

TOPSINN
顶鑫智能环保

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TOPSINN

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工业环保解决方案商

Industrial environmental protection
solution provider

YouTube



Customer service



Website



以专业为支撑，以服务取得客户

Professional support, Customer-oriented

Enterprise Qualification Certificate

User satisfaction constitutes our paramount benefit, user trust represents our greatest accomplishment, and user support serves as our primary driving force.

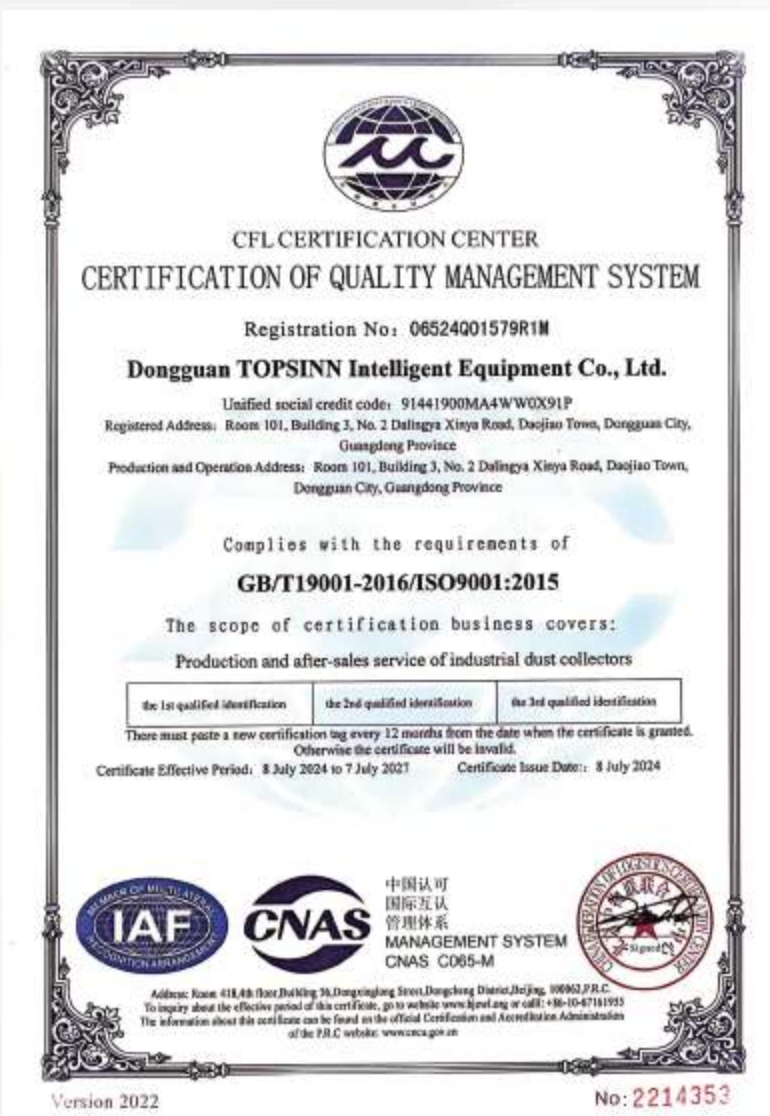


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High-tech enterprise certificate



Innovative SME certificate



ISO9001



CE



Explosion-proof certificate

Exhibition



▲ CIIF in Shanghai



▲ ITES Shenzhen Industrial Exhibition



▲ CIIF in Shanghai



▲ CIIF in Shanghai



▲ FABTECH in America



▲ SIMTOS in Korea

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A professional team of senior environmental experts, engineers and technicians

Rich industry experience



Track the whole process, quickly and accurately develop the optimal solution

Secure your green future



Continuous investment in research and development of efficient, energy-saving, stable environmental protection equipment

Advanced technology is the core support of service strength

COMPANY PROFILE

公司简介

Dongguan Topsinn Intelligent Equipment Co.,Ltd. (referred to as Topsinn) is a high-tech enterprise integrating scientific research, development, manufacturing, sales and service. Headquartered in Dongguan City of the Pearl River Delta, the center of the world manufacturing industry, Branch companies are located in Jinan and Wuxi cities, and have a sales and service office in Wuhan. The office area of the workshop is 15000 m², and there are more than 100 employees. The core team absorbs more than 30 professional technicians from leading enterprises in the industry, including mechanical structure design, electrical, industrial dust purification, welding smoke purification, software and technology for oil mist separation, etc.. The company has laser cutting machine, numerical control shear, folding, cutting and other sheet metal processing production lines.

Topsinn Intelligent Environmental Protection is a professional solution provider in the field of industrial dust removal and collection; welding smoke purification; oil mist separation; Treatment of VOCs waste gas; effluent treatment; industrial refrigeration.

Dongguan Topsinn Environmental Protection insists on mastering the core technology independently, keeping in line with the world, aiming at the first-class goal of the industry, and aiming at the products with high cost-performance ratio for users. According to the customer's opinions and requirements, a comprehensive analysis is carried out to design a complete scheme at the fastest speed, providing free technical guidance, installation and debugging methods and matters needing attention, as well as on-site service.

Professional service team, when we receive quality information feedback, will put forward treatment suggestions within 12 hours, and to be able to rush to the scene within 48 hours to deal with problems.

Professional support, service to obtain customers.



There are several offices throughout China



100+ Employees

30+ Professional technicians



Put forward treatment suggestions within **12h**
Rush to the scene **48h**

Topsinn Intelligent Environmental Protection Control System

01/ CONTROLLER

Specially developed Intelligent control panel and HMI for dust collector
Stable operation, intelligent and flexible, easy operation, strong expansion

- > Professional intelligent programming,intuitive and clear parameter setting,according to working conditions;
- > On-board transformer to avoid external circuit interference.220V/380V output can be selected;
- > The control chip adopts STM processor,and a separate memory chip is designed to ensure flexible development and super stability;
- > The on-board six-channel backblowing pulse output can be flexibly selected,and the 48-channel pulseoutput can be expanded;
- > Ten point inputs and two alarm outputs on board;

02/ HMI



STARTUP Screen



Main Interface



Cleaning mode selection



Fan Overload Alarm



Over-temperature Alarm

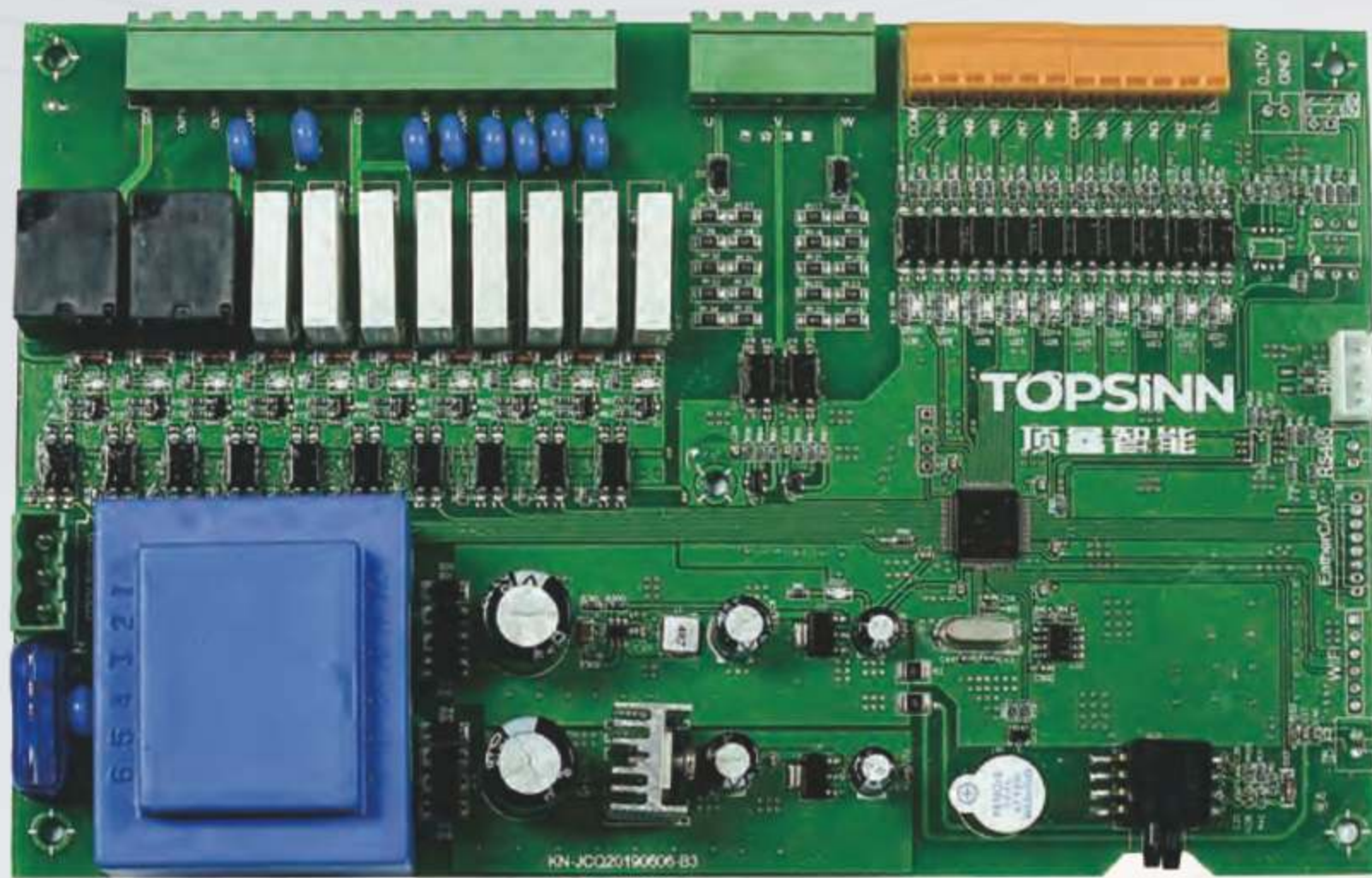


Parameter Setting

EtherCAT

RS485

- > Interface diversification.WIFI,EtherCAT,RS485,temperature sensor,micro-pressure difference sensor,phase sequence monitoring,analog quantity and so on;
- > For high-power motors,built-in star angle start function;
- > Can connect to the master machine's switch signal to remote control the dust collector start/stop;
- > Support remote startup and on-site startup;
- > Can choose the frequency converter,more energy saving and electricity saving.



