



HIGH PRESSURE FOG CANNON

DongGuan Changyuan Spraying Technology Co.,Ltd

Dongguan Factory: Xiabian Industrial Zone, Chang 'an Town,
Dongguan City, Guangdong Province, China

Liuyang Factory: China Liuyang City, Hunan Province environmental
Science and Technology Demonstration Park

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公司简介

company profile



Hunan Plant



Guangdong factory

Dongguan Changyuan Spraying Technology Co., Ltd. was founded in 1997 and specializes in the development and manufacturing of various industrial spray products, spray systems, and precision parts. It was the first enterprise in China to focus on the development and production of nozzle spray products. With over 20 years of experience, it has become a leading company in domestic industrial nozzle production and research.

The company has the world's advanced nozzle processing equipment and precision testing instruments, with over 200 sets of CNC processing and testing equipment. With strong R&D and manufacturing capabilities, the company has developed over 10,000 specifications of atomizing nozzle products. These products are widely utilized in various industries such as steel, aviation, automotive, marine building, electronics, medical, chemical, paper, textile, machinery, agriculture, environmental protection, and energy, both domestically and internationally.

The company has passed ISO9001 quality management system and IATF16949 quality management certification, and has been awarded "Dongguan Private Technology Enterprise", "Guangdong Private Technology Enterprise", and "National High-tech Enterprise" consecutively. It is one of the few high-tech companies in the domestic nozzle field. It has been rated as a national high-tech enterprise for 12 consecutive years and has more than 50 patents. The company has introduced the world's high-end nozzle manufacturing and testing equipment. Most of the company's nozzle processing equipment is imported from Japan and Germany, and has established a very advanced particle size control system, and flow testing systems. The company has accumulated rich experience in manufacturing nozzles for the ship desulfurization industry, chemical tank cleaning industry, steel smelting industry, spray disinfection industry, and dry mist dust suppression industry. It also owns Wartsilä, Alfa Laval, Customers of world-renowned companies such as Tesla, 711 Research Institute, Shanghai Electric Power Construction, Three China Alliance, DJI UAV, etc., the CYCO nozzle trademark has enjoyed a very high reputation in the field of international industrial nozzles.

In 2022, the company established a wholly-owned subsidiary, Hunan Changyuan Spraying Technology Co., Ltd., in Liuyang, Hunan Environmental Protection Industry Demonstration Park, and established advanced production and testing lines at the Changyuan factory in Hunan, focusing on providing customers with precision spray systems, tank cleaning system, car cleaning system, etc. The company will equip advanced equipment and production and R&D personnel to provide customers with high-quality services and create value beyond expectations.

Enterprise Strength



精密加工设备



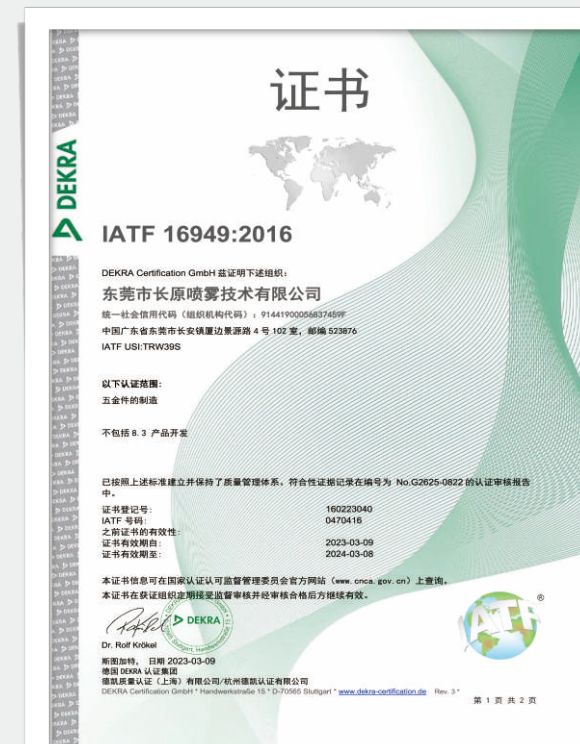
专利墙



荣誉墙



美国颗粒度检测仪



Has established cooperation with a number of top 500 companies



技术团队

1997/07

STARTED IN 1997 ESTABLISHED IN 2000

Dongguan Changyuan Spraying Technology Co., Ltd. was founded by Mr. Song Zhiming in 1997

2005/03

CYCO FOREIGN TRADE DEPARTMENT ESTABLISHED

After several years of rapid development, the products are exported overseas

2008/03

FIRST TIME SERVING A MAJOR INTERNATIONAL BRAND

Became a major supplier of nozzles to Whirlpool Corporation in the U.S.

