STRONG3000

TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

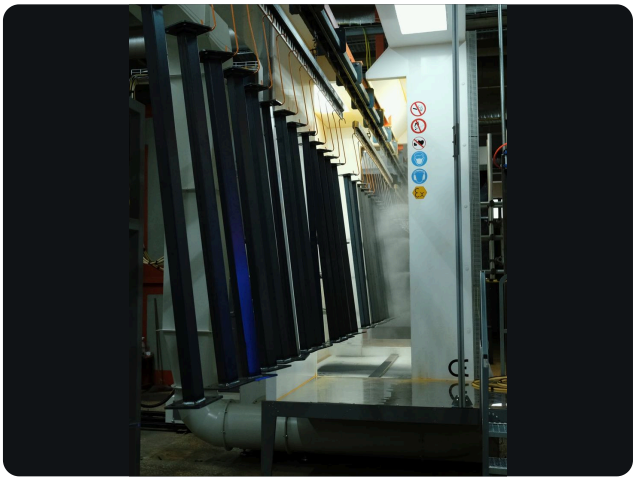
INDUSTRIES

Powder Coating Lines for Agricultural & Heavy Construction Machinery

From tractor chassis to trailer bodies, from fertilizer tanks to excavator booms — engineering-led surface finishing with automatic conveyorized powder coating, combined KTL + powder coating lines and turnkey paint shop solutions.

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strong3000.com/en/industries/agriculture/



OVERVIEW

Finishing Line Engineering for Agriculture & Heavy Industry Equipment.

Agricultural equipment and heavy construction machinery require surfaces that withstand soil abrasion, fertilizer chemistry, UV and constant impact loads. STRONG3000 engineers the entire process — from automatic conveyorized powder coating lines to combined KTL + powder coating lines, and from phosphate pretreatment lines to turnkey paint shops.



Standard parts and sheet metal components are powder coated at high efficiency; large chassis and assembled machines that do not fit in ovens are processed with a wet paint system. Fertilizer/slurry storage silos and tank interiors are protected with glass-hard electrostatic powder enamel. We design each part and line configuration together with you.

APPLICATIONS

Parts We Help Coat.

Below we summarize our part-by-part engineering/metallurgy approach; you can download the detailed technical datasheets (PDF).



POWDER COATING

Tractor & Construction Machinery Chassis (Main Frame)

Faraday effect inside box sections and at weld seams; zinc-rich epoxy primer + polyester topcoat for a finish that withstands field corrosion and impact.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Body Panels (Hood, Fenders, Cab Sheet Metal)

Color/gloss consistency and edge coverage are critical on large visible surfaces; UV-stable polyester powder for outdoor durability.

Technical Datasheet (PDF)



POWDER COATING

Wheels & Wheel Discs

Faraday effect at bolt holes and weld zones, stone chips at the rim edge; epoxy primer + polyester topcoat for impact and corrosion resistance.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Tillage Parts (Disc Harrow Blades, Plowshares, Chisels)

Edge coverage and adhesion are challenging on hardened steel; epoxy/polyester hybrid powder protects against storage/transport corrosion and chemicals.

Technical Datasheet (PDF)



POWDER ENAMEL

Fertilizer / Feed / Slurry Storage Silos & Tanks (Interior)

Non-porous coverage at panel edges and bolt holes is essential; a glass-hard vitreous enamel interior fired at ~780-850 °C resists the acidic chemistry and fluctuating pH of fertilizer/slurry.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Fertilizer Spreader & Crop Sprayer Tanks and Chassis

Aggressive fertilizer/agrochemical exposure and outgassing risk on galvanized substrates; epoxy-polyester hybrid powder and a controlled oven profile for chemical and UV resistance.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Trailer & Equipment Chassis and Sheet Metal Bodies

Faraday effect and moisture corrosion inside box sections and at body corners; zinc-rich epoxy primer + polyester topcoat for field-durable trailer chassis and sheet metal bodies.

Technical Datasheet (PDF)

OWL Integration

SOLUTIONS

The Right Finishing Line for Agricultural & Construction Machinery.

Turnkey Powder Coating Line

Automatic conveyorized powder coating plant with integrated phosphate pretreatment for tractor parts, panels and sheet metal components.

Pretreatment & Phosphate Line

Phosphating and chemical surface preparation systems for corrosion resistance in agricultural and heavy industry equipment.

Automation & Robotics

Robotic application with single- and two-axis reciprocators for consistent coating in high-volume agricultural equipment production.

Combined KTL + Powder Coating Line

Combined cathodic electrocoating (KTL) primer + powder coating turnkey paint shop for heavy industry and agricultural machinery chassis.

Smart AI Control

Adaptive intelligent control system for repeatable application and low powder waste across different part geometries.

WHY STRONG3000 FOR AGRICULTURE & HEAVY INDUSTRY

One Partner from Powder Coating Line to Turnkey Paint Shop.

Part sizes, substrate variety and chemical exposure vary widely in agricultural and heavy construction machinery production. STRONG3000 manages the entire finishing process as a single engineering partner — from phosphate pretreatment lines to automatic conveyorized powder coating booths, and from combined KTL lines to electrostatic powder enamel systems.

- ✓ Automatic conveyorized powder coating line & combined KTL + powder coating line
- ✓ Glass-hard electrostatic powder enamel for silo interiors; epoxy/polyester powder for chassis & body panels
- ✓ High-volume automation, cyclone recovery & turnkey paint shop



CASE STUDIES

Projects from the Field.

Selected projects from STRONG3000 plants in operation.



Powder Coating · Booth

Range Hood / Extractor Cover Powder Coating Booth

Electrostatic powder coating application booth for range hood and extractor covers.

Scope	**Powder coating booth**
Project No.	**1467**



Enamel Furnace · Pretreatment

Enamel Furnace, Washing & Drying Line

Sintering (enamel) furnace, washing and drying line for enameling plants.

Country	**Türkiye**
Project No.	**0851**



Wet Enamel · Automatic Line

Valve & Pipe Wet Enamel Line

Automatic line-type wet enamel plant for the inside and outside of valves and pipes. Filtered, stackless application booths.

Country	**Germany**
Project No.	**0638**

See all case studies →

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.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/industries/agriculture/

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.