I/O

WiFi

设计方案

02/ Manufacture,Testing standard

01/ DESING BASIS

- 《Comprehensive Emission Standard of Air Pollutants》(GB16297-2012)
- 《Hygienic Standard for Design of Industrial Enterprises》(GBZ1-2002)
- 《Occupational Exposure Limits for Harmful Factors in the Workplace》(GBZ2-2002)
- 《Code for Design of Heating,Ventilation and Air Conditioning》(GB5001 9-2003)
- 《Design Code for Power Distribution of General Electrical Equipment》(GB50055-93)
- 《Code for Design of Low Voltage Distribution》(GB50054-95)
- 《Environmental Noise Emission Standard for Industrial Enterprises》(GB1 2348 - 2008)

- 《Dust Collector》(JB/T 10341-2002)
- 《Technical Performance and Test Method of Dust Collector》(GB/T 1 1 653-2000)
- 《Guidelines for Pressure Relief of Dust Explosion》(GB/T 15605-2008)
- 《Specification for Centrifugal Fans for General Use》(JB/T 10563-2006)
- 《Industrial Fan Noise Limits》(JB/T 8690-1 998)
- 《Fan Vibration Detection and Its Limit》(JB/T 8689-1 998)
- 《Technical Specification for Ventilation Ducts》(JGJ141-2004)
- 《Code for Acceptance of Construction Quality of Ventilation and Air-Conditioning Engineering》(GB 50243-2002)
- 《Corrosion Grade and Derusting Grade of Steel Surface before Painting》(GB8923-88)
- 《Environmental Noise Emission Standard for Industrial Enterprises》(GB1 2348-2008)

03/ Design principles

- A. The design follow the principle of “technologically advanced, economical and practical”.
- B. The dust collector is practical, reliable, advanced, stable in operation, low in energy consumption, good in dust removal effect and compact.
- C. By strengthening the sealing to reduce the dust and air volume, so that reduce the machine’s investment and operation cost.
- D. Convenient maintenance: adopt reliable vulnerable parts, the simple technological process, reduce failure rate of the system and the maintenance. Also easy maintenance of the master machine.
- E. The emission concentration of fume and dust complies with the emission standard of large air pollutants for environmental protection.

04/ Design scope

- 1.Dust treatment process design;
- 2.Layout design of dust treatment system;
- 3.Dust treatment system equipment (including dust removal pipe, dust removal system and auxiliary facilities).

Engineering scope



1

Air Duct Engineering



2

Dust Collector



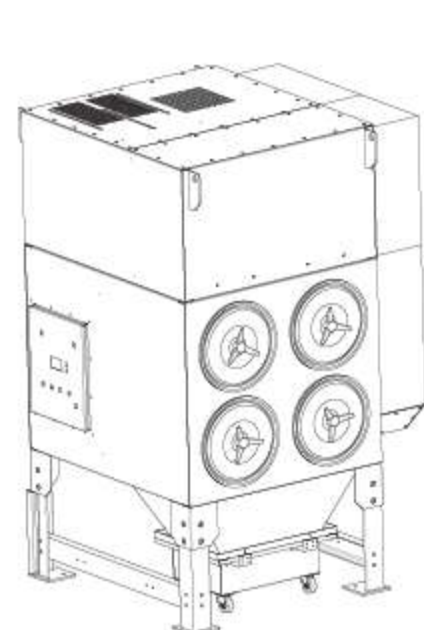
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Power System

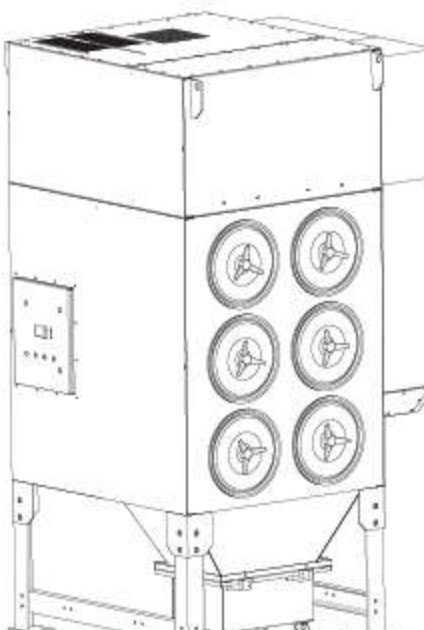


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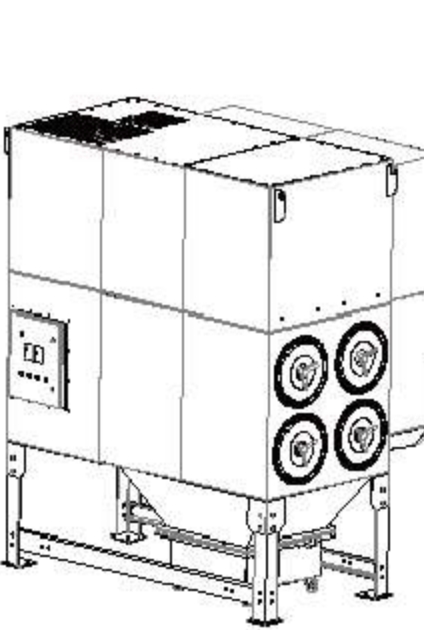
Control Device



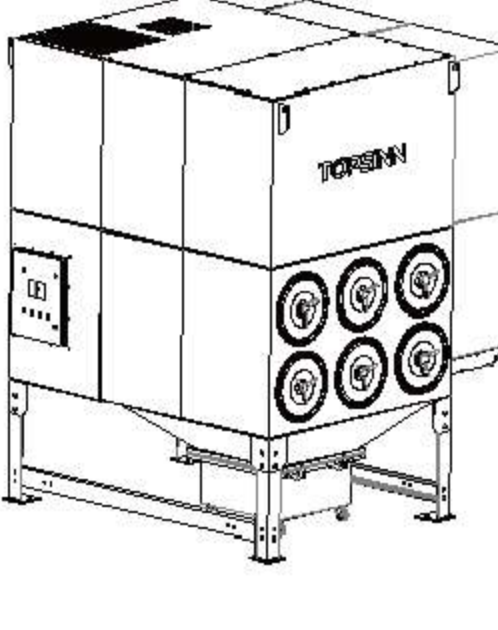
TODC-4L



TODC-6L



TODC-8L



TODC-12L



Dust Collector Selection

TODC-L Settling box type sinking flow Dust Collector

- The cartridge filter is a settling box structure,which is beneficial to dust filtration and sedimentation.
- With compact structure,need small footprint.
- The filter cartridge is made of cloth bag,is equipped with a nano-coating,which intercept all large and small particles,and uses the fine dust on the surface to block large particles,reducing wear and prolonging life.

