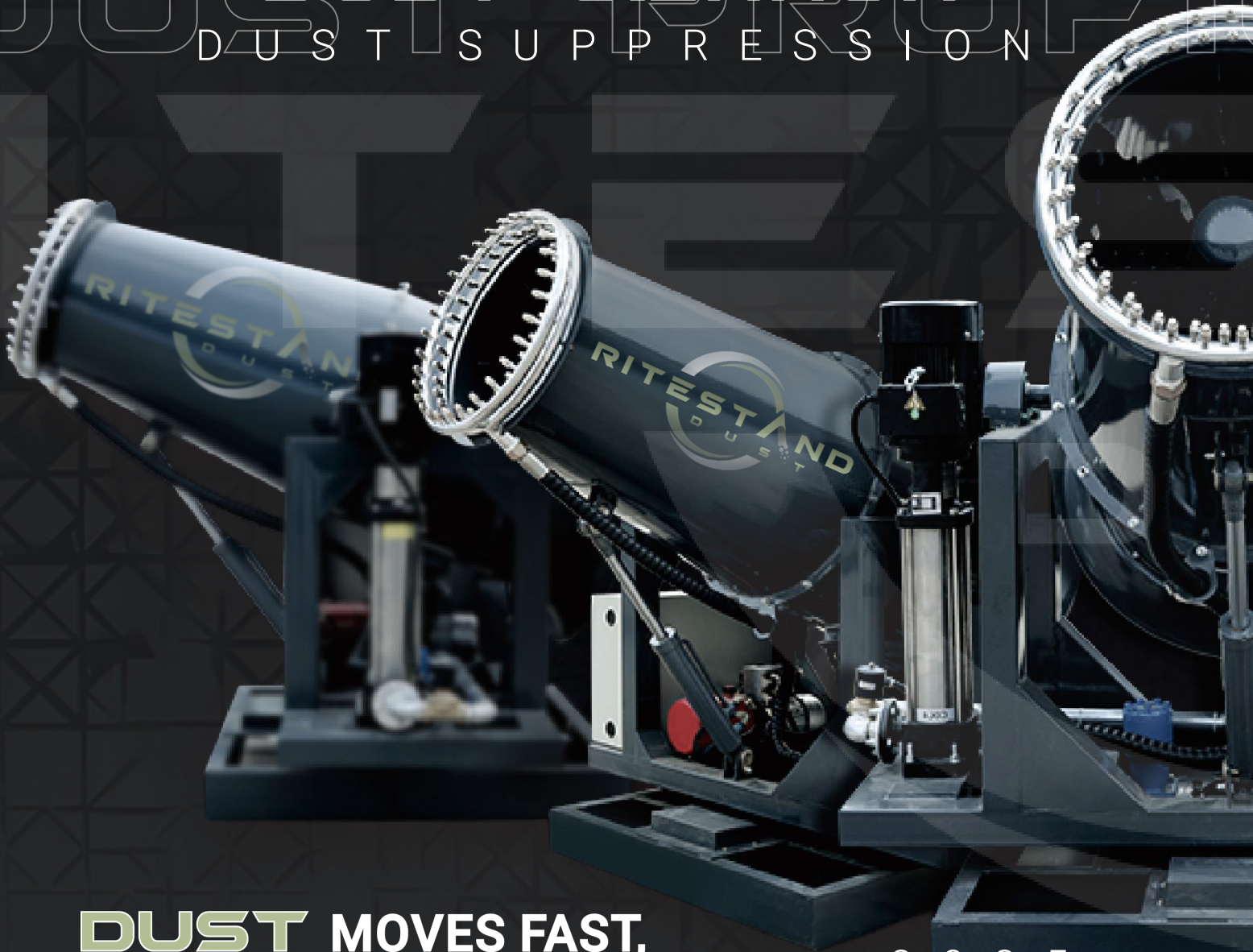




# DUST CANNON

DUST SUPPRESSION



**DUST MOVES FAST,  
WE MOVE FASTER.**

2025

The second generation of intelligent fog cannon is widely used in metallurgical steel works, port bulk cargo terminals, coal chemical factories, thermal power plants, cement plants and other industries of dust management and intelligent control. This kind of remote fog cannon can effectively inhibit dust, dust, prevent the appearance of haze. Ritestand fog cannon in addition to dust and haze, but also can be used in a variety of different occasions. The first is the places where the value of PM2.5 in the air exceeds the standard. These places include factories that produce large amounts of dust during production, construction sites, open-air storage plants for materials and mineral products, demolition areas and other areas. The third is areas that need extensive disinfection and plague prevention, such as areas that have experienced natural disasters or waste dumps, or where a lot of waste is incinerated. Finally, there are densely populated areas, such as the city's business district, school park square and so on.

