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Press Release**New Coperion extrusion system economically manufactures high product quality fertilizer spikes****Düngemittelwerk Coswig Expands Production with Coperion ZSK Extruder and ProRate PLUS Loss-in-Weight Feeder**

Stuttgart, January 2025 – The Düngemittelwerk (DMW) Coswig company has successfully started operation of a new Coperion ZSK twin screw extruder. Using the ZSK 76 Mv PLUS extruder with a screw diameter of 76 mm and equipped with a ProRate PLUS-MT twin screw feeder, the company produces fertilizer spikes of various formulations. Thanks to its high reliability and gentle processing, this Coperion extrusion system ensures consistently high product quality, and allows for recipe changes in the shortest time possible.

Coperion technology for high reliability and gentle product handling

DMW Coswig has been operating various Coperion extrusion systems for many years. In the current production expansion, the company again chose Coperion as its partner because the technology portfolio Coperion offers, together with the process engineering support, conform precisely to the demands of fertilizer spike extrusion.

For feeding powder premixes that tend to stick together, Coperion provided DMW Coswig with the ProRate PLUS-MT gravimetric twin screw feeder. Coperion developed this feeder especially for handling poorly flowing powders. The ProRate PLUS-MT avoids material bridging in the feeder hopper utilizing an integrated ProFlow flow aid. With its horizontal agitator the gravimetric feeder ensures that the two feed screws are always optimally filled with material so that ingredients are reliably and consistently fed into the extrusion process.

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In the ZSK 76 Mv PLUS twin screw extruder, the fertilizer powder is intensively mixed with liquid components and compacted in an extraordinarily short time. The Coperion ZSK Mv PLUS extruder excels with its large free screw volume, which allows for very gentle product handling. The intensive mixing behavior of the twin screws makes it possible to achieve the desired effect with a short process section. Upon exiting the extruder, the ingredients have been processed and compacted into an absolutely homogeneous mass, which is then dried and pelletized into the form of solid spikes.

DMW Coswig benefits from Coperion's twin screw technology on both the ZSK extruder as well as the ProRate PLUS-MT feeder. Both aggregates are self-cleaning and allow for rapid recipe changes with minimal cleaning time or effort, providing DMW Coswig with economical plant operation, even when frequent recipe changes are required.

"The ZSK extruder at DMW Coswig shows us how versatile and successful our extruders are in use. The high reliability of our technologies and very gentle processing are qualities that offer decisive added value for numerous applications. We wish DMW Coswig much success with their new Coperion extrusion system and we look forward to further collaborations", said Peter von Hoffmann, General Manager of the Business Unit Compounding Machines, Engineering Plastics and Special Applications at Coperion.

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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 three divisions, Performance Materials, Food, Health & Nutrition, and Aftermarket Sales & Service - at over 50 sales and service locations worldwide. Coperion is an Operating Company of Hillenbrand (NYSE: HI), a global industrial company that provides highly-engineered, mission-critical processing equipment and solutions to customers serving a wide variety of industries around the world. www.hillenbrand.com



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The Düngemittelwerk Coswig company has expanded production of fertilizer spikes with a Coperion ZSK extruder, equipped with a ProRate PLUS-MT twin screw feeder.

Photo: Coperion, Stuttgart Germany