Automated Bulk Filling & Discharging Systems

Systems Data & Specifications Guide Book



Forward Thinking. Real Results.

NATIONAL BULK EQUIPMENT

Bulk Material Handling Systems for Packaging & Processing Operations

NBE dry bulk material handling equipment and automated material processing systems deliver accurate, repeatable, long-lasting, and safe operation to packaging and processing operations, regardless of material characteristics, line speed requirements, or process complexity. NBE material handling equipment and automated process systems include: bulk bag dischargers, bulk bag fillers, container dischargers, conveyance systems, material storage, material mixing and blending, weighing systems, and complete systems automation control design and manufacturing.

- Bulk Bag & Container Dischargers: NBE process-integrated bulk bag and container discharging systems provide a total material process flow advantage; improving material introduction efficiency and ensuring accurate downstream material supply.
- Bulk Bag Fillers: NBE bulk bag filling systems provide stable, accurately filled, dust-free
 bulk bags by managing application requirements such as material characteristics, fill rates,
 feeding equipment, and other process demands.
- Material Mixing & Blending: NBE material mixing and blending systems range from pilot-scale batch mixers to full-scale, continuous blenders for fast and complete mixing of virtually any dry bulk solid material.
- Material Storage: NBE material storage systems range from in-line agitator hoppers
 to larger capacity silos designed to enable processing operations to profitably manage
 procurement, supply, and line introduction of bulk materials.
- Weigh Systems: NBE weigh systems include NTEP-certified weighing systems to ensure accuracy of plus/minus 0.5%. NBE weigh system controls integrate with upstream systems to provide automated operation.
- Integrated Automation: NBE built, and UL listed, integrated automation controls include system-wide sensing, monitoring, communication, and operation. NBE integrated automation manages a complete processing operation from a single, menu-driven, touch screen interface.

Bulk Bag Filling Systems

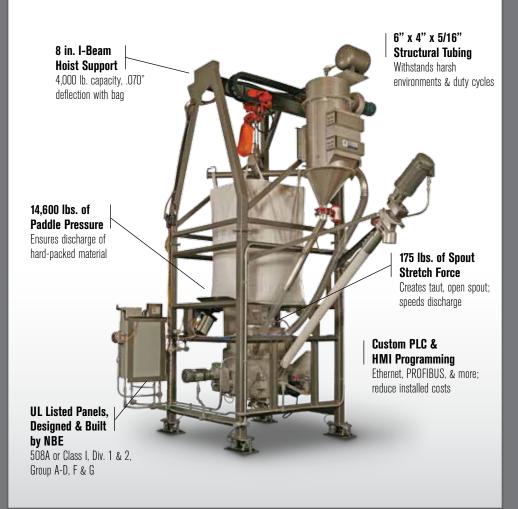




Integrated Automation: Bulk Bag Filling

NBE automated bulk bag filling systems fully integrate with upstream material processing operations to ensure accurate and repeatable bag filling. From construction to custom PLC and HMI programming, NBE process automation reduces error, speeds line throughput, and improves final package quality.

Bulk Bag Discharging Systems





Integrated Automation: Bulk Bag Discharging

NBE automated bulk bag discharging systems easily integrate with packaging and processing operations to optimize line throughput and increase batch accuracy. NBE custom PLC and HMI programming centralizes multiple process controls into a single, menu-driven controller interface, improving system-wide communication and monitoring.

Container Discharging Systems





Integrated Automation: Container Discharging

NBE automated container discharging systems integrate with upstream and downstream equipment to ensure packaged or raw material is provided without degradation, and without interruption to packaging or processing operations. NBE custom PLC and HMI programming centralizes systems communication and monitoring, optimizing process rates.



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