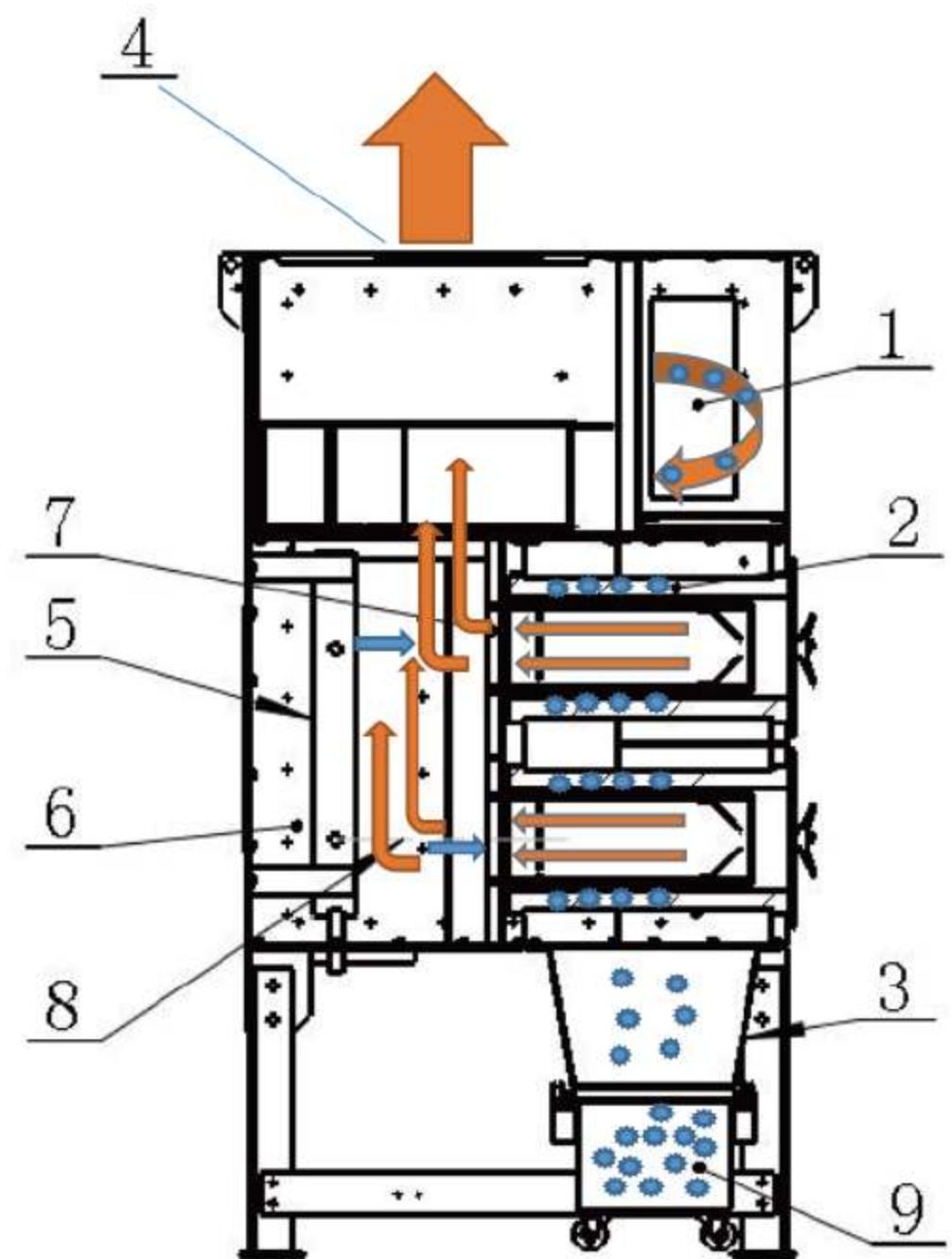
TODC-L SERIES DUST COLLECTORS



Hazards of Fume and Dust »

The harmful fumes generated during laser marking, engraving, cutting, and welding are huge harmful to human health and the core components of the machine. Fume and dust permeates the machine for a long time, which will damage the laser head and servo motor. If it is discharged into the air and inhaled for a long time, it is easy to cause various respiratory poisoning and occupational diseases.

• Operation diagram 运行示意图



- | |
|--------------------------------------|
| 1. Fume and dust inlet |
| 2. Filter cartridge |
| 3. Ash hopper |
| 4. Clean air outlet |
| 5. Air storage tank |
| 6. Electromagnetic pulse valve |
| 7. Flower board |
| 8. Pulse back blowing compressed air |
| 9. Dust falling |

Under the strong negative pressure of the turbo fan, when the polluted air enters the air inlet, it first hits the baffle plate in the air inlet room, which acts as a baffle for the incoming air and slows down the flow velocity. Due to the gravity settlement, the coarse dust falls directly into the large particle dust port, which plays the role of pre-dust removal. After the fine-grained and low-density dust particles enter the dust filter chamber, the dust in the air stays on the surface of the filter cartridge, and the filtered clean air enters the air chamber and is collected by the exhaust pipe to through the fan to the outlet and discharged.

TOPSINN

Customer Case



Customer 1



Customer 2



Customer 3



Customer 4

TOPSINN independently develops and manufacturing the dust collectors to deal with the dust, fume, odor and other problems which caused by laser cutting, laser marking, laser engraving and reflow soldering and other related industries.

- Adopt integrated industrial design of the fuselage, metal frame structure, high-quality cold-rolled steel plate spraying process, durable.
- Self-developed control system with humanized operation panel.
- The air intake flange is optional.
- Adopt Finnish Ahlstrom/American Donaldson filter element, quick disassembly design, efficient and convenient installation.
- Adopt high-efficiency high-speed Siemens motor, built-in controller form, the performance and quality are more guaranteed.
- Stable operation, low noise, high efficiency, low energy consumption, long working hours. No need for regular maintenance, lower cost.
- The wind turbine adopts eddy current backward design and special alloy material to effectively prevent the wind turbine from being corroded. The unique dynamic balance correction technology makes the wind turbine run more smoothly and reliably.
- High negative pressure, high suction, higher filtration rate.
- Multi-filter design ensure that harmful fume is filtered more thoroughly. The purification rate can reach up to 99.9%.
- Modular design, regular automatic back blowing, longer service life of the filter element and lower replacement cost.
- Independent R&D of control system: support EtherCAT, energy-saving frequency conversion control.



TODC – L series Dust Collector

The TODC-L series industrial dust collector is a pulse backblowing industrial dust collector developed in combination with environmental emission requirements. It has the characteristics of large air volume, pulse backblowing, reliable reliability and small floor space. suitable for laser cutting, laser welding; flame cutting, etc.

Configuration description

配置描述

Model	TODC-4L/6L/8L/12L
Controller	Independent R&D
HMI	Touch screen
Motor	SIEMENS
Pulse backblowing	Pulse control
Filter	Ahlstrom / Donaldson
Protocol	EtherCAT
Energy saving(optional)	Inverter control
Safety Protection	Automatic fire extinguishing system



CE



I/O EtherCAT



Temperature sensor



Automatic fire extinguishing system

TODC-L Series Dust Collector

	TODC-4L	TODC-6L	TODC-8L	TODC-12L
Filter cartridge material	Donaldson/Ahlstrom TORAY F9	Donaldson/Ahlstrom TORAY F9	Donaldson/Ahlstrom TORAY F9	Donaldson/Ahlstrom TORAY F9
Number of Filter cartridge	4	6	8	12
Air volume	5000m³/h	7000m³/h	10000m³/h	12000m³/h
Air pressure	3000	3600	5000	5000
Filtration efficiency	99.99%	99.99%	99.99%	99.99%
Filtering area	80m²	120m²	160m²	240m²
Entrifugal fan	5.5KW SIEMENS	7.5KW SIEMENS	11KW SIEMENS	15KW SIEMENS
Collector capacity	45L	50L	90L	120L
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6-0.7MPa Compressed air without oil and water	0.6-0.7MPa Compressed air without oil and water
Unit weight	700KG	900KG	1200KG	1800KG
Outline Dimension (mm)	A: 2099; B: 1348 C: 1060; D: 303	A: 2807; B: 1423 C: 1180; D: 383	A: 2575; B: 2215 C: 1016; D: 453	A: 2751; B: 2215 C: 1516; D: 553
Emission concentration (mg/M³)	< 10	< 10	< 10	< 10
Template size	 TODC-4L	 TODC-6L	 TODC-8L	 TODC-12L



TODC – B series
Dust Collector

The TODC-B series industrial dust collector is a pulse backblowing industrial dust collector developed in combination with environmental emission requirements. It has the characteristics of large air volume, pulse backblowing, reliable reliability and small floor space.
And suitable for laser cutting, laser welding, flame cutting, etc.

Configuration description

配置描述

Model	TODC-4B/6B/8B/12B
Controller	Independent R&D
HMI	LCD
Pulse backblowing	Pulse control
Filter	High efficiency filtration
Protocol	EtherCAT
Energy saving(optional)	Inverter control



CE



I/O EtherCAT



Temperature sensor

TODC-B Series Dust Collector

	TODC-4B	TODC-6B	TODC-8B	TODC-12B
Filter cartridge material	Flame retardant,F9	Flame retardant,F9	Flame retardant,F9	Flame retardant,F9
Number of Filter cartridge	4	6	8	12
Air volume	5000m³/h	7000m³/h	10000m³/h	12000m³/h
Air pressure	3000	3600	5000	5000
Filtration efficiency	99.99%	99.99%	99.99%	99.99%
Filtering area	80m²	120m²	160m²	240m²
Entrifugal fan	5.5KW	7.5KW	11KW	15KW
Collector capacity	45L	50L	90L	120L
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water
Unit weight	600KG	800KG	1000KG	1500KG
Outline Dimension (mm)	A: 2099; B: 1348 C: 1060; D: 1390	A: 2807; B: 1423 C: 1180; D: 1510	A: 2575; B: 2215 C: 1016; D: 1466	A: 2725; B: 2215 C: 1516; D: 1966
Emission concentration (mg/M³)	< 10	< 10	< 10	< 10
Template size	 TODC-4B	 TODC-6B	 TODC-8B	 TODC-12B



TODC – C series Dust Collector

The TODC-C series industrial dust collector is a pulse backblowing industrial dust collector developed in combination with environmental emission requirements. It has the characteristics of large air volume, pulse backblowing, reliable reliability and small floor space. The dust collector is used for the collection of dust and particles, whether it is used for air pollution control or as part of the production process, and suitable for laser cutting, laser welding; flame cutting, etc.

