

Leading Chinese Manufacturer of Eco-Friendly Dust Collection Equipment
Custom Air Pollution Filtration Solutions for Manufacturing Industries

LUMEIKE®

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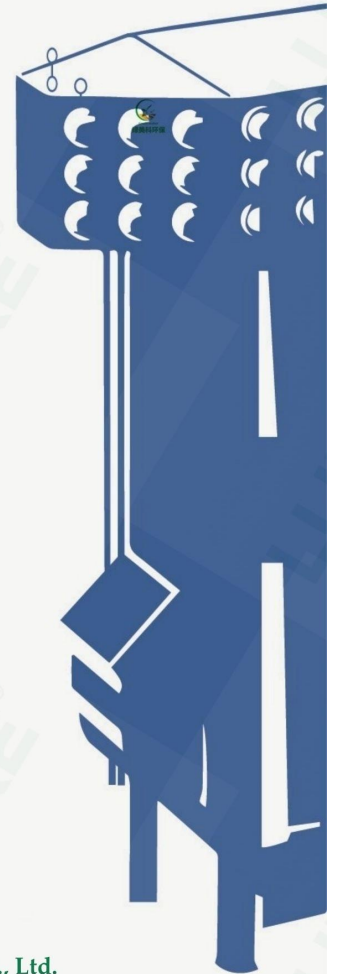
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Qingdao Lumeike Environmental Protection Technology Co., Ltd.



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ABOUT US



Headquartered in Qingdao, China, the global hub of advanced manufacturing, Lumeike Environmental Protection Technology is a dedicated manufacturer of high-performance industrial air pollution control equipment. We specialize in designing and producing cutting-edge solutions to safeguard workplace air quality and environmental health.

Our core expertise lies in: Welding Fume Extractors, Laser Fume Extractors, Oil Mist Collectors, and a comprehensive range of Industrial Dust Collectors. We understand the critical need for clean air across diverse industrial processes like metal fabrication, laser cutting, machining, and manufacturing. Our products effectively capture and filter harmful particulates, smoke, fumes, oil mist, and dust generated during these operations.

As a Chinese manufacturer, we offer distinct advantages:

Engineering Excellence & Cost Efficiency: Leveraging China's robust industrial ecosystem, we combine innovative engineering with competitive manufacturing, delivering exceptional value without compromising quality.

Customized Solutions: We recognize that every facility has unique challenges. Our team provides tailored filtration systems designed to meet specific airflow, space, and contaminant requirements.

Durability & Reliability: Built with high-quality components and rigorous quality control, our equipment ensures long-lasting performance in demanding industrial environments, minimizing downtime.

Commitment to Standards: Our solutions are engineered to meet stringent international air quality and workplace safety standards.

Lumeike Environmental Protection Technology is your trusted partner from China for reliable, efficient, and cost-effective air purification technology. We empower industries worldwide to achieve cleaner production and a healthier, more sustainable future. Explore our innovative range designed to solve your toughest air filtration challenges.

PILOT THE FUTURE



Corporate Philosophy



01 Business Philosophy

Pragmatic management and pursuit of excellence.

02 Cultural Concept

Keep Innovation and Share Wealth business philosophy.



03 Product Concept

Master the core technology to lead the technological life.



04 Vision Mission

To be a World-Class environmental .



Green-maker Environmental Protection Industrial Plant Flue Gas Purification Equipment



LMK-A Series Mobile Dust Purifier

LMK-A series stand-alone mobile purifier adopts advanced filtration technology, which provides a perfect solution for dealing with welding fumes. Specifically designed to capture welding fume, the mobile fume cleaner serves users who need to purify fume. The fume extractor captures welding fume at the point of generation before it enters the welder's breathing belt. The filter element further captures these harmful submicron particles on the surface of the nanofiber membrane, preventing them from being blown into the factory air in circulation. In order to meet the different installation location requirements of the factory, the mobile dust purifier can be divided into two types: with automatic dust removal and without automatic dust removal.

Place Of Use:

The fume purifier of our company is suitable for the purification of fume and dust generated in various welding (arc welding, carbon dioxide shielded welding, MAG welding, carbon arc gas welding, gas fusion cutting, special welding, etc.), polishing, cutting, grinding and other places. Recycling of rare metals and valuable materials, etc.g



Working Principle :

The smoke and dust generated during the production operation is sucked into the mobile welding fume purifier through the suction hood due to the gravity of the fan, and the large particles are separated and retained by the pre-filter filter arresting net. Particles and residual sparks are blocked, and the filtered smoke and dust enter the main filter element. The main filter element is made of imported coated polyester fiber material, and the filtration efficiency reaches 99.9%. The purified gas is further purified by the activated carbon layer filter cotton and then passes through the air outlet. Discharge.

Product Structure Features:

● **Filter Unit:** It consists of three parts: pre-filter layer, main filter layer and chemical filter layer. The pre-filter layer can absorb relatively large particles in the airflow to avoid premature blockage of the main filter layer: the main filter layer is a HEPA filter element, upright After installation, the high-efficiency filter material has a filtration efficiency of 99.9% for 0.3 micron particles, and the chemical filter element is generally an activated carbon layer, which can effectively absorb odors and harmful gases in the airflow, making the indoor air discharge up to standard.

● **Pulse Cleaning (Optional):** The pulse control system can automatically clean the filter barrel manually or at regular intervals. During cleaning, the electromagnetic pulse valve will be automatically opened sequentially and the high-pressure air will press the conical plunger and the inner arm of the filter. The gap between them completely and completely blows off the dust filtered on the surface of the filter bucket in an instant, and the dust falls into the ash collection bucket under the action of gravity.

● **Exhaust System:** adopts special imported turbine and motor centrifugal fan, advanced impeller design, large air volume, low power consumption, phase loss and overload protection, low failure rate, long service life, equipped with 2-3 meters long movable suction arm, stainless steel ring outer PVC coating material, high temperature resistance, the suction port can be moved to any position in the 24-meter three-dimensional space at will, easy to operate and use, horseshoe-shaped suction hood, large adsorption surface, and installed at the end Lighting lamp and throttle valve switch, good practicability.

● **Overall Structure:** the shell is molded with 2mm thick cold-rolled steel plate, modular design, electrostatic powder spraying, anti-rust, anti-corrosion, connecting parts are made of stainless steel hinges, durable, and the bottom is equipped with 5-inch polyurethane industrial casters, mobile Smart and convenient.

Product Features:

● **High Precision:** Using high-efficiency imported nanofiber source materials, polycrystalline coated liquid cylinder, fully meet the indoor emission standard GB1297-1996, indoor air can be circulated Avoid the waste of indoor cooling/heating energy caused by direct discharge.

● **Mobility:** Special new Korean-style universal casters with brakes are attached to facilitate the random movement and positioning of the equipment.

● **Pertinence:** Utilizing the 360° free-moving universal, the smoke can be sucked from the place where the smoke occurs, which greatly improves the collection rate of the smoke, and directly captures the dust from the operation at the source, in one step.

● **Wide Field:** By changing the filter material, it can be satisfied with the collection and treatment of various metal fume and industrial dust. Economical: Low investment for small and medium-sized factories, good effect.

● **Economical:** Low investment for small and medium-sized factories, good effect.

● **Safety:** The interior of the purifier adopts three protective measures against fire hazards and large particles of slag, and the motor adopts an anti-burnout overload circuit, which makes the purifier have a longer service life and is safer and more reliable.

