

The background of the advertisement is a photograph of an industrial facility. In the foreground, a large, cylindrical heat treatment chamber with a circular door is visible. The door is open, revealing the interior. To the right of the chamber, there is a complex assembly of pipes, valves, and electrical components. In the background, more industrial equipment and structural elements of the factory are visible. The lighting is bright, typical of an industrial environment.

WORLD'S LARGEST HEAT TREAT INDUSTRY NEWS SOURCE

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INTRODUCTION

I have to say that 2019 was a heck of a lot more fun than 2020 with COVID-19 and all the related issues which go with it. So we had to work up our courage to review our news section in preparation for the August, 2020 issue of *"The Monty"*. And you know what? The news wasn't as bad as we thought. Granted these are not good days for the heat treatment industry however having said that this issue includes a number of "good" news items including a press release from Nitrex about a major investment, a commercial heat treater in the USA installing a brand new vacuum furnace, an interview with Mr. Joern Rhode of Rhode Furnaces in which he talks about salt recovery systems, a story about a Canadian company starting up a brand new heat treat department and lots of "people" stories. Granted mixed in with the good news there is a certain percentage of "bad" news stories which includes fires and disappointing financial results however at the end of the day it could always be worse. Read on for the absolute latest news and trends in the worldwide heat treatment industry.

Sincerely,



Gord Montgomery



Jordan Montgomery



Dale Montgomery

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HEAT TREAT NEWS

The Website of Choice for Captive and Commercial Heat Treaters Since 1999

Peters' Heat Treating, Inc. Moves to Expanded Facility

Jul 30, 2020

"Peters' Heat Treating, Inc. has closed its original home of 40 years in the Fifth Ward of Meadville, PA, USA and moved its headquarters into a newly expanded Meadville facility in West Mead Township in the old rail yard on McHenry Street. Peters' Heat Treating was already operating from this location which housed their production oil hardening business but with an 18,000 square foot addition, they were able to consolidate the two Meadville locations and move the precision vacuum furnaces, black oxide line and other flagship processes to a new custom space. The now 32,000 square foot manufacturing space allows them to expand their product offerings and continue to grow the now 60-employee business. They have just recently announced two new lines of business: Aluminum Alloy Processing and Stainless Steel Black Oxide. They also continue to operate from their McKean, PA location servicing the local Erie area and including a specialized Nitreg Nitriding process.

Peters' Heat Treating finalized the move just one week before shutdowns began in response to the Covid-19 pandemic. While they were able to remain open with a state waiver due to their work in life-essential industries such as medical and military, the pandemic thwarted plans for a big Grand Opening event in June. They were able to celebrate with their team with a Crawford County Chamber of Commerce Ribbon Cutting this month. They hope to give tours when it is safe to do so again. "We are excited to consolidate our services and knowledge in a way that maintains our history and dedication to the local community and industry while providing us the runway for a successful future," Andy Wilkosz, President, said. "These current times are challenging but we know our business and the country will persevere."

Peters' Heat Treating has had several exciting announcements in the last year. They celebrated their 40th Anniversary in October of 2019. They also named a new President, Andy Wilkosz, in February of 2019, son-in-law of founders Doug and Jackie Peters. Daughter Diana (Peters) Wilkosz and husband, Andy, returned home to learn the business in 2015. Andy's degrees in Engineering and Business as well as his past roles as a U.S. Steel Manager, Process Safety Management consultant and Special Projects Engineer at another heat treat in Texas made him the perfect fit for the role. Diana oversees Office and Administrative functions. Son Christopher Peters also works at the company

managing its IT. Doug and Jackie are thrilled to keep the company in the family and to continue to service the local community. “It’s just been a pleasure to be a part of the local community and to help companies grow,” Peters said. “Probably the thing I’m most proud of is the great people I’ve had the opportunity to work with. I’ve watched them buy houses and have children, and now their kids are having children.” Doug and Jackie are both still active but look forward to future retirement.

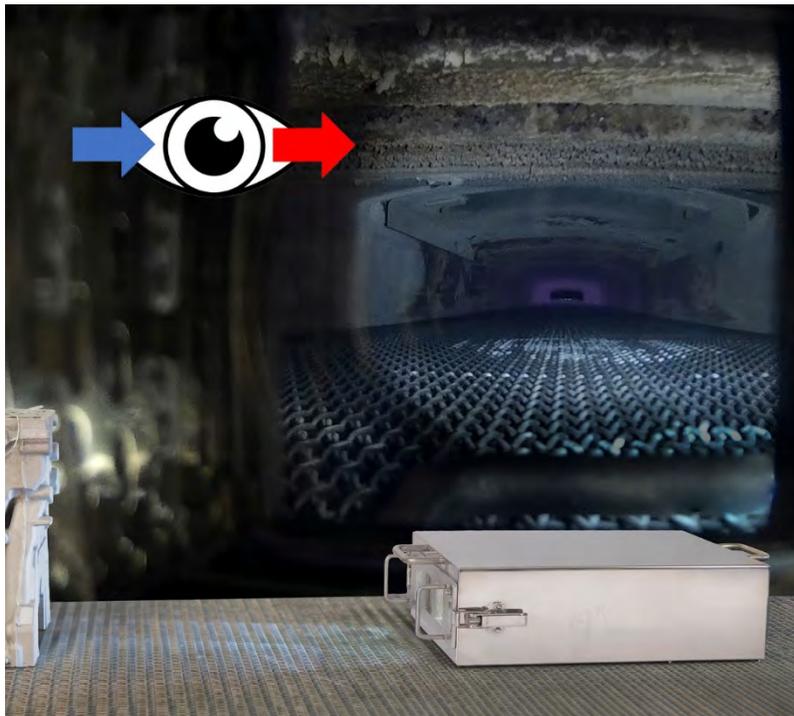
Peters’ Heat Treating, Inc. is a diverse heat treating company that specializes in a variety of high tech heat treating processes making it a leader in the precision parts heat treating industry. The company services the tristate region and industries including aerospace, automotive, defense, nuclear, molding, tool & die and more. Processing capabilities include: vacuum processing, neutral hardening, carburizing, gas nitriding, cryogenics, annealing, stress relieving, black oxide coating, induction processing, sandblasting, integrated straightening and metallurgical testing, as well as laser heat treating in partnership with Laser Hard, Inc. Peters’ is compliant to ISO 9001:2015, Federal Firearms guidelines and International Traffic & Arms Regulations. Learn more at www.petersheattreat.com.”