2012/11

OBTAINED IATF16949 SYSTEM CERTIFICATION

Become a Tesla automobile supplier products continue to this day

2013/03

ENTERING THE SHIPBUILDING INDUSTRY

Supply of flue gas conditioning nozzles, cabin washers and other products for shipbuilding companies

2015/5

ESTABLISHED COOPERATION WITH MANY TOP 500 COMPANIES

Has Sany, Zoomlion, DJI and other high-quality customers

2020/03

EXPANSION OF PRODUCTION AND ESTABLISHMENT OF A SUBSIDIARY

Established Hunan Changyuan Spray in Liuyang To better serve our customers

2023-至今

BECOME A SPECIALIZED, SPECIALIZED AND NEW ENTERPRISE

Strengthen research and development efforts, implement innovative routes, and develop benignly

Quick Reference Guide

Model	Quiet wind range (m)	Water mist particle diameter (μm)	Coverage area (m²)	Fan power (KW)	Water pump power (KW)	Total power (KW)	Pitch angle	Rotation angle	Nozzle quantity	Weight (KG)
CYWP-20 	20~25	30~150	≤1900	2-1.5	2-1.1	≤4	-5~35°	0~340°	12	260
CYWP-30 	25~35	30~150	≤2700	2-2.2	2-1.5	≤6	-5~35°	0~340°	12	290
CYWP-40 	40~50	30~150	≤4800	2-7.5	2-2.2	≤14	-5~35°	0~340°	24	440
CYWP-50 	55~60	30~150	≤7600	2-11	2-3	≤19	-5~35°	0~340°	24	530
CYWP-60 	60~70	30~150	≤10900	2-15	2-3	≤26	-5~35°	0~340°	30	640
CYWP-70 	70~80	30~150	≤14900	2-22	2-4	≤30	-5~35°	0~340°	36	850
CYWP-80 	75~85	30~150	≤19500	2-30	2-5.5	≤45	-5~35°	0~340°	46	960

Quick Reference Guide

Model	Quiet wind range (m)	Water mist particle diameter (μm)	Coverage area (m²)	Fan power (KW)	Water pump power (KW)	Total power (KW)	Pitch angle	Rotation angle	Nozzle quantity	Weight (KG)
CYWP-90 	80~90	30~150	≤24700	4-37	2-7.5	≤57	-5~35°	0~340°	70	1580
CYWP-100 	90~100	30~150	≤30500	4-45	2-7.5	≤70	-5~35°	0~340°	70	1610
CYWP-110 	100~110	30~150	≤36900	4-55	2-11	≤75	-5~35°	0~340°	100	1850
CYWP-120 	110~120	30~150	≤43900	4-75	2-15	≤92	-5~35°	0~340°	110	2350
CYWP-140 	110~140	30~150	≤59800	4-75	2-18.5	≤96	-5~35°	0~340°	120	2850



Product introduction

The working principle of the fog cannon is to use a high-pressure water pump and a fine atomizing nozzles to atomize water, and then use the high-speed airflow generated by the fan to push the water mist to a long distance. The water mist and dust condense and fall, thereby achieving the purpose of dust reduction. The fog cannons (ordinary type/explosion-proof type) designed and manufactured by our company have independent intellectual property rights (utility model and appearance patent). They have the characteristics of long range, wide coverage and high work efficiency, which provide a strong guarantee for dust pollution control. It has significant effects on urban greening and the prevention and control of agricultural and forestry plant diseases and insect pests. It is suitable for industrial and biological epidemic prevention operations such as cooling, disinfection and sterilization in public places. It plays an irreplaceable role in purifying the air, beautifying the urban environment, and building a harmonious and healthy humanistic environment.