LMK-AA Series Mobile Dust Purifier



Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/HZ)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	With Suction Arm
LMK-AA1200	1200	10	99.9	380/50	1.1	75±10	650*650*1200	Single Arm
LMK-AA1500	1500	12	99.9	380/50	1.5	75±10	650*650*1200	Single Arm
LMK-AA2400	2400	15	99.9	380/50	2.2	75±10	650*650*1200	Single Arm



LMK-AB Series Mobile Dust Purifier



Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/HZ)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	With Suction Arm
LMK-AB1200	1200	10	99.9	380/50	1.1	75±10	650*550*1250	Single Arm
LMK-AB1500	1500	12	99.9	380/50	1.5	75±10	650*550*1250	Single Arm
LMK-AB2400	2400	15	99.9	380/50	2.2	75±10	650*550*1250	Single Arm
LMK-AB3600	3600	20	99.9	380/50	3.0	80±10	650*550*1250	Single Arm/Double Arm



LMK-AC Series Mobile Dust Purifier



Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/HZ)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	With Suction Arm
LMK-AC1200	1200	10	99.9	220/50	1.1	70±10	650*500*1000	Single Arm
LMK-AC1500	1500	12	99.9	220/50	1.5	72±10	650*500*1000	Single Arm
LMK-AC2400	2400	15	99.9	220/50	2.2	72±10	650*500*1000	Single Arm



LMK-AD Series Mobile Dust Purifier



Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/HZ)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	With Suction Arm
LMK-AD2400	2400	16	99.9	380/50	2.2	75±10	900*800*1400	Single Arm / Double Arm
LMK-AD3600	3600	20	99.9	380/50	3.0	80±10	900*800*1400	Single Arm / Double Arm



LMK-BG Series Wall-Mounted Smoke And Dust Purifier

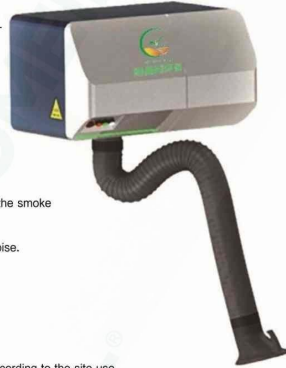
LMK-BG series wall-mounted stand-alone purifier is specially designed for capturing welding fumes, wall-mounted fume purifiers provide services for users who need to purify fume.



Product Structure Features:

- Utilizing the universal arm that can move freely at 360°, the smoke can be sucked from the place where the smoke occurs, which greatly improves the collection rate of the smoke and ensures the health of the workers.
- The clean air is discharged from the air outlet of the fan and then discharged through the muffler to reduce noise.
- The consumables in the purifier have stable performance and are easy to replace.
- The product has small size, low power and low energy consumption.
- The equipment is wall-mounted, which saves space and is easy to operate.
- Controlled by an external control box, the control box can be conveniently installed in a suitable position according to the site use.

Device Model	Handling Air Volume (m³/h)	Filter Area (m²)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	With Suction Arm
LMK-BG1500	1200	6	99.9	380/50	1.5	72±10	1150*700*600	Single Arm
LMK-BG2400	1500	6	99.9	380/50	2.2	75±10	1150*700*600	Single Arm / Double Arm
LMK-BG3500	2400	6	99.9	380/50	3.0	75±10	1300*800*700	Single Arm / Double Arm



LMK-BX Series Portable Smoke And Dust Purifier

LMK-BX series portable fume purifier is specially designed for capturing fume. The portable fume purifier can be carried to the working area, connected with vacuum welding torch and cutting and grinding kit.



Product Features:

- Energy-saving and environment-friendly fan with compact structure, strong suction, large air volume, high efficiency and low noise.
- Submicron filtering efficiency is high.
- The mouth is used for collecting and removing dust at a single dust generating point.
- Can be equipped with a variety of suction kits.

Device Model	Handling Air Volume (m³/h)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)	Accessory Kit
LMK-BX120	120	99.9	380/50	1.1	70±10	500*260*300	Suction Torch
LMK-BX160	160	99.9	380/50	1.2	75±10	500*260*300	Suction Torch



LMK-GF Series High Negative Pressure smoke And Dust Purifier

LMK-GF series high negative pressure fume purifier adopts advanced filtration technology, which provides a perfect solution for dealing with a series of fumes such as welding, cutting and grinding. Specially designed for capturing smoke and dust, the high negative pressure smoke dust purifier provides services for users who need to purify smoke and dust. Before the dust enters the human respiratory zone, the high negative pressure dust purifier can capture it at the point where the dust is produced. The filter element further captures these harmful submicron particles on the surface of the nanofiber membrane, preventing them from being recirculated and blown into the factory air.

In order to meet the process requirements of the factory, the high negative pressure dust purifier can be used with a variety of special collection tools.



Place Of Use:

This series of fume purifiers is suitable for the purification of fume and dust generated in various welding, polishing, cutting, grinding and other places, as well as the recovery of rare metals and valuable materials.

Working Principle :

Under the negative pressure of the fan, the dust-laden air enters the settling chamber from the air inlet through the pipe, and the airflow speed drops rapidly. The large and heavy particles of dust settle into the dust collecting hopper, and the fine dust is blocked in the dust collection hopper with the airflow through the filter cartridge. On the outer surface of the filter cartridge, the clean air flows into the clean room and is discharged from the air outlet after being silenced. When the pressure difference inside and outside the filter cartridge reaches the set value, the electromagnetic pulse valve opens, and the filter cartridge is blown to remove dust instantly without stopping the machine. After cleaning, the pressure difference becomes smaller, and the dust collector continues to maintain the dust collection state.

Product Features:

- Energy-saving and environment-friendly fan, compact structure, strong suction, large air volume, high efficiency, low noise.
- The filter cartridge is installed upright, the filter surface is uniform, the cleaning effect is good, the pulse is automatically controlled, and the production is not affected.
- The sub-micron filter has high filtration efficiency, various materials can be selected according to different dust, and the replacement cycle is long. For collection and dedusting of a single dust generation point.
- Can be equipped with various suction kits.

Device Model	Handling Air Volume (m³/h)	Filter Area (m²)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Noise (dBA)	Dimensions (L*W*H)
LMK-GF210	210	8	99.9	380/50	1.5	70±10	550*550*1150
LMK-GF300	300	8	99.9	380/50	3.0	72±10	620*600*1150



Suction torch



Suction torch head



Vacuum sanding kit



Vacuum sanding kit

LMK-GZ-A Series High Negative Pressure smoke And Dust Purifier

LMK-GZ-A series high negative pressure fume purifier adopts advanced filtration technology, which provides a perfect solution for dealing with a series of fumes such as welding, cutting and grinding. Specially designed for capturing smoke and dust, the high negative pressure smoke dust purifier provides services for users who need to purify smoke and dust. Before the dust enters the breathing zone of the human body, the high negative pressure dust purifier can capture it at the point where the dust is produced. The filter element further captures these harmful submicron particles on the surface of the nanofiber membrane, preventing them from being recirculated and blown into the factory air. In order to meet the needs of the factory process, the high negative pressure dust purifier can be equipped with a variety of special collection tools.



Place Of Use:

This series of fume purifier is suitable for the purification of fume and dust generated in various welding, polishing, cutting, grinding and other places, as well as the recovery of rare metals and precious materials.