New Phoenix™ Optic System.....Optical Profiling of Your CAB and Vacuum Brazing Furnaces

Phoenix™ has complemented its existing range of ‘Thru-process’ temperature profiling systems with the exciting innovative new “*Optic system*” for use in continuous Brazing furnaces. The unique system allows for the first-time process engineers to view the inner workings of the furnace under normal production conditions. Travelling through the furnace, with the products being processed, the Optic system gives a product’s eye view of the entire heat treatment journey. The unique Optic thermal barrier has been



designed to provide thermal protection for both 4K high definition video camera and high temperature torches, providing an independent light source to ensure picture quality and definition. The resulting video “Optical Furnace Profile” show process engineers so much about how their process is operating without any need to stop, cool and dismantle the furnace. This allows safe routine

furnace inspection without any of the problems of costly lost production and days of furnace down time. From the video evidence, the root cause of process problems, possibly already highlighted by running the Phoenix™ temperature profile system, can be identified accurately and efficiently. Furnace structural damage or faulty furniture such as recirculating fans, control thermocouples or heater elements can be detected. Buildup of unwanted flux within the furnace can be monitored allowing accurate service and clean down schedules to be planned preventing future unplanned costly line stoppages. Damage or distortion of the conveyor belt compromising the safe smooth transfer of product through the furnace can be isolated with

accuracy helping reduce corrective action turnaround times. Backed up with efficient local service and technical support the PhoenixTM Optic system is a valuable new addition to the process or maintenance engineers PhoenixTM tool kit.



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Value

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Ipsen Group Establishes Excellence Centers

Jul 29, 2020

“Cherry Valley, ILLINOIS (July 29, 2020) – Today Ipsen announced the following changes after months of market analysis and working diligently to understand customer needs. The three main drivers are customer demand for expanded technical services, identical metallurgical outcomes worldwide and solutions for processing newly developed materials.

Ipsen is the global leader in heat treatment technologies with more than 10,000 operating systems in 60 countries. To ensure we properly address market needs to our current and future customers, we are establishing Technology Excellence Centers while further strengthening our offerings. An important outcome will be faster response times supported by advanced new service products in all regions Ipsen serves.

Ipsen’s equipment manufacturing business will be driven by an Atmosphere Technology Excellence Center in Kleve, Germany, and a Vacuum Technology Excellence Center near Rockford, Illinois, USA. This focus into one field of technology will enable faster-paced innovation and a laser-focus on performance and quality.

As a result of this change, new furnace equipment will be manufactured at fewer locations around the world with a focus on specialization. The Ipsen Germany location will exclusively build Atmosphere Batch and Continuous Systems while the US location will exclusively build all types of Vacuum Furnaces. Additionally, Ipsen India will continue to build Atmosphere furnaces for the India and Southeast Asia markets. Our China and Japan locations will no longer manufacture new furnaces, and will focus on customer service and the sale of new equipment from the Excellence Centers.

Importantly, the customer relationship with Ipsen will remain unchanged – we will continue to support our customers from all of our global locations. Sales, service and support teams remain local in each region as speed of response can never be sacrificed. All Ipsen plants remain open in all regions as the aftermarket support of our customers is more than half of Ipsen’s annual business. Activities such as upgrades, local inventory of parts and service will continue to be fully supported on a local basis.

This consolidation of equipment manufacturing sites together with the uncertainty of the global pandemic does result in a reduction of staff, which is a regrettable but necessary outcome from this carefully planned strategic

step. After more than 70 years in business, the Ipsen team remains inspired to continue delivering services and innovations that advance the safety and well-being of all.”



A close-up, high-angle shot of several interlocking metal gears. The gears are made of a dark, polished metal and are arranged in a circular pattern. Overlaid on the bottom half of the image is the text: "Improve the quality and appearance of your metals" in a bold, black, sans-serif font. Below this, in a smaller font, is "Learn more about our heat treating applications:". At the bottom, the PRAXAIR logo is displayed in green, with the word 'PRAXAIR' in a bold, sans-serif font and a green checkmark-like symbol to its left.