Configuration description

配置描述

Model	TODC-4C/6C/8C
Controller	Independent R&D
HMI	LCD
Pulse backblowing	Pulse control
Filter	High efficiency filtration
Protocol	EtherCAT
Energy saving(optional)	Inverter control



I/O EtherCAT



Temperature sensor

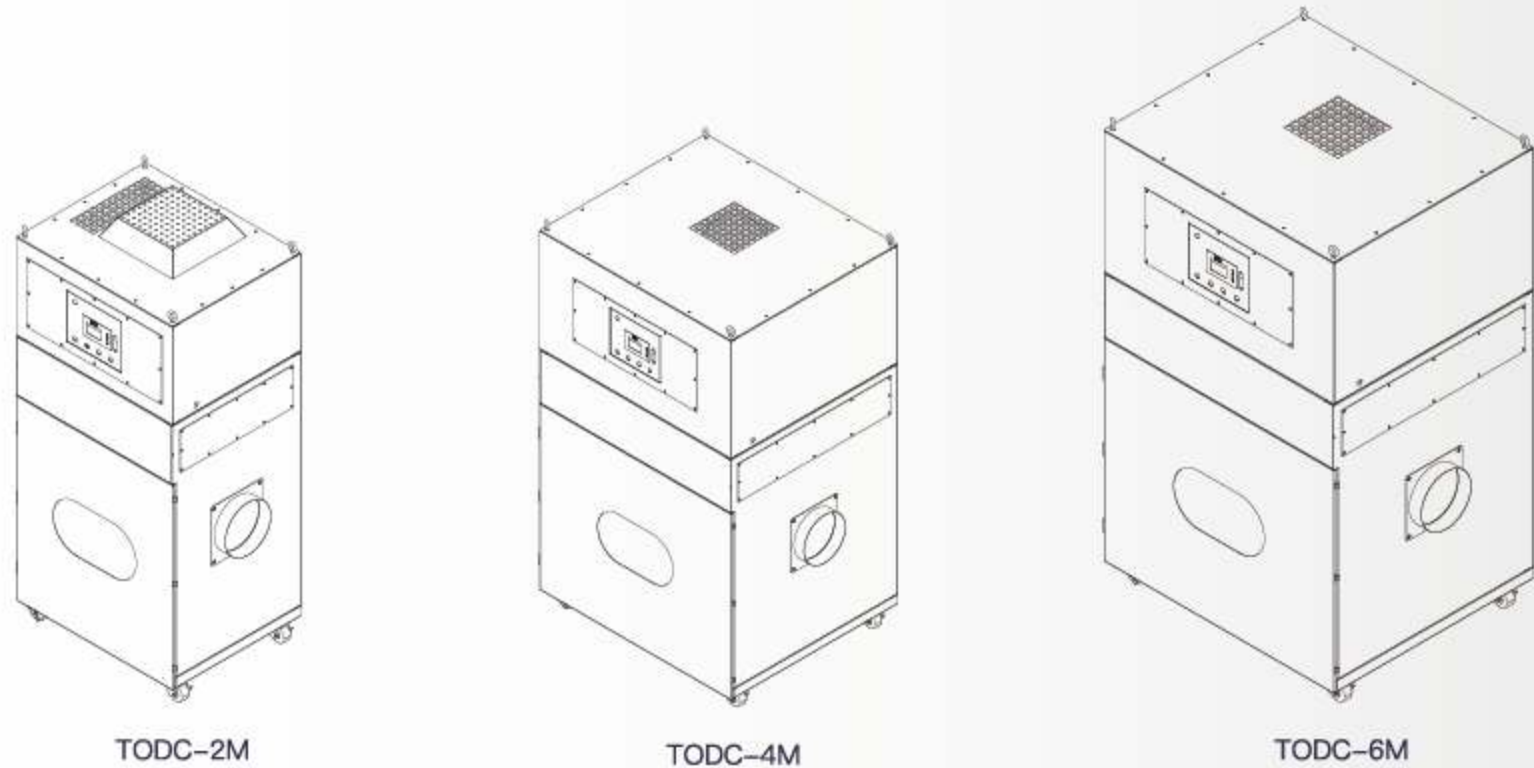
TODC-C Series Dust Collector

	TODC-2C	TODC-4C	TODC-6C	TODC-9C
Filter cartridge material	Flame retardant	Flame retardant	Flame retardant	Flame retardant
Number of Filter cartridge	2	4	6	9
Air volume	3000m³/h	4000m³/h	6000m³/h	9000m³/h
Air pressure	3000	3000	3600	5000
Filtration efficiency	99.99%	99.99%	99.99%	99.99%
Filtering area	20m²	40m²	60m²	90m²
Entrifugal fan	3KW	5.5KW	7.5KW	11KW
Collector capacity	30L	45L	50L	30L*2
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water
Unit weight	350KG	450KG	600KG	800KG
Outline Dimension (mm)	A: 1030; B: 880 C: 2040	A: 1030; B: 1000 C: 2040	A: 1140; B: 1400 C: 2040	A: 1500; B: 1400 C: 2200
Emission concentration (mg/M³)	< 10	< 10	< 10	< 10
Template size				



TODC – M series
Dust Collector

Features: small footprint, easy to move
Applications: grinding table, graphite processing, CNC, etc



Configuration description

配置描述

Model	TODC-2M/4M/6M
Controller	Independent R&D
HMI	LCD
Motor	SIEMENS
Pulse backblowing	Pulse control
Filter	Ahlstrom/TORAY
Protocol	EtherCAT
Energy saving(optional)	Inverter control



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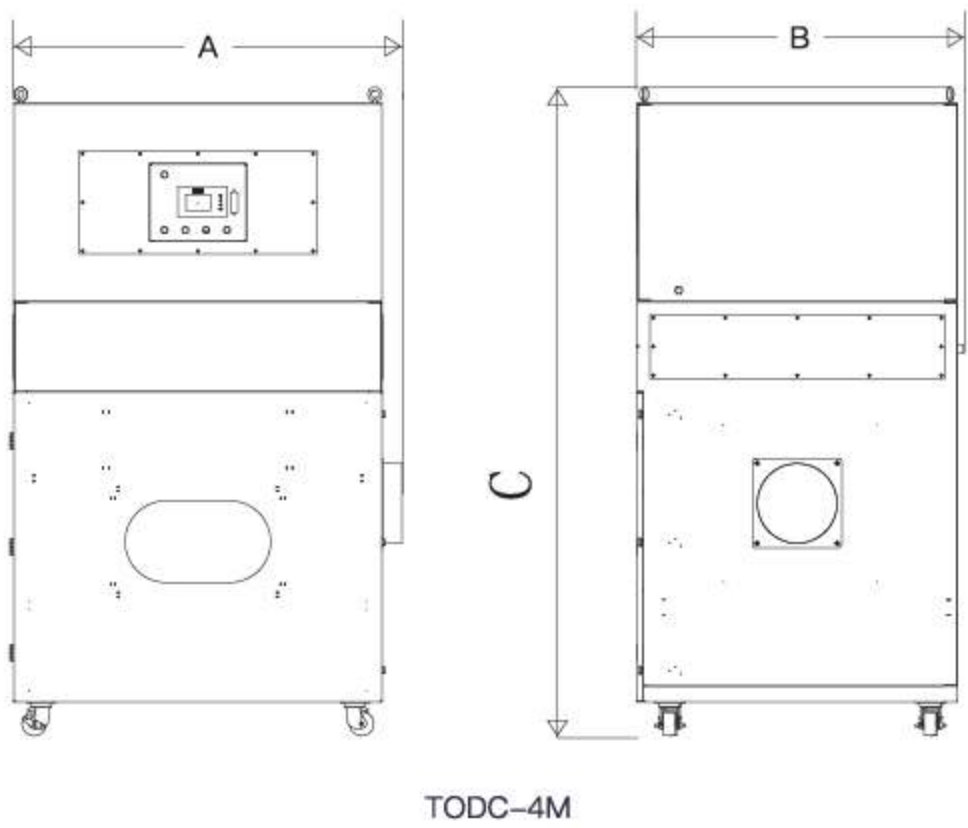
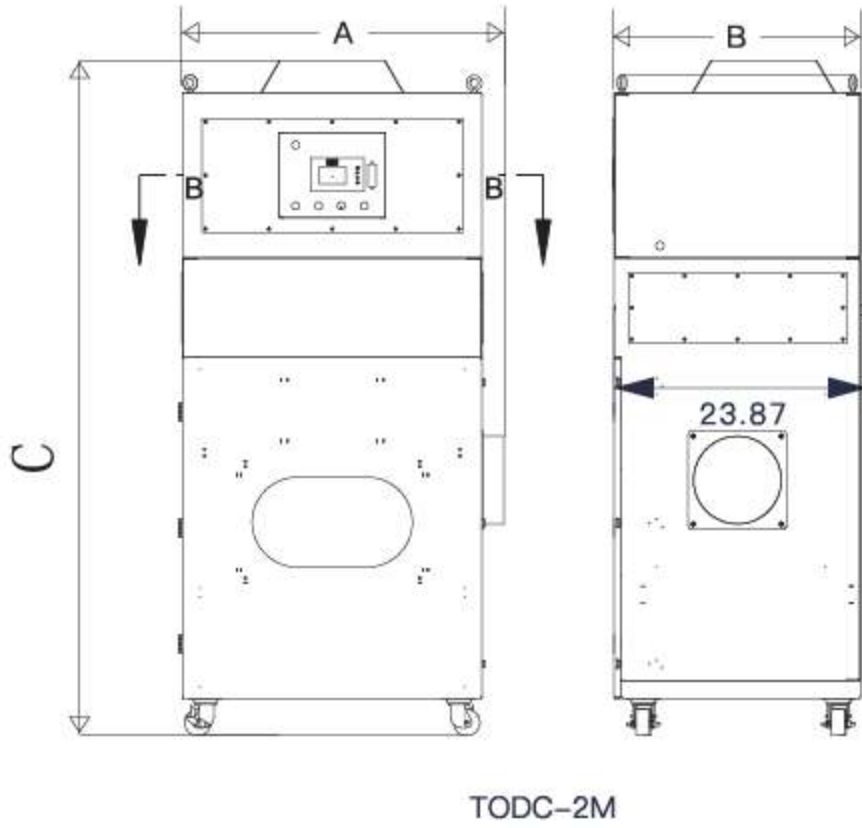
I/O EtherCAT



Temperature sensor

TODC-M Series Dust Collector

	TODC-2M	TODC-4M	TODC-6M
Filter cartridge material	Ahlstrom/TORAY F9	Ahlstrom/TORAY F9	Ahlstrom/TORAY F9
Number of Filter cartridge	2	4	6
Air volume	3000m³/h	5000m³/h	7000m³/h
Air pressure	2000Pa	2600Pa	3500Pa
Filtration efficiency	99.99%	99.99%	99.99%
Filtering area	40m²	80m²	120m²
Entrifugal fan	3KW MOTOR	3.7KW MOTOR	11KW MOTOR
Collector capacity			
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water
Unit weight	400KG	520KG	610KG
Outline Dimension (mm)	A: 915.5; B: 796.2 C: 1921.5	A: 1215.5; B: 1022.2 C: 2026	A: 1325.5; B: 1420 C: 2233





TODC – LEX series Dust Collector

TODC-LEX series dust collector is an explosion-proof type pulse blowback type industrial dust collector developed according to the requirements of environmental protection emission and working conditions. It has the characteristics of large air volume, good cleaning effect, stable and reliable, small footprint, etc. Equipped with explosion-proof motor, ultra-high negative pressure fan, Japan TORAY filtration system. Dust collectors are used to collect dust and particles, whether for air pollution control or as a production process Suitable for laser cutting of flammable material, flame cutting and other industries.