Working Principle :

Under the negative pressure of the fan, the dust-laden air enters the settling chamber from the air inlet through the pipe, and the airflow speed drops rapidly. The large and heavy particles of dust settle into the dust collecting hopper, and the fine dust is blocked in the dust collection hopper with the airflow through the filter cartridge. On the outer surface of the filter cartridge, the clean air flows into the clean room and is discharged from the air outlet after being silenced. When the pressure difference inside and outside the filter cartridge reaches the set value, the electromagnetic pulse valve opens, and the filter cartridge is blown to remove dust instantly without stopping the machine. After cleaning, the pressure difference becomes smaller, and the dust collector continues to maintain the dust collection state.

Product Features:

- The cabinet body occupies a small area, and the modular design can be combined to achieve greater air volume.
- Energy-saving and environment-friendly fan with compact structure, strong suction, large air volume, high efficiency and low noise.
- The filter cartridge is installed upright, the filter surface is uniform, the cleaning effect is good, the pulse is automatically controlled, and the production is not affected.
- The sub-micron filter cartridge has high filtration efficiency, various materials can be selected according to different dust, and the replacement cycle is long.
- It is suitable for the collection of high temperature, high abrasive, viscous, dry and wet dust, and has a wide range of applications.
- It is used for collecting and removing dust from single or multiple dust generating points.

Device Model	Handling Air Volume (m³/h)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Maximum Attraction (Pa)	Dimensions (L*W*H)
LMK-GZ-A 350	350	99.9	380/50	2.2	23000	1400*720*1500
LMK-GZ-A 550	550	99.9	380/50	7.5	40000	1600*720*1600
LMK-GZ-A 1200	1200	99.9	380/50	18.5	30000	1850*970*1750

LMK-GZ-B Series High Negative Pressure smoke And Dust Purifier

LMK-GZ-B series high negative pressure fume purifier adopts advanced filtration technology, which provides a perfect solution for dealing with a series of fumes such as welding, cutting and grinding. Specially designed to capture high levels of soot.



Place Of Use:

This series of fume purifiers is suitable for the purification of fume and dust generated in various welding, polishing, cutting, grinding and other places, as well as the recovery of rare metals and valuable materials.

Device Model	LMK-GZ-B 1600	LMK-GZ-B 2000	LMK-GZ-B 2500	LMK-GZ-B 3200
Handling Air Volume (m³/h)	1600	2000	2500	3200
Filtration Efficiency (%)	99.9	99.9	99.9	99.9
Air Outlet Size	φ150	φ200	φ200	φ250



After use



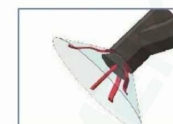
Before use



Special kit for robot welding



Special kit for robot welding



Collection diagram



Special kit for robot welding

LMK-STC Series-Laser (Cutting) MatchingDust Collector



Device Model	LMK-STC750S	LMK-STC750
Product Type	Standard Type	Energy-Efficient
Dimensions (L*W*H)	1320*900*2300	1320*900*2300
Motor Brand	SIEMENS	Hongqi/Dasu
Fan Power (KW)	7.5	7.5
Handling Air Volume(m³/h)	5000-8000	5000-8000
Control System	PLC Touch Screen	-
Energy-Saving Frequency Conversion	√	-
Remote Control	√	-
Automatic Cleaning	√	√
Cartridge Specifications	324*800	324*800
Filter Number	6	6
Filter Area(m²)	120	120
Equipment Noise	75±5	75±5



Powerful Dust Removal



Noise Mute



Smart Touch Screen Control



Energy Saving And Environmental Protection

Application Place:

- Laser, plasma, flame cutting, etc.
- Metal welding, cutting, grinding, etc.
- Other dust (please consult).
- Indoor and outdoor installable exhaust.
- Dust removal system engineering.

Product Configuration:

- PTFE membrane/nanofiber high-efficiency filtration technology.
- Anti-static flame retardant process.
- Intelligent PLC touch screen control.
- remote control system
- Energy-saving frequency conversion system (optional)
- Appearance color (standard/optional)

Product Advantages:

- Air volume up to 5000m³/h or more.
- Comes with forklift and lifting lugs.
- Efficient spark arrestor.
- Intelligent filter self-cleaning.
- Optional energy-saving frequency conversion system.
- Honeycomb noise reduction design.

LMK-YT Series Filter Cartridge Dust Removal Machine

LMK-YT series fume and dust purification all-in-one machine has a collection design, which provides a perfect solution for dealing with all kinds of fume and dust.

The smoke and dust purification all-in-one machine has a compact and reasonable structure design, and adopts a built-in fan structure. The small footprint can be placed indoors or outdoors. YEI series smoke and dust purification all-in-one machine can be equipped with a variety of collection devices to collect and process the smoke and dust generated by large-scale welding and grinding, welding centers, and robot welding production lines. We can design the best fume capture device and piping system according to the customer's different site conditions.



Product Features:

- A deflector is set at the air inlet of the all-in-one machine to prevent dust from directly impacting the filter element, thereby prolonging the service life of the filter element.
- The fan adopts a high-efficiency centrifugal fan, which has the characteristics of high efficiency and stable operation.
- In order to prevent noise pollution, noise reduction treatment is adopted for fans.
- Compact structure, small footprint, continuous connection and multi-station operation at the same time.
- The filter media can be selected according to the nature of the dust controlled by the user to meet the removal of dust of different nature.
- The filter cartridge has long service life, stable performance and easy replacement.
- Equipped with a new low-noise fan, the suction volume remains the same, but the noise is lower. It can protect the physical and mental health of the operator.
- Pulse blowback automatic dust removal can ensure that the equipment is always in good working condition.
- The dust collection bucket is collected to ensure fast and convenient ash dumping.

Device Model	Handling Air Volume (m³/h)	Filter Area (m²)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Dimensions (L*W*H)
LMK-YT-3	2200-3000	26	99.9	380/50	3	1300*1100*1700
LMK-YT-5.5	3500-4500	39	99.9	380/50	5.5	1300*1100*1700
LMK-YT-5.5S	4800-6500	52	99.9	380/50	5.5	1600*1100*1700
LMK-YT-7.5	7500-8600	78	99.9	380/50	7.5	2250*2077*1720/1400
LMK-YT-11	8500-9750	97.5	99.9	380/50	11	2950*2077*1720/1400

The LMK-YTD series fume and dust purification all-in-one machine adopts an integrated design, which provides a perfect solution for dealing with all kinds of fume and dust.

The smoke and dust purification all-in-one machine has a compact and reasonable structure design, and adopts a built-in fan structure. The floor space is small and can be placed indoors or outdoors. YE II series fume and dust purification all-in-one machine can be equipped with a variety of collection devices to collect the fume and dust generated by large-scale welding, grinding, welding centers, robot welding production lines, plasma, and laser cutting production lines. We can design the best fume capture device and piping system according to the customer's different site conditions.



Filter Element



Pulse Backflush Cleaning



Maximum Air Volume



Fine Particles



Emissions Meet Standards



Device Model	Handling Air Volume (m³/h)	Filter Area (m²)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Dimensions (L*W*H)
LMK-YT-4D	2000-3000	28	99.9	380/50	4.0	1370*1910*1510
LMK-YT-5.5D	3000-5000	56	99.9	380/50	5.5	1370*1910*1930
LMK-YT-7.5D	5000-8000	84	99.9	380/50	5.5	1370*1910*2350
LMK-YT-11D	8000-12000	126	99.9	380/50	11	1790*1910*2350
LMK-YT-15D	12000-15000	168	99.9	380/50	15	1790*1910*2770

LMK-DM Series Grinding And Dust Removal Workbench

LMK-DM series grinding table is used in various welding, polishing, grinding, plasma cutting and other processes. It is an indispensable equipment for workpiece grinding before and after welding. The filtration efficiency can reach 99.9%, and at the same time, it can ensure a very high air flow.