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We will buy your equipment

Carlisle Break & Friction Auction

Jul 29, 2020

Wednesday August 5th, 2020 there will be an auction of equipment located at Carlisle Break & Friction in Medina, Ohio, USA. As always we mention this because there are a few heat treat related items included such as a Bell Heat Treat Furnace line with 4 25" bases, a Becker Temper furnace and a few other odds and ends. All in all nothing real exciting- in this market we would guess it is 50/50 whether the equipment is sold or scrapped.



KGO Ships Salt Recovery Unit to a German Customer

Jul 29, 2020

From furnace manufacturer KGO in Germany we have this press release. *“Although KGO is best known for our superior gas nitriding systems the KGO product range is much wider and includes salt recovery units. This picture shows a SV270 system which was just recently delivered to a major customer in southern Germany. It is fully automated with a Stange controller and can easily be integrated into an existing heat treat line. This recovery unit has got a recovery capacity of 125 l/h and is a turnkey solution. In the USA we*

are represented by Mr. Ray Monahan of Heat Treating Equipment & Thermal Process Solutions in SC, 864-252-4241.”



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Where Are They Now-Michael Cousins

Jul 28, 2020



In the world of furnace manufacturing in North America, Michael Cousins is quite a familiar name due to his experience with companies such as Ipsen, AFC-Holcroft and Diablo (Diablo of course is now deceased). We see that Michael very recently became Sales and Service Manager at Williams Industrial Service, a large furnace manufacturer located in Bowling Green, Ohio, USA (their banner ad can be found on the right hand side of this page and their website is <https://www.wisfurnaces.com/>). We couldn't find a good picture of Michael so instead we dug out this picture of a very large Williams installation- this photo was taken at fastener manufacturer OMG in Agawam, MA. We wish Michael the best of luck in his new position.



Heat Treatment News-Bodycote Financial Results And Lots More

Jul 27, 2020



We start off the week with a very sad item, the passing of *Stacy Lee Morton*, General Manager of *Phoenix Heat Treating* in Phoenix, Arizona, USA. This is the second COVID-19 related death in North America that we have heard of in the

past week. *“Stacy Lee Morton, 61, of Gilbert, Ariz., passed away Thursday, July 16, 2020, in Chandler, Ariz., after a three-week-long battle with COVID-19. A celebration of life will be held at a later date. He was born Sept. 28, 1958, to Von and Margueritte Morton in Hutchinson, Kan. He grew up in Grand Island and graduated from Grand Island Senior High in 1977. He attended the University of Nebraska for photography. He previously worked at Hornady Manufacturing for 23 years, and was general manager with Phoenix Heat Treating at the time of his death. Stacy was a wonderful family man and an avid bow hunter for 50 years. He loved the woods; they were his sanctuary. He remained a loyal Cornhusker fan throughout the years and loved watching college football. He is survived by the love of his life, Sandra of Gilbert, Ariz.; his children, Nicole (Matthew) McClure of Phillips, Tasha Morton of Aurora, Kelly McCormick of Chandler, Ariz., Tanner Morton of Lincoln and Kevin McCormick of Gilbert, Ariz.; four precious grandchildren whom he adored, Harper, Ryne, Maddyn and Blake, and a fifth, Hunter, due in August; his parents, Von and Margueritte Morton of Chandler, Ariz.; his brother, Chris (Heidi) Morton of New Braunfels, Texas; his sister, Tonja Morton of New Albany, Ind.; several uncles and two nieces. He was preceded in death by a niece, Sommer Raye Morton.”*

Commercial heat treater **Stack Metallurgical** based in Portland, Oregon, USA has a new Business development Manager by the name of **Shane Johnson** at their Salt Lake facility. See where the company ranks in our list of the largest commercial heat treaters in North America <https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/> *“We are pleased to announce that **Shane Johnson** has joined the Stack team as Business Development Manager based at our Aerospace Aluminum Processing (ASAP) facility in Salt Lake City.”*



The world’s largest heat treater, UK based **Bodycote** released their 2020 interim results for the 6 months to June 30 2020. To very briefly sum up the company like every other one in our industry has been hard hit by the CORONA-19 virus but remains profitable due to a number of factors including cost cutting. As an example of cost cutting and organizational changes this paragraph can be found in the statement. *“The organizational restructuring that was announced in March has been accelerated and expanded. The closure of eighteen plants is underway, thirteen in Europe (ten Automotive and three Aerospace), four plants in the USA (three Automotive and one Aerospace) and one General Industrial plant in Eastern Europe. In contrast, three new greenfield facilities will open in H2, replacing outdated facilities that are part*

of the closures.” The complete report can be found at <https://www.bodycote.com/>

Last week we mentioned how **Elk County Heat Treaters** in St. Marys, PA, USA had suffered a fire (details below). We have been told that the cause of the fire was a subcontractor accidentally drilling into a high pressure oil line which basically created a flamethrower. Luckily no one was hurt and no customer product damaged. They are good people at Elk and we hope they are back in business as quickly as possible. *“Multiple fire companies responded to a*



Thursday afternoon blaze which resulted in heavy damage to the Elk County Heat Treaters plant. Crews were dispatched at 1:16 p.m. to Battery Street in the Stackpole Complex in St. Marys. Upon arrival fire personnel encountered heavy some with some flames showing. They quickly established a water supply. Additional manpower from surrounding fire departments was called in due to the contents of the plant, specifically the large amounts of oil which is typical of what is found in heat treating plants. Tom Bauer, Crystal Fire Department spokesman, stated plant employees managed to shut down the equipment including a piece which had malfunctioned and was spraying oil thus causing the fire. Once that piece of equipment was

shut down the fire died down. The fire caused heavy damage to the roof structure and minor water and smoke damage to the building. Firefighters and employees worked together to salvage most of the product inside the plant by covering it and saving it from damage.”

