



Compounding Plants. How to improve system performance by implementing state-of-the-art product discharge and material handling technology.

»» Compounding plants play a critical role in the plastics industry as well as in some chemical applications. By effectively blending and processing raw materials into more functional and application-specific compounds, these state-of-the-art systems support the development of high-performance, customized materials that drive innovation and efficiency across multiple applications.

Compounding plant operators face significant challenges. Product quality must meet the highest standards of consistency. It must not be impaired by unwanted byproducts, such as fines or streamers, that can occur during the handling and processing of materials. At the same time, production lines often need to reach very high throughput rates and work with maximum efficiency to maintain highest profitability. Meanwhile, plant operators must show foresight and planning to ensure that adaptable systems are put in place to manage the processing of different material sizes and densities as demands change.

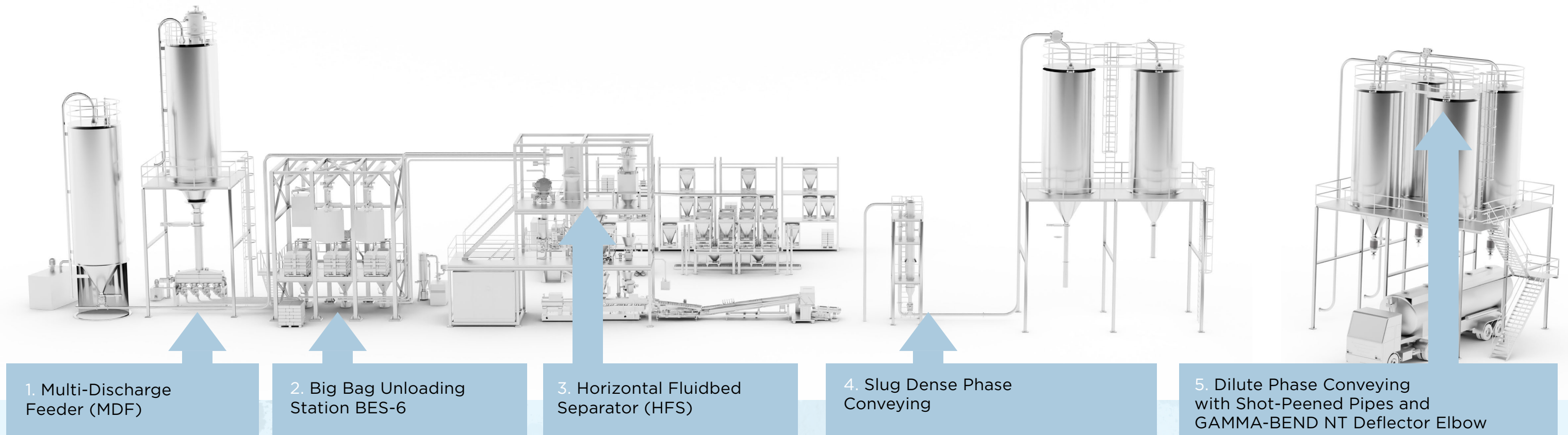
These challenges also present opportunities. Compounding plant operators can undertake targeted modernization measures, such as upgrading product discharge and material handling technology, to optimize performance. Such investments can improve product quality as well as plant productivity and efficiency, while promoting more sustainable operations by minimizing raw material usage and waste. These measures can also help avoid the generation of fines and streamers, which will subsequently reduce downtime.

Coperion offers complete end-to-end service for the modernization of product discharge and material handling technology that comprises:

- › Worldwide coverage managed by local in-country teams
- › Technical problem evaluation, identification and feasibility studies
- › 3D scanning of existing equipment for optimized system design
- › Product identification and selection from a broad portfolio
- › Replacement of ageing equipment with best-in-class solutions
- › Aftermarket service support, including maintenance and spare parts
- › Modernization of all components within compounding plants, in addition to product discharge and material handling