## THE SECOND GENERATION INTELLIGENT ENVIRONMENTAL PROTECTION FOG CANNON

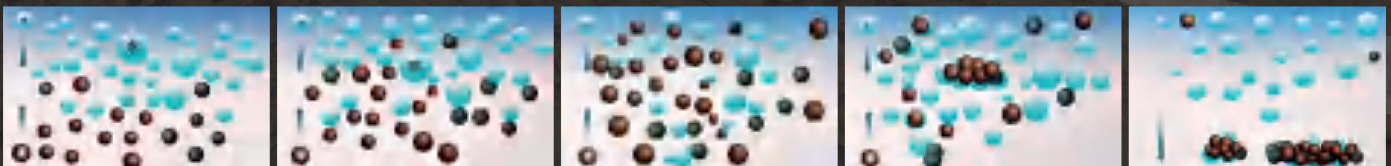
The working principle of fog cannon is to use a high-pressure water pump to pressurize the water, and send the high-pressure water to the sprinkler head of the fog cannon through the anticorrosive pipeline. The pressure generated by the water pump then passes through the special sprinkler head to produce 20-200 $\mu$ m particles of water mist and some negative ions; The fan is then driven by a motor running at a high speed, creating a high velocity airflow that transports water mist and negative ions high into the air.

### 1.COMBINATION REACTION

In the water spray (also known as the Lenard effect), water droplets break up. The water molecules break up and lose electrons to become positive ions. Oxygen molecules in the surrounding air capture these electrons and become negative ions with small sizes. The pollutants in the air are mostly positively charged. The negative ions produced by the water spray seek out positively charged particles such as dust, smoke and soot and cause them to fall to the ground. The combination of negative ions and positive ions can play a plasma sterilization effect, floating in the air around the bacteria at the same time there are a large number of positive ions, negatively charged negative ions and the charge of these positive ions will produce an electric field, in the positive and negative ion neutralization discharge, you can put the bacteria electric shock to death.

### 2.PHYSICAL ADSORPTION

Due to the small particles of water mist, it can quickly contact and adsorb dust and other dust, forming a moist mist, which can rapidly increase the weight of dust and inhibit and settle.



# MOBILE FOG CANNON



The fog cannon adopts flat mobile trailer installation, easy turning, flexible operation, can be used sprinkler traction operation or other vehicles independent traction operation.



# APPLICATION CASE



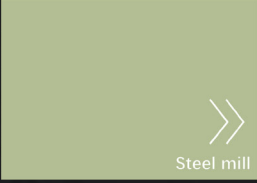
Port



Export



Steel mill



Resource Depot



Coal industry works



Chemical industry



Power plant



Municipal garden





We have built a strong reputation for our expertise, dedication, and customer service excellence. Our team is composed of highly skilled professionals who are committed to delivering innovative solutions and exceptional client experiences. From manufacturing to construction and beyond, we serve a diverse range of industries and customers, and we take pride in providing them with the best support possible.

As a business enterprise, we are constantly pushing the boundaries of what is possible. We are committed to investing in cutting-edge technologies, sustainable practices, and best-in-class manufacturing capabilities to deliver the best products and services in the industry. We strive to stay ahead of the curve and remain at the forefront of innovation and excellence in everything we do.

We believe that by working closely with our customers, we can find the best solutions to their challenges and help them achieve their business objectives. By combining our expertise and knowledge with their unique needs, we create dynamic and effective solutions that help them succeed.





