

COMPANY PROFILE ///

BUSCH VACUUM SOLUTIONS



LEADING VACUUM TECHNOLOGY

Busch Vacuum Solutions has a team of applications engineers and sales staff who are experts in vacuum technology.
(Courtesy: Busch Vacuum Solutions)

Busch Vacuum Solutions offers leading edge vacuum and overpressure technology to a variety of industries around the globe.

By **KENNETH CARTER**, Thermal Processing editor

Not to be content with being a global leader for industrial vacuum technology, Busch Vacuum Solutions has constantly branched out in the industrial sector since its founding in 1963.

“Busch has begun to offer a more comprehensive range of vacuum services, such as leak detection, remote condition monitoring of pumps, and full vacuum furnace maintenance and reconditioning,” said Tom Burke, vice president of business development at Busch. “With our recent acquisition of VESCO in East Windsor, Connecticut, we can now offer full vacuum furnace service, hot zone repair and replacement, controls upgrades, leak detection service, and of course vacuum pump service and upgrades.”

ADVANCED SYSTEM BUILDING

With its state-of-the-art facility in Virginia Beach, Virginia, Busch Vacuum Solutions boasts advanced system-building capabilities and cutting-edge vacuum pump manufacturing.

“For the heat-treating industry, we supply a wide range of vacuum pumps, gauges, hardware, engineered systems, and leak detector solutions to OEMs and end users,” Burke said.

But the company really excels in custom solutions, according to Burke.

“We specialize in engineered solutions,” he said. “I would say that is where Busch really stands out. We have experienced substantial growth with our customized engineered solutions. These systems can range from small laboratory pumping systems with filtration to massive systems up to several hundred thousand cubic feet per minute used for steel degassing.”

DRY VACUUM PUMPING TECH

“Dry vacuum pumping technology is becoming increasingly accepted in the heat-treat industry,” Burke said. “In my over 43 years of experience in the vacuum industry, I’ve seen all of the different types of dry pumping technology and configurations, and I feel that, by far, the COBRA is the best product on the market.”

COBRA dry screw vacuum pumps can be used in industrial applications that require reliable and contaminant-free extraction of gases and vapors. The operating principle is based on screw technology, which involves two screw rotors that rotate in opposite directions. The pumped medium is trapped between the cylinder and the screw chambers where it is compressed and transported to the outlet. During this process, the screw rotors do not come in contact with each other or the cylinder.

By offering products that are designed to be more environmentally friendly, Burke said Busch is always looking for ways to give

its customers what they need and expect.

“The Busch philosophy is that our customers have always been the focus of the business, but we also focus on our employees, the environment, and the community,” he said. “And within the heat-treat industry, we’re passionate about our solutions for even the toughest applications. We’ll take on any, and all.”



Busch offers a wide range of vacuum pumps, gauges, hardware, engineered systems, and leak detector solutions to OEMs and end users. (Courtesy: Busch Vacuum Solutions)

EXPERT TEAM

Accomplishing this takes a dedicated staff, according to Burke.

“We have a team of applications engineers and sales staff who are experts in vacuum technology,” he said. “Our experienced industry-leading staff utilizes the most advanced simulation tools and then produces a customized system that ensures maximum performance.”

Their dedication and knowledge serves as a testament to the

////////////////////////////////////

“We have a team of applications engineers and sales staff who are experts in vacuum technology. Our experienced industry-leading staff utilizes the most advanced simulation tools and then produces a customized system that ensures maximum performance.”



COBRA's operating principle is based on screw technology, which involves two screw rotors that rotate in opposite directions. (Courtesy: Busch Vacuum Solutions)

Busch team's ability to step up and identify the correct solution, according to Burke.

"It's pretty much just tackling any problem, whether it's a tough application or expanding our reach of service by adding service centers," he said. "For our customers, downtime is typically not acceptable, so we are prepared with many service options to keep them up and running."

EXPANSION

And with its recent acquisition of VESCO, Burke said it only serves to expand the expert services Busch has to offer in the heat-treating industry.

"We wanted to look at this industry holistically, and this seemed like a great way to offer more than just a vacuum pumping solution, but a solution for the entire system," he said.

VESCO was formerly part of the McLaughlin Furnace Group, a U.S. market leader in engineered vacuum solutions for thermal processing and surface preparation applications. MFG's major customers operate in the aerospace and defense, automotive, energy and environment, metalworking and fabrication, and semiconductor fabrication industries.

With the addition of VESCO, Busch Vacuum Solutions was able to expand its business by adding complementary services to its already broad offering of global field service, overhaul, repair, and installation.

The company was founded in 1963 by Dr. Carl Busch and his

wife, Ayhan, according to Burke, and has seen a lot of expansion over the years.

"Busch remains a family-run business at the forefront of industrial vacuum technology serving customers in industries such as chemical, plastics, food, steel, and semiconductor production with almost 70 companies serving customers in over 40 countries," he said. "We have established ourselves as an international leader. As far as our U.S. presence, our headquarters is in Virginia Beach and has a capacity of over 200,000 square feet with close to 500 employees."

MARKET LEADER

A 60-year-old base of expertise and a strong commitment to its customers has kept Busch going strong and will only help to serve the company as it continues offering the best expertise to the heat-treat industry and beyond.

"We've had great success recently in the steel degassing industry by offering some of the largest customized vacuum systems solutions in the world," Burke said. "The way I see the industry progressing is that customers will be looking for who's the most responsive supplier and who offers the widest range of solutions. We want to be that leader in the metallurgical market, and we will continue to look for creative ways to achieve that goal." ♪



MORE INFO www.buschusa.com



COBRA dry screw vacuum pumps can be used in industrial applications that require reliable and contaminant-free extraction of gases and vapors. (Courtesy: Busch Vacuum Solutions)