Remember a few weeks back we told you how **Missouri Heat Treat** was adding a new vacuum furnace? Well no need to remember as the original news item is below and we can now add a photo of the completed installation; *“Missouri Heat Treat Adding Vacuum Furnace; Commercial heat treater Missouri Heat Treat in Wentzville, Ohio, USA is pretty excited about receiving a brand new “Mentor” vacuum furnace from Solar Manufacturing.*

Missouri Heat Treat has this to say about the new furnace; " This investment represents a new development for MHT and an exciting future expansion of our processing capabilities". By the way this is the second vacuum furnace Solar has shipped to Missouri in just the past few weeks. Missouri Heat Treat is part of a very elite group in North America in that they offer commercial heat treating and also build new furnaces through their parent company Unitherm Furnace, LLC. Others in this group include Solar Atmospheres/Solar Manufacturing, Thermal Specialties in Tulsa, Oklahoma, Vac Aero in Canada, ALD and AFC-Holcroft."



From *Solar Atmospheres of Western PA* we have this press release; **“July 20, 2020** – Solar Atmospheres of Western PA celebrated thirteen years of AS9100 certification. Like the complexities of ever-changing customer needs, 2020 proves to be challenging businesses. Impacts to our daily routines, course of business, personal liberties, and even audit scopes bear a brunt of ushering in a new era. This new era is intricately woven with COVID-19, populous instability and intertwined with increasingly stringent standards, revised industry specifications, and customer requirements. Even with these new complexities, Solar passed this milestone for more than a decade of accreditation without any major findings. The live audit, which was conducted for the very first time, used a combination of email, telephone and video conferencing to grade Solar’s QMS, on recent aerospace work. The comprehensive review addressed recent events as risk and Solar’s response as

effective. Melissa Gruszka, Quality Manager and recent edition to Solar Atmospheres of Western PA, states, "We have a great team that can pull together, under any circumstances, to get work done. Solar maintains the highest standards by keeping Safety, Quality, and Efficiency in check and our customers in the foreground. Solar exercises a proven value system, integral to society, and empowers people, shaping a bright future."



We're looking at a story down in Alabama, USA about a manufacturer with **a large captive heat treater** making the decision to outsource all of their heat treating requirements to a local commercial heat treater. This company moved from the northern USA back in 2018 to the lower cost area of AL and brought their heat treating with them. However things change and the plan is to sell off all of their older, Ipsen, straight through atmosphere furnaces. Not a great time to be selling off older equipment however it was probably written off the books years ago. In Guelph, Ontario we see a number of used Induction systems at a company by the name of **Roctel** (a Linamar company) are part of an ongoing on line auction (probably it is redundant to say on-line auction-we think they all are these days). Looks like nice equipment and it should find a home pretty quickly.