Working Principle :

The smoke and dust enter the purifier through the negative pressure generated by the fan through the side exhaust port and the lower exhaust port, and the air flow enters the diversion channel. After the large particle dust collides with the deflector plate, the large particle dust falls into the ash collection drawer under the action of gravity. Dust containing fine particles enters the filter chamber, and the dust-laden gas passes through the filter element from the outer surface of the filter bag, and the dust is blocked by the filter element on its surface. The filter element can also be cleaned by pulse jetting, so that the dust particles deposited on the filter element will break away from the surface of the filter element and fall into the dust collection drawer under the action of vibration, so that the entire surface of the filter element is cleaned, and the purified air is blown by the wind. Road, discharged by the fan. The unique desktop design is perfect, built-in dust removal system, fan sound insulation, no pipeline connection, the cleaned air can be discharged indoors, reducing energy costs. This kind of workbench can effectively capture fine suspended dust without interfering with the movement and vision of workers. It is an ideal choice for medium and small fine processing and irregular parts. It can be connected with a special fume purifier or with a central fume system.

Product Features:

- A deflector is set at the air inlet of the exhaust workbench to prevent the dust from directly impacting the filter element, thereby prolonging the service life of the filter element.
- The fan adopts a high-efficiency centrifugal fan, which has the characteristics of high efficiency and stable operation.
- In order to prevent noise pollution, noise reduction treatment is adopted for fans.
- Compact structure, small footprint, double-station or multi-station operation at the same time.
- The filter media can be selected according to the nature of the dust controlled by the user to meet the removal of dust of different nature.
- The filter cartridge has long service life, stable performance and easy replacement.
- There are air suction ports on the bottom, front and top of the workbench, which can effectively control the scattering of dust.
- Pulse blowback automatic dust removal can ensure that the equipment is always in good working condition.
- Equipped with a new low-noise fan, the suction volume remains the same, but the noise is lower. It can protect the physical and mental health of the operator.
- The drawer-type dust collection box ensures fast and convenient ash dumping.



Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Dimensions (L*W*H)
LMK-DM3000	2000-3000	24	99.9	380/50	2.2	1300*1250*1700
LMK-DM4000	3000-4000	36	99.9	380/50	3.0	1300*1250*1700
LMK-DM5000	4000-5000	48	99.9	380/50	4.0	1600*1250*1700
LMK-DM6000	5000-6000	60	99.9	380/50	5.5	2200*1250*1700
LMK-DM3000S	2000-3000	24	99.9	380/50	2.2	2000*1000*800
LMK-DM4000S	3000-4000	36	99.9	380/50	3.0	2200*1200*800
LMK-DM5000S	4000-5000	48	99.9	380/50	2*2.2	2200*1050*1500
LMK-DM6000S	5000-6000	60	99.9	380/50	2*4.0	2200*1200*1500

LMK-ZT Series Modular Dust Collector

LMK-ZT series modular dust collector is a vertical cabinet type body, which adopts filter cartridge type filtration, and is composed of ash collection section, filter section, fan section, pulse cleaning section, electrical control device and other parts. Mainly used for grinding, polishing, polishing, welding, sandblasting, sand cleaning, powder batching and powder coating and other types of processing workshops, supporting dust removal or separate equipment for grinding rooms.



Product Features:

- Common configuration, modular design can be combined to meet the requirements of various working conditions.
- Directly collect dust at the source side ventilation, the effect is more significant, and there is no worry about dust escape.
- The labyrinth separator filters out large particles of dust and protects the filter cartridge from the frontal impact of the airflow.
- Energy-saving and environment-friendly fan with compact structure, strong suction, large air volume, high efficiency and low noise.
- The filter cartridge is installed upright, and the cleaning effect is good. The pulse is automatically controlled and does not affect the production.
- The sub-micron filter cartridge has high filtration efficiency, various materials can be selected according to different dust, and the replacement cycle is long.
- It is used for collecting and removing dust from single or multiple dust generating points.

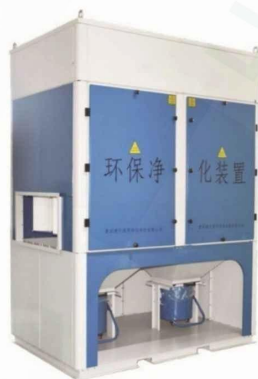
Working Principle :

Under the negative pressure of the fan, the dust-laden air enters the settling chamber from the air inlet, and the airflow speed drops rapidly. The large and heavy particles of dust settle into the dust collecting hopper, and the fine dust is trapped in the filter when it passes through the filter cartridge with the airflow. Clean air flows into the clean room through the outer surface, and is discharged from the air outlet after being silenced. When the pressure difference inside and outside the filter cartridge reaches the set value, the electromagnetic pulse valve opens, and the filter cartridge is blown to remove dust instantly without stopping the machine. After cleaning, the pressure difference becomes smaller, and the dust collector continues to maintain the dust collection state.

Device Model	Handling Air Volume (m³/h)	Filter Area (㎡)	Filtration Efficiency (%)	Voltage (V/Hz)	Power (KW)	Dimensions (L*W*H)
LMK-ZT5000	5000	4	99.9	380/50	5.5	1200*1200*2800
LMK-ZT7000	7000	6	99.9	380/50	5.5	1800*1200*2800
LMK-ZT9000	9000	8	99.9	380/50	7.5	2400*1200*2800
LMK-ZT12000	12000	12	99.9	380/50	15	2400*1800*2800

LMK-MK Series Modular Filter Cartridge Dust Collector

LMK-MK series split type smoke and dust purification unit provides a perfect solution for dealing with all kinds of smoke and dust. The split type smoke dust purification unit has a compact and reasonable structure design, large air volume, and can be placed indoors or outdoors; the PE series split type smoke dust purification machine and fan adopt a split type combination, and can be equipped with a variety of collection devices for large welding, grinding and cutting. The dust generated by the blanking production line is collected and processed. We can according to customer. Design the best smoke and dust capture device and piping system for different on-site working conditions.



Place Of Use:

This series of fume purifiers are suitable for the purification of fume and dust generated in various welding (arc welding, carbon dioxide shielded welding, MAG welding, carbon arc gas welding, gas fusion cutting, special welding, etc.), polishing, cutting, grinding and other places. Recycling of rare metals and valuable materials, etc.

