TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

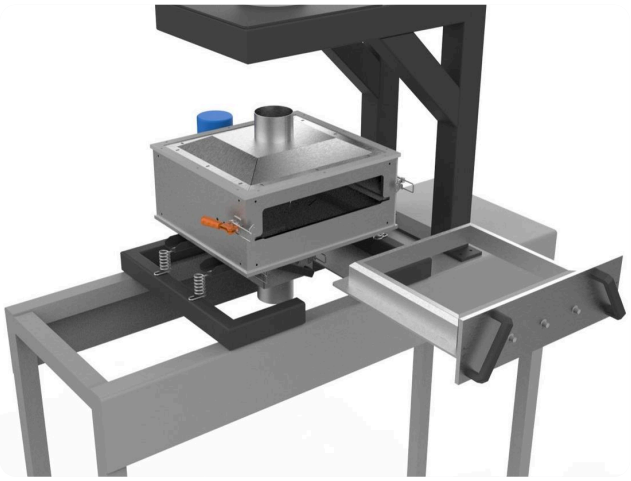
POWDER MANAGEMENT

Ultrasonic Sieves

Ultrasonic sieves screen both virgin and reclaimed powder with ultrasonic sieving — removing agglomerates and oversize particles to deliver consistent particle size and high finish quality.

Open online

strong3000.com/en/products/ultrasonic-sieves/



KEY FIGURES

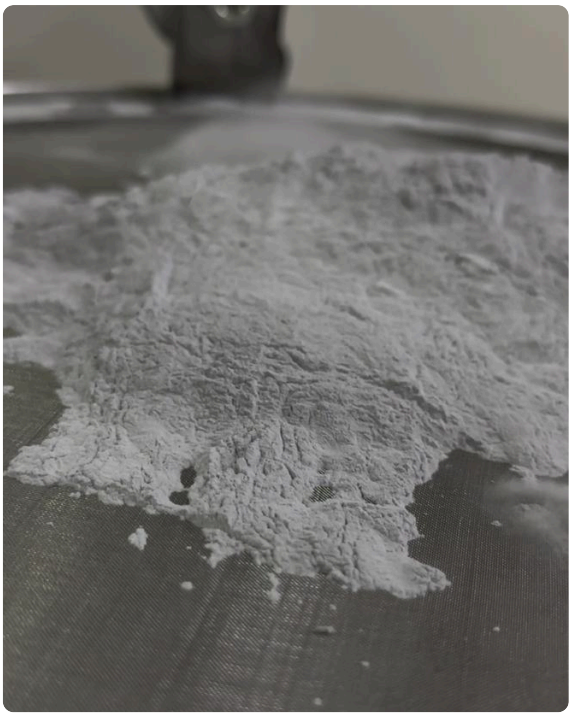
Sieving technology	Mesh size	Generator	Integration
Ultrasonic, blinding-free	**100 – 250 µm (per application)**	**Ultrasonic generator; frequency and power level on a digital display**	**Powder center & recovery line**

OVERVIEW

Consistent Particle Size, Every Batch.

Ultrasonic sieves screen virgin powder and reclaimed powder before it reaches the guns. An ultrasonically driven mesh keeps fine powder flowing without blinding while holding back agglomerates and oversize particles — preserving a consistent particle size distribution.

Integrated into the powder recovery loop, it keeps reclaimed powder at virgin-level quality. It operates as part of a coordinated line with the STRONG3000 powder center, hoppers and transfer pumps.



ULTRASONIC SYSTEM

Ultrasonic Vibration, a Mesh That Doesn't Blind.

Powder coating is very fine and light; on an ordinary sieve it soon blinds the mesh. The ultrasonic system makes the mesh vibrate at a frequency too high for the human ear and keeps it open.

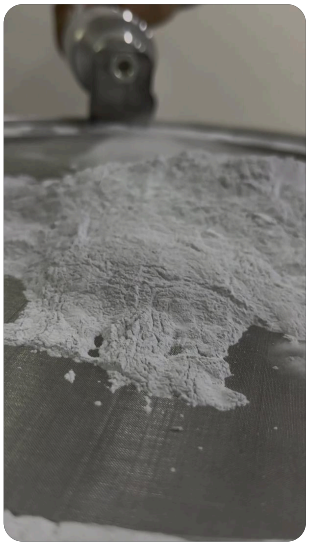


1. **Ultrasonic generator**
   Converts mains power into a high-frequency electrical signal.
2. **Transducer**
   The transducer mounted on the sieve frame turns this signal into ultrasonic vibration.
3. **Sieve mesh**
   The vibration spreads over the whole mesh; friction between powder and wire drops, fine powder passes through the openings easily and the mesh does not blind. Lumps and foreign matter stay on top.
4. **Front-panel control**
   Power, time, frequency sweep and on/off are set from the front panel; frequency and power level are shown on the digital display.

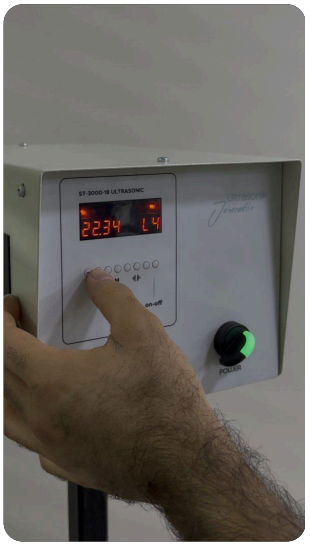
IN OPERATION

Sieving and Control.

Left: powder flowing over the mesh and passing through under ultrasonic vibration. Right: setting the power level on the control unit; frequency and level are shown live on the display.



Powder sieving on the ultrasonic sieve



Ultrasonic control unit

KEY BENEFITS

Clean Powder, Even Finish.

Ultrasonic Sieving

Blinding-free, efficient screening via ultrasonic drive.

Consistent Particle Size

Stable particle size distribution every batch.

Surface Quality

Smooth coating free of agglomerates and oversize particles.

Virgin + Reclaimed Powder

Screens virgin and reclaimed powder to the same quality.

Less Downtime

Because the mesh does not blind, stopping the line to clean the sieve is needed less often.

Powder Savings

Reclaimed powder is reused clean, so less powder is thrown away.

Gun and Hose Protection

Lumps and foreign matter are caught before reaching the gun, reducing hose and nozzle clogging.

Adjustable Control

Power, time and frequency sweep are adjusted from the front panel to suit the powder type.

GALLERY

Take a Closer Look.







TECHNICAL SPECIFICATIONS

Ultrasonic Sieves — Technical Specifications.

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering.

Sieving technology	Ultrasonic, blinding-free
Mesh size	100 – 250 µm (per application)
Generator	Ultrasonic generator; frequency and power level on a digital display
Integration	Powder center & recovery line
Control	Power, time, frequency sweep, on/off

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.