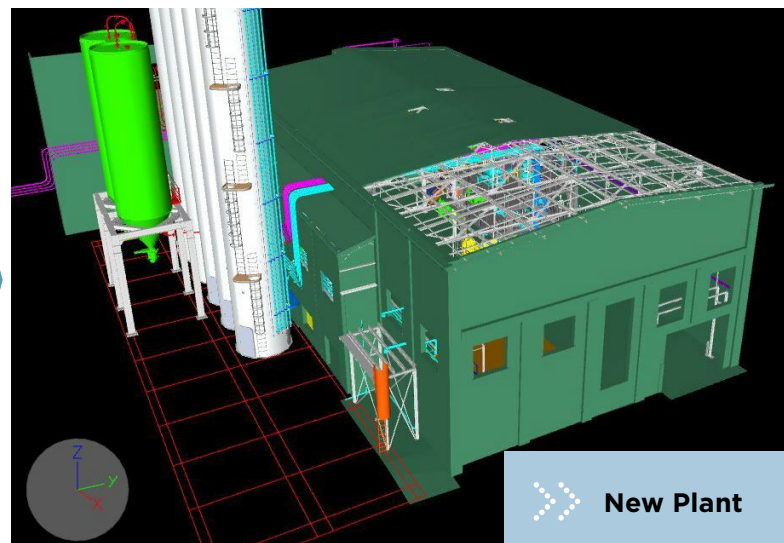
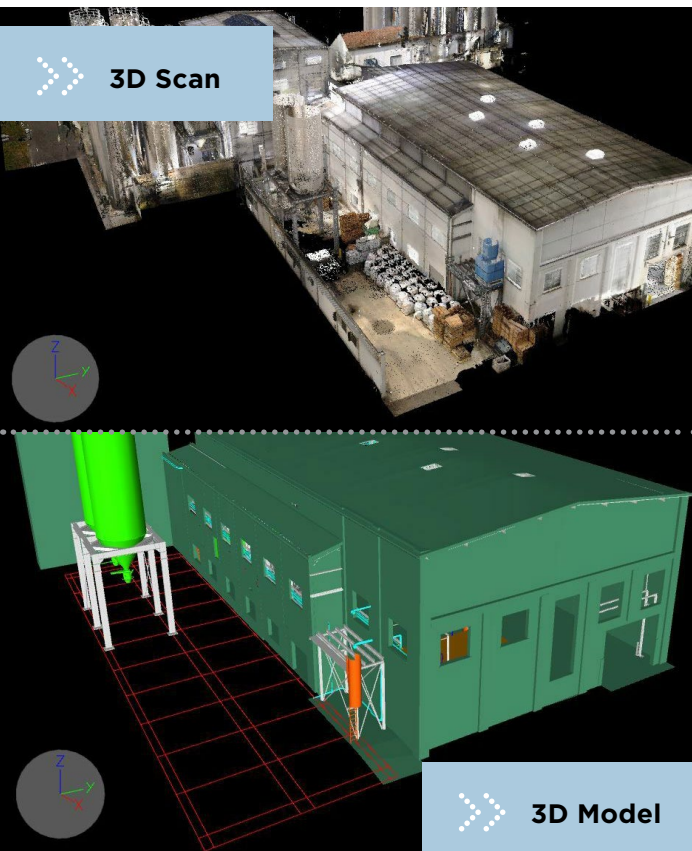
» Visualizing the potential in your plant.



» 3D Scanning: Ensuring optimal product sizing and selection

Some compounding plants have been in operation for many years. Inevitably, original engineering plans and drawings may have been misplaced or may no longer correspond to the current status of operation – which can be problematic when it's time to modernize.

Coperion helps customers overcome these challenges by utilizing state-of-the-art 3D scanning systems to establish the configuration of the installed product discharge and material handling equipment. With accurate representations of size and layout, Coperion can ensure that replacement equipment fits optimally inside the current footprint.



» Summary: Partner with Coperion to modernize your compounding plant

When compounding plants are initially built, they utilize state-of-the-art systems and components. However, as technology and market demands continue to evolve, new requirements may develop for handling different or new products and to integrate additional process steps, leading to the need for many plants to be optimized over time.

Through extensive research and development, Coperion has continuously introduced high-quality product discharge and material handling equipment for compounding systems, providing significant benefits in plant

operation. Today's advanced components are engineered to improve product quality, debottleneck existing systems, and optimize plant availability, efficiency and profitability.

The potential for optimization through modernization of existing systems is substantial, particularly for older plants. The older the plant, the greater the opportunity for improvement, making modernization a crucial step towards maintaining a competitive edge and achieving operational excellence.

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