



SIEVING FAQ

Clearing up the *most commonly* held misconceptions regarding high-energy sieving

QUESTION 1

Can you sieve down to 10um without ultrasonics?

Yes. It's about using the right technology.



Hi-Sifter

Screens down to 10µm using a mechanical approach with no screen cleaning

10µm



Elbow-Jet

Separates powders as fine as 0.5µm using only airflow.

0.5µm

QUESTION 2

High-Energy vs. Ultrasonics?

✗ Ultrasonics

"deblinds" material after it has settled in the hole.
Tensioned screens lead to shorter screen life.

✓ Hi-Sifter

Keeps particles suspended in the air using vertical energy + tensionless wirecloth. Prevents blinding before it starts.

QUESTION 3

Can you screen difficult powders?

"Clogging and blinding are symptoms of the wrong method."

The Hi-Sifter's high-energy motion prevents buildup on the screen surface. Powders that normally blind conventional sieves flow cleanly without clogging or interruption.

Result: Higher Yields, No Downtime

QUESTION 4

Why does it work on heavy metal powders?

Energy overcomes mass.

The high-energy vertical spectrum of the Hi-Sifter is powerful enough to keep even the densest particles (like **Tungsten** or **Nickel**) suspended and flowing efficiently on a commercial scale.

This prevents the “packing” effect that plagues other sieves allowing for high volume and efficient separations.

W

Tungsten

Ni

Nickel

QUESTION 5

Can we scale from R&D to production?

Our ISO 9001:2015-certified toll processing center handles everything from 100lb test runs to millions of pounds during full scale production.



QUESTION 6

What are some operational benefits?



Eliminate Screen Logistics & Costs

Stop shipping frames back for "rescreening." The Hi-Sifter allows for immediate, on-site screen changes. Easily swap the working mesh sizes in **as little as 15 minutes** without buying new frames, saving significantly on logistics and inventory costs.



Maximize Product Yield

High-energy vertical vibration breaks surface tension and **prevents screen blinding**, ensuring high throughput and minimizing the loss of good product to the oversize fraction.



24/7 Continuous Operation

Engineered for durability with **zero downtime**. The robust mechanical design eliminates common breakdown points, enabling non-stop production schedules even with difficult powders.

Now that you know the **truth** about sieving...

Are you ready to see what the Hi-Sifter can do for your process?

- 98%+ Yields
- No Screen Mesh Blinding
- 15-Minute on the Floor Screen Changes
- Low Cost of Ownership & Operation Over Time

Learn More

www.elcanindustries.com

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