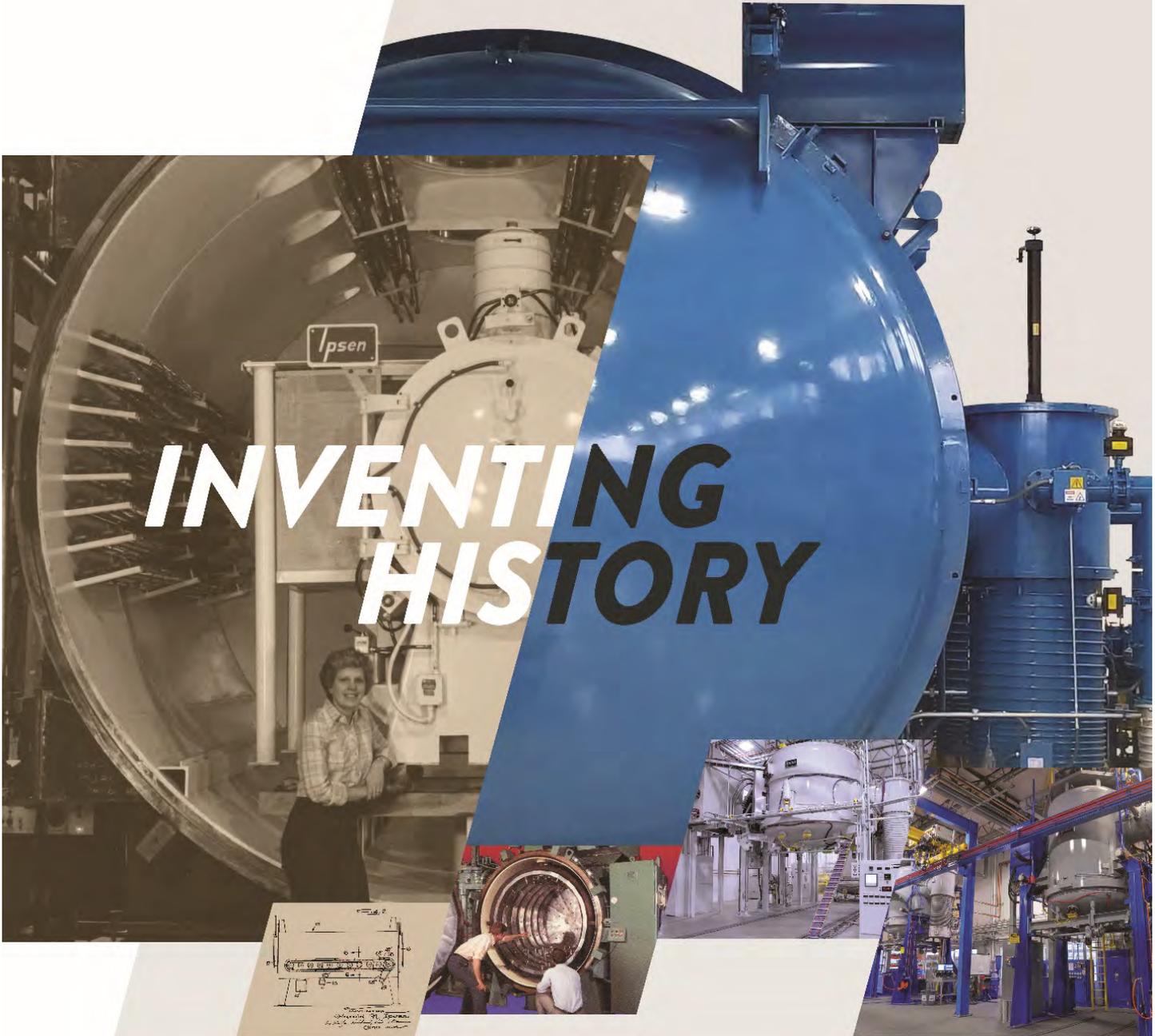
And to round things out we have this really cool picture of a load of parts coming out of a salt bath at *Akron Steel Treating* in Ohio.





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Every Heat Treater's Worst Nightmare

Jul 24, 2020



There can be nothing more devastating to a heat treater than a fire-unfortunately it is a not uncommon occurrence. These photos which were taken just yesterday show Elk County Heat Treaters in St. Marys, PA, USA. It is too soon to know what caused the fire however luckily there were no injuries. Elk county is a well established, medium size commercial heat treater. It is located in the city of St. Marys which is the powdered metal capital of the world and because of this the area has a very substantial amount of heat treating in relationship to the size of the area.





Alonzo Lozano, Accurate Steel Treating

Jul 24, 2020

It is with great regret that we mention the passing of long time heat treater Alonzo Lozano of Accurate Steel Treating in Southgate, California. On a personal note we can say that we had some business dealings with Alonzo and we always found him to be a pleasure to work with. Accurate Steel Treating is one of the largest commercial heat treaters on the US west coast. *Alonzo Lozano January 12, 1958 – July 15, 2020*

“On July 15, 2020 at 4:50pm our beloved Alonzo Lozano was called home to rest at the young age of 62. He was known as Alonzo, Al, Dad, but his greatest pride was being called Grampa. Alonzo was happily married for 43 years to his



first love, Karen Lozano. Not one day went by that Alonzo did not put Karen’s happiness before his. If Karen was happy, Alonzo was happy. With this union, Alonzo and Karen were blessed with two beautiful daughters, Marisela and Yolanda. They were truly the joy of their dad’s life. Alonzo was a selfless man. Never was there a time that his family did not come first. He would put everyone’s needs before his own. Alonzo was, and still is, the definition of a true family man. If we have learned anything from Alonzo, we have learned how to love

unconditionally. He was truly a friend to all who was blessed to be in his presence. Alonzo lived a life full of love, happiness, many friendships, and remarkable adventures. To have known him is to have loved him.

Alonzo was not only dedicated to his family he was also dedicated to his work. Alonzo worked at Accurate Steel Treating for 41 years. This was not just a job to him. He poured his heart and soul into his daily work and many of his coworkers became his second family. Alonzo is survived by his lovely wife, Karen Lozano, Marisela Lozano (daughter), Yolanda Lozano (daughter), JaRod Jones (grandson), Jace Lozano (grandson), Afra Jones (sister), Julio Estrada (brother), and Lucila Peters (mother). Alonzo is also survived by a host of cousins, nieces, nephews, other relatives, and close friends. Alonzo was loved by so many and will continue to be loved through eternity. His memory will be kept alive by the way we continue to show love to each other.”

Webster Industries, Tiffin, Ohio Investing in Heat Treat Department

Jul 23, 2020



In Tiffin, Ohio, USA we find Webster Industries, a 140 year old, employee owned manufacturer of chain. Webster makes our news section today due to the fact that they just announced several million dollars worth of investments in the facility-this includes automated loading systems for their in house heat

treat department. Just last year we visited this facility and what we saw in their heat treat department were a few batch IQ furnaces, some continuous lines and endo



generators. While we were not allowed to take any pictures in the facility we did get this one of the individuals responsible for heat treating. On the left we see Mark Kuenzli, Operations Manager, Craig Agerter, Heat Treat Department and Gord Montgomery on the right.

