ES-PRO TECHNOLOGY



The Electroplating and Surface Treatment Line PROfessionals

Established in Singapore in 2007, ES-PRO Technology is a trusted engineering partner delivering turnkey solutions for electroplating, anodizing, surface finishing, water treatment, and environmental systems. With strategic operations across Singapore, China, Malaysia, and Vietnam, supported by advanced manufacturing capabilities in China, we provide innovative, reliable, and sustainable solutions that empower manufacturers worldwide to achieve operational excellence and environmental compliance.



OUR SERVICES

ES-PRO provides integrated and customized solutions for surface treatment and environmental engineering systems, covering consultation, process design, engineering, manufacturing, installation, commissioning, maintenance, and after-sales support. We deliver reliable, efficient, and sustainable engineering solutions tailored to each customer's operational and production requirements.

1. Surface Treatment Lines

ES-PRO designs and manufactures complete surface treatment lines for cleaning, plating, anodizing, and chemical treatment processes, including nickel plating, chrome plating, bronze plating, titanium plating, copper plating, zinc plating, and related automated process systems.

2. Pure Water Treatment Systems

Design and supply of pure water / DI water systems to support surface treatment, plating, anodizing, and industrial processes.

3. Wastewater Treatment Systems

Complete wastewater treatment solutions for chemical, plating, anodizing, and industrial production lines, helping customers meet environmental discharge requirements.

4. Exhaust Gas Treatment Systems

Design and manufacturing of exhaust collection systems, scrubbers, ducts, and air pollution control systems for acidic, alkaline, and chemical fumes.

5. Maintenance & After-Sales Service

Regular maintenance, troubleshooting, system improvement, equipment inspection, and technical support to ensure stable and efficient operation.

6. Spare Parts, Consumables & Chemicals

Supply of replacement parts, process materials, consumables, and chemicals required for operation and maintenance of surface treatment lines.



OUR VISION

To be a trusted global partner in surface treatment and environmental engineering, providing innovative, reliable, and sustainable solutions that create long-term value for our customers.

HOW ES-PRO WORKS

At ES-PRO, every project is carried out through a structured and customer-focused approach to ensure reliable performance, practical operation, and long-term value.

1. Consultation & Requirements Understanding

We begin by understanding the customer's production requirements, process conditions, product specifications, factory layout, capacity needs, and project expectations.

2. Process Design & Solution Proposal

Based on the customer's requirements, our engineering team develops an optimized process flow and proposes a suitable technical solution, covering equipment configuration, automation, utilities, safety, and environmental considerations.

3. Engineering & Detailed Design

We prepare detailed engineering designs, including mechanical layout, tank design, piping arrangement, electrical control system, automation logic, and supporting utility systems.

4. Manufacturing & Quality Control

All equipment is manufactured according to approved drawings and project specifications. Key components and systems are inspected during production to ensure quality, reliability, and compliance with project requirements.

5. Installation & Commissioning

Our team supports equipment installation, system integration, PLC/SCADA setup, testing, commissioning, and process adjustment to ensure smooth and stable operation.

6. Training & After-Sales Support

We provide operator training, maintenance guidance, spare parts support, troubleshooting, and after-sales service to help customers operate the system safely, efficiently, and sustainably.

CORPORATE MILESTONES

2017

ES PRO Equipment Sdn Bhd was established in Malaysia

2015

ES-PRO Machinery Equipment Co., Ltd was established in China

2007

ES-PRO Technology Pte Ltd was established in Singapore

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2018

ES-PRO Technology Co., Ltd was established in China

2019

Achieved ISO 9001 Certification and standardized production management

2020

ES-PRO Automation Technology Co., Ltd was established in China

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2025

ES-PRO Intelligent Technology Co., Ltd was established in China

2024

Achieved triple ISO certification and became a governing member of the Guangdong Surface Finishing Association

