



Russell Compact Sieve® brings new clarity to a pressing production issue

Installing a compact vibratory sieve from Russell Finex helped local German suppliers of fresh fruit juice refine its production process.



Sachsenobst is a mid-size local supplier of fresh fruit juice, based in Saxony, Germany. Part of the Obstland Group, Sachsenobst is located on the banks of the Mulde in the heart of Saxony's celebrated fruit-growing region. The company uses locally grown fruits, including apples, pears and cherries, to produce delicious syrups, juices and wines.

Committed to sustainability, Obstland Group supports the local circular economy. It grows more than 40,000 tonnes of fruit a year in the Obstland. And, as well as producing syrups, juices and wines, it sells whole fruit in its farm shops. By carefully managing the land and employing local people, Obstland Group helps to maintain the region's unique identity.

Sachsenobst has been pressing fruit in the Obstland since 1936. Its production processes have changed over the years, with the company now using modern technology to enhance the quality of its products and meet growing demand. Sachsenobst's state-of-the-art plant produces around 10 million bottles of freshly pressed fruit juice every year.

With a focus on sustainability, close attention is paid to product refinement and packaging. Sachsenobst's production process is, for example, BIO certified, and although it adds to the packaging costs, Sachsenobst markets most of its products in returnable glass bottles. Even the labelling is sustainable, with labels printed onto recycled paper.

"The Russell Compact Sieve processes 5,000 litres of mash an hour. The fruit juice is crystal clear and tastes delicious."

Mr Zimmermann, Technical Manager

A recent investment in vibratory screen technology helped Sachsenobst improve product refinement. A Russell Compact Sieve® quickly and efficiently screens pulp from the fruit mash, increasing throughput capacity and ensuring that the juice is clear and pulp-free. The vibratory sieve, which is easy to clean, has also improved hygiene.

Ideal for high-capacity screening of powder and liquid slurries, the Russell Compact Sieve® uses a vibratory screen to remove oversized solids. Its innovative design means that the Russell Compact Sieve® requires less headroom than conventional sieves, saving space on the production line and making it easier to strip down and clean.





Sachsenobst had used a conventional rotary sieve to screen the mash. Unfortunately, the sieve was not particularly effective and allowed some solids to remain in the juice. What is more, because of its size, the rotary sieve took time to strip down and clean, reducing productivity and compromising hygiene. Sachsenobst asked Russell Finex for advice.

Following its successful evaluation of the technology, Sachsenobst purchased a 600mm Russell Compact Sieve® with a 500µm vibratory screen. Installed on Sachsenobst's juice production line, the Russell Compact Sieve® is used to process around **5,000 litres of fruit mash an hour**. The orchard-fresh Saxony fruit juice is crystal clear and tastes delicious.



Advantages of the Russell Compact Sieve®:

- **Better product refinement** – More pulp is removed from the mash, improving purity.
- **Increased production capacity** – The sieve is able to process larger volumes of mash.
- **Low investment cost** – The Russell Compact Sieve fitted neatly within the existing line.

Russell Finex installed a **Russell Compact Sieve®** on Sachsenobst's production line for evaluation. Sachsenobst put the vibratory screener through its paces, testing its effectiveness with different mesh sizes. The Russell Compact Sieve® proved to be highly effective, improving product purity and increasing throughput capacity.

Established in 1934, Russell Finex designs and builds separation machines for an international market and supplies to over 140 countries. With its head office in the U.K. and subsidiaries in Belgium, the U.S.A., India and China, the company has a truly global presence, enabling a comprehensive approach to customer service and after sales support.

“Russell Finex could not have been more supportive. The trial programme enabled us to make a risk-free evaluation of their technology.”

Mr Zimmermann, Technical Manager

Sachsenobst was **impressed with the support** provided by Russell Finex. Production Manager, Hr Zimmermann commented: “Russell Finex could not have been more helpful. Their sales engineer was very knowledgeable, and the trial programme enabled us to make a risk-free evaluation of the technology prior to purchase.

“The Russell Compact Sieve **fitted neatly into our existing production line**, enabling us to improve quality without need for further investment in plant and machinery. And, because the Russell Compact Sieve is so compact, we are able to strip it down faster and clean it more thoroughly, reducing downtime and improving hygiene.”

