

Treibacher uses Russell Finex sieving and ultrasonic technologies to achieve consistent product quality

Since 1989, Treibacher Industrie AG has been relying on innovative ultrasonic debinding systems from Russell Finex to achieve consistently high product quality when sieving powders.

For decades, Treibacher Industrie AG has been a leading international player in the chemistry and metallurgy industries. Headquartered in the heart of Europe, they operate all over the world, with 90% of their goods being exported. Their head office, production and R&D facilities are located in Austria, while subsidiary sites operate in Canada, Slovenia and China. With 600 employees, each person is dedicated to serving individual customer needs, actively protecting the environment and ensuring the highest quality standards. Treibacher can also count on a global network of sales partners, ensuring coverage around the world.

The materials Treibacher produce are featured in nearly all areas throughout the world, used in a diverse range of products, from car paint to dental fillings. Ingredients produced include Tungsten, Tantal, Niobium, Titanium and mixed carbides, Ti-carbonitrides or special carbides for high wear-resistant tools and parts. Other examples of the many applications for Treibacher's ingredients include steel and casting products, hard metals, functional ceramics, coatings, catalysts and detergents.

With so many ingredients being manufactured on a high scale, Treibacher are committed to attaining the highest quality standards. With ISO 9001 and ISO 14001 accreditation, Treibacher show an unwavering dedication to the quality of their products, their environment and their staff.

In order to ensure high product quality, Treibacher use the best processing methods available. One quality assurance step is sieving their powders. This enables them to remove contaminants and supply particle sizes as specified by their end customers. However, as is common with many fine powders, Treibacher noticed that sieving at fine mesh sizes posed a challenge to supplying high volumes at repeatable qualities. Due to the nature and characteristics of the particulates of many powders, particles can often clog the mesh frame, reducing sieving efficiency and damaging the equipment.



One of the Finex Separators™ installed at Treibacher

- Mesh blinding eliminated with the Russell Vibrasonic® Deblinding System
- Improved screening efficiency and material throughput
- Achieving reliable and repeatable product quality

For this reason, as early as 1989, Treibacher was one of the first companies to adopt Russell Finex's ultrasonic debinding technology on their sieving machines. Since then, this technology has proved indispensable in allowing them to manufacture their highly specialised metal powders. They have used several generations of Russell Finex's ultrasonic equipment as it has undergone considerable developments. By applying ultrasonic vibrations to the sieve mesh, the unique Vibrasonic® Deblinding System ensures the mesh stays free of clogging, even at the finest sizes. The result is consistently high throughput, enabling for finer and more precise sieving than other conventional debinding methods available.

Treibacher have also successfully used Russell Finex sieves and separators for their high valued powders as they are reliable and achieve the same levels of quality Treibacher would expect. Russell machines and the Vibrasonic® Deblinding System can easily adapt to different products, something essential for a company with such a diverse product range. The latest Vibrasonic® 2000 Deblinding System, allows for the settings of the ultrasonics and base machine to be adjusted, effectively "tuning" the system to accommodate the characteristics of particular powders. Treibacher can thus achieve reliable, repeatable product quality for very fine particle sizes, essential for sieving materials such as nitrides used as coatings for cutting tools and medical technologies.

Treibacher have recently invested in the expansion of their production line manufacturing Tungsten Carbide, for which they are a joint holder of a US-patent. They selected several Finex Separators™ and Vibrasonic® Deblinding Systems from Russell Finex to help meet their new requirements. Operations manager Jürgen Eckhart selected the Russell units and is thus reaffirming the long and successful partnership between Treibacher Industrie AG, Russell Finex and Russell Finex's Austrian agent.

Russell Finex sieving equipment and ultrasonic technologies are essential tools for the production of highly specialised materials in industrial processing where quality and reliability are of utmost importance. With ISO 9001 accreditation, Russell Finex have been helping metal powder and other fine raw powder producers around the world improve their product quality for more than 70 years.



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