ION NITRIDING
SOLUTIONS



Why Nitriding Steel is Growing in Popularity

Jul 22, 2020

Will Rassieur of Paulo, the second largest commercial heat treater in North America (<https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/>) recently wrote this excellent article about Nitriding. In our opinion it is one of the most concise, easy to read articles on the process that we have run across.

“A case-hardening technique in use since the early 20th century, nitriding steel has been an effective lower-temperature heat treatment for work pieces longer than engineers and metallurgists fully understood it. Its appeal lies in the ability to harden a part by dissolving nitrogen into its surface without austenitizing, thus all but eliminating the risk of distortion. That opened the door for improving an ever-widening variety of parts. Its popularity grows as engineers realize the technique is effective across a broad variety of parts and industries.

Origin of nitriding steel; Metallurgist Adolph Machlet developed nitriding by accident in 1906. That year, he applied for a patent that called for replacing atmosphere air in a furnace with ammonia to avoid oxidation of steel parts. Shortly after he sent the patent application off, he noticed that treating parts in an ammonia atmosphere at elevated temperatures caused a “skin, casing, shell or coating” to develop around a piece that was extremely difficult to corrode or tarnish. Also in 1906, German metallurgist Adolph Fry led a research program during which he made the same discoveries Machlet made. He also noticed that adding alloying elements to iron heavily influenced the results of nitriding. Machlet’s patents for nitriding in the U.S. were approved in 1913 and 1914; Fry received patents in Germany for his process in 1924.

How it works; The process of nitriding steel begins by heating parts in a furnace to a relatively low temperature (between 950 and 1,100 degrees Fahrenheit, depending on a part’s intended use) compared to other heat treatment methods. At these low temperatures, the iron remains ferritic-phase changes that alter the structure of the iron do not occur. But the temperature is high enough for ammonia molecules injected into the furnace to break apart once they contact the workpiece. That breakup releases nitrogen atoms, which are soluble in iron. A compound layer of nitrogen and iron forms at the part’s surface, creating the case that improves a part’s hardness and toughness. One benefit of nitriding steel as opposed to using other heat treatments is that modern nitriding equipment allows for the precise injection of ammonia to achieve varying case depths. Another is that parts are free cooled rather

than cooled rapidly via quenching, a process that further limits the risk of distortion. The precision of the process is such that parts' intended qualities are achieved in a single step; they do not need to be softened down to specifications via tempering.

Increasing popularity; Because nitriding steel workpieces offers superior surface qualities with minimal risk of distortion, the process has become a mainstay treatment of parts across a variety of industries: Manufacturers of automotive parts choose to nitride gears, crankshafts and valve parts because the process imparts hard diffusion layers to the part surface. The increased fatigue strength resists the formation of surface and subsurface cracks. Nitriding has become an attractive heat treatment option for makers of tool steels and forging dies because it imparts critical surface hardness without the risk of distortion that accompanies higher-temperature treatments.

Makers of firearms nitride components such as gun barrels and slides because the process decreases friction coefficients, increases wear resistance and fatigue strength and imparts moderate corrosion control. With certified expertise that's backed by computerized process control capabilities we built in-house, Paulo guarantees quality heat treatment of your parts, no matter the industry or application. If you want to know more about the benefits of nitriding and why it might be the best heat treatment for your parts, contact us. Our metallurgists will gladly answer your questions." <https://www.paulo.com>



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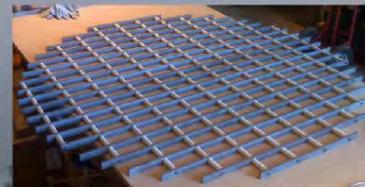
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Used Furnace Sales in the Age of COVID-19

Jul 22, 2020

At least for the time being COVID-19 has altered the world and our industry in terms that are still hard to grasp, and this includes used furnace sales. A rough rule of thumb would be that any used furnace with an asking price of over \$20,000 USD warrants an in person inspection, which means driving or flying. With current travel restrictions many times an actual visit has become an impossibility which has led to “virtual inspections”-an example is in order. Recently “The Monty” had listed a “like new” vacuum furnace with an asking price of \$300,000 USD. Like new yes, but still a used piece of equipment. A potential buyer surfaced but for obvious reasons did not feel comfortable taking a 4 hour flight to look at the furnace in person. The solution was that the vendor offered a virtual inspection of the furnace which was basically a live stream video of the furnace with the potential buyer requesting different camera angles. The buyer was satisfied, the deal was done and last we heard both buyer and seller were very happy with the outcome. Since that time “The Monty” has sold several other items by means of virtual inspections and to date each transaction has been successful for all parties involved. Whether this will become a long term trend remains to be seen but at least for the present virtual inspections appear to be a viable alternative to an in person visit.