2023

ESPRO Technology Co., Ltd. was established in Vietnam

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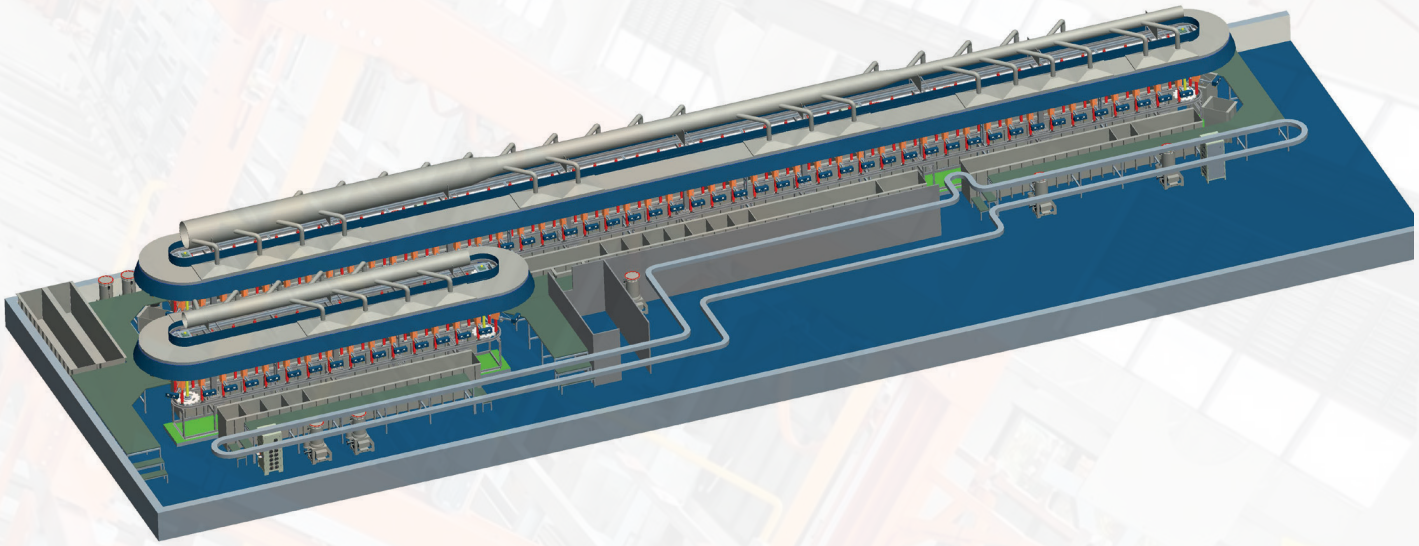
GLOBAL PROJECT FOOTPRINT

Successfully delivered projects across 13+ countries



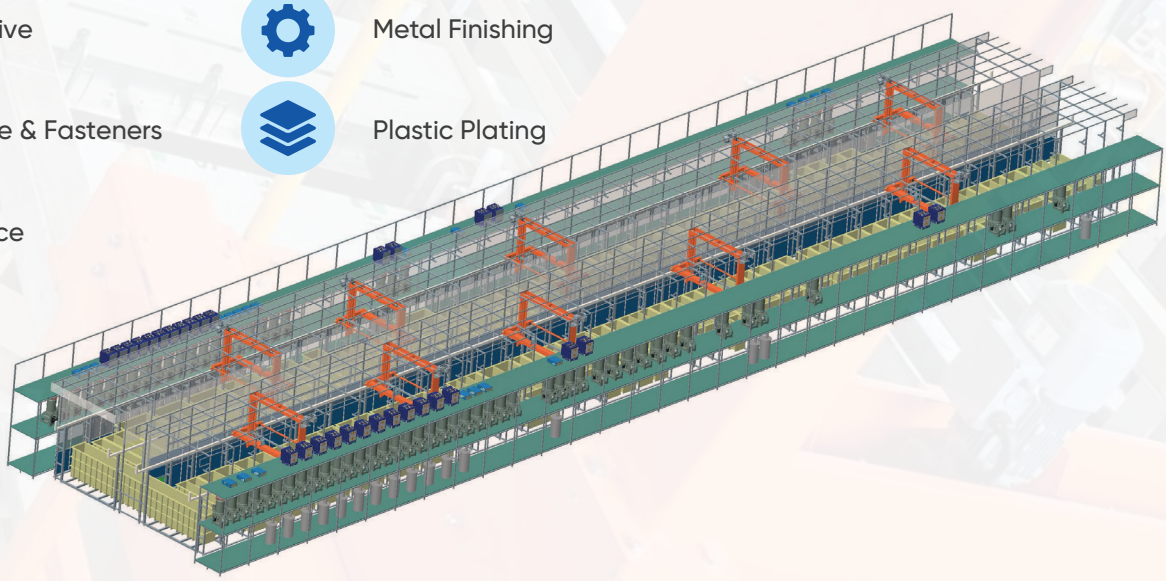


GLOBAL INDUSTRIES SERVED

We deliver advanced surface treatment solutions for diverse industrial sectors, supporting demanding process requirements with reliable, efficient and scalable production systems.

KEY SECTORS

- Semiconductor
- Electronics
- Automotive
- Hardware & Fasteners
- Aerospace
- Medical Devices
- Consumer Products
- Metal Finishing
- Plastic Plating



OUR CUSTOMERS

Trusted by leading manufacturers across semiconductor, electronics, automotive, and industrial sectors

OUR PARTNERS

PARTNER

SURFACE TREATMENT LINES



ES-PRO designs and manufactures customized surface treatment plants for various industries and production requirements. Our systems can be supplied as manual, semi-automatic, or fully automatic lines, depending on the customer's process flow, production capacity, product type, and factory layout.