Configuration description

配置描述

Model	TODC-4LEX/6LEX/8LEX/12LEX
Controller	Independent R&D
HMI	LCD
Motor	Explosion-proof motor
Entrifugal fan	Explosion-proof centrifugal fan
Pulse backblowing	Pulse control,Explosion-proof pulse valve
Cartridge filter	TORAY Anti-static filter
Explosion Venting System	Rectangularflat explosion vent disc Optionalfan-shapedflame-less explosion vent
Electrical cabinet	Explosion-proof distribution cabinet
Protocol	EtherCAT
Energy saving(optional)	Inverter control



CE



Explosion-proof certificate



I/O EtherCAT

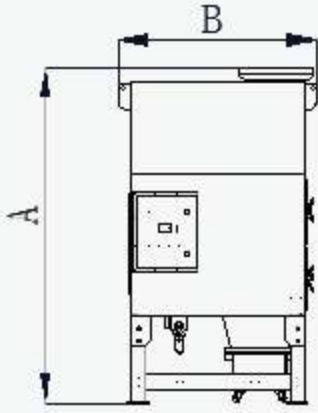
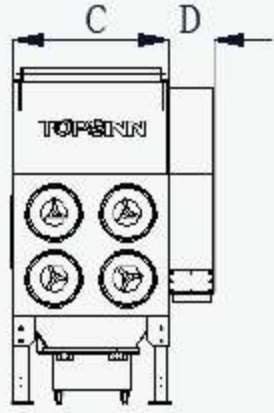
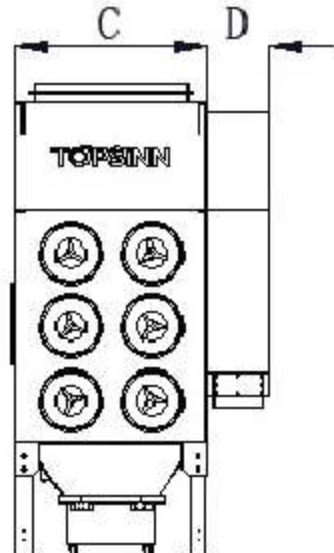
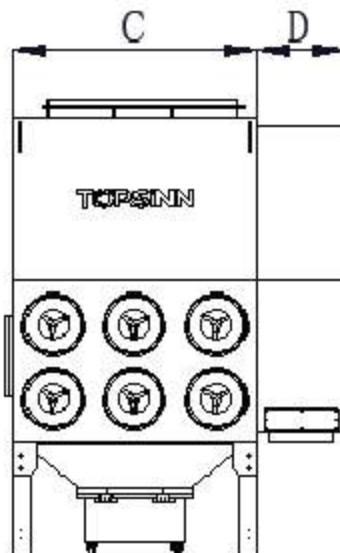


Temperature sensor



Automatic fire extinguishing system

TODC-LEX Series Dust Collector

	TODC-4LEX	TODC-6LEX	TODC-8LEX	TODC-12LEX
Filter cartridge material	Anti-statics TORAY , H13	Anti-statics TORAY , H13	Anti-statics TORAY , H13	Anti-statics TORAY , H13
Number of Filter cartridge	4	6	8	12
Air volume	5000m³/h	7000m³/h	10000m³/h	12000m³/h
Air pressure	3000	3600	5000	5000
Filtration efficiency	99.99%	99.99%	99.99%	99.99%
Filtering area	40m²	60m²	80m²	120m²
Entrifugal fan	5.5KW Explosion proof motor (Certificate included)	7.5KW Explosion proof motor (Certificate included)	11KW Explosion proof motor (Certificate included)	15KW Explosion proof motor (Certificate included)
Collector capacity	45L	50L	90L	120L
Power requirments	THREE-PHASE FOUR-WIRE , 380V	THREE-PHASE FOUR-WIRE , 380V	THREE-PHASE FOUR-WIRE , 380V	THREE-PHASE FOUR-WIRE , 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water	0.6-0.7MPa Compressed air without oil and water
Unit weight	700KG	900KG	1200KG	1800KG
Outline Dimension (mm)	A: 2295; B: 1348 C: 1060; D: 303	A: 2908; B: 1423 C: 1180; D: 383	A: 2679; B: 2215 C: 1016; D: 453	A: 2829; B: 2215 C: 1516; D: 553
Emission concentration (mg/M³)	<10	<10	<10	<10
Template size	 TODC-4LEX	 TODC-6LEX	 TODC-8LEX	 TODC-12LEX



TODC – P series
Dust Collector

TODC-P series dust collector is the first in the world to use gravity and downward air flow pattern to promote the self-purification process.

Suitable for plasma cutting, flame cutting and other industries.

Configuration description

配置描述

Model	TODC-12P/18P/24P
Controller	Independent R&D
HMI	Touch screen
Motor	SIEMENS
Pulse backblowing	Pulse control
Filter	TORAY in Japan
Protocol	EtherCAT
Energy saving(optional)	Inverter control



CE

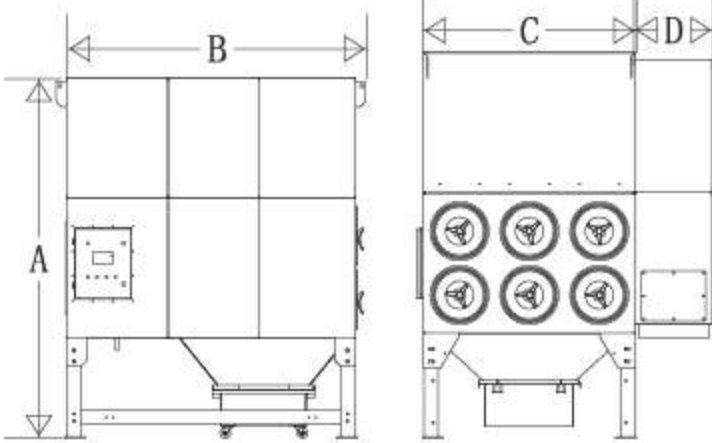
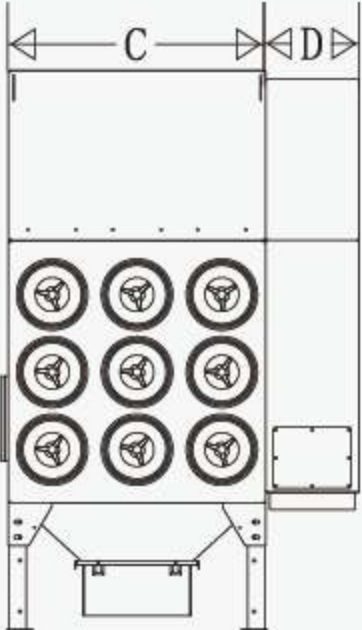
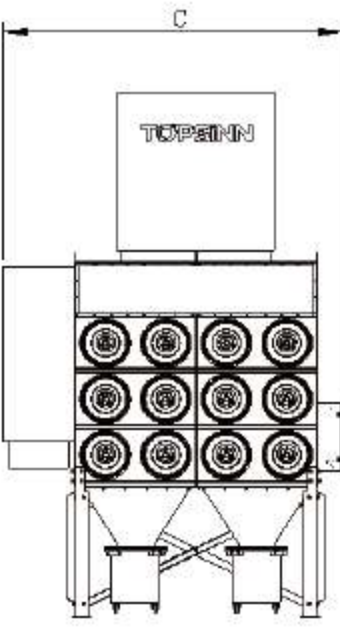


I/O EtherCAT



Temperature sensor

TODC-P Series Dust Collector

	TODC-12P	TODC-18P	TODC-24P
Filter cartridge material	TORAY, F9	TORAY, F9	TORAY, F9
Number of Filter cartridge	12	18	24
Air volume	12000m³/h	15000m³/h	20000m³/h
Air pressure	5000	5000	-
Filtration efficiency	99.99%	99.99%	99.99%
Filtering area	120m²	180m²	240m²
Entrifugal fan	15KW SIEMENS	18.5KW SIEMENS	22KW SIEMENS
Collector capacity	120L	210L	240L
Air inlet	500mm (Or Customized)	550mm (Or Customized)	600mm (Or Customized)
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6-0.7MPa Compressed air without oil and water	0.6-0.7MPa Compressed air without oil and water	0.6-0.7MPa Compressed air without oil and water
Unit weight	1800KG	2100KG	2300KG
Noise	≤80dB	≤80dB	≤80dB
Outline Dimension (mm)	A: 2751; B: 2215 C: 1516; D: 553	A: 3696; B: 2215 C: 1516; D: 603	A: 4440; B: 1930 C: 2850
Template size	 TODC-12P	 TODC-18P	 TODC-24P