David Brown Pit Carburizing

Jul 21, 2020

Recently in passing we spoke about a pit carburizing furnace located at a commercial heat treater in Germany by the name of REESE which is the largest we have ever seen. In response a fellow from gear manufacturer David Brown in Santasalo, UK sent us these photos of their captive heat treat department. With the ability to carburize gears up to 3 meters in diameter (9'), 3 meters high and with a weight capacity of 18 tons it is an enormous furnace, however still smaller than the one at REESE.





SECO/WARWICK To Deliver CAB Line

Jul 21, 2020

“SECO/WARWICK will deliver its flagship CAB line to a global manufacturer of cooling systems for electric car batteries. This is another SECO/WARWICK for an Asian client, their second CAB technology, and the first for their battery cooling systems. The system will be designed for soldering large size car battery coolers. Car batteries are currently the most active product line developing in the automotive industry. It is estimated that by 2025 the market of electric vehicles will be worth about 84 billion dollars. Controlled Atmosphere Brazing (CAB) technology has been the basic production method for most heat exchangers for passenger cars and other vehicles for several decades. SECO/WARWICK is a leading global manufacturer of CAB production lines. The current and forecast development of electric cars and the related rapid and long-term increase in demand for battery coolers is very positive for the segment of the company dealing in aluminum soldering and heat treatment.”

Nitrex To Install Vacuum Carburizing System & More Heat Treat News

Jul 20, 2020



For the week starting Monday July 20th, we have some very interesting heat treat news items for you starting with a news item about *Nitrex* in Aurora, Illinois, USA installing a new *ECM* vacuum carburizing system; “*Jason Orosz, President of Nitrex Heat Treating Services, announced a new plant investment aimed at expanding the Aurora, Illinois commercial heat treat facility located just west of Chicago. The production expansion will add a fourth building on the property to house a new low-pressure carburizing (LPC) system and secondary heat-treating equipment.*

The new ECM vacuum carburizing furnace with oil quench capabilities will help meet growing demand from makers of high-end critical parts within the automotive, aerospace, and tooling industries. The 20-bar dual-chamber furnace has a workload size of 40" L x 24" W x 28" H (1000 x 600 x 715 mm) and a load capacity of 1500 lbs. (680 kg).

Nitrex will break ground on the new building on July 20, which will connect to



an existing structure, Building 3. According to Bill Walter, Facility Manager of Nitrex Aurora, the construction project will be completed in January 2021, and production on the LPC furnace is expected to begin in April 2021. The

expansion will increase the production footprint by 11,000 square feet, a prerequisite to support current demand as well as future growth. Once this building is completed, the total floor space will be over 50,000 square feet. Nitrex first put down its roots in Aurora, Illinois in 2000, after acquiring Alliance Metal Treating from owner Tom Cooper, who stayed on following the acquisition to run operations and to help position the company for future growth. Initially, the plant offered heat treating processes focusing on annealing, carburizing, carbonitriding, neutral hardening, and normalizing.” In the photo below we have; Tom Cooper (Vice President of Business Development), Bill Walter (Facility Manager), and Raja Gumber (Senior Account Manager).

Now this is a real cool press release from **Accurate Brazing** in Greenville, SC, USA. “Accurate Brazing proudly announces and welcomes **Jennifer McPeek** to the newly created position of Southeast Regional Sales Manager. McPeek will focus on sales and marketing for Brazing, Heat-treating, and HIP’ing customers in Florida, Georgia, and Alabama. “We are very excited to have Jennifer join Accurate Brazing. She has a proven track record developing customer relationships and generating sales growth. She will be a vital part of Accurate Brazing’s Sales & Marketing strategy and growth into markets for not only our Brazing and Vacuum Heat-treating services, but also our HIP’ing capabilities,” said Brent Davis, Vice President of Accurate Brazing.

Jennifer joins Accurate Brazing with more than 30 years of experience in the Brazing and Heat-treat industry, working with customers across the Aerospace, Automotive, and General Industry sectors, and brings with her extensive connections throughout the US. Jennifer can be reached directly

at JenniferM@accuratebrazing.com or 561.225.3458. Accurate Brazing, a subsidiary of Aalberts N.V., is a full-service, one-stop shop for Vacuum Brazing, Heat-treating, and HIP’ing with over thirty years in the business and tailored primarily to support the Aerospace, Additive, and Power Generation markets. Accurate Brazing has facilities located in South Carolina, Connecticut, and New Hampshire.”



The seriousness of COVID-19 really hit home last week with the passing of a 61 year old commercial heat treater in California due to **COVID-19** complications. This is the first time we have run across a death in the heat treating industry directly related to this virus. **Mark Hemsath** of furnace builder **SECO/WARWICK** was recently promoted to VP Super IQ®

and Nitriding Technologies. We congratulate Mark, he is a good man who knows his stuff. Where are they now-**Steven Sumner**. Steven is another individual who has spent a great deal of his working life in the heat treating industry in North America. For a number of years he was with **Applied Process** in Livonia, Michigan ending up with the title of Vice President (for more information about Applied Process we would suggest our list of the largest commercial heat treaters in North America, Applied Process and their parent company are in the 7th position <https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/>). Steven is now Vice President of **Tri-City Heat Treat** in Rock Island, IL. We have this photo of part of the Tri City team which we took a couple of years back during a visit.



