

Like every piece of equipment that bears the NBE name, our **Bulk Bag Dischargers** are the product of **forward thinking** and designed to deliver **real results**. When you receive your raw materials in bulk bags, the equipment used to discharge the material needs to be regarded as an **integral first step** in your process and not just another independent piece of material handling equipment. And, in doing so, you will quickly realize that your entire production facility is at the mercy of the **performance and reliability** of your bulk bag discharger. NBE is a market leader in the supply of bulk bag discharging systems to various industries because we are **acutely aware of the importance** of providing our customers **the best first step** money can buy. NBE dischargers perform their tasks with superior precision and reliability. How? Read on. You'll discover that what you get **out of your process** is the direct result of what we put **into our bulk bag discharger**.

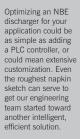
WHO MAKES THE BEST BULK BAG DISCHARGER? THIS SHOULD

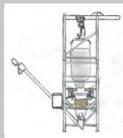
# CLEAR THE AIR.



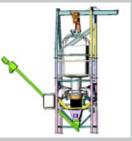
**KNOWLEDGE & TEAMWORK** Before we make the first weld on your bulk bag discharger, a wealth of materials handling experience and process knowledge is already built in. Ours is a decades-long legacy of innovative thinking, dynamic collaboration, intelligent engineering and rock-solid construction. In addition, all of these disciplines are housed within our state-of-the-art Holland, Michigan facility. This is especially important for highly customized units. Keeping the entire building process under one roof means maintaining control of quality and project timing throughout the entire design and fabrication process. And, as you well know, smooth process flow is critical whether your building a bulk bag discharger or producing and packaging a product.

#### AROUND NBE, FORESIGHT IS 20/20





One of our most valuable resources is our extensive use of 3D modeling. Your equipment selection team can preview your virtual piece of equipment from every angle and make well educated modifications prior to construction.

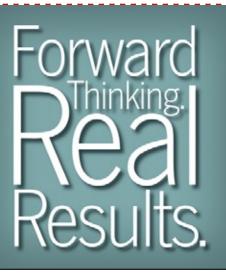


The foresight provided by the 3D model helps eliminate typical installation problems and hindsight wish lists. However, NBE goes one step further by fully assembling and testing the equipment with your material prior to shipping. This ensures the performance of the discharger within your system.



**RELIABLE CRAFTSMANSHIP** Of course, designing in all the smarts in the world is useless if it isn't built right. Once an approved design makes its way to our manufacturing floor, creativity meets craftsmanship. Again, the 3D rendering now guides our manufacturing team. It's here that the fruits of our vast experience are most apparent. Many of our welders, fabricators, and foremen boast decades of experience in building the finest industrial strength custom equipment. Add to this our close partnerships with only the top vendors in the industry, and you can rest assured, your discharger will be constructed with unparalleled attention to detail, and a constant eye toward maximum ruggedness and durability.