Device Model	LMK-MK-12	LMK-MK-16	LMK-MK-20	LMK-MK-24	LMK-MK-32	LMK-MK-40	LMK-MK-48	LMK-MK-60
Handling Air Volume (m³/h)	12000-15000	16000-20000	21000-25000	24000-30000	32000-40000	41000-48000	50000-57000	60000-70000
Filtration Efficiency (%)	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Solenoid Valve Specifications	DMF-T-40	DMF-T-40	DMF-T-40	DMF-T-40	DMF-T-40	DMF-T-40	DMF-T-40	DMF-T-40
Number of Solenoid Valves	6	8	10	12	16	20	24	30
Cartridge Quantity	12	16	20	24	32	40	48	60
Dimensions (L*W*H)	1960*1362*2770	1960*1960*2770	1960*1960*2770	3920*1362*2770	3920*1960*2770	3920*1960*2770	5880*1960*2770	5880*1960*2770

LMK-ZX Self-Circulation Purification Machine

The way LMK-ZX series ventilation and purification hosts treat welding fume is: a large amount of air purified by high-efficiency filter cartridges is sent down from the top of the equipment, and the two suction ports at the bottom of the equipment form a traditional air-conditioning layer that is sent up and down. The airflow organization method of air supply is especially suitable for the control of welding fumes of large workpieces. The advantage is that there are no pipelines, and the host location can be flexibly selected according to the site, which can greatly reduce the heating and cooling costs in summer and winter.



Place Of Use:

This series of fume purifiers are suitable for the purification of fume and dust generated in various welding (arc welding, carbon dioxide shielded welding, MAG welding, carbon arc gouging welding, gas fusion cutting, special welding, etc.), polishing, cutting, grinding and other places, as well as for cleaning Rare metals, recovery of valuable materials, etc.

Product Features:

- Equipped with a dedicated fan, using an anti-overload circuit to prevent the motor from burning out, with high safety and stable working performance.
- Automatic dust removal: The filter element adopts an all-round automatic back-blowing dust removal method, which makes the dust removal on the surface of the filter element more thorough and clean, and can always ensure that the dust collector has a constant suction volume: the air compressor part is connected by a high-pressure rubber hose, and the bottom high-pressure air intake, which can ensure that the purifier is always in good working condition.
- The filter cartridge is made of imported materials, has a long service life, can absorb 0.3um dust particles, and has a good filtering effect on wet and sticky dust.
- The entrance of the ventilation and purification air-conditioning unit is equipped with a spark-catching metal mesh, which can effectively prevent sparks from damaging the filter cartridge of the dust collector.
- The entrance of the ventilation and purification air conditioning unit is equipped with an electric ventilation diffuser, which is controlled by PLC, and the ventilation direction can be adjusted according to the position of the flue gas flow.
- The outlet of the ventilation and purification air-conditioning unit is equipped with a spherical nozzle, and the jet distance can reach 10 meters, effectively covering the purification area of the workshop.
- The outlet of the ventilation and purification air-conditioning unit is equipped with a water vapor heat exchange system. PLC can automatically adjust the temperature of the outlet airflow according to the temperature of the workshop. The heat source in winter is steam or hot water from the heating pipe, and the cold source in summer is underground cold water.
- Ventilation and purification air conditioning units cover a large area, 15000m³/h air volume equipment can cover 150-300m², 20000m³/h air volume equipment can cover 200-400m², 30000m³/h air volume equipment can cover 300-500m². The consumables in the purifier have stable performance and are easy to replace.

Device Model	LMK-ZX-15	LMK-ZX-18.5	LMK-ZX-22	LMK-ZX-30
Handling Air Volume (m³/h)	15000	20000	25000	30000
Filtration Efficiency (%)	99.9	99.9	99.9	99.9
Power (KW)	15	18.5	22	30
Voltage (V/Hz)	380/50	380/50	380/50	380/50
Dimensions (L*W*H)	2200*2000*6200	2500*2000*6500	2900*2000*6500	2900*2000*6500

LMK-Environmental Protection Industrial Oil Mist Purifier

The oil mist enters the filter chamber from the suction port and is adsorbed on the gas-liquid sintered mesh. After being aggregated and combined, it falls and sinks to the bottom under the action of gravity, and is discharged to the oil tank through the oil discharge pipe to be collected. The remaining small part of the oil mist is completely absorbed by the special primary filter felt at the outlet of the filter chamber, and the same is collected into the oil tank. The smelly air discharged from the air outlet is absorbed by the activated carbon in the muffler to eliminate the clean air and discharge it to the workshop for recycling.

This product is designed as a three-stage filter. The first-stage filter uses gas-liquid sintered mesh covered with PTFE membrane (polytetrafluoroethylene), which has a smooth surface and strong oil absorption, and can be used for repeated cleaning; the second-stage filter is a special primary filter felt. The third level is a high-efficiency activated carbon layer to remove odors. The whole machine is beautiful in appearance, easy to install and use, and the effect of removing oil fume is obvious.



Device Model	LMK-GY1500	LMK-GY2400
Handling Air Volume (m³/h)	1500	2400
Filtration Efficiency (%)	99.9	99.9
Power (KW)	1.5	2.2
Voltage (V/Hz)	380/50	380/50
Dimensions (L*W*H)	850*600*600	1100*650*800

LMK-XX Series Electrostatic Lampblack Purifier

The cyclone dust collector is the preprocessor of the dust removal device. The design is reasonable, the structure is simple, and the axial entry type is adopted. The air flow is evenly distributed. There is a helical bypass separation chamber outside the cylinder of the cyclone dust collector. The dust-laden air enters the cylinder tangentially and forms a spiral airflow. It moves downward along the cylinder wall and the bypass separation chamber, and the dust is separated due to centrifugal force. It is used to remove dry non-fibrous dust with high density, and the dust removal efficiency can reach 85~95%. It is suitable for industries such as smelting, casting sandblasting, building materials and refractory materials, and can also be used for the collection of relatively coarse materials and a part of the dust removal system. level dust removal.



Product Features:

- It is suitable for use as primary or pre-filter, and it has high efficiency in collecting and separating dust above 5~10µm.
- The resistance of the equipment is small, the processing air volume is large, and the performance is stable.
- Small footprint, simple structure, easy installation and maintenance.
- Automatic ash unloading, gate valve ash unloading.

Device Model	Handling Air Volume (m³/h)	Equipment Specification (Diameter*Height)
LMK-XN-3000	2000-3000	φ700*2600
LMK-XN-5000	3000-5000	φ800*2800
LMK-XN-8000	5000-8000	φ900*3000
LMK-XN-12000	8000-12000	φ1000*3200
LMK-XN-15000	12000-15000	φ1100*3300
LMK-XN-20000	15000-20000	φ1200*3500
LMK-XN-25000	20000-25000	φ1300*3700
LMK-XN-32000	25000-32000	φ1500*4000

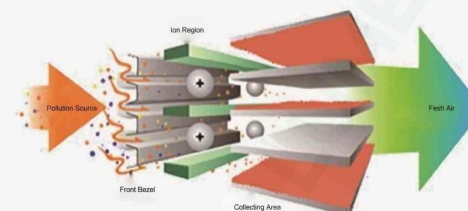
LMK-XX Series Electrostatic Lampblack Purifier

The oil fume purifier adopts the combination of DC superimposed pulse plasma power supply and electric field of toothed plate structure to generate corona discharge to obtain high-energy plasma. Under the action of the plasma electric field, the oil fumes instantly condense small oil droplets into large oil droplets, which are collected on the oil collecting plate and settle into the oil collecting tank under the bombardment of plasma. At the same time, most of the um-level oil mist particles VOC, organic substances, oily burnt, spicy and other odors in the oil fume exhaust gas are degraded by the plasma, thus ensuring a high oil fume purification rate and odor degradation of the oil fume purifier. Rate.



Product Features:

- Small size: The purifier is small in size and light in weight, which is convenient for installation and transportation.
- Low noise: The noise generated by the oil fume purifier during operation is negligible.
- Low resistance: Plasma treatment is used to reduce resistance and save operating costs.
- Drawer type: The electric field drawer design at the plasma is convenient for maintenance and cleaning.
- Three seals: The machine uses three seals to prevent oil leakage.



