

Bringing Down the Volume

First impressions can last a lifetime. The first impression of Gardner Denver's award winning Twisted Tri-Lobe blower technology was an overwhelming noise reduction for Huber Engineered Materials. The HeliFlow Industrial Series not only made a great first impression, but a lasting one.

Huber Engineered Materials is a division of the JM Huber Corporation and is located along the bluffs of the Mississippi River in Quincy, Illinois. They have been mining and processing high quality limestone called calcium carbonate at this facility since 1917. Over 650,000 tons of calcium carbonate are processed a year at their Quincy location. Calcium carbonate is used in applications such as floor tile, drywall, kitty litter, and traffic striping just to name a few.



Overview

CLIENT

JM Huber Corporation-
Huber Engineered Materials

LOCATION

Quincy, Illinois USA

APPLICATION

Reduction of Noise

PRODUCT

HeliFlow

CUSTOMER BENEFITS

- Significant Noise Reduction
- Better Efficiency
- Innovative Design
- Increased Performance
- Superior Durability & Longevity

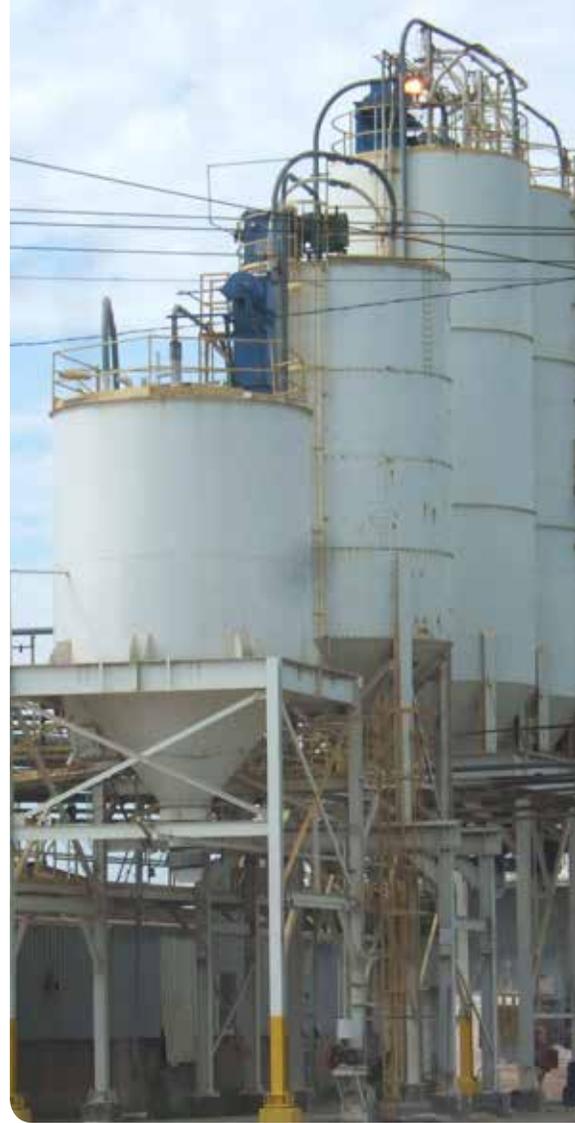
Protect your Greatest Assets with a Quieter, Safer Work Environment

This massive bulk process facility requires a large amount of blowers to move the 650,000 tons of material throughout their numerous pneumatic conveying systems. Huber Engineered Materials currently has over 90 blowers throughout the plant, which can mean a lot of noise. To the employees at Huber, quieter means a safer, more comfortable work environment.

“Noise reduction is what originally pushed us to begin purchasing HeliFlow blowers,” said Maintenance Supervisor Kevin Miller. In their original HeliFlow purchase in 2009, Kevin and his team were trying to reduce the decibels in a particular room to more comfortably work on an air compressor that was located in the same room.