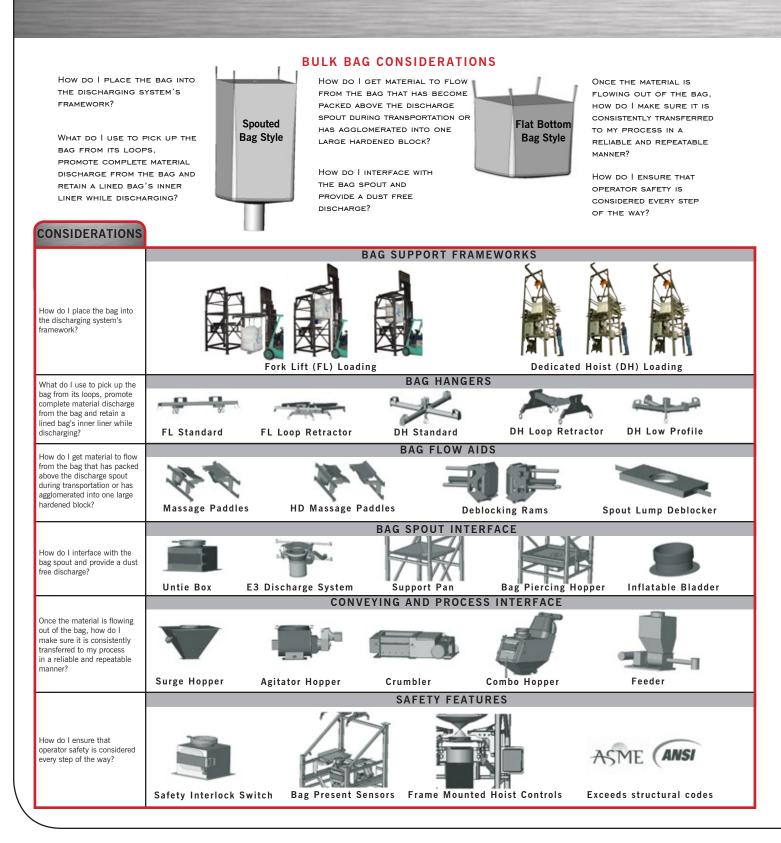




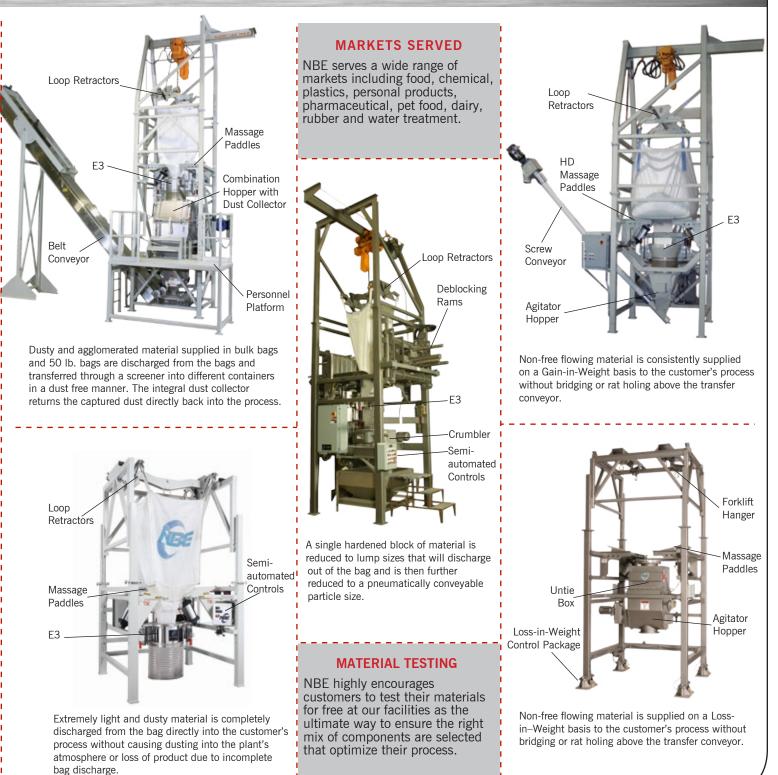
Four little words that will mean a lot once you purchase a National Bulk Equipment product. We think forward always considering the unit's function within the larger process to ensure that your NBE equipment won't just fit in, it will greatly enhance your production line, right to your bottom line. Once you experience the effects of Forward Thinking, you can call it what you will: increased productivity, consistent product flow, maximized efficiency and reduced operating cost. We simply call it Real Results.



**MODULAR COMPONENTS** Three decades of experience in designing and manufacturing bulk bag dischargers has certainly taught NBE one thing - **no two materials or applications are the same**. The wide variety of available **bulk bag styles**, specific **material characteristics**, **process demands** and **application constraints** make it impossible for most bulk bag manufacturers to **optimize their equipment** to meet your specific process demands when they only offer limited models. This is why **NBE pioneered** the modular designed bulk bag discharger many years ago. A **bulk bag discharger** is not "just a bulk bag discharger," it is the **first step in your process**. Think of it this way and you will **maximize** your entire system's performance and **long term profitability**.



**COMMON CONFIGURATIONS** Safe, efficient, dust free and complete discharge of materials from bulk bags are always going to be critical **material handling** design factors. However, NBE's **Forward Thinking** philosophy brings bulk bag discharger design up to the **process integration level**. NBE's dischargers consistently provide a **reliable and repeatable material supply** as your system demands. By **looking downstream into your system**, we will apply our vast materials and process knowledge to configure all the **required discharger features** that will **optimize** your entire systems' **performance**. From the simplest discharging station to a completely automated system, the **Real Results** obtained everyday by NBE's customers include: **increased** throughput and productivity; **improved** system controls integration; **reduced** operating costs through savings in direct labor and material losses due to spillage, incomplete bag discharge, and foreign material contamination.



### AUTOMATION

At NBE we believe intelligent automation makes all production processes safe, user friendly and just plain more efficient. Current advances in PLC control technology makes automating processes more economical than ever before and directly reduces manual labor costs. That's why, at NBE we offer our products with everything from simple automated tasks to fully automated systems. The real result of intelligent automation from NBE is a drastic reduction in long term operating costs while increasing throughput due to the speed and timeliness of repetitive tasks.

Our bulk bag dischargers allow for a wealth of automated functions throughout their operational cycles. Optional



PLC controls automate a range of operations from simply starting and stopping material transfer conveyors, to automating the entire sequence of operations based on downstream

process demands. Indeed, when integrated with material conveying, feeding and weighing technologies, our most complete automated systems can reduce human involvement to literally placing full bags into the discharging system and removing empty ones. All at a rate that optimizes the capacity of the entire process. Now that's Forward Thinking!



material from the discharger to your process, NBE will select the best method to fit your process needs. For applications where it's impossible to discharge material directly into your process, NBE first analyzes your material and downstream system. We then select the

optimal conveying system to transfer the material from the bulk bag to the heart of your process. Screw conveyors, pneumatic conveyors, belt conveyors, bucket elevators, drag conveyors, etc. can all be seamlessly integrated into your process with an NBE Bulk Bag Discharger. Regardless of the type of machine linked to your new NBE unit, our goal is to improve your bottom line through the improved efficiency of your overall process. And, to further ensure that your custom designed NBE discharger will be perfectly tuned to your process, it is extensively factory tested using your product and containers prior to shipment. Of course, your best first step in researching a bulk bag discharging system is to put NBE's

> skilled application engineers and designers to work on your toughest production challenges. Our staff is uniquely qualified and equipped to build you an ideal system from the ground up. Intelligent. Inventive. And always attentive to your desires and goals; the NBE team stands ready to apply their expertise and experience to deliver Real Results for you and your company.

## FORWARD THINKING

throughout our product line means

### REAL RESULTS

on your production line. (And, ultimately on your bottom line.)





#### Let's get started today!



**NBE USA** 12838 Stainless Drive Holland, Michigan 49424 USA 616.399.2220 phone 616.399.7365 fax

**NBE** Australia 1/47 Musgrave Rd **Coopers Plains** Brisbane Qld 4108 07 3277 0700 phone 07 3277 8477 fax

www.nbe-inc.com sales@nbe-inc.com

**Represented By:** 





Forward Thinking. Real Results.