Device Model	Handling Air Volume (m³/h)	Dimensions (L*W*H)	Air Outlet Size (W*H)	Weight (KG)
LMK-XX-2000	2000	480*605*600	400*400	35
LMK-XX-4000	4000	650*605*600	400*400	50
LMK-XX-6000	6000	650*705*700	500*500	70
LMK-XX-8000	8000	810*705*700	500*500	80
LMK-XX-10000	10000	800*880*740	690*560	95
LMK-XX-12000	12000	800*970*740	780*560	110
LMK-XX-14000	14000	800*1000*860	790*560	140
LMK-XX-16000	16000	800*1000*960	790*750	150
LMK-XX-18000	18000	900*900*1200	700*1000	165
LMK-XX-20000	20000	900*1000*1200	790*1000	200

LMK-Environmental Protection Air Box Bag Filter

Product Features:

- The dust collector adopts the chamber-stop air pulse jet dust removal technology, which overcomes the shortcomings of the conventional pulse bag filter and the chamber back-blowing dust collector. It has strong dust removal ability, high dust removal efficiency, low emission concentration, small air leakage rate and low energy consumption. , less steel consumption, less floor space, stable and reliable operation, and good economic benefits
- Due to the use of separate chambers to stop the wind and pulse jet cleaning, the purpose of completely cleaning dust can be achieved by spraying once, so the cleaning cycle is prolonged, the energy consumption of dust cleaning is reduced, and the compressed air consumption can be greatly reduced.
- At the same time, the fatigue degree of the dust filter bag and the pulse valve is also reduced correspondingly, thereby doubling the efficiency of the filter bag.
- Maintenance and replacement of bags can be carried out in different rooms under the condition of non-stop system fan and normal system operation. The bag mouth of the filter bag adopts elastic expansion ring, which has good sealing performance and is firm and reliable. The keel of the filter bag adopts a polygonal shape to reduce the friction between the bag and the keel, prolonging the life of the dust bag and facilitate the removal of the bag.
- Adopting the upper bag pumping method, after the skeleton is pulled out when changing the bag, the dirty bag is put into the ash hopper at the lower part of the box and taken out from the manhole, which improves the operating conditions of bag changing. The box body adopts airtight design, which has good sealing performance, and the inspection door uses excellent sealing materials. During the production process, kerosene is used to detect leaks, and the air leakage rate is extremely low.
- The inlet and outlet air ducts are compactly arranged, and the airflow resistance is small.



Device Model	Handling Air Volume (m³/h)	Filtration Speed (m/min)	Filter Area (㎡)	Number Of Filter Bags (Ind/Bag)	Resistance (Pa)	Dust Concentration (g/m³)	Insulation Layer Area (㎡)	Weight (KG)
HM52-3	6900	1.2-2.0	93	96	1470-1770	<1000	26.5	2,880
HM52-4	8930		124	128			34	4,080
HM52-5	11160		155	160			41	5,280
HM52-6	13390		186	192			48.5	6,480
HM64-4	17800		248	256			70	7,280
HM64-5	22300		310	320			94	9,960
HM64-6	26700		372	384			118	11,640
HM64-7	31200		434	448			142	13,320
HM64-8	35700		496	512			166	15,000
HM96-4	26800		372	384		<1300	110	10,452
HM96-5	33400		465	480			120	12,120
HM96-6	40100		557	576			130	14,880
HM96-7	46800		650	672			140	16,920
HM96-8	53510		744	768			150	19,810
HM96-9	60100		836	864			160	21,240
HM96-25	66900		929	960			175	25,200

LMK-Universal Suction Arm For Equipment

The flexible suction arm for LMK-NZ type equipment is matched with the corresponding welding fume purification equipment. It is suitable for the collection of source emissions of welding fume, exhaust gas, dust, oil mist, oil fume and other waste gas produced in various industries such as machinery, food, pharmaceutical, chemical, electronics, and automobile. Placed on the device, it can hover anywhere in the three-dimensional space by itself.

The outer skin of the LMK universal suction arm is made of imported PVC hose that is resistant to acid and alkali and high temperature of 15 degrees Celsius. The internal components and the cover bracket are made of stainless steel.

Its good stretching and hovering characteristics can not only be used with various types of welding fume purifiers and dust collectors, but also can be directly installed on the wall or system to cooperate with pipelines for the discharge of fume gas.

The inner wall and bracket of the all stainless steel cover will never rust. Corrosion resistance, acid, alkali and salt resistance, high temperature resistance, light weight, high strength, with power-assisted device, labor-saving operation, and free hovering. The suction arm is widely used in metal processing, welding fume, workpiece grinding, thermal processing oil mist treatment, odor removal and dust removal and other industries.

Cover opening fire net; work spotlight; light, smoke, temperature sensor probe. Cover mouth fireproof net, work spotlights; light, smoke, temperature sensor probes.

1. The standard length of the suction arm is 2 meters, 3 meters, 3.5 meters, 4 meters
2. The standard diameter of the suction pipe is: 150mm 160mm.
3. Lightweight and convenient, flexible rotation. Omni-directional and multi-angle accurate positioning, free to hover for work.
4. Easy to disassemble and clean.
5. The wall pipe is made of acid and alkali corrosion resistant, high temperature resistant and negative pressure special imported hose. The pipe wall is smooth, the wind speed is high, and the service life is long.
6. The suction port is equipped with an air volume regulating valve, which can freely adjust the air volume according to actual needs.



LMK-Wall-Mounted Universal Suction Arm

LMK-NZ type: flexible suction arm for environmental protection system | flexible suction arm for engineering | wall-mounted suction arm | pipe-mounted suction arm Collection of source emissions of waste gas such as smoke, exhaust gas, dust, oil mist, oil fume, etc. The suction arm can hover at any position in the three-dimensional space by itself and is placed at the front end of the engineering system.

1. The standard length of the suction arm is 2 meters or 3 meters, and it can be made into 1.5 meters or 4 meters according to the special requirements of customers.
2. The standard caliber of the suction pipe is: 150mm 160mm, 100mm, 175mm, 200mm can be customized.
3. Lightweight and convenient, flexible rotation. Omni-directional and multi-angle accurate positioning, free to hover for work.
4. Easy to disassemble and clean.
5. The wall pipe is made of acid and alkali corrosion resistant, high temperature resistant and negative pressure special imported hose. The pipe wall is smooth, the wind speed is high, and the service life is long.
6. The suction port is equipped with an air volume regulating valve, which can freely adjust the air volume according to actual needs.

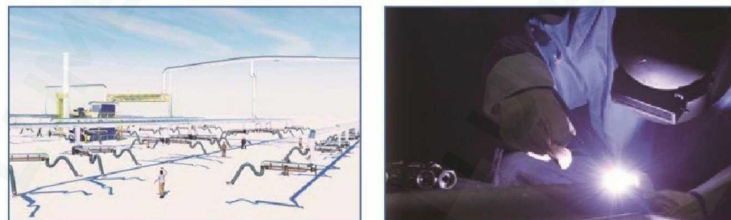


LMK-Extension Rod Suction Arm

The LMK-NC extended suction arm is a combination of metal swivel arm and suction arm, which can radiate a larger working radius. The standard length of the metal jib extending the suction arm is 2m, 3m and 4m, and can also be customized according to customer needs. By combining with flexible suction arm or rigid suction arm, a larger working radius can be achieved. At present, the longest length we provide to customers can reach 11m (7m extension arm + 4m flexible suction arm). The metal cantilever is made of high-quality steel. Through special fixtures, the entire steel structure has small deformation and high precision during the production process. The entire extension arm has good rigidity and balance, and the rotation angle can reach 180 degrees, and the rotation is smooth and light. Adjustable tightness at the end of the cantilever arm to match the length ratio of different metal cantilever arms to the suction arm to adjust the tightness requirements. The design of the 180-degree metal swivel arm end and the suction arm connection can meet the 360-degree rotation of the suction arm, making the whole set of extended suction arm have a larger movable space.