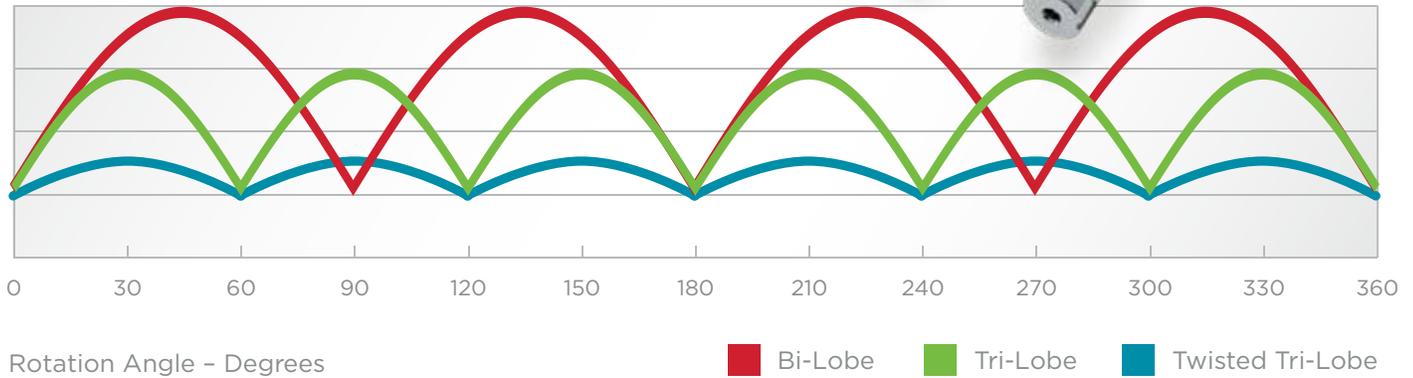
“Anything over 90 dBA’s requires double ear protection. With the previous blower the room was pushing 120 dBA. That level of noise creates a big problem getting people willing to go in to work in that room, even if it is just checking an air filter. It’s not that they don’t want to, but that high level of noise can physically hurt,” Miller said.

— Kevin Miller,
JM Huber Maintenance Supervisor





CHANGE IN PRESSURE PULSE



Kevin and the engineers at Huber worked closely with Power Supply Industries, an authorized Gardner Denver distributor for a solution. Greg Dierker with Power Supply Industries recommended the Twisted Tri-Lobe technology. It's revolutionary solid helical tri-lobe blower design integrates Gardner Denver's proven experience with blower design and manufacturing to create an innovative low noise solution for positive displacement blower and vacuum applications.

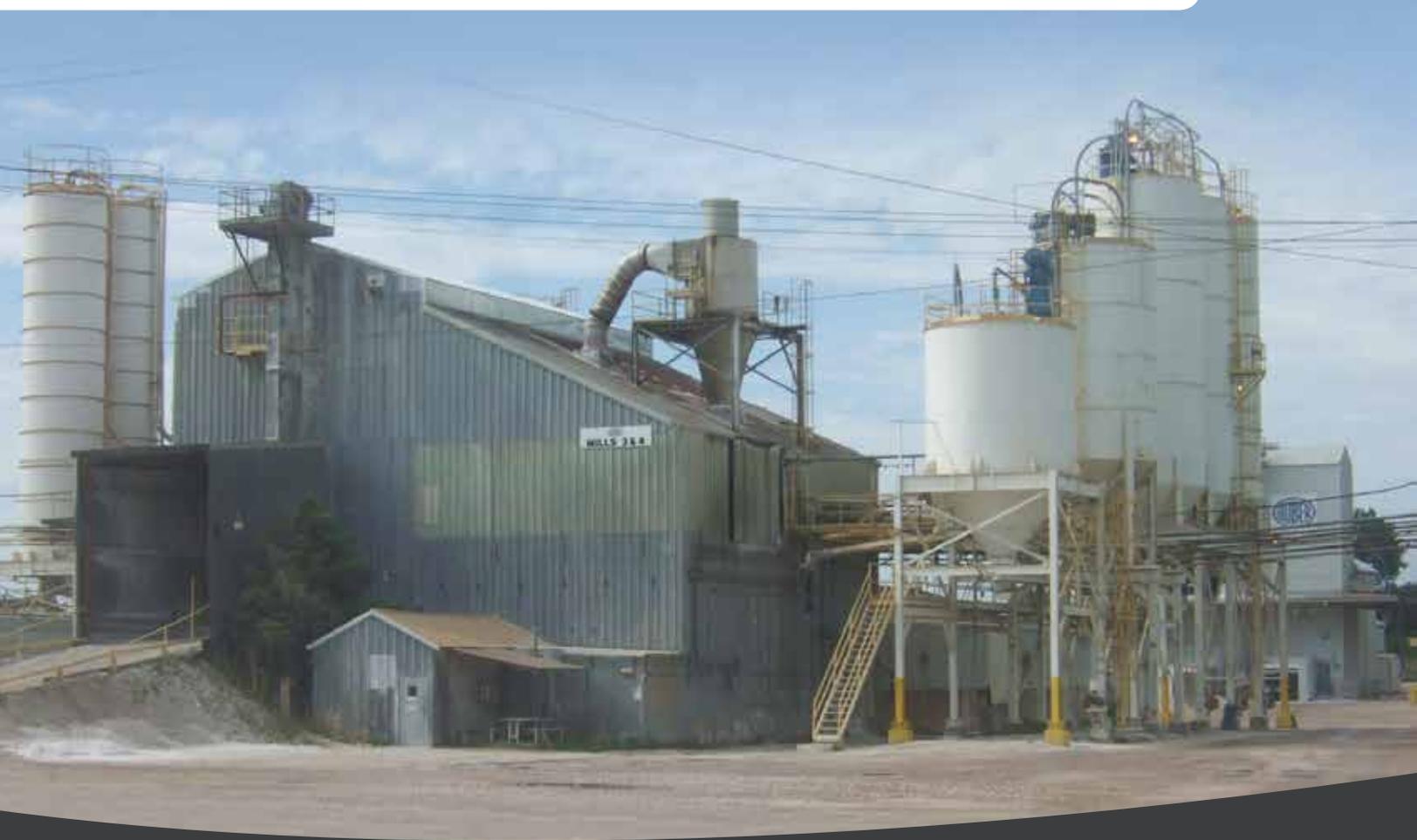
Kevin was astonished with the results. The sound level in the same room is now below 90 dBA's with the Twisted Tri-Lobe blower. That's over a 30 decibel reduction, and to Kevin that is a crucial safety improvement. "Safety is very important to our organization. Working in a room for eight hours at high levels of noise can be uncomfortable and unsafe. Every decibel can make a difference in making our job easier. We go to a lot of effort to reduce noise in the processes we have, and the HeliFlow takes care of that and so much more."