**Technical specifications**

		RSC-01	RSC-02
Theoretical throw distance (without wind)	mtr	25-30	35-40
Type nozzles		304 stainless steel	
Number of nozzles		30	40
Weight	kg	260	350
Water consumption	m <sup>3</sup> /h	1.8	2.2
Water supply pressure (min-max)	Mpa	0.6	0.6
Water coupling		DN40 outer wire	
Water Pump	Kw	1.5	1.5
Nominal fan power	Kw	3	7.5
Voltage	V	220~440/ (50Hz、60Hz) / 3P	
Rotation angle		0 - 180°/270°/360°	
Tilting angle (+45/-10)		55°	
Standard dimensions (l*w*h)	mm	1440*800*1750	1800*950*1980

**Features**

Electrically operated rotation	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Hydraulic operated rotation	<input type="radio"/>	<input type="radio"/>
Mechanically operated tilting	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Control panel with switches	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Water consumption meter	<input type="radio"/>	<input type="radio"/>
Electrically operated tilting	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Remote control	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Control panel with touchscreen	<input type="radio"/>	<input type="radio"/>

● Standard

○ Option



**Technical specifications**

		RSC-03	RSC-04
Theoretical throw distance (without wind)	mtr	45-50	55-60
Type nozzles		304 stainless steel	
Number of nozzles		50	60
Weight	kg	520	600
Water consumption	m <sup>3</sup> /h	3	3.8
Water supply pressure (min-max)	Mpa	1.1	1.4
Water coupling		DN40 outer wire	
Water Pump	Kw	3	4
Nominal fan power	Kw	11	18.5
Voltage	V	220~440/ (50Hz、60Hz) / 3P	
Rotation angle		0 - 180°/270°/360°	
Tilting angle (+45/-10)		55°	
Standard dimensions (l*w*h)	mm	1800*1650*1500	1950*1760*1680

**Features**

Electrically operated rotation	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Hydraulic operated rotation	<input type="radio"/>	<input checked="" type="radio"/>
Mechanically operated tilting	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Control panel with switches	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Water consumption meter	<input type="radio"/>	<input type="radio"/>
Electrically operated tilting	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Remote control	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Control panel with touchscreen	<input type="radio"/>	<input type="radio"/>

● Standard

○ Option



**Technical specifications**

		RSC-05	RSC-06
Theoretical throw distance (without wind)	mtr	65-70	75-80
Type nozzles		304 stainless steel	
Number of nozzles		70	80
Weight	kg	700	1300
Water consumption	m <sup>3</sup> /h	8	9.6
Water supply pressure (min-max)	Mpa	1.3	1.6
Water coupling		DN40 outer wire	
Water Pump	Kw	5.5	7.5
Nominal fan power	Kw	22	37
Voltage	V	220~440/ (50Hz、60Hz) /3P	
Rotation angle		0 - 180°/270°/360°	
Tilting angle (+45/-10)		55°	
Standard dimensions (l*w*h)	mm	2050*1860*1780	2300*2000*2060

**Features**

Electrically operated rotation	●	●
Hydraulic operated rotation	●	●
Mechanically operated tilting	●	●
Control panel with switches	●	●
Water consumption meter	○	○
Electrically operated tilting	●	●
Remote control	●	●
Control panel with touchscreen	○	○

- Standard
- Option





**Technical specifications**

		RSC-07	RSC-08
Theoretical throw distance (without wind)	mtr	95-100	110-120
Type nozzles		304 stainless steel	
Number of nozzles		100	100/120
Weight	kg	1850	2100
Water consumption	m <sup>3</sup> /h	14	16.8
Water supply pressure (min-max)	Mpa	1.9	1.9
Water coupling		DN40 outer wire	
Water Pump	Kw	11	15
Nominal fan power	Kw	55	75
Voltage	V	220~440/ (50Hz、60Hz) / 3P	
Rotation angle		0 - 180°/270°/360°	
Tilting angle (+45/-10)		55°	
Standard dimensions (l*w*h)	mm	2550*2200*2400	3000*2250*2500

**Features**

Electrically operated rotation	●	●
Hydraulic operated rotation	●	●
Mechanically operated tilting	●	●
Control panel with switches	●	●
Water consumption meter	○	○
Electrically operated tilting	●	●
Remote control	●	●
Control panel with touchscreen	○	○

- Standard
- Option

# RITESTAND DUST

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