Green-maker Centralized Welding FumePurification System



Composition of multi-station central welding fume purification system

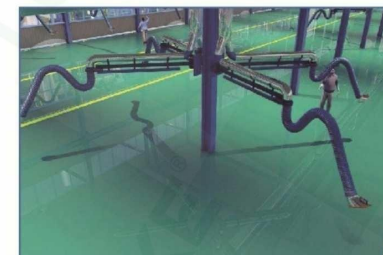
The central smoke and dust purification system is composed of a vacuum fan, a purification host, a control system, a vacuum pipeline, purification accessories, and vacuum operation components. The dust collection fan and the purification host are selected according to the specific requirements to be fulfilled by the central dust collection system. Specifically, it includes the diameter and length of the dust collection pipeline, the maximum and minimum number of simultaneous operators of the system, the physical and chemical properties of the material to be sucked, the environment of the host and the system, and other factors.

Process Flow Of Centralized Welding Fume Purification System

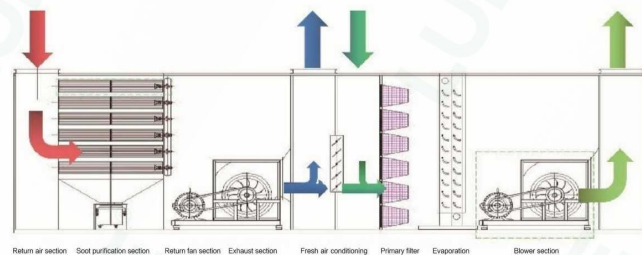


The smoke and dust generated in the workshop is captured and collected instantly by the trapping device, and enters the dust collector through the main pipe with gradually changing diameter (the purpose is to balance the wind speed and air volume at the end of the pipeline). The smoke and dust are blocked and purified by the high-efficiency purification filter in the dust collector. Particles adhere to the outside of the filter element under the negative pressure of the fan. Under the control of the controller, the pulse valve automatically performs back-blowing and cleaning of the system filter from the inside to the outside at regular intervals. During the back-blowing process, the particles fall into the ash. After a certain amount of particulate matter is accumulated in the ash hopper, it needs to be transported outside for treatment. Under the action of the fan, the purified gas that meets the standard is discharged from the chimney.

Green-maker Design Case Of Centralized Welding Dust Removal System



The air supply tube is the key air distributor for layered air supply. It is characterized by large air volume and low wind speed, and the airflow direction can be adjusted according to different seasons. The hot air is sent downward in winter; Wind distance up to 15 meters. According to the design calculation, the air volume of each blower is about 2500-3000m³/h.



The combined smoke and dust purification air conditioning unit consists of return air section + smoke dust purification section + return fan section + exhaust air section + fresh air adjustment section + initial effect section + evaporation section + blower section and other components.



Sales Network



Partner



Green-maker Environmental Protection Centralized Welding Fume Purification System Case



Green-maker Environmentally Friendly Centralized (Central) Dust Removal And Purification System



Our engineers will select the most suitable filtration method for you from the successful dust removal and purification schemes, and apply it to your production and processing process to achieve the ideal dust removal and purification effect

Green-maker Design Scheme Of Environmental Protection Centralized Dust Removal And Purification



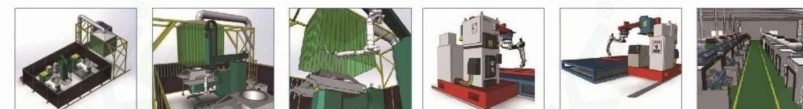
Green-maker Centralized (Central) Welding Fume Purification System



Green-maker Welding Robot Fume Purification System



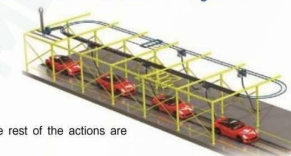
A large amount of smoke and dust are generated during the welding and grinding of locomotives and automobile bodies, trimming of wind power blades, and grinding after trimming. In order to better capture the dust, according to the company's many years of treatment experience, a workshop can be set up on site to capture the partial overall dust by means of upward feeding and downward suction or upward suction and downward feeding.



Green-maker Automobile Exhaust Gas Purification System

In order to solve the problem of exhaust gas pollution in the workshop of the testing line, an automatic circulation exhaust exhaust system was designed, manufactured and installed. The design, manufacture and construction of this system meet the following conditions:

1. Applicable to the exhaust exhaust of the owner's vehicle.
2. Automatic system, manual operation only needs to dock the suction nozzle of the exhaust pipe, and the rest of the actions are completed automatically.
3. The exhaust equipment does not cause damage to any part of the vehicle.
4. The whole system does not interfere with other equipment, vehicles, related logistics and public works (water, electricity, gas, air conditioning, etc.).



Schematic diagram of automobile exhaust extraction

Scope Of Application:

This system can concentrate the emission of vehicle exhaust generated from the starting position of the vehicle.

Working Principle:

The automatic cycle exhaust exhaust system adopts a fully automatic exhaust exhaust system, which is a fully automatic accompanying cycle exhaust exhaust equipment. The exhaust hose is connected to the suction port of the exhaust pipe of the car: the exhaust generated by the car passes through the suction pulley, and the smoke is exhausted. The guide rail is directly exhausted by the exhaust fan to the outside of the factory building. Set automatic reversing at the end of the exhaust track, the trolley automatically returns to the starting position.

Green-maker Centralized High Negative Pressure Dust Removal System



There are multiple grinding and cutting stations in the workshop, and the operators can grind and cut the inside and outside of the workpiece at the same time, and the working area is wide. The workpiece for grinding and cutting is large, and there are many operators, and the amount of dust generated at the same time is very large. Dust pervades the entire workshop, not only affecting the work in the work area, but also greatly affecting the health of workers. The dust produced by grinding contains a lot of harmful substances, and 30%-90% of these dusts are particles below the micron level, which are easily absorbed by the human body, causing great harm to the human body, and urgently need to be treated.

Aiming at the characteristics of dust in the grinding and cutting process of large workpiece materials, Green-maker has developed a high negative pressure central dust removal system. The system is recognized in the industry as an overall dust solution with excellent performance and stability. The pipeline and dust collection kits professionally designed by Green-maker are assembled with the tools used by customers, so that the dust suction port is very close to the source of dust generation. It can capture dust directly from the working point (tool) during grinding and cutting. This method is also the most advanced and effective dust removal method at present. Capturing from the source prevents the dust from escaping to the workshop and then captures it, which will greatly increase the investment in dust removal.



Green-maker Plasma Cutting Dust Removal System

A large amount of harmful dust and smoke will be generated in the process of metal cutting and blanking. If it is not treated in time, it will bring environmental pollution to your factory and seriously affect the health of employees. Based on our years of experience in design, production, installation and commissioning, our engineers can provide customers with the best solutions according to their needs and meet the requirements of environmental protection laws and regulations.