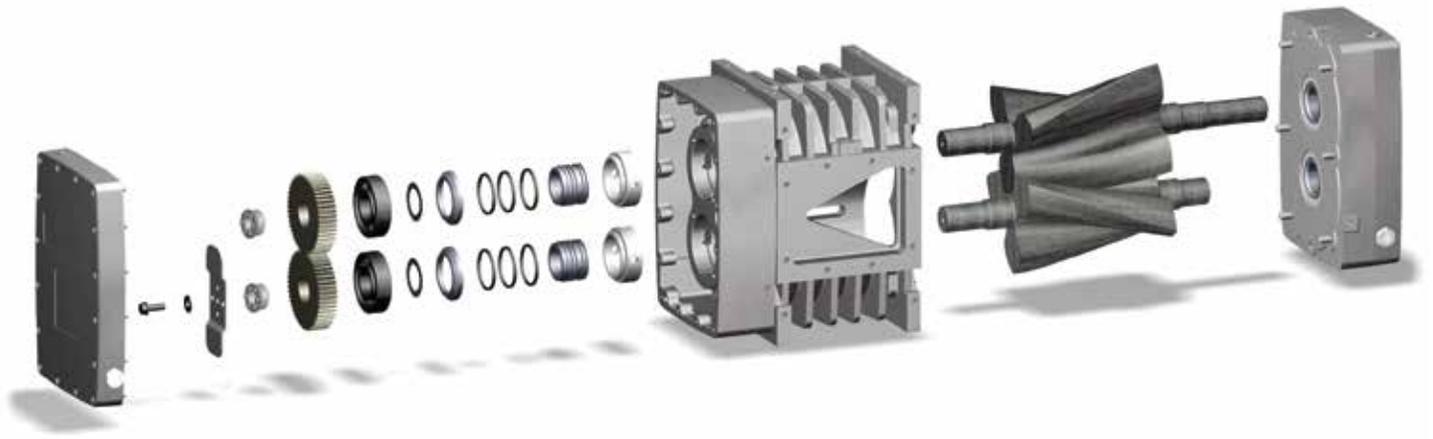
Noise was the major determining factor in purchasing the Twisted Tri-Lobe technology, but it came with additional benefits. Energy savings and longer lifespan of the blowers became complementary returns-on-investment, that really made it a no-brainer to continue to standardize. "When you have blowers running 24/7 that only get shut down for maintenance, you need a dependable blower. We've seen 100 - 150% lifespan increases compared to the blowers we previously installed."

"High goals were set when designing this innovative blower technology," explains Carl Kruthoff, a Product Specialist at Gardner Denver. "When you compare a Twisted Tri-Lobe blower to a typical straight lobe blower you're going to get significant noise reduction, increased efficiency, superior performance and unmatched durability with three to five times the shaft load capacity."

“Our plant had Gardner Denver products here when I started in 1981, and we continue to because they perform better compared to the competition. I would have a Gardner Denver product before I had any other product because of the superior design, performance, durability and noise reduction.

They continue to bring new technology and innovative products that improve our process.”





Power Supply Industries and Huber Engineered Materials continue the process of strategically replacing current blowers with the Gardner Denver Twisted Tri-Lobe technology. “It’s been a great working relationship,” Kevin explains.

“Power Supply Industries makes my job a lot easier. They do all the leg work. I don’t have to use my time on the phone or computer looking for things, researching performance curves and deciding what the best fit is for every application we have. Greg presents it well and we can make a decision based on that information. I can focus on my core business thanks to their excellent service and support.”





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