

ISSN 2644-2493

DECEMBER - 06 - 2019

MANUFACTURING

manufacturingtechnologyinsights.com

TECHNOLOGY INSIGHTS

HEAT 
TREATING
EDITION

Piotr Zawistowski,
Managing Director

***SECO/VACUUM
TECHNOLOGIES***

**Center of
Excellence
for Vacuum
Furnaces**

\$15



SECO/VACUUM TECHNOLOGIES

Center of Excellence for Vacuum Furnaces

By Laura Davis

SECO/VACUUM Technologies (SVT) is a subsidiary of SECO/WARWICK, a technology leader in innovative vacuum heat treatment furnaces and related professional services in North America. As a diversified company, SVT specifically serves the vacuum heat treatment, brazing, sintering, and metallurgy markets by providing standard and custom equipment solutions.

Starting in 2017, SVT has quickly established a strong presence in the U.S by launching a company that is solely focused on vacuum furnace technologies and is now ranked second in delivering state-of-the-art vacuum furnace systems in only its third year of operation. The company primarily focuses their products to serve aerospace and defense contractors as these markets depend heavily on best-in-class heat treatment of critical components.

In discussing the company's unique positioning, Piotr Zawistowski, Managing Director of SECO/VACUUM, explains, "Unlike most of our competitors who are comfortable with their legacy designs, our equipment is engineered to better align with our customers' evolving production trends and requirements." Mr. Zawistowski gives credit to their innovative and cutting edge R&D Team who is constantly working on the next cost-saving innovation. The SVT team carries out rigorous experimental projects while working with various technical universities to gather insights and experiences from industry to the lab in testing a multitude of new thermal processing techniques.

Assuring unparalleled excellence in thermal processing, the company offers an innovative product called Vector®, which is a single chamber vacuum furnace that is equipped with a high vacuum and high

MANUFACTURING
TECHNOLOGY INSIGHTS TOP 10
HEAT TREATING
SOLUTION PROVIDERS - 2019

“

Unlike most of our competitors who are comfortable with their legacy designs, our equipment is engineered to better align with our customers' evolving production trends and requirements

”

Piotr Zawistowski,
Managing Director





pressure gas quenching systems to perform multiple heat treatment operations across a range of process applications. Vector is capable of working in different workload capacities, temperatures, and quench pressures while being compact and easy to operate. The advanced control system provides for automated processing of a cycle, monitoring and alert functions, manages state-of-the-art preventive maintenance routines such as monitoring heating element oxidation build-up, and is designed to operate efficiently using a built-in power-saving mode.


Another product of SVT, CaseMaster Evolution® or CMe, is a multi-chamber vacuum oil quench furnace used for hardening, carburizing, and stress relieving. The CMe has the capability to process faster carburizing cycles, handle continuous processing of dense loads while maintaining uniformity in quenching with reduced distortion. Furthermore, the company has launched a new product UniCase Master®, or UCM, which functions as a single-piece flow vacuum heat treatment system and has extensive potential for the automotive industry. With a product line covering multiple types of vacuum heat treatment furnaces and related processes such as high pressure gas quenching, 4D quenching, oil quenching and gas nitriding, SECO/VACUUM team is always on the innovation cycle.

SECO/VACUUM excels in solving its client problems which speaks volumes about their position in the market. For those customers who use the Atmosphere Integral Quench equipment previously, SVT has launched a new

gas carburizing platform called SuperIQ® which is a furnace designed to integrate seamlessly with their customers' existing three-decades-old Integral Quench line. The new approach will allow SVT's clients to manage a variety of process parameters in a safe to operate furnace while producing a superior quality component. As a business philosophy, SVT is always focused on improving their customers' capabilities using new technology.

With the launch of Super IQ and another product —UCM® 4D Quench® — at the ASM Heat Treatment Show in Detroit in 2019, SECO/VACUUM added two important new products to its portfolio. Super IQ represents a major innovation in carburizing and

the UCM 4D Quench is SVT's modern alternative to press quenching.

The SECO/WARWICK Group also had a change of leadership. Sławomir Wozniak was recently elected CEO, making things even more exciting for the SVT team. With more expansion plans in the U.S., the company targets to grow its presence in the West Coast. 

“
SECO/VACUUM successfully implemented Low-Pressure Carburizing or LPC in their Vacuum Oil Quenching Furnaces to those customers who used the Atmosphere Integral Quench equipment previously
 ”

MANUFACTURING TECHNOLOGY INSIGHTS

DECEMBER - 06 - 2019

ISSN 2644-2493

MANUFACTURINGTECHINSIGHTS.COM

Top 10 Heat Treating Solution Providers - 2019

The rise of productivity and efficiency in the manufacturing industry can be attributed in part to the advances in heat treatment. The rising awareness of the environmental impact and the need for optimization of cost is encouraging robust innovation, leading to the development of more efficient furnace designs. Manufacturing organizations are seeking to enhance their productivity by improving the specific strength of products, reducing friction, and optimizing energy consumption.

The utilization of sensors is facilitating enhanced monitoring and visibility to manufacturers. By computerizing the essential functions of heat treatment, organizations are improving quality, reducing labor, and eliminating human intervention in processes ranging from delivery management to furnace control. The evolving surface treatment techniques and accurate mathematic modeling will empower manufacturers to meet client specifications with ease.

Inspired by the innovative trends revolutionizing the industry, this issue of Manufacturing Technology Insights is elaborately crafted to assist you in fostering productive partnerships and improving the performance of manufacturing industries through the implementation of revolutionary lean techniques. In this edition, we have compiled a list of top 10 heat treating solution providers to highlight the companies making significant contributions to the manufacturing world.

Equipped with robust and innovative technological capabilities, these solution providers are set to transform the manufacturing landscape. This edition also blends thought leadership, from subject-matter experts with real-life stories, on what selected vendors are doing for their clients, including exclusive insights from CIOs and CXOs. We hope it brings enhanced innovation and growth in your organizations.

We present to you Manufacturing Technology Insights', "Top 10 Heat Treating Solution Providers – 2019."



Company:
 SECO/VACUUM Technologies

Description:
 SVT offers vacuum furnace systems designed and built specifically for our North American customers

Key Person:
 Piotr Zawistowski
 Managing Director

Website:
 secovacusa.com