SONIC AIR SYSTEMS

← CASE STUDY ARCHIVE

High-Velocity Golf Ball Dryer for the World's Leading Golf Equipment Manufacturer



Overview

Titleist, a renowned golf equipment and golf ball producer under the ownership of Acushnet Company, has been utilizing Sonic Air Systems' best Ball Dryers and Pneumatic Conveyor Systems since 1997. With over 850 million golf balls manufactured and shipped annually, Titleist requires reliable and efficient drying solutions for their production lines worldwide. Sonic's innovative systems have become integral to Titleist's golf ball manufacturing process.

Solution

Sonic Air Systems designed the Sonic High-Velocity Ball Dryer & Pneumatic Conveyor System specifically to accommodate the drying needs of spherical objects, including golf balls, on a continuous throughput basis. The system features a ball drying cabinet that ensures a continuous flow of single-file balls, with a throughput rate of up to 200 balls per minute. Sonic's high air velocity and blower heat, reaching temperatures up to 120°F (48.9°C), effectively dry the inner cores after the Glebar centerless grinder and jacketed balls after final rinsing. Sonic’s high-velocity air engineering delivered a gentle golf ball dryer where jacketed balls are unscuffed prior to the clear coat being sprayed on. The system operates with a sound level of less than 80dbA, ensuring a comfortable and quiet working environment. Additionally, Sonic integrated an integral pneumatic conveying feature within the dryer cabinet, powered by the same Sonic air blower. This pneumatic conveying system for air conveying golf balls replaces traditional material handling methods, such as belt conveyors and manual bulk product transfer, allowing for seamless movement of the balls through 2" piping to a delivery point up to 100 feet away.

Result

Implementing Sonic's High-Velocity Ball Dryer & Pneumatic Conveyor System has yielded significant benefits for Titleist's golf ball production process. The efficient drying capabilities and continuous throughput of the system have contributed to increased productivity and reduced downtime. By replacing conventional material handling methods, Sonic's pneumatic conveying system has streamlined manufacturing, enhancing efficiency and minimizing manual labor. The Sonic air blower's reliable performance and low maintenance requirements have further optimized Titleist's production lines, improving overall productivity.

KEY TAKEAWAYS

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