STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

SOLUTIONS

Wet Paint Systems

From positive pressure paint rooms to dry-filter booths, from conveyorised line-type booths to curing ovens for large parts such as aircraft wings: clean air, a controlled environment and repeatable coating.

Open online

strong3000.com/en/solutions/wet-paint-systems/



OVERVIEW

In Wet Painting, Quality Starts with the Environment.

In wet painting, surface quality is not decided by the spray gun alone but also by dust in the air, temperature, humidity and the direction of the airflow. STRONG3000 designs the paint room or booth, air supply and exhaust, filtration, lighting, drying and curing oven and conveyor as one system.

Clean Air

Filtered supply air; paint overspray is captured in the exhaust filters.

Positive Pressure

Slightly more air is supplied than extracted, so dust from outside cannot get in.

Controlled Environment

Optional temperature and humidity control for application conditions that do not depend on the season.

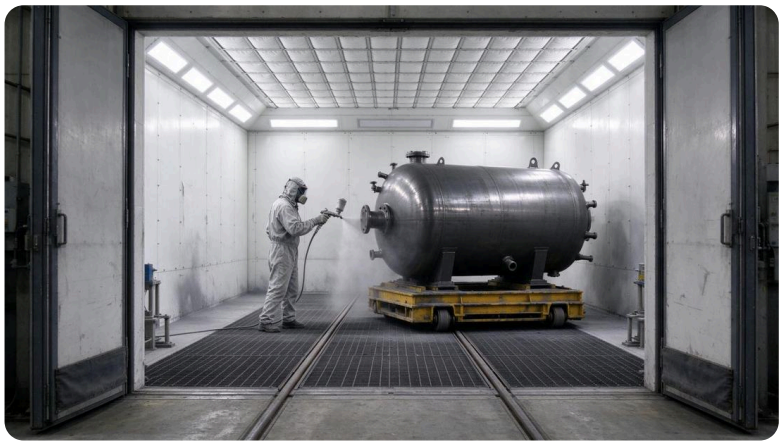
Controlled Curing

A temperature profile programmed to suit the part in the drying and curing oven.

SYSTEMS

From Room to Oven: Wet Paint Systems.

The system is configured to the part size, paint type and capacity: a dry-filter booth for one-off parts and small batches, a positive pressure room for large parts that need a clean finish, a conveyorised line for series production and an oven sized to the part for curing.



Enclosed room · Filtered air supply

Positive Pressure Paint Room

Filtered fresh air is fed into the room from a ceiling plenum. Because slightly more air is supplied than is extracted, the room stays at a slight overpressure relative to its surroundings and dust from outside cannot get in. Overspray and paint vapour are extracted through floor gratings or rear-wall filters.

- Filtered air supply from the ceiling
- Extraction through floor gratings or the rear wall
- Large interior volume and lighting for big parts



Dry filter · Rear-wall extraction

Dry-Filter Wet Paint Booth

In the booth, overspray is captured by dry filters on the rear wall; no water is used. It is a clean, well-lit application station for samples, touch-ups and low-to-medium volume work.

- Dry filters on the rear wall
- LED lighting on the side walls
- Samples, touch-ups and small batches



Series production · Overhead conveyor

Conveyorised Line-Type Wet Paint Booth

Parts pass through the booth tunnel on an overhead conveyor, and painting takes place in a continuous flow with operator windows and in-booth lighting. The booth is planned as one line together with pretreatment, flash-off and the curing oven.

- Continuous part flow on an overhead conveyor
- Tunnel booth with operator windows
- One line with pretreatment and oven



Walk-in oven · Large parts

Curing Oven for Aircraft Wings and Large Parts

Long, large parts such as aircraft wings are moved into the walk-in oven on their transport jig. Air ducts running along the walls distribute hot air through the oven, and the temperature profile of heat-up, hold and cool-down is programmed from the control panel.

- Interior sized to the part
- Air distribution ducts along the walls
- Programmable temperature profile



Temperature · Humidity control

Controlled Application Environment

Panel construction, climate control and air circulation keep the application zone under stable conditions. The room is planned together with the booth and application equipment.

- Temperature and humidity control
- Insulated panel construction
- Filtered air supply

PROCESS FLOW

From Pretreatment to Curing, One System.

Pretreatment
Degreasing and surface preparation

Application
In the room, booth or line

Flash-off
Solvent flash-off

Curing
Programmed temperature profile

Automation
Conveyor and control

APPLICATIONS

For Large, Heavy and Demanding Parts.

Aerospace
Aircraft wings, control surfaces and fuselage parts

Automotive & Commercial Vehicles
Cabs, bodies and chassis parts

Agricultural & Construction Machinery
Booms, buckets and large welded bodies

Rail Systems
Car body and bogie parts

Metal & General Fabrication
Machine frames, cabinets and sheet metal parts

Oversized Profiles
Long structural profiles too large for standard ovens

WHY STRONG3000?

The Engineering Difference.

We don't sell equipment and walk away; we stay with your line from design through commissioning and beyond.

Integrated Engineering
Machinery, electrical, automation and software under one roof — not sourced and assembled.

In-House Technology
Smart AI and OWL are original STRONG3000 technologies developed in-house.

Proven Experience
25+ years of engineering; installation, commissioning and service in 40+ countries.

24/7 Support
Phone, remote connection and 24/7 live support via WhatsApp.

Quotes & Technical Consulting

Tell us about your part, capacity and process. A STRONG3000 engineer will get back to you with a tailored proposal.

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FOR A QUOTE, PREPARE

- Product to Be Coated
- Max. Part Dimensions
- Required Capacity
- Number of Colors
- Daily Color Changes
- Coating Process
- Project Timeline

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering. This sheet summarises the product page on our website; scan the QR code for the latest information.