

## Dust Collection Systems

### Product Brochure

MUSI Technology - Spray Coating Specialist

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## Product Overview

MUSI dust collection systems capture and filter particulates from coating, sanding, welding, cutting, and machining operations to meet workplace air quality standards and environmental emission limits. Our portfolio covers pulse-jet bag filters, cartridge collectors, cyclone separators, wet scrubbers, and complete factory-wide centralized systems.

### Capabilities

#### Pulse-Jet Bag Filter

Industrial bag filter with automatic pulse-jet cleaning - high-efficiency capture of paint overspray, grinding dust, and welding fume.

#### Cartridge Dust Collector

Compact dust collection with PTFE-coated polyester cartridges for fine dust (powder coating, laser cutting fumes).

#### Cyclone Separator

Pre-separator for heavy and coarse dust ahead of bag/cartridge filters.

#### Wet Scrubber

Wet-type particulate and acid mist scrubbing for spray booth exhaust and chemical process gases.

#### Central Dust Collection

Factory-wide centralized system serving multiple workstations from a single filter unit.

#### Controls

PLC + VFD with HMI touchscreen, automatic differential-pressure-based cleaning.

## Product Range and Options

### Pulse-Jet Bag Filter

5,000-200,000 m<sup>3</sup>/h. PTFE / polyester needle felt bags. Online or offline cleaning.

### Cartridge Dust Collector

3,000-100,000 m<sup>3</sup>/h. PTFE-coated polyester or nanofiber cartridges.

### Cyclone Separator

1,000-50,000 m<sup>3</sup>/h. Single or 1-12 multi-cyclone.

### Wet Scrubber

2,000-80,000 m<sup>3</sup>/h. SS304 / PP / FRP tank options.

### Central System

20,000-500,000 m<sup>3</sup>/h. 5-100 suction points.

## Typical Applications

- Powder coating booth exhaust (cartridge)
- Sanding rooms and welding fume collection (bag)
- Pre-cleaning of high-dust streams (cyclone)
- Spray booth wet exhaust and acid mist (wet scrubber)
- Factory-wide multi-station dust collection (central)
- Laser/plasma cutting fume extraction

# Performance Specifications

Standard configuration ranges. Custom designs available on request:

Parameter	Range / Value
Air volume range	1,000 - 500,000 m <sup>3</sup> /h
Filter materials	PTFE, polyester needle felt, nanofiber, P84
Filtration efficiency	>=99.9% (>=1 um) / >=99.99% (>=0.3 um)
Outlet emission	less than or equal to 5-10 mg/m <sup>3</sup>
Cleaning method	Pulse-jet, online or offline
Pulse pressure	0.4-0.6 MPa compressed air
Pressure drop	800-2,500 Pa across filter
Service life - bags	2-4 years (typical)
Service life - cartridges	2-3 years (typical)
Compliance	GB-China, EU IED, US EPA NESHAP
Materials of construction	Carbon steel, SS304/316, FRP, PP
Energy consumption	3-15 kWh per 1,000 m <sup>3</sup> treated

## Why Choose MUSI

### Right Technology Selection

We match collector type to your dust load, particle size, temperature, humidity.

### Compliance Documentation

We provide emission test data and compliance certificates.

### Energy-Efficient Operation

VFD on fan, differential-pressure-based cleaning, heat recovery options.

## About MUSI Technology

Changzhou MUSI Environmental Technology Co., Ltd. is a leading Chinese manufacturer of industrial spray coating equipment with many years of dedicated experience serving global manufacturers. We design, engineer, manufacture and install complete coating production lines for automotive, home appliance, metal hardware, furniture, heavy machinery, aluminum profile, and energy storage industries.

Indicator	Value
Manufacturing Facility	28,000 sqm modern plant in Changzhou
Employees	200+ engineers, technicians, and skilled workers
Quality Systems	ISO 9001 / ISO 14001 / ISO 45001 certified
Intellectual Property	18 corporate certifications, 12 invention patents, 64 utility patents
Global Reach	36+ countries served, 500+ active clients
Lines Delivered	800+ complete coating production lines
R&D Investment	8% of annual revenue reinvested in R&D

# Contact MUSI Technology

For inquiries, technical questions, or to request a custom quotation, please contact our sales engineering team:

Channel	Details
Sales Email	lin@coating-spray.com
Phone (Sales)	+86 181 5173 1332
WhatsApp	+86 181 5173 1332
Website	https://coating-spray.com
Headquarters	Wujin Industrial Park, Changzhou City, Jiangsu Province, China
Business Hours	Monday-Saturday 08:30-18:00 (GMT+8)
Response Time	Sales inquiries within 24 hours, technical proposals within 5-7 business days

## How We Engage

### Step 1 - Discovery

Share workpiece specifications, target throughput, color count, facility layout, and budget. Engineers respond with technical questions within 24 hours.

### Step 2 - Process Simulation

We model your line in 3D, simulate cycle time and energy consumption, and provide a baseline ROI analysis.

### Step 3 - Proposal and Quotation

Detailed technical proposal with layout drawings, equipment list, payment terms, and delivery schedule.

### Step 4 - Manufacturing

Custom fabrication in our 28,000 sqm facility under ISO 9001 QMS. Progress photos shared via customer portal.

### Step 5 - Factory Acceptance Test

You witness or remotely observe pre-shipment testing.

### Step 6 - Site Installation

MUSI engineers travel to your site for installation, commissioning, and operator training.

### Step 7 - Aftersales Support

Warranty support, remote diagnostics, preventive maintenance, and spare parts supply via our global network.