Product advantages

1. It has long effective range, wide coverage, high work efficiency, and can realize directional and quantitative spraying;
2. The dust reduction effect is good, the mist particles are fine and uniform, and dust suppression and dust reduction can be quickly achieved;
3. There are many supporting power options, including industrial electricity, generator set power supply or hydraulic drive;
4. The installation methods are diverse, it can be installed on transport vehicles, cement platforms or steel frame platforms;
5. Easy and flexible operation (automatic, semi-automatic, manual), safe and reliable to use;
6. Significant water saving, saving 70~80% of water consumption than other dust suppression spraying equipment, and the coverage area is much larger than other spraying equipment;
7. It can be used for spraying and ventilation. When the water supply is stopped, it can be used for strong ventilation;
8. It can be used as a local fire extinguisher to effectively protect people's lives and property.

Technical features

The air outlet of the fog cannon is equipped with a stainless-steel water ring and a special nozzle. The water mist particles are uniform and concentrated. The nozzle is durable. The guide vanes adopt a sinusoidal copper tooth design, which effectively reduces aerodynamic noise.

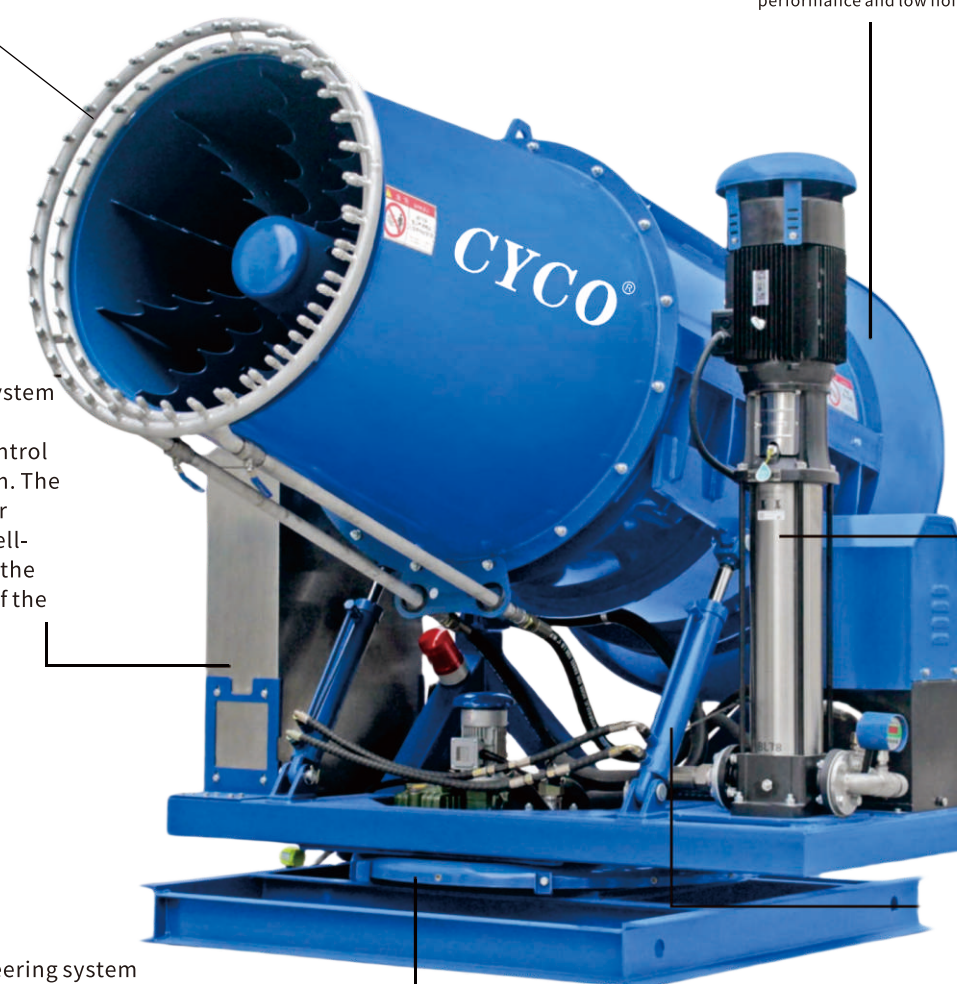
The impeller is made of aluminum alloy die-casting, and the blade shape is an airfoil design, with high efficiency, good aerodynamic performance and low noise.

