

ELCAN
INDUSTRIES

featuring the...

HI-SIFTER

Advanced Sieving Technology



Screening Technology for the 21st Century



HI-SIFTER

Elcan's Hi-Sifter is the latest breakthrough in advanced screening technology. The Hi-Sifter excels in the food, pharma, and additive manufacturing industries and unlike other vibratory screeners, the Hi-Sifter requires no anti-blinding or screen cleaning devices to achieve fine particle separation. The material only sees a highly polished stainless steel surface and no other possible contamination surfaces. In addition, the high volume of energy being transferred to the screen allows hard to screen metal alloys to flow seamlessly. The machine also has a strong vertical vibration that translates to high rates of efficiencies and throughputs without any blinding. The removal of any potential for contamination within the machine, explosion proof designs and high energy make the Hi-Sifter the precise fit for companies looking to add screening machinery to their manufacturing plants.

AVAILABLE SIZES:

- 15 inch (400mm) diameter
- 20 inch (500mm) diameter
- 28 inch (700mm) diameter
- 40 inch (1000mm) diameter

MACHINE FEATURES:

- Explosion Proof motors
- Inert Gas Capabilities
- Polished Stainless Steel Construction
- No organic material in contact with product
- Center-fines discharge or side-fines discharge
- Tensionless mesh design
- Various sizes available
- Single or Double Deck Configurations
- FDA Compliant Design

MARKETS SERVED

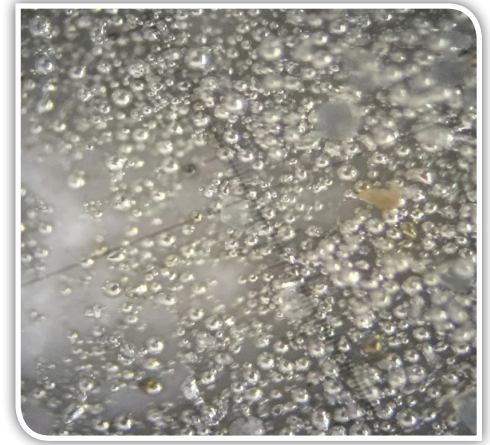
- Metal Powders
- Ceramics
- Aerospace
- Graphite
- Plastics
- Aggregates
- Batteries
- Specialty Chemicals

HI-SIFTER MODEL NUMBER	401UC	402UC	501UC	502UC	701N	702N	1001N	1002N
Mesh Working Area (per deck)	205 in ²	205 in ²	305 in ²	305 in ²	594 in ²	594 in ²	1366 in ²	1366 in ²
Number of Decks	1	2	1	2	1	2	1	2
Motors (kW)	2 x .25	2 x .25	2 x .25	2 x .25	2 x .40	2 x .40	2 x .60	2 x .60
Total Machine Weight (lbs)	331	342	342	353	485	507	772	794



HI-SIFTER CASE STUDIES

MATERIAL	MICRON	RATE PER HOUR	MACHINE SIZE	EFFICIENCY
Stainless Steel Powder	7µm	33 lbs/hr	400mm	93%
Stainless Steel Dust	10µm	200 lbs/hr	1000mm	85%
Nickel Powder	53µm	800 lbs/hr	1000mm	96%
Titanium	10µm	300 lbs/hr	400mm	93%
Aluminum	25µm	130 lbs/hr	400mm	94%
Hollow Glass Microspheres	125µm	1100 lbs/hr	1000mm	96%
Copper Flake	10µm	130lbs/hr	400mm	99%



BEYOND ULTRASONICS

Ultrasonics traditionally work by stimulating each wire within the mesh to vibrate independently from the machine itself. Where ultrasonics fall short is that it will not work with coarse or ultra-fine mesh, also it requires external hardware and is very costly to repair/replace damaged mesh.

The Hi-Sifter solves these shortcomings. Our technology not only vibrates in the X and Y axis like standard screeners, but also transfers significant force in the Z axis, ensuring that our screen will not blind even as fine as 10 micron. Also, our system allows for easy screen changes to be completed at the plant level eliminating the high cost and potential downtime that comes from sending out for re-screening.

ULTRASONIC TECHNOLOGY	VS	ELCAN'S HI-SIFTER
Requires external control box and probe.		No need for external box or probe, resulting in lower running costs and more hygienic design.
Cannot screen below 44 micron or above a 20 mesh.		No Hi-Sifter machine limitations. Only limited by current mesh manufacturing.
High mesh replacement cost and production downtime due to it's inherent design.		The Hi-Sifter's tensionless mesh design allows users to easily replace their own mesh.
Ultrasonics cause deflection in mesh strands creating less precise separation.		Due to the Hi-Sifter's tensionless mesh design the mesh's hole openings are not altered resulting in a more precise separation.

“Sieving valuable metal powders can be hard, but it doesn't have to be.”

The Hi-Sifter can achieve efficiencies of 95% and higher, which allows you to get the best yield out of your precious metal powder.



TOLL MANUFACTURING

Elcan Industries' state of the art toll manufacturing facility features 9 full-scale bays dedicated to tolling and testing. In addition to our advance screening technologies, we have an Electro Magnetic Separator, bulk-to bag packaging area, blending/mixing machinery and a newly installed Elbow Jet Air Classifier. Unlike most OEMs, we run these machines in our factory every day. This daily practice has given Elcan the hands-on experience and know-how that is invaluable to our customers. All of the equipment that Elcan offers for sale is available for use in our facility. By the time our customers purchase equipment for their factory to run products they were tolling with us, the bugs are all worked out and the problems are eliminated.

Elcan also offers a free test day to any new customers looking to trial their material on the equipment offered. The ability to test products and to toll process it, allows for companies to test new markets and have confidence in the equipment they are purchasing before making a capital equipment decision.



ELCAN Industries, for all of your particle separation needs

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