Damper Type Dust Removal Cutting Platform

Working Principle :

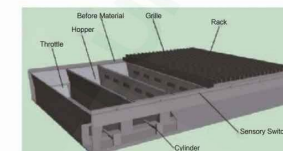
A damper-type exhaust air working platform is installed at the lower part of the cutting machine, and the platform is divided into several air exhaust chambers of equal width along the length direction of the platform, and an ash hopper with an air exhaust port is installed on the air exhaust chamber. There are air ducts on both sides along the length of the platform, and each exhaust chamber corresponding to the side of the air duct is equipped with a damper and a cylinder. The damper of the corresponding exhaust chamber is opened, and the smoke generated during cutting is sucked into the dust removal air duct, and finally enters the main unit of the purifier for purification.



Damper Cutting Platform Structure

Features of damper type cutting platform dust removal system

The ventilation of the cutting platform is effectively concentrated in the area where the cutting head is located (the width is the width of the cutting platform, and the length direction is about 1m), and this area moves with the movement of the cutting head, effectively saving the amount of ventilation.



Advantage:

1. Under the same gauge, the effective cutting width is large.
2. The ventilation is uniform, the effect is good, and it is not affected by the coverage of the steel plate on the cutting platform.
3. The damper type cutting platform is more suitable for dust removal applications where the platform width is less than 4m.

Shortcoming:

1. The structure is more complex, the steel consumption is large, and the manufacturing precision is high.
2. There are many cylinders and damper components, many fault points, and inconvenient maintenance.
3. A single damper is not closed tightly or fails to affect the ventilation effect.
4. It is inconvenient to remove slag.
5. The same cutting platform width requires a large amount of ventilation and a high investment in dust removal.



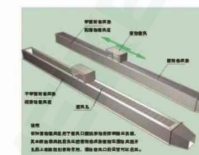
Working Principle:

A square suction duct is installed on one side of the cutting platform, a sliding suction trolley that can move with the cutting machine is installed above the suction duct, and a suction fan is installed on the other side of the cutting platform. Sliding suction trolley. The cutting head and blower are installed on the same straight line of the cutting machine along the direction of the beam. Use the grid plate on the cutting platform and the cut steel plate to form a "smoke channel" to blow to the suction port of the suction trolley. In this way, the smoke and dust enter the square suction duct through the suction port of the trolley, and then enter the purifier for purification.



Blow-Suction Cutting Platform Structure

The square suction duct and the sliding suction trolley are important components of the blow-suction cutting platform. When working, the sealing belt is tightly attached to the square suction duct under the action of negative pressure in the pipeline to play a sealing role. At the sliding suction trolley, there are two rollers in the trolley, and the sealing belt is jacked up when passing through the trolley. In this way, the smoke and dust enter the square suction duct through the suction port of the trolley, and then enter the purifier for purification.



Features Of Blowing Suction Cutting Platform Dust Removal System

Blow-suction cutting platforms have been widely used in recent years, and the effect of dust removal on cutting platforms above 4m is obvious.

Advantage:

The structure is simple, the steel consumption is less, and the production precision is not high. Fewer components, fewer points of failure, and easy maintenance.

Easy to remove slag.

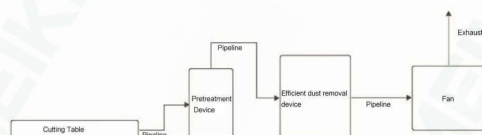
With the same width of the cutting platform, the required air volume is small, and the investment in dust removal is small.

Shortcoming:

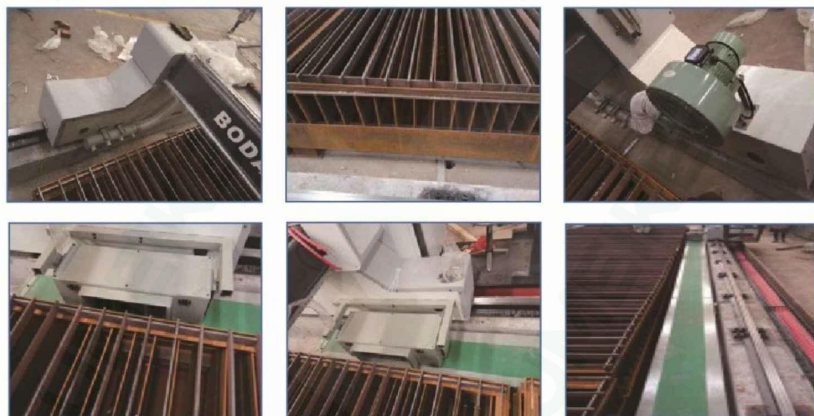
Under the same gauge, the effective cutting width is smaller than that of damper type cutting platform.

The ventilation effect is greatly affected by the coverage of the steel plate on the cutting platform, the higher the coverage, the better the effect.

Green-maker has improved the safety performance of the purifier on cutting fumes in the design. Its structure is composed of two parts, the front stage is the spark and large particle separation part, and the rear stage is the high-efficiency smoke filter device. The smoke and dust generated during the cutting process enters the preprocessor before entering the high-efficiency filter host through the pipeline, and strong rotation and separation are generated in the preprocessor, so that sparks and large particle dust can be separated from the smoke and dust, and the separated smoke and dust enter the high-efficiency filter. The filter host reduces the inlet concentration, improves the filtration efficiency of the high-efficiency filter host, and greatly prolongs the service life of the filter material.



Green-maker Cutting Dust Removal And Purification System Case

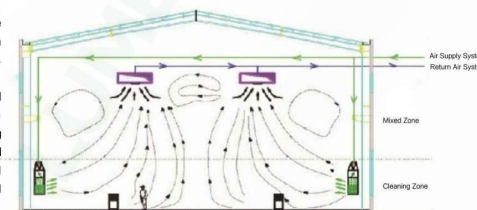


Green-maker Overall Plant Ventilation And Dust Removal Process



The dust and dust removal and purification of the overall plant has always been a global problem. In recent years, our company has been widely used in industrial buildings and welding workshops by introducing, absorbing, integrating, combining with dust removal and purification, constant temperature and humidity, and using the principle of layered air supply to solve this critical technical problem. Compared with the traditional mixed ventilation method, the layered air supply method can make the air quality within a certain height range in the factory building better, the temperature and humidity are suitable, and the operators feel comfortable working in this area, and their health is improved. Guarantee and achieve the purpose of ventilation.

In workshops with heat sources (such as machining workshops, welding workshops), due to the stable temperature gradient at height, if the temperature difference is lowered at a lower wind speed ($<0.2-0.5\text{m/s}$) ($\Delta t=2-4^\circ\text{C}$) fresh air is directly sent into the indoor working area, and the low-temperature fresh air first sinks under the action of gravity, and then slowly diffuses to form a thin layer of fresh air on the ground. The effect rises and continuously sucks the surrounding air. In this way, under the impetus of the follow-up fresh air and the suction of the top air outlet, the fresh air above the ground rises slowly to form an upward uniform air flow, so the oily and exhaust air in the working area is replaced by the follow-up fresh air. When stabilization is reached, two regions are formed in the chamber due to the concentration difference. The upper part is the mixing zone, and the lower part is the clean zone with upward flow.



Summer Wind Scene



Wind Scene In Spring And Autumn



Winter Wind Scene