

Russell Compact Sieve® delivers high-capacity screening of iron powders at Industrial Metal Powders

The installation of the Russell Compact Sieve® increases screening capacity and improves product quality during electrolytic iron powder production at IMP

Industrial Metal Powders (India) Pvt. Ltd, commonly known as IMP, is a leading manufacturer of iron powder, selling to 33 countries around the world. An ISO 9001, 14001, 22000 and OSHAS 18001 certified company, IMP has huge and reputable experience in iron powder manufacturing and invests heavily in developing new product applications through its extensive research and development program.

IMP has a highly efficient manufacturing plant in Koregaon Bhima, Pune, which is equipped with the latest metal powder processing technology. The company supplies manufacturers within the metallurgy, engineering, pharmaceutical, and food industries - with a wide range of products that are highly recognizable worldwide. These include electrolytic iron powders, reduced iron powder, pre-alloyed powders, and electrolytic iron flakes.




IMP sought a check-screening machine to ensure the quality of electrolytic iron powders during production. Electrolytic powders are the purest form of iron powder used for a variety of industrial applications such as food and nutraceutical processing. As a trusted, leading supplier of premium manufacturing equipment, Russell Finex had been recommended to IMP and was subsequently consulted to provide a solution to check-screening electrolytic iron powders.

Mr. Ratan Oswal, Development Manager at IMP, said, "We are trusted for our commitment to product quality, purity, and reliable delivery of products. It is important for us to utilize an efficient screening solution which meets our requirements and achieves the high-quality product we and our customers demand."

With 85 years' experience, Russell Finex manufactures and supplies customized sieving solutions for the metal powders industry and has a highly skilled team of expert sales engineers to ensure specific customer requirements are fulfilled. IMP approached Russell Finex due to the company's experience in delivering premium sieving solutions to many renowned metallurgy manufacturers.



Figure 1. Installation of the Russell Compact Sieve® at Industrial Metal Powders (India) Pvt. Ltd

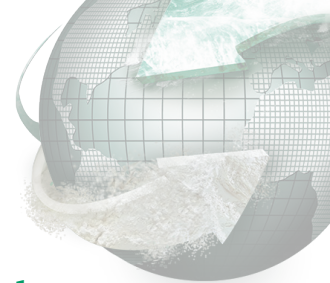
-  Eliminate oversized material from powders and liquids
-  Enclosed screening eliminates dusts and fumes, safeguarding operators
-  Compact design fits easily into existing installations and areas of limited head room

Russell Finex analysed IMP's requirements and recommended the 600mm diameter Russell Compact Sieve® which could screen electrolytic iron powders at a higher throughput rate.



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The Russell Compact Sieve[®] is a high-capacity industrial sieving machine, ideal for check-screening metal powders. This vibratory sieve, or sifter, is designed with the latest technology, including its unique rubber suspension system which delivers optimized and consistent vibration and sieving whilst enabling quieter operation down to 70dBA. The compact design makes it easy to fit into existing production lines and, with fewer contact parts, allows for quick assembly and disassembly without the need for extra tools.

Mr Oswal continued, “We check the quality of our products throughout all stages of production as we cannot compromise on quality, due to the strict technical specifications and high standards of our customers. We are very satisfied with the performance of the Russell Finex machine which achieves this quality to meet our customers’ standards”.

In this instance, the Russell Compact Sieve[®] is an enclosed system, supplied with a lid to perform dust tight sieving and avoid contamination of the product, as well as safeguarding operators from harmful air borne powders and fumes. All contact parts of this unit were constructed with high-quality stainless-steel and brush-polished to protect the machine from corrosive material. With the installation of the Russell Compact Sieve[®], IMP is now able to consistently screen high-quality electrolytic iron powder at double the throughput rate when compared to traditional screening solutions, whilst also minimizing product wastage.

Established in 1934, Russell Finex has 85 years of experience in manufacturing and supplying customized sieving and separation solutions to many processing industries including metal powders, food, pharmaceuticals, chemicals, paints and coatings. Russell Finex provides a range of industrial sieving and filtration equipment to enhance productivity, safeguard manufacturers’ reputations and ensure operators’ health and safety.