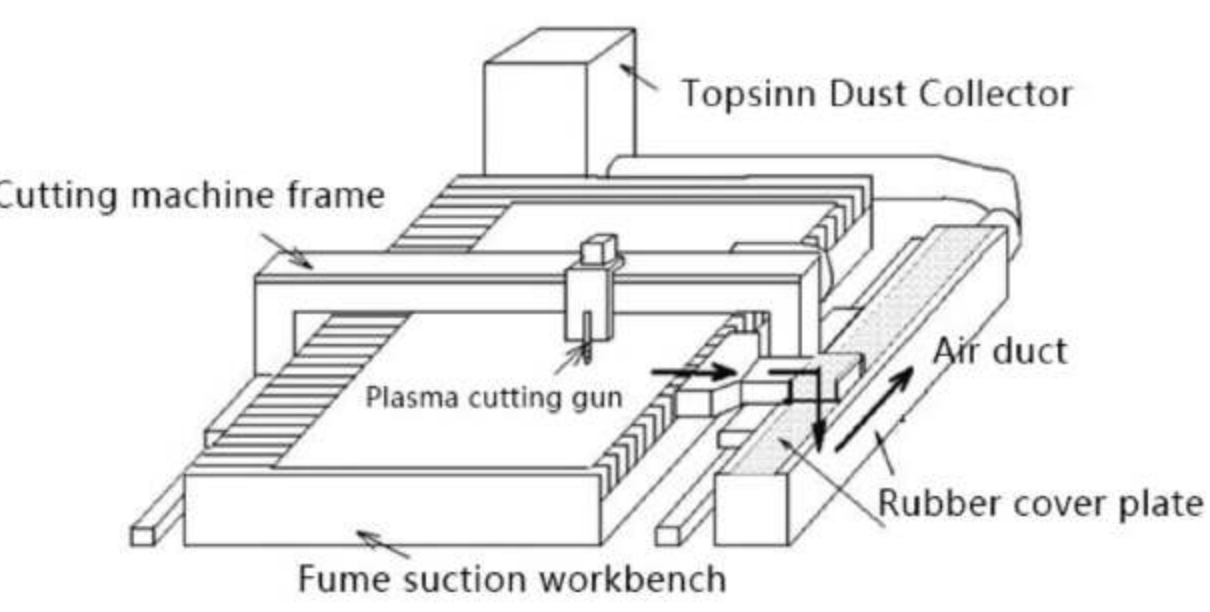
TODC – P series Dust Collector



➤ Schematic diagram of precipitator settling flow

When the dust collector is running,the dust-laden air enters the DFT dust collector from the top inlet, through the filter cartridge, the dust is collected on the outer surface of the filter cartridge, and the clean air is released into the clean air chamber through the center of the filter cartridge, and then passes through the filter cartridae.When the filter cartridge is cleaned, the solid-state control timer will automati- cally select a pair of filter cartridges for cleaning, so the high-pressure compressed air will rush directly into the center of the filter cartridge and blow off the dust on the surface of the filter cartridge. The dust folows the main air flow and falls down into the ash hopper under the action of gravity. The downflow dust colector can eradicate the problem of "secondary dust cleaning" and also improve the dust removal efficiency .

TOPSINN DUST COLLECTOR ADVANTAGES:



Side Absorb Fume and Dust Sketch Map

Dust Collector Housing:

The standard structure is made of No. 7 (5mm thickness) and No. 10 steel (4mm thickness). Through reinforcement, the design can withstand pressure up to-20 feet water column(5000pa).

Filter Cartridge Holder:

The material is galvanized steel, unique triangular design structure conforms to the principle of mechanios; It is convenient and simple to take and place the filter cartridge,and the reasonable position of the filter cartridge is automatically adjusted to make the filter cartridge more securely and accurately fixed on the dust collector. The screw rotation design on the top makes the filter cartridge, filter cover and dust collector housing strongly combined together,and the excellent sealing performance ensures that dusty air will not leaked to the clean air side. The filter holder is inclined at 15 degrees, which facilitates filter cartridge to slide down during maintenance.

Filter Cover:

The cover is formed by one-time stamping.After the electrophoresis paint technology,the protective paint is evenly arranged on the surface of the barrel cover to ensure the same thickness,strong and beautiful.and there wil be no paint falling or air bubbles within 10 years.the triangular plastic installation handle of the cover ,user-friendly design,can be quickly rotated to install the filter cartridge cover.

Filter Cover:

The ULTRA-WEB filter is the main spare part of the DFT Dust Collector. The filter cartridge and the dust collector are skillfully combined,which greatly promotes their respective functions and prolongs the service life of the filter cartridge.It also optimizes the repair and maintenance of the filter cartridge.Due to the long service life and excellent dust collection and cleaning ability of the ULTRA-WEB filter cartridges,the filter cartridge replacement is rare.

TOMJ MOBILE ECONOMIC WELDING FUME PURIFIER



TOMJ series are equipped with a suction arm and 2 directional wheels and 2 universal polyurethane wheels with brakes at the bottom,which are applied in welding station.It is suitable for the purification of fume and dust generated in various welding,grinding and other places,as well as the recovery of rare metals and precious materials.

The suction arm can be 360° Rotation, 2m, 3m or 4m flexible suction arms can be selected. The suction hose is made of real temperature-resistant, flame-retardant and wear-resistant composite materials, which will not crack after being burned by sparks, and have a longer service life, the suction arm tube diameter is 160mm.

The filtration effect of the main flter cartridge can reach 99.9%.Since the high-efficiency filtration precision of the main filter cartridge can meet the indoor emission standard,the filtered clean air is directly discharged into the indoor circulation through the air outlet of the fume and dust purifier.

The filter cartridge is made of imported wood pulp fiber,which has high filtration precision and can filter 0.5pm fume and dust.According to the working intensity of the purifier and the amount of fume and dust,the service life of the filter cartridge is different.The corresponding indicator light on the operation panel will light up under different conditions,it is equipped with power phase sequence indication,phase loss and short circuit protection,automatic shutdown when the temperature is too high,and automatic blowback protection when the pressure difference is too high.

Model	Unit	TOMJ-07	TOMJ-11	TOMJ-15	TOMJ-22	TOMJ-30
Treatment Air Volume	m³/h	1000	1200	1500	2400	3000
Power	KW	0.75	1.1	1.5	2.2	3
Voltage/Frequency	V/Hz	380/50	380/50	380/50	380/50	380/50
Dimension	mm	650*550*1000	650*550*1000	650*550*1000	700*600*1100	916*797*1922
Noise	dB	<70	<72	<72	<75	<75
Filter area	m²	9	12	15	18	40
Purification Efficiency		> 99%	> 99%	> 99%	> 99%	> 99%
Filter dust removal mode	Automatic / Manual / Timing / Differential Pressure					



TODM series
GRINDING TABLE

- ▶ Pure copper high efficiency centrifugal fan
- ▶ High efficiency filtration system
- ▶ Industrial exterior design
- ▶ The side and work table are vacuumed simultaneously
- ▶ High efficiency cartridge filtration, purification efficiency >99%, can indoor discharge.

Configuration description

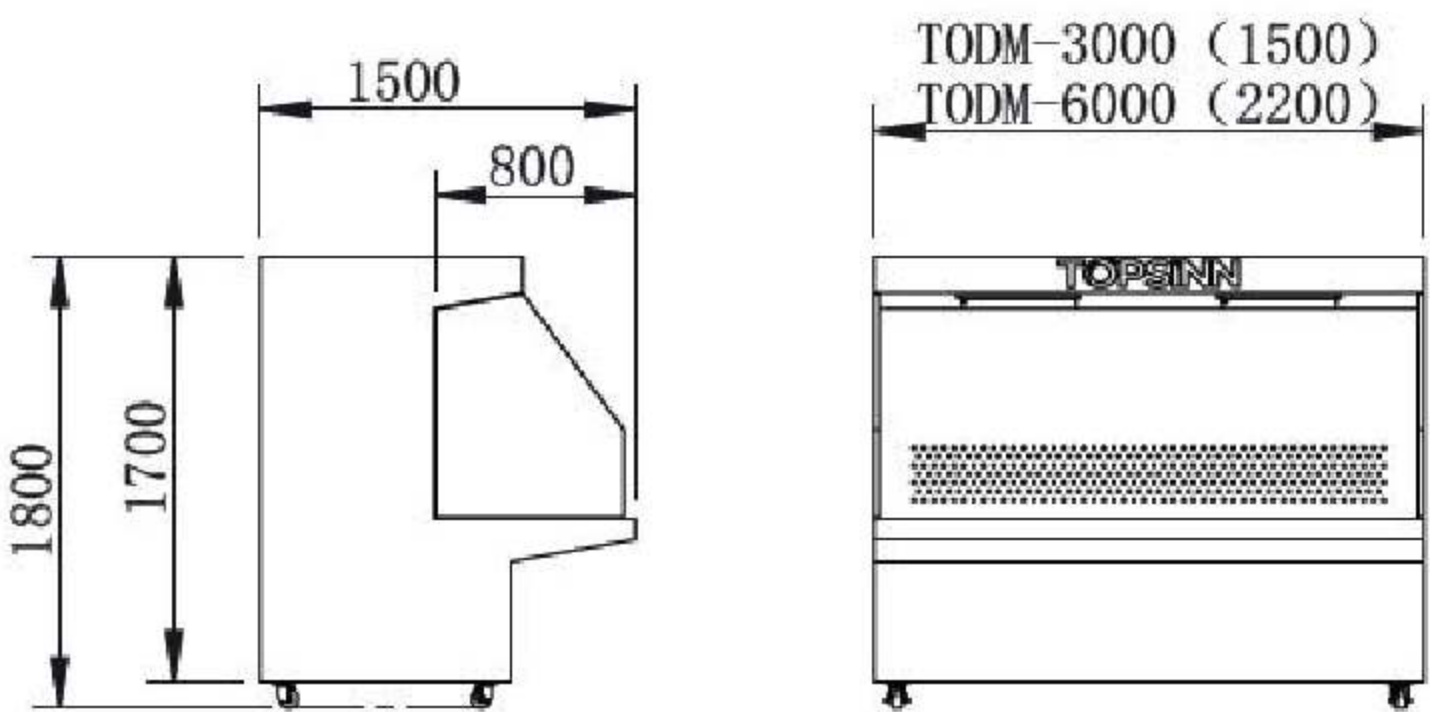
配置描述

Model	TODM-3000/6000
Light	In-built LED
Flexibility	Baffle Open
Operation Panel	Mark clear,easy operation
Filter	High efficiency filtration
Pulse backblowing	Pulse control
Movable	Wheels with brake
Energy saving(optional)	Inverter control



