

Automatic Spray Lines

Product Brochure

MUSI Technology - Spray Coating Specialist

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Product Overview

MUSI automatic spray coating production lines integrate pretreatment, robotic or reciprocator spraying, curing oven, and conveyor systems into a single continuous line for medium-to-high volume OEM manufacturers. Each line is engineered to your specific workpiece geometry, throughput target, and color count, with full PLC-MES integration for traceability and process control.

Capabilities

Conveyor Systems

Overhead chain, power-and-free, floor monorail, or roller conveyor options. Speed 1-10 m/min variable.

Pretreatment

3 to 7-stage spray or dip pretreatment: degrease, rinse, phosphate or silane conversion, passivation, deionized rinse.

Spray Stations

Reciprocator, robotic (6-axis ABB/FANUC/KUKA), bell, disc, or manual touch-up depending on geometry.

Curing Ovens

Convection, IR, UV, or combined. Multi-zone temperature control 60-220 deg C. Gas or electric.

Control

Siemens S7-1500 PLC, KTP touchscreen HMI, Profinet network. Recipe management for multi-product runs.

Throughput Range

50 - 3,000 sqm/hour or 100 - 50,000 pcs/shift depending on cycle time and workpiece.

Product Range and Options

Overhead Chain (OHC)

For light parts up to 50 kg per hanger. Hanger spacing 200-600 mm. Most common for hardware, appliances, profiles.

Power-and-Free

For heavy parts up to 500 kg per hanger and stop-stations. Used for automotive and machinery.

Floor Conveyor

For oversized parts on jigs. Speed-adjustable trolley system.

Robotic Flexible Cell

6-axis robot with 3D vision for complex parts. 30-90 sec cycle. See separate TDS.

Modular Design

Pretreatment / paint / oven modules can be added or rearranged in future capacity expansion.

Typical Applications

- Automotive body parts, bumpers, wheel hubs, interior components
- Home appliance shells: radiators, AC outdoor units, refrigerator panels
- Metal hardware: fasteners, hinges, lighting fixtures, hand tools
- Furniture: chair frames, table bases, wooden panels
- Aluminum profiles: window frames, fence panels, curtain walls
- Heavy machinery: excavator booms, agricultural equipment
- Energy storage: ESS containers, electrical cabinets

Performance Specifications

Standard configuration ranges. Custom designs available on request:

Parameter	Range / Value
Conveyor speed	1 - 10 m/min variable (VFD)
Hanger load capacity	5 - 500 kg per hanger
Pretreatment stages	3 / 5 / 7 stage spray or dip
Spray stations	2 - 24 reciprocators or 1 - 12 robots
Curing oven length	12 - 60 m, multi-zone
Curing temperature	60 - 220 deg C +/- 3 deg C
Total line length	50 - 500 m (custom layout)
Throughput	50 - 3,000 sqm/h or 100 - 50,000 pcs/shift
Energy consumption	15 - 80 kWh per ton coated (with heat recovery)
Control system	Siemens S7-1500 + HMI + MES interface
Compliance	ISO 9001, ATEX (solvent zones), CE marking

Why Choose MUSI

Many Years of Application Experience

Hundreds of automatic lines delivered for automotive Tier-1, appliance OEMs, and hardware exporters. Each project leverages accumulated process know-how.

Customization Without Bloat

We engineer only what your throughput and quality goals require - no oversized ovens or unnecessary spray stations driving up CapEx and OpEx.

Integrated Aftersales

Single point of accountability for the entire line.

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.