MAIN CATEGORIES

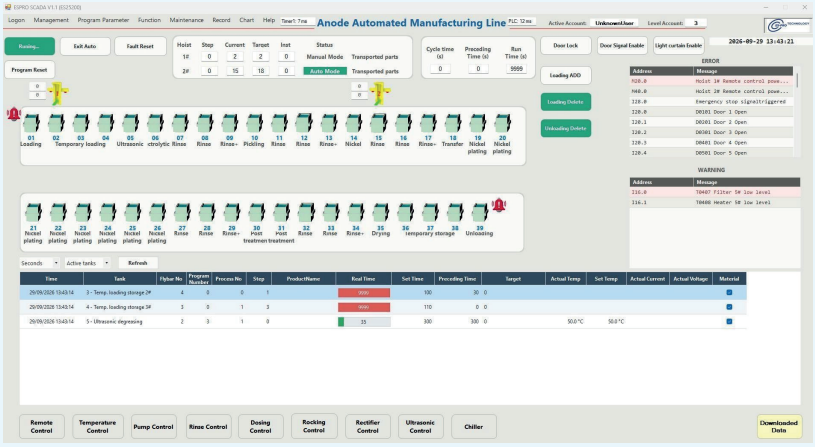
- Electroplating Lines
- Anodizing Lines
- Plastic & Special Material Plating Lines
- Chemical Treatment Lines
- Cleaning & Pre-treatment Lines
- Stripping lines

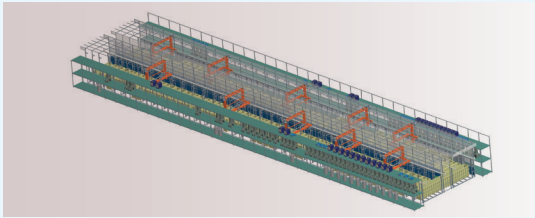


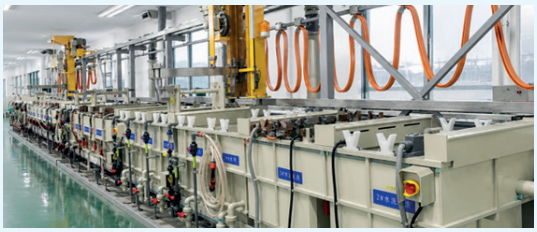


PROCESS AUTOMATION SYSTEM









SYSTEM CAPABILITIES

- Automatic process control according to customer-defined recipes and production parameters
- HMI and SCADA systems for easy operation, monitoring, and troubleshooting
- Robot, hoist, conveyor, and transfer system control
- Real-time monitoring of temperature, level, flow, pressure, current, voltage, pH, ORP, conductivity, and other process data
- Recipe management for different products and process programs
- Production tracking and process history recording
- Alarm monitoring, fault diagnosis, and safety interlock control
- Automatic generation of production reports, temperature reports, rectifier reports, and maintenance records
- Data traceability for quality control and process improvement
- Remote monitoring and customized system expansion upon request

EXHAUST GAS TREATMENT SYSTEMS



SYSTEM FEATURES



- Customized design based on exhaust air volume, static pressure, gas type, process layout, and local environmental requirements.
- Suitable for treatment of acid mist, alkaline exhaust, chemical fumes, and corrosive industrial gases.
- Main system components include scrubber tower, exhaust fan, ducting system, circulation pump, demister, pH sensor, chemical dosing unit, and control panel.
- Integrated monitoring system for fan operation, pump status, pH value, airflow/pressure, alarms, and maintenance reminders.
- Reinforced structure with corrosion-resistant materials such as FRP, PP, PPS, PVC, and stainless steel for stable and long-term operation.
- Designed to meet applicable environmental emission standards and regulations in different countries.
- Supports safer production, cleaner air discharge, lower environmental impact, and sustainable factory operation.

PURE WATER TREATMENT & WASTEWATER TREATMENT SYSTEMS



PURE WATER TREATMENT SYSTEM

- ES-PRO designs and supplies high-purity water generation systems to meet demanding process water requirements in surface treatment, electronics, pharmaceutical, and other precision industries.
- Each system is customized according to the required water quality, production capacity, site conditions, and process requirements.
- Solutions may include pretreatment, filtration, RO, EDI, polishing, sterilization, automatic monitoring, and PLC/HMI control.
- ES-PRO provides complete support from system design and equipment manufacturing to installation, commissioning, and technical service.

WASTEWATER TREATMENT SYSTEMS

- Specialized wastewater treatment solutions for the surface treatment industry, including electroplating, anodizing, cleaning, and chemical finishing processes.
- Systems are customized according to wastewater characteristics, treatment capacity, discharge requirements, and water reuse targets.
- Chemical treatment, heavy-metal removal, filtration, membrane treatment, automatic dosing, online monitoring, and water recycling.
- By integrating process engineering, corrosion-resistant equipment, and intelligent automation, ES-PRO delivers reliable, efficient, and compliant solutions.





ES-PRO TECHNOLOGY

Delivering Engineering Excellence Through Quality , Innovation and Sustainability

Certificates









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