Supports inverter control

TODM Series Grinding Table



	TODM-3000	TODM-6000
Filter cartridge material	Flame retardant filter element,F9	Flame retardant filter element,F9
Number of Filter cartridge	3	5
Air volume	3000m³/h	6000m³/h
Air pressure	1500	2000
Filtration efficiency	99.99%	99.99%
Filtering area	40m²	67m²
Entrifugal fan	3KW	2.2KW×2
Collector capacity	20L	30L
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Air pressure request	0.6MPa Compressed air without oil and water	0.6MPa Compressed air without oil and water
Unit weight	380KG	500KG
Outline Dimension (mm)	1500×1500×1800 (Length × width × height)	2200×1500×1800 (Length × width × height)
Emission concentration (mg/M³)	< 10	< 10



TODC – SH series Water Dust Collector

The TODC-SH series water dust collector is mainly designed to address the problems of grinding dust and cutting fumes in one step. The exhaust gas is introduced into the high-speed cyclone device by the fan. The dusty exhaust gas, cyclone and water swirl and rise in the cyclone cylinder, allowing the exhaust gas to be fully mixed with the mixed liquid. Under the action of centrifugal force, dust and liquid are separated. Combined with a high-pressure water spray system, the residence time of the dusty gas is prolonged, thereby optimizing the washing effect.

The main body is made of stainless steel and is equipped with two visual windows. The operation of the electric control box is clear and simple.

Working principle 工作原理

- Water mixing cyclone dust collector is under the effect of centrifugal force of cyclone deflector and high pressure water spray.Dust-containing gas rotates upward transversely,dust-containing gas stays longer and the washing effect is better.
- This product adopts high and new technology,which greatly improves productivity and safety.The water in there-circulation tank can be recycled to save waterresources.The water mist removal layer is to purify the water mist to achieve the purpose of dewatering the mist and protecting the fan.
- Dust-containing gas enters the cyclone and rises,and the iquid sprayed from the nozzle rotates and contacts,completing the task of dust removal.Through the action of centrifugal force,the particles in the exhaust gas are precipitated into the dust collection tank inside the water tank,and finally fished out and cleaned up manually,so that the gas is purified and discharged in compliance with the standard.

TODC-SH Series Water Dust Collector

	TODC-037SH	TODC-055SH	TODC-075SH	TODC-11SH
Fuselage material	SUS 201（standard）	SUS 201（standard）	SUS 201（standard）	SUS 201（standard）
Air volume	3000m³/h	4000m³/h	6000m³/h	9000m³/h
Air pressure	2700	3000	3600	5000
Filtration efficiency	99%	99%	99%	99%
Motor	3.7KW MOTOR	5.5KW MOTOR	7.5KW MOTOR	11 KW MOTOR
Entrifugal fan	3.7KW Entrifugal fan	5.5KW Entrifugal fan	7.5KW Entrifugal fan	11 KW Entrifugal fan
Electric box	Ordinary control electrical box	Ordinary control electrical box	Ordinary control electrical box	Ordinary control electrical box
Swirl barrel	Ø 500	Ø 600	Ø 700	Ø 900
Water tank	42L	64L	72L	105L
Water pump	1.5KW	1.5KW	1.5KW	1.5KW
Pump flow	11.7m³/h	12.5m³/h	12.5m³/h	11.75m³/h
Pump head	10m	20m	20m	28m
Power requirments	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V	THREE-PHASE FOUR-WIRE, 380V
Unit weight	About 600KG	About 700KG	About 900KG	About 1100KG
Standard Outline Dimension (mm)	1500*900*2500	1650*1000*2700	1650*1000*2800	1950*1100*2900
High-efficiency Outline Dimension(mm)	1500*900*3000	1650*1000*3100	1650*1000*3200	1950*1100*3600

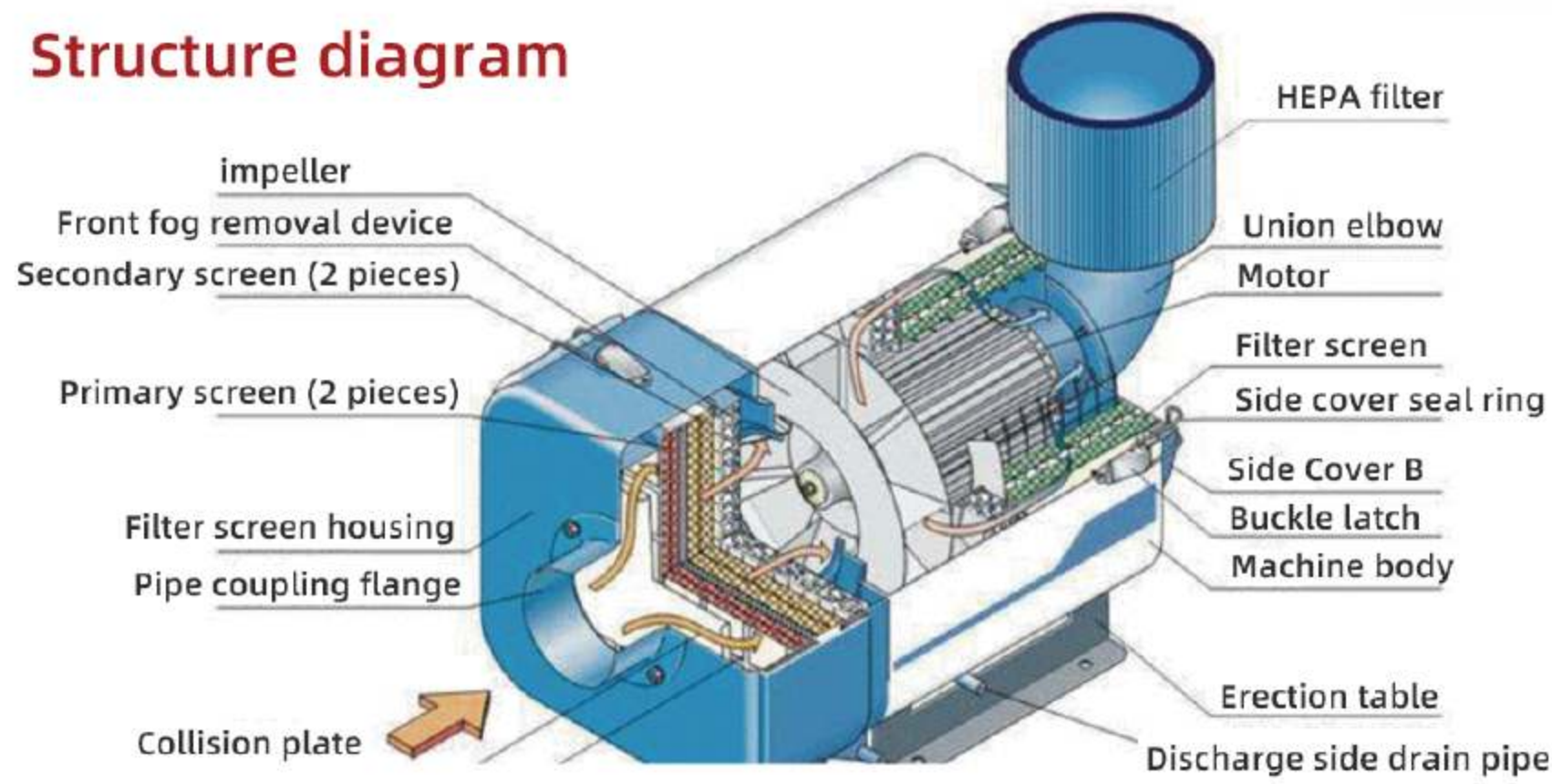
TOMC SERIES OIL MIST SEPARATOR

WHY?

- Oil mist can damage electrical switch gear and circuits
- Oil mist causes the ventilation duct coating potential fire hazard
- Environmental regulations and workers'health are gaining more attention.



