

SEPARATOR



EV BATTERY SERIES ROUND SEPARATORS

FINE PARTICLE SCREENING OF LI-ION
BATTERY MATERIALS USING VIBRATORY
SEPARATION AND ULTRASONIC
TECHNOLOGY



EV BATTERY
ROUND SEPARATOR

FINE PARTICLE SEPARATION

Your custom solutions provider for lithium-ion battery manufacturers

WORLD LEADERS IN SEPARATION TECHNOLOGY

SWECO® introduces EV Battery Series Round Separators for the screening of lithium carbonate, lithium oxide, graphite, iron and nickel powders for use in the manufacturing of electric vehicle batteries.

With the use of ultrasonic technology or other screen cleaning devices, this innovative design is ideal for screening powdered materials down to low micron ranges.

Battery manufacturers require a consistent and quality powder to

produce an effective product. Out-of-spec material will adversely affect the life and performance of the batteries.

Battery manufacturers around the world trust SWECO for their separation needs. SWECO has hundreds of separator installations in battery manufacturing plants globally.

100s OF INSTALLATIONS

globally providing extensive experience in the battery industry

2 - 4X MORE CAPACITY

than other round separators

CUSTOM MOTION

designed to promote increased capacity

CUSTOM FRAMES & COMPONENTS

designed to facilitate material discharge and discourage bottlenecking

OVER 100 YEARS

of processing technology experience (since 1917)

CUSTOM COMPONENTS

SWECO has designed the EV Series Separators to handle the required capacities set forth by EV Battery manufacturers. Custom configurations and linings for the frame stack were designed into the separator to facilitate maximum capacities.



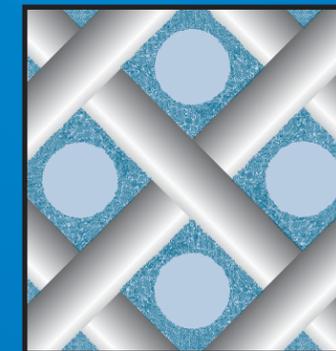
CUSTOM MOTION

After extensive testing, SWECO has optimized the motion of the separator to provide the highest capacity in the industry.

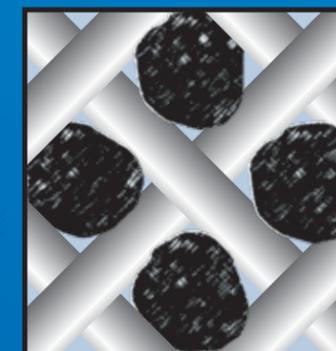
ULTRASONIC TECHNOLOGY

SWECO Ultrasonic Systems enable efficient sieving of powders at small mesh sizes. The ultrasonic systems promote improved excitation throughout the screen surface with more even energy distribution, improving sieving efficiency, separation accuracy, and effectively breaking up agglomerates while increasing throughput.

CONVENTIONAL SCREEN BLINDING



Certain fine powders will invariably clog or blind nearly any conventional separating solution.



Heavier density powders tend to lodge or wedge themselves between the wires, leading to the gradual blinding of the screen mesh.

HIGH-FREQUENCY ANTI-BLINDING



Continuous Energizer vibrations virtually eliminate blinding, resulting in higher flow rates, increased screen life and dramatically reduced downtime.



EFFICIENT SCREENING AT HIGHER CAPACITIES

2 - 4 TIMES MORE CAPACITY

With hundreds of installations globally, the SWECO EV Battery Separator was designed with special features to assist in increased capacity and efficiency. The EV can get 2 to 4 times more capacity than other round separators. The reasons for this is . . .

Ultrasonic Technology - distributes vibrations optimally over the screen mesh, continuously cleaning the screen to improve performance.

Custom Motion - researched and tested to generate the optimal motion, enabling the highest capacities.

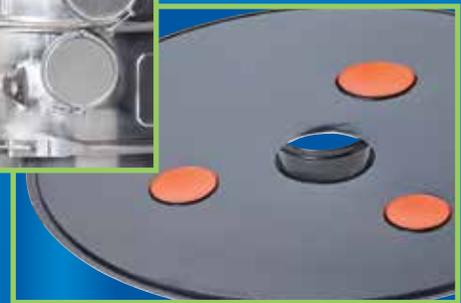
Custom Frames and Components - customized to facilitate the fastest material discharge with special frame designs and specialized coating treatments on all internal surfaces.



ULTRASONIC TECHNOLOGY



CUSTOM COMPONENTS



SWECO has sales agents and/or licensees in most countries.

Manufacturers worldwide rely on SWECO.

We span five continents with 9 manufacturing and support facilities and over 100 sales and service representative offices.

So, wherever you are, be assured that SWECO – the global leader in screening technology – is there when you need us.