

# Separation Solutions

Machines, screens  
and parts tailored  
for productivity and  
performance



# Our mesh expertise makes a big difference in machine performance.



Vibratory screeners/separators have been in use for decades and most major machine brands are alike. However, we capitalize on our expertise in woven mesh to recommend a screen gradation to suit the customer's need precisely, resulting in maximum production rates.

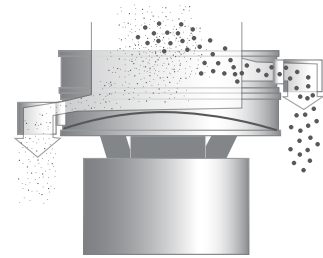
Each Performance machine is made in the USA and uses the best materials for durable equipment that will last for decades. In addition, options like seamless welding and stainless steel bases are available for food-grade applications.

We also deliver expert application support. Our engineers work with customers, analyzing and processing samples of their product against their sorting/separating requirements. They recommend the best machine, screens and accessories to get them up and running quickly.

## Typical Industries

|                  |                      |
|------------------|----------------------|
| Food & beverage  | Nutraceuticals       |
| Herbs and spices | Plastics             |
| Abrasives        | Ceramics             |
| Pharmaceuticals  | Mining & Minerals    |
| Hemp Products    | Commercial Laundries |

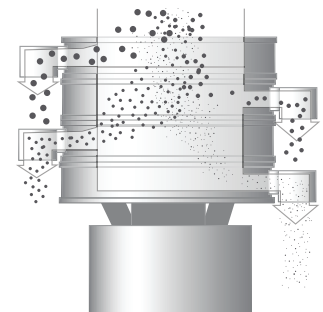
## Separation Applications



- 1 Scalping:** Removal of a minimal amount of oversize product from volume throughput of good material.



- 2 De-watering:** Pre-filtering, or de-watering, for removal of solids from high throughput of liquids or slurries.



- 3 Sizing:** Separation of particles into groups of like sizes. Accurate sizing of up to five product sizes.

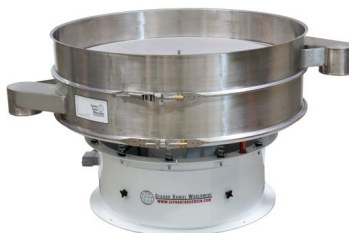
# Performance<sup>TM</sup> Series Separator Machines



Our engineers recommend the exact screen you need.



**Compact<sup>TM</sup>**  
(Low volume)



**Performa<sup>TM</sup>**  
(Medium volume)



**PerforMAX<sup>TM</sup>**  
(High volume)

Proudly made in the USA, engineered to last, and built with high quality components, each Performance vibratory separator machine is well suited for dry separation, wet or dry classification, and liquid-solid

separation. By carefully selecting the mesh and stacking up to three screen decks of increasing mesh opening size, users can separate or classify material into multiple sizes in a single machine.

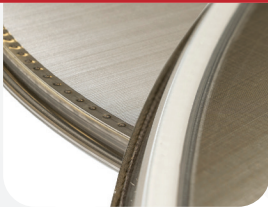
| Machine Range           | Compact™<br>Low volume                                                                       | Performa™<br>Medium volume           |                     | PerforMAX™<br>High volume |                        |
|-------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|---------------------|---------------------------|------------------------|
| Nominal Screen Diameter | 18 in<br>457 mm                                                                              | 24 in<br>610 mm                      | 30 in<br>762 mm     | 48 in<br>1219 mm          | 60 in<br>1524 mm       |
| Screen Area             | 254 in²<br>1635 cm²                                                                          | 450 in²<br>2900 cm²                  | 700 in²<br>4500 cm² | 1800 in²<br>11,600 cm²    | 2800 in²<br>18,000 cm² |
| Typical Use Example     | Lab analysis<br>Occasional use<br>Small batch sizes<br>Startups                              | Medium throughput<br>High production |                     | High production           |                        |
| Screen Selection        | Screens can be selected for sifting, sieving, scalping, or sorting any material, wet or dry. |                                      |                     |                           |                        |

Choosing the right size separator depends only on the rate at which you need to screen material and the machine's capacity. Your Gerard Daniel Application Engineer can advise on the size for your requirements.

# We deliver precision and productivity with every screen solution.



**Replacement Screen Expertise**



**Epoxyed or Welded Custom Screens**



**Slider Tray**  
Recommended when blinding occurs due to wet, suspended particles.



**Ball Tray Assembly**  
Mesh cleaning balls help control blinding caused by near-size particles.



**Sandwich Screen**  
These self-cleaning screens are used to mitigate screen blinding, or clogging of the mesh.

## Quality Pretension Screens for Precise Performance

Our round mesh separator screens, also known as vibrating screens or shaker screens, are used extensively in the chemical, food & beverage, and pharmaceutical industries.

These circular screens are sometimes referred to as ‘pre-tension’ screens as the mesh is put under tension before it is sealed at the rim.

We apply our 70 years of wire mesh expertise to recommend the best screen gradation to deliver maximum production rates. Our separator screens feature rolled base rings fabricated from high-quality 304 stainless steel.

A full range of made-to-spec screens is available, either epoxyed (standard) or welded as an upgrade for high temperature applications.

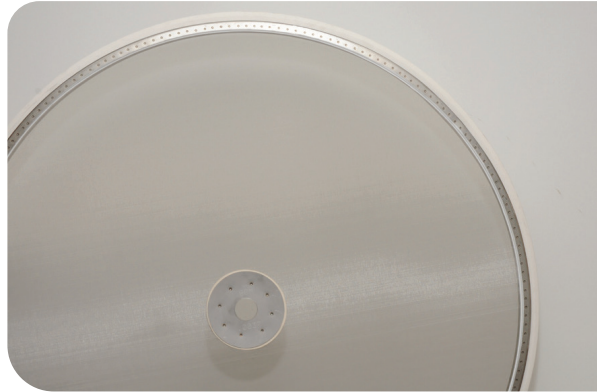
## De-Blinding Solutions

We offer a wide variety of solutions to ensure that your screens stay as productive as possible and do not blind (or clog) with product. These de-blinding methods include slider tray assemblies, ball tray assemblies and sandwich screens, incorporating both balls and sliders.



### Parts & Accessories

- Spacing, table and distribution frames
- Rubber coated nylon (RCN) connector sleeve
- Support springs
- Center-tie-down assembly
- Clamp rings – Available in bolt or quick release
- Purpose-built, heavy-duty shaker motor
- Perforated plate
- Flexible discharge connectors
- Fully assembled self-cleaning screens
- Screen gaskets
- Screen cleaning solutions
- Balls
- Rings
- Ball cleaning kits
- Slider cleaning kits



### Replacement Screens

We manufacture replacement screens for our own machines as well as a wide variety of other machine brands. We can often recommend a better mesh profile to improve your performance needs rather than settling for a cookie-cutter screen from standard mesh. This means our customers can maximize their production rates while still delivering the gradation of product required.

We also offer a very cost-effective re-screening process, where customers send back their blinded or torn screens and we replace the mesh using the original rims.

Behind every  
Performance  
separator is  
solid support.

Gerard Daniel has the parts, accessories and services you need to maximize productivity.

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Our machines are CE certified and comply to the specifications of the following bodies;  
FDA, CFIA, USDA, 3A Dairy, ASTM, HPRA.



[www.GerardDaniel.com](http://www.GerardDaniel.com)