Structure diagram



WORKING PRINCIPLE:

- 1.Remove the oil mist at source
- 2.Use centrigual action to remove oil mist in the air
- 3.the collected oil is returned to the machine
- 4.Clean air return to the workplace
- 5.Improve the efficiency of oil mist purification by adding a post filter

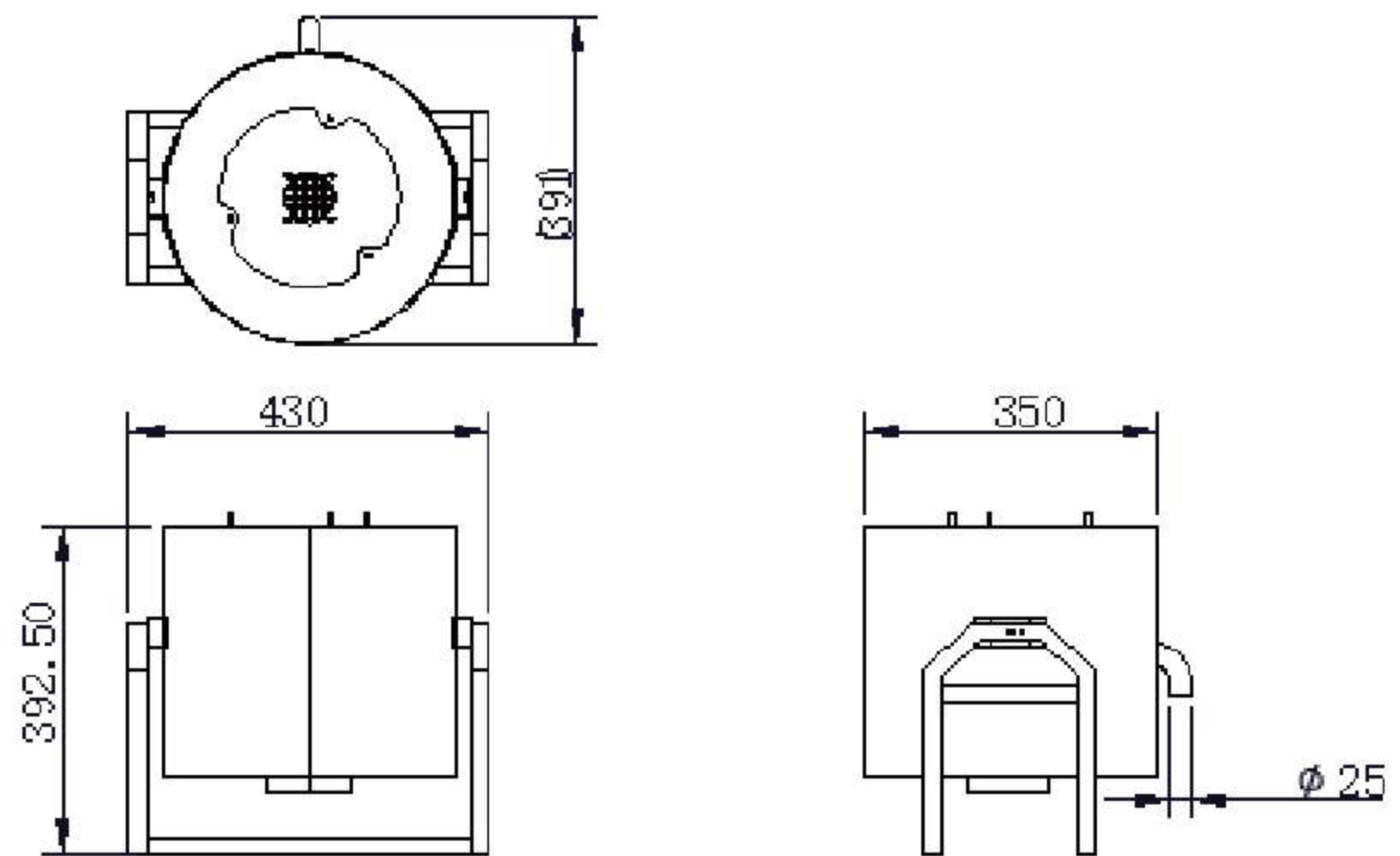
Model	TOMC-020	TOMC-037	TOMC-075	TOMC-075H
Motor Power (KW)	0.2	0.37	0.75	0.75
Voltage (V/Hz)	380/50	380/50	380/50	380/50
Max.Flow (m³/h)	350	390	630	630
Max Negative Pressure (pa)	500	870	1600	1600
Air Inlet Dia. (mm)	100	100	150	150
Noise (dB)	62	64	74	74
Filter Mode	Centrifugal + HEPA filter element	Primary effect plate frame+HEPA filter element	Primary effect plate frame+Medium efficiency filter element	Primary effect plate frame+Medium efficiency filter cartridge+High efficiency box filter element
Filtration Efficiency	> 99%	> 99%	> 96%	> 99%
Applications	Lathing, Precision carving machine	650 850	Above 850	

TOMC-020 Centrifugal Oil Mist Separator



- Compact structure and small size
- Direct installation, taking up less space
- Plug-in filter element, easy to maintain
- Low running noise, lower than 62dB
- Centrifugal separation, high efficiency and energy saving
- High-efficiency motor, power-saving and maintenance-free

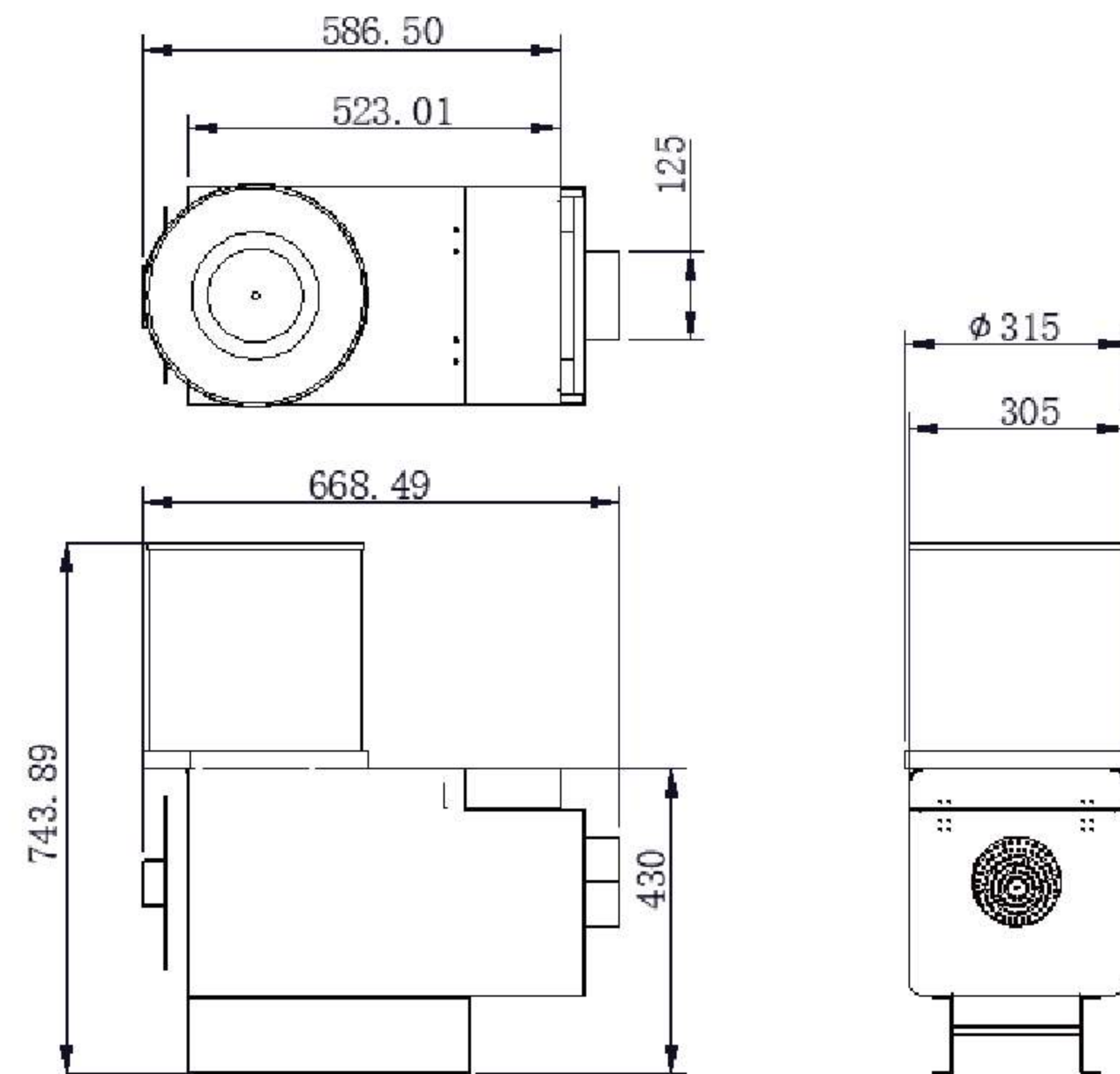
It is used to colect and purifythe il mist of the cuting fluid of the CNC machine tool.The integrated struoture has the advantages of low noise and low vibration.It is suitable forlathes,grdnrs,miling machines,CNC machine centers,electrical discharge machining,high-speed engraving machines,and the recovery of oil fume and oil mist generated ultrasonic cleaning ,anti-rust liquid spray,heat treatment etc.



TOMC-020 Outline Dimension

TOMC-037 Horizontal Oil Mist Separator

- It is an integrated horizontal design. It is specially designed for oil mist collection, filtration and purification of water-soluble cutting fluid of CNC machine tools. It is suitable for the bed with a hollow space of less than 2m³ in the processing chamber.
- The fan power is composed of a high-efficiency motor and a wind blades, the integrated compact design ensures the air volume and pressure and reduces the volume.
- Plate and frame mechanical design, quick release design, each stage filter can be disassembled separately, easy to replace.
- Installation method: install the machine base on the top of the machine tool through screws and nuts, the basic dimensions are as follows:



TOMC-037 Outline Dimension

The oil mist generated during the CNC machining process is sucked into the oil mist separator, which rotates at a high speed in the interior under the action of the fan, and most of the oil mist is condensed and collected by centrifugal force, and then flows into the CNC through the return pipe. The air is filtered through the back-end filter element and discharged to the atmosphere.

TOPSINN HONOR CUSTOMERS



Just show some customers, in no particular order