RUSSELL FINEX

Global Sieving & Filtration Specialists

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Barrel Coffee AG improves quality of its cold brew coffee with high-capacity sieving solution

The Russell Eco Separator® provides Swiss coffee company with a 100% increase in productivity, and improved coffee grind quality

Founded in 2017, Barrel Coffee AG specializes in the production of cold brew barrel coffee. The company produces the beverage and also bottles it, which requires a multistage production line.

Coffee production is made up of a series of detailed steps, each of which influences the taste and quality of the product. This includes bean origin, roasting, grinding, brewing, temperature, water hardness, and water ratio used.

In the instance of grinding the coffee bean, the most important part of this process is the extraction, as particle size can impact taste. The main problem for Barrel Coffee AG was ensuring that the finer particles from the ground coffee were completely removed. They previously sieved the coffee using a manual process which was not suitable for larger throughputs, and was therefore far less effective in terms of time, accuracy, and production output. The company wanted to invest in an efficient grading separator solution that would help solve its problem and contacted Russell Finex for expert advice and help.

Optimizing the processing line with a high-capacity grading solution

After consultation with a Russell Finex sales engineer, the Russell Eco Separator® was recommended as part of the grinding section of the coffee cold brew process. Fitted with a mesh size specifically selected to remove fine dust, the Russell Eco Separator® was used to separate the coffee grinds from the finer particles. This would remove the bitter taste from the coffee, ensuring the end product is of the highest quality.

> ***"The personal handling of my request as well as the technical know-how of the Russell Finex sales engineer was decisive in optimizing our production process."***
>
> Christoph Huber, Owner and Manager of Barrel Coffee AG

Installed at the start of the production process, the Russell Eco Separator® achieved considerable improvements in terms of time savings and a quick return on investment. The company **saved around 3 hours** of sieving time from its previous manual sieving solution and estimated a return on its investment within 2 years. As an added benefit of this installation, the Russell Eco Separator® also improved beverage quality, as fine dust no longer circulated around the liquid.

High performance round separation unit

A high-capacity grading sieve, the Russell Eco Separator® is adaptable to any businesses production line. It can be easily adjusted to provide absolute control of material movement on the screen and therefore provides perfect separation. Its easy-to-clean design allows for the machine to be stripped down and cleaned with minimal effort, reducing particle

Russell Finex Ltd.
Feltham, England.
+44 (0) 20 8818 2000
sales@russellfinex.com

Russell Finex N.V.
Mechelen, Belgium.
+32 (0) 15 27 59 19
sales.nv@russellfinex.com

Russell Finex Inc.
Pineville, N.C. USA.
+1 704 588 9808
sales.inc@russellfinex.com

Russell Finex Pvt. Ltd.
New Delhi, India
+91 8800558656
sales.rfsf@russellfinex.com

Russell Finex China
Shanghai, China
+86 21 6426 4030
sales.china@russellfinex.com

Russell Finex Brazil
São Paulo, Brazil
+55 11-4950-9237
sales.brazil@russellfinex.com

contamination in the coffee grinds.

"The Russell Eco Separator made an excellent and notable addition to the production line, improving our throughput rates and time saved from previously manually grading the coffee grinds. It definitely met expectations both in terms of separation efficiency and ease of handling, and ensured we could achieve the perfect grind each and every time."

Christoph Huber, Owner and Manager of Barrel Coffee AG

About Russell Finex

With over 85 years of experience, Russell Finex has worked with companies to offer a range of sieving, separation, and filtration solutions. From the food and beverage industry, to pharmaceuticals, to water processing and recycling, Russell Finex has a solution to help optimize businesses processing lines. Contact an experienced sales engineer today for more information.

Figure 1. Image of the Russell Eco Separator®

Advantages of the Russell Eco Separator®:

- **Optimized separation quality -** adjustable design allows for absolute control of material on the screen
- **Improved grading accuracy -** can allow for up to five screens in one operation
- **Versatile sieving -** capable of handling both dry and wet materials and applications

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+1 704 588 9808
sales.inc@russellfinex.com

Russell Finex Pvt. Ltd.
New Delhi, India
+91 8800558656
sales.rfsf@russellfinex.com

Russell Finex China
Shanghai, China
+86 21 6426 4030
sales.china@russellfinex.com

Russell Finex Brazil
São Paulo, Brazil
+55 11-4950-9237
sales.brazil@russellfinex.com