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Press Release

Coperion Unveils the RF400 Roller Feeder: A Game-Changer for Consistent Electrode Dry Coating in Battery Manufacturing

Niederlenz, Switzerland – March 2026 – Coperion introduces the Coperion K-Tron RF400 Roller Feeder, an innovative new solution designed specifically to enhance the efficiency and consistency of electrode dry material feeding in battery manufacturing processes.

As the demand for high-performance batteries continues to surge, manufacturers face increasing challenges in ensuring the precise and reliable delivery of the electrode blend directly into the calender gap in dry battery electrode coating processes.

The RF400 addresses these challenges head-on, by offering a state-of-the-art feeding system that provides consistent material distribution, reduces waste, and improves overall production efficiency. It utilizes a unique, advanced roller technology to ensure a consistent and uniform deposition of electrode dry blends, minimizing variations that can lead to production inefficiencies. The combination of grooved feed roller and smooth scraper roller ensures gentle, consistent feeding without material bridging in the outlet, as well as uniform material distribution on the calender roller below across a coating width adjustable up to 400 mm. The RF400 is perfectly suited for use in laboratory and pilot scale production environments.

Precision, Durability, and User-Friendly Control for Efficient Material Handling

Designed with user-friendly controls and adjustable settings, the roller feeder allows operators to easily customize parameters for their specific applications. The RF400 is engineered for durability and reliability, ensuring long-term performance in demanding manufacturing environments.



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The new Coperion K-Tron Roller Feeder integrates seamlessly with existing proven KCM-III controls and Smart Force Transducer (SFT) weighing technology, ensuring unparalleled accuracy and reliability in material handling. This combination allows for real-time monitoring and adjustments, enabling manufacturers to maintain precise feed rates and adapt to varying material characteristics. Using this advanced technology, the RF400 not only enhances operational efficiency but also supports manufacturers in achieving their quality and production goals. By optimizing material usage, reducing waste, and lowering energy consumption, the RF400 helps manufacturers adopt more efficient and environmentally responsible production methods, supporting the industry's move toward advanced technologies.

"We are excited to introduce the RF400 Roller Feeder to the battery manufacturing sector," said Jay Daniel, Head of R&D Feeders and Feeding Systems at Coperion K-Tron. "This innovative solution not only enhances the efficiency of material supply but also supports manufacturers in meeting the growing demand for high-quality batteries. We believe the RF400 will set a new standard in the industry."

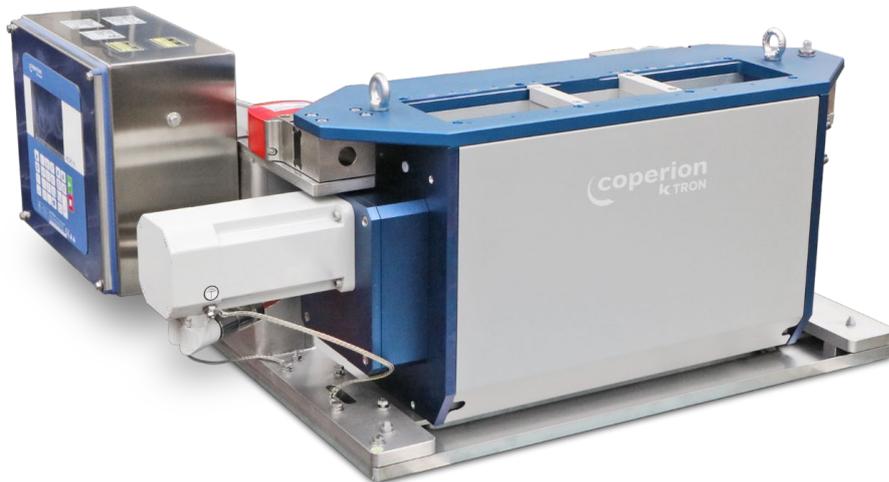
For more information about the RF400 and to schedule a demonstration, please visit our website at www.coperion.com or contact our sales team at info@coperion.com.

About Coperion

Coperion (www.coperion.com) is a global industry and technology leader in compounding and extrusion systems, size reduction, washing, separating, drying, agglomeration, feeding, weighing, material handling and pneumatic conveying systems, as well as milling, mixing, thermal processing, dust collection and other services. Coperion develops, produces, and services plants, machinery, and components for the plastics and plastics recycling, chemical, battery, minerals, food and pharmaceutical industries. Coperion employs more than 5,000 people in its divisions, Performance Materials as well as Food, Health & Nutrition - at over 50 sales and service locations worldwide.



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The RF400 utilizes advanced roller technology to ensure a consistent and uniform deposition of electrode dry blends, minimizing variations that can lead to production inefficiencies in dry battery electrode coating processes.

Photo: Coperion K-Tron (Switzerland) LLC



The RF400 features a unique combination of two rollers that ensures gentle, consistent feeding without material bridging in the outlet.

Photo: Coperion K-Tron (Switzerland) LLC