



Helical Screw

Tri-Lobe

Case Study

Strategic Partnership with Global Pasta Manufacturer Has No Boundaries

A renowned global manufacturer of pasta and baked products that now boasts thirty production sites worldwide, continues to choose Gardner Denver tri-lobe blowers and helical screw blower technologies for their production processes.

Their focus on environmental sustainability has become institutionalized as part of this pasta manufacturer's philosophy, which continually leads to strategic choices of proven technology that provides pioneering and efficient solutions. Decisions like the one to use Gardner Denver's range of products throughout its production phases ranging from milling to the actual production of pasta at their facility in the northern region of Italy.

Overview

CLIENT

Global Pasta Manufacturer & Bakery

LOCATION

Europe

APPLICATION

Pneumatic Conveying

PRODUCTS

- Tri-Lobe Blower
- Helical Screw Blower

CUSTOMER BENEFITS

- Certification of Class 0 - ISO 8573-1
- Better Efficiency
- Increased Performance
- Turndown Capability
- Reliability
- Serviceability
- Lower Total Cost of Ownership

Gardner
Denver

Gardner Denver tri-lobe blower packages are integral to the pneumatic conveying process that transports 15 tons of durum wheat flour per hour from the mill to the silos where the various pasta ingredients are stored. The blower package's robust, oil-free design provides superior reliability with easy maintainability to reduce downtime when service is required, maximizing throughput for a lower Total Cost of Ownership.

Once all the ingredients have been weighed, the resulting mixture is transported by means of low-pressure via a series of helical screw blower packages—with a capacity of 60 tons per hour—to the actual pasta production area.



The oil-free technology of the rotary lobe blower package provides the pasta manufacturer with Certification Class 0 – ISO 8573-1 as well as the ability to run at slightly higher pressure levels (14.5 psig) while maintaining low processing temperatures that prevent any risk of ruining the material being conveyed. These aspects are of vital importance for pneumatic conveying in the food industry, especially for this global pasta manufacturer where quality is a key factor.



The robust design of the helical screw blower package makes this system ideal for this pasta manufacturer's intermittent use, without risk of increasing component wear due to its turndown capability to a low rotation speed (max. 7,000 rpm) which has no adverse effect on maintenance costs. What's more, the highly efficient design of the blower package ensures energy savings of up to 20% compared with a traditional solution. The helical screw blower package's turndown capabilities and minimal service requirements mean a lower Total Cost of Ownership for the pasta manufacturer's production line.



Gardner Denver's lobe and helical screw blower packages are not only installed in the pasta production plants, but also in the baked product division; where the pasta manufacturer installed six helical screw blower packages for the pneumatic conveying of sugar and flour. They operate at capacity levels of 650 cfm and pressure values of 9.43 psig. For the baked product division facility, the choice of screw technology was a result of the energy saving advantages created by the helical screw blower package's excellent performance along with silent operation and minimal maintenance costs.

The pasta manufacturer's decision to choose Gardner Denver's product range extends beyond pneumatic conveying to wastewater treatment. Various blowers by Gardner Denver have been installed over the years and are used in the oxidative processes in the aeration basins for the plant's wastewater. They were selected because of their excellent reliability and robust design.

The partnership between the pasta manufacturer and Gardner Denver was established through application expertise and reliable, energy saving products in the Italy plants and continues to strengthen and evolve to their other manufacturing plants around the world.

To find out more about Gardner Denver Blower Packages visit:

www.gardnerdenver.com/gdproducts/blowers

To find your local Gardner Denver Sales & Service Representative visit:

www.gardnerdenverproducts.com/blowers/salesandservicelookup.aspx



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