

Installation of Russell Compact Sieve® increases sieving throughput of cocoa powder

Brazilian supplier of cocoa Indústria Brasileira de Cacau increases sieving capacity with installation of Russell Compact Sieve® within its brand-new processing line.

Founded in 2005, the Indústria Brasileira de Cacau (IBC) company is a key supplier of cocoa to companies who use it as raw material in the food and cosmetics industries. Based in the city of Rio das Pedreas in Brazil, around 70% of IBC's sales are for companies based in Brazil, whilst 30% are for overseas customers. IBC is a business renowned for its expertise in food processing, quality assurance, and custom-made products, expertise which is reflected in the certifications it holds, which includes USDA Organic, Rainforest Alliance, and Kosher certifications.

Referred by one of its customers, Russell Finex was recommended to IBC as a global leader in separation technology. A key function of IBC's new production line was the sieving process of this raw cocoa powder – a product that is usually difficult to screen using standard sieving units. However, because of IBC's focus on quality control, sustainability, and productivity, Russell Finex recommended the Russell Compact Sieve®: a highly versatile, easy-clean sieve ideal for the safety-screening of food powders, such as cocoa powder.




Sieving and screening process and solution

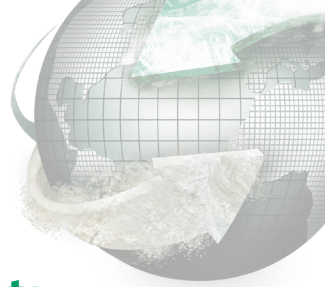
Based in an industrial park of approximately 12,000 sq meters, IBC houses state-of-the-art equipment capable of processing around 20,000 tons of cocoa powder per year. As IBC sought to implement a brand-new processing line, the company needed to be assured of quality before choosing the best sieving solution for this application.

To ensure IBC that the quality of its product was being retained, IBC's cocoa powder was sieved at Russell Finex's test facility in Brazil. This allowed IBC to view the capabilities of the Russell Compact Sieve® for itself. The results of this test exceeded expectations as the machine managed to sieve 1300kg of cocoa powder in an hour through a 2mm mesh – a rate far quicker than sieves in its other processing lines. After comparing Russell Finex with other competitors' machines, the Russell Compact Sieve® was found to be the most efficient solution in terms of its productivity.



Figure 1. The Russell Compact Sieve® is used to remove contamination from cocoa product at the IBC factory

-  **Increase production** - achieve higher product throughput rates per unit area of mesh
-  **Fits into smaller spaces** - either into existing installations or areas of limited headroom
-  **Eliminate oversize** - improve product purity and safeguard quality



The owner of IBC, Mauricio Pinho, commented: “We were very excited about the high capacity output and the speed at which the Russell Compact Sieve processed the cocoa powder. This product is ideal for guaranteeing and safeguarding our product quality.”



Figure 2. An example of raw cocoa powder, which is sieved by the Russell Compact Sieve® to remove contamination

Assured quality control

The Russell Compact Sieve® is ideal for the safe screening of powders at a high throughput. This innovative solution fits neatly into production lines and, whilst half the diameter of a traditional sieving machine, still provides considerable screening capacity. Moreover the design of the Russell Compact Sieve® means that it can be easily stripped down and cleaned, reducing downtime and improving operator safety, making it the perfect solution to ensure reliable quality control in IBC’s brand-new product line.

Pinho also added “The compact design of this machine meant that it was the ideal solution to fit perfectly into our process line, as well as being quieter which greatly benefits our operators”.

With over 85 years’ experience, Russell Finex provides a range of innovative grading sieves and separators for a variety of industries, including food, pharmaceuticals, and recycling. With a wealth of different solutions to offer customers depending on their needs, Russell Finex is dedicated to ensuring its unique requirements are met.