The electronic control system uses PLC programmable controller as the core control component of the system. The remote control and other related parts are from well-known brands to ensure the stability and reliability of the control system.

The vertical stainless steel multi-stage core pump has a compact structure and saves equipment space; it does not need to add lubricating oil for maintenance. It is made of stainless steel and has excellent corrosion resistance.

The automatic steering system adopts a gear transmission structure and is controlled by a limit travel switch, which can meet any pitch angle of 360 degrees in the horizontal direction. The hydraulic system consists of two hydraulic cylinders and a hydraulic pump station, and is equipped with a locking device to operate smoothly and adapt to the needs of angular rotation.

The pitch angle hydraulic system consists of two hydraulic cylinders and a hydraulic pump station, and is equipped with a locking device to ensure smooth operation.



Function options



Noise reduction



Electric heating



Automatic water drain



Induction control



Explosion proof



water filtration



Frequency conversion



Ultra fine mist



Water shortage alarm



One button reset

Power supply type



Industrial electricity



Lithium battery pack



Local control



Remote control



Generator set



Non-standard customization



Cloud service



Host computer

Control mode

Application scenarios



Coal yard



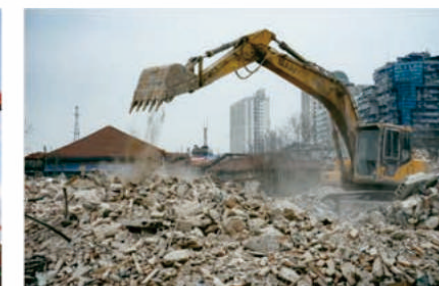
power plant



Metallurgical plant



Port



demolition site



construction site



Commercial concrete mixing station



Mining



Municipal garden



cement plant



Disinfection and epidemic prevention

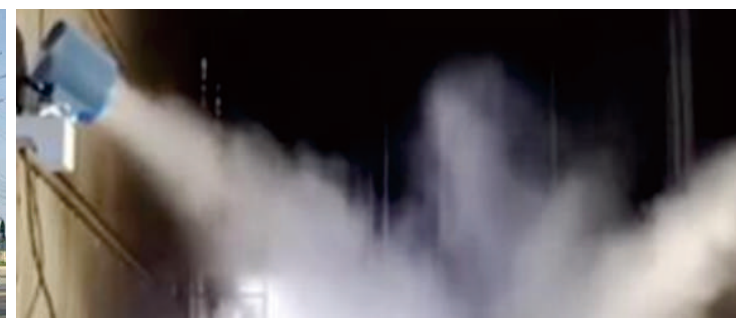
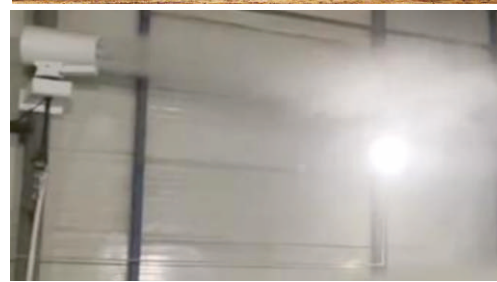


Orchard plant protection

Water pump type

- **Piston pump:** small size, high pressure, strong self-priming ability, small flow rate
- **Vortex pump:** small size, large flow rate, strong self-priming ability, easy maintenance
- **Stainless steel multi-stage centrifugal pump:** large flow, high pressure, high efficiency and energy saving, smooth operation, maintenance-free

Customer case



After-sales service



- One-year warranty and lifetime maintenance
- Customer service is online 24 hours a day and responds quickly
- Door-to-door service within 24 hours within and outside the province
- Lifetime free technical consulting service
- Customer maintenance personnel free guidance training
- Discounted price for configuration upgrade

