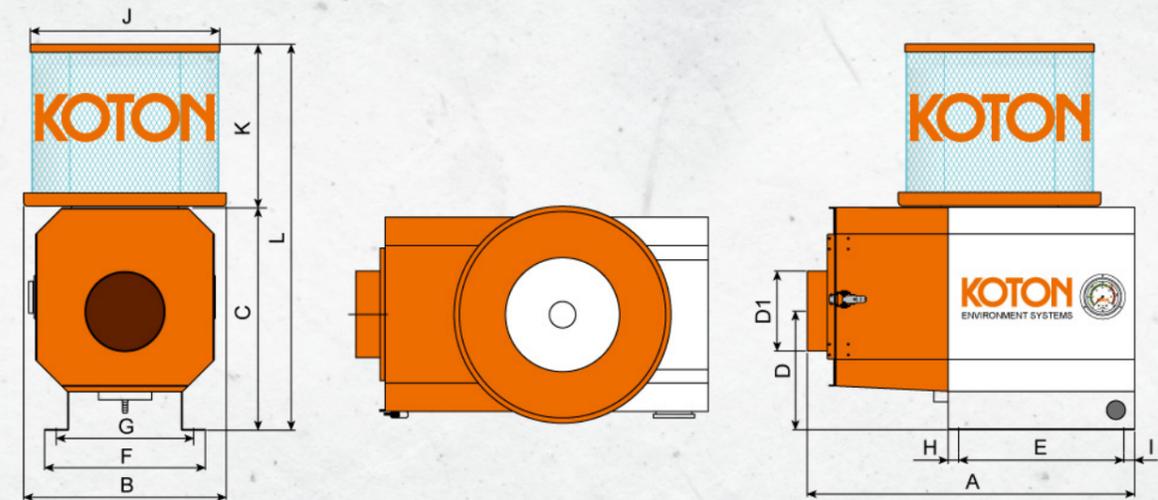
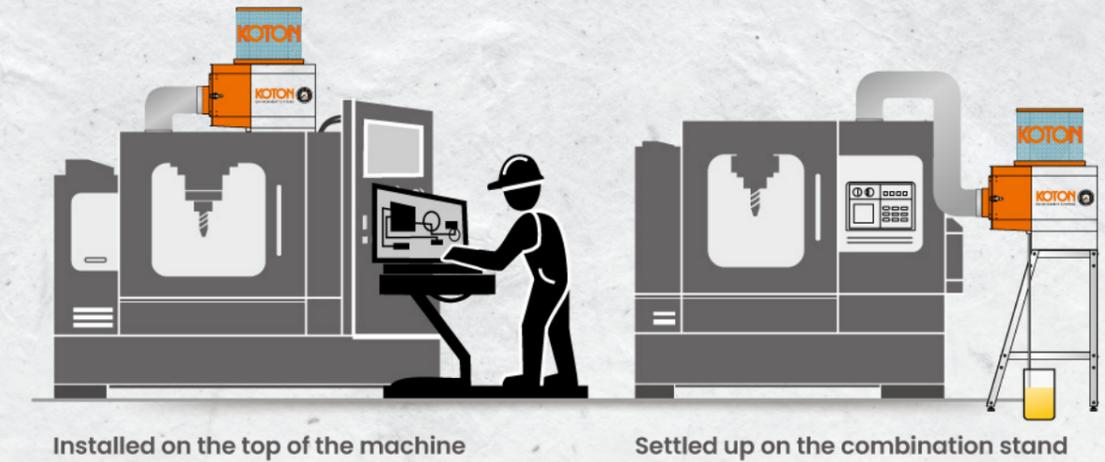
★ Ultrafine powder filter system

Suggest using:

- Those machines produced more iron powder during machining
- Dry machining machine, grinding machine

Installations

KOTON Oil Mist Air Cleaner requires limited space due to its simplicity and compactness of installation. The installation is subject to users' environments. The product can either be installed on the top of the machine or be settled on the telescopic stand.



MODEL	Power Source	Output (KW)	Airflow (50/60HZ) m ³ /min		Static Pressure (mmAq)	Operating Noise dp(A)	Collection Efficiency	Weight (Kg)	Suction Inlet Diameter
			w/o HEPA-Filter	w. HEPA-Filter					
KF-10 E/t/W	3-Phase AC380V or AC220V 50/60HZ	0.2	16.1/15	9.4/9	103/85	68/65	Up to 95% EU	48	Ø150
KF-20 E/t/W		0.4	18.3/18	10/11	134/149	75/71	55	Ø150	
KF-30 E/t/W		0.75	27/29	20/22	165/185	78/73	E11 Class	71	Ø150

MODEL	A	B	C	D	E	F	G	H	I	J	K	L
KF-10 E/t/W	621	369	435	253.5	295	209	162	25	25	Ø360	310	745
KF-20 E/t/W	646	369	464	253.5	310	234	187	25	25	Ø360	410	874
KF-30 E/t/W	750	450	513	279.3	363	284	237	30	35	Ø435	410	923

Unit:mm