

# Ralsonics

SURFACE ENGINEERING SOLUTIONS

Integrated Plating & Surface  
Treatment Solutions

[WWW.RALSONICS.COM](http://WWW.RALSONICS.COM)

# SURFACE TREATMENT SOLUTIONS FOR MODERN MANUFACTURING

Ralsonics designs and supplies integrated plating and surface treatment plants for industries requiring reliable coating performance, dimensional stability, and long-term corrosion protection.

Our systems are engineered to support high-volume production as well as precision-driven applications. processing solutions that meet global standards.

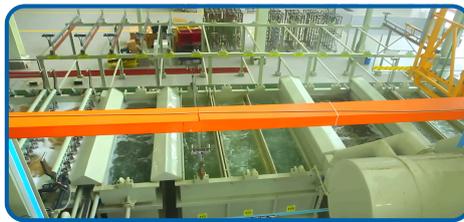


## Plating Process & Tank Systems



### TANKS

Designed based on process chemistry requirements.



### CASCADE RINSE

Multi-stage counterflow rinse sequencing.



### AGITATION

Enhanced ion exchange at surface improves deposit thickness.



### PH SENSORS

Industrial pH sensors interfaced with PLC.



### AUTO INLET

Level-sensor-triggered solenoid/valve operation.



### FLIGHT BAR

Delivers consistent current transfer with stable component holding.



### JIGS & FIXTURES

Material options: SS / titanium / PP based on chemistry.



### AUTO LOADING

Automated actuation for reliable part pick-up and drop-off.



### DRIP-TRAY

PP/FRP tray with full secondary containment.



# Material Handling & Automation



## TRANSPORTER

VFD-controlled speed for travel and lift functions.



## ANTI-COLLISION SYSTEM

Transporter position sensing with proximity logic.



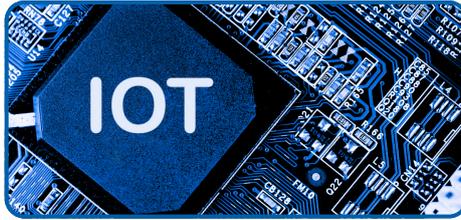
## PROGRAMS

Configurable current profile, dwell time & agitation patterns.



## INTERLOCKS

Process interlocks between rectifier, heaters & transporter.



## IOT CONNECTIVITY

Predictive maintenance, reducing downtime and unexpected failures.



## ERGONOMIC DESIGN

Built to reduce operator fatigue and manual workload

# Electrical & Power Management



## RECTIFIER

Design with <5% ripple for plating accuracy



## BUS BAR

Electrolytic copper bus bar with tin-plated surface



## LEVEL SENSORS

PLC-linked alarms and auto cut-offs.

# Safety and Environment

## FUME EXTRACTION

Tank-mounted extraction ducting for direct vapor capture.



## SAFETY FEATURES

Emergency stop network across working perimeter.



## SCRUBBER

Effectively neutralizes harmful fumes to ensure safe and compliant operations.



## STRUCTURAL FRAMEWORK

Epoxy-coated MS structural frame for high mechanical strength.



# WHY RALSONICS ?

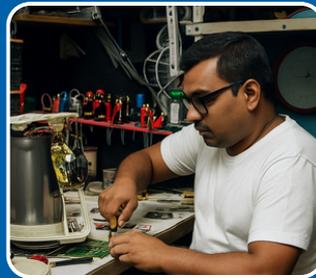
- End-to-end capability covering process, plant, utilities, and automation
- Strong expertise in surface treatment and ultrasonic systems
- Modular and scalable plant architecture
- Designed for reliability, repeatability, and lifecycle cost efficiency

## Our Facility

35,000 sq ft state-of-the-art manufacturing facility located near Mumbai.



**End-to-End Plating & Surface Treatment Solutions:**  
We deliver complete plating and surface treatment systems in-house, from process engineering and bath design to tank fabrication, automation, and control panel integration, ensuring consistent quality, reliable performance, and seamless system execution.



**In-House Fabrication**



**Reliable Operations  
& Sales Team**



**Expert Design Team**

## CONTACT US

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