ED Industries in MO, USA did something relatively unusual recently, they went from absolutely no in house heat treating to a state of the art heat treatment department. The company makes high end automotive components and very recently they installed a heat treat area all revolving around vacuum furnaces. In **Italy** we see that a company by the name of **Lincotek Additive** has just installed a new vacuum furnace; *“Lincotek Additive has installed a high-vacuum furnace and a validated heat treatment process specifically designed for 3D printed titanium parts in its Trento, Italy Additive Production Center. The company says the installations complete its state-of-the-art additive manufacturing medical device facility, helping to triple its capacity for thermal treatment at its Northern Italy site. Lincotek has been using additive*

manufacturing since 2006, with more than 500,000 parts produced in that time and processes following the ISO 13485 quality management standard. To continue providing high-quality additive services, the company has enhanced its heat treatment capabilities to deal with reactive materials like titanium, while also adding a range of instruments 'essential for understanding and mastering AM powder metallurgy.'



Lincotek
Additive

Remember the press release from SECO WARWICK back in early June about *Youngstown Tool & Die* buying a couple of vacuum furnaces? Well in case you don't here is the original press release and we now have a photo of the first furnace rolling in the door. Youngstown is located in Youngstown, Ohio, USA. *"Increased capabilities. Increased throughput. Increased customer quality. These are the attributes behind Youngstown Tools & Die's decision to upgrade their existing atmosphere heat treatment capabilities to new high-pressure gas quench (HPGQ) vacuum furnaces from SECO/VACUUM, a SECO/WARWICK Group company. It's all part of the company's big upgrade and expansion plans. Youngstown specializes in manufacturing aluminum extrusion dies since 1961 and because of demand, is moving into a larger facility in their Ohio community to accommodate increased production needs. One of the 2 Vector furnaces ordered in January was made available as part of SVT's VIP program for fast delivery, while the other is scheduled to ship later in the year."*



To round things out for this week we have this photo from *VAS (Vacuum & Atmosphere Services)* in the *UK*. VAS is the Ipsen rep in the UK and also probably the largest supplier of heat treating services and products in the company. *"The Monty"* had been scheduled to spend some time with the company this fall but due to COVID-19 this visit will have to take place another time. VAS is celebrating their 20th year in business and we have this photo of the shop as it now looks. To compliment this picture we have another one which we took back in 2013 when we visited the company.





IHEA Executive Economic Update & Analysis

Jul 17, 2020

Each month IHEA (Industrial Heating Equipment Association) issues an economic report about the state of the industry in North America. It makes for interesting reading and for June the focus is on the economy and how COVID-19 has effected it. Please note that this is a condensed version of the report and does not include graphs that came with the original article.



"It may not be time to start dancing in the streets but the news this month is certainly a stark contrast from what it was last month. Of the eleven indicators we watch there were nine trending in a positive direction and not by a narrow margin. This was robust growth and significant gains. Before one gets overly excited, it has to be pointed out that the readings are still far worse than they were before the whole lockdown mess started. But the fact that a reversal has begun promises some continued expansion. That is the assumption at least. There are provisos that need to be acknowledged as the economy remains in uncharted territory. As has been pointed out repeatedly this is not a normal recession by any stretch of the imagination. It was essentially a manufactured event - a forced shutdown of the entire global economy as a last ditch effort to deal with a pandemic that absolutely nobody was prepared for. The stark fact is that governments are no better prepared

now than they were before and there are no other options available despite nearly four months of this outbreak. If the determination is made that the virus is spreading too fast again, that it is straining the medical community again, that it is sickening and killing too many people; the decision will be made to impose another lock down and whatever gains have been made in terms of economic recovery will vanish again.

It is not all that instructive to go through all ten of the positive indicators in this summary, the details are contained in the sector write-ups. There is a common theme as far as these rebounds are concerned and that is worth examining. It is also important to look at the two indicators that did not show recovery as this outlines the challenges that still lie ahead. The common theme is fairly obvious. The lockdown was lifted and business was allowed to resume. The expectation was near universal and proved to be accurate. The vast majority of businesses promptly reopened to the degree they were able and that varied with the sector. The majority of the manufacturing community was able to resume operations with minimal adjustment. Their biggest challenge was with their employees as there was a desire to protect the workforce from exposure and that necessitated new protocols as far as distancing and hygiene. The companies that could assign some workers to do their jobs at home did so, but most of the manufacturing activity does not lend itself to remote operations so barriers were erected, new rules established and workers were closely monitored.

In addition to the issues of protection there are old challenges such as finding the appropriate worker for the job. There has been a massive wave of layoffs but these have overwhelmingly been in the service sector and very few of those that are now seeking work have the skills needed by the manufacturer (or by construction or transportation or the medical sector). The attempt by the government to limit the damage from the lockdown meant providing extensive aid to the newly unemployed but that has meant that millions of people are resisting the resumption of employment until that government help runs out. That leaves many companies short of the people they need to start back up. The sectors that were hit the hardest and have struggled to rebound have been in the service arena. These are the jobs where personal interaction is nearly impossible to eliminate. Food service establishments are still only partly functional and event business is still completely closed down. Personal services have resumed but under very different circumstances and it remains unclear how well the consumer will adapt.

The two negative readings were in capital investment and steel consumption and this is interesting. The desire to invest in either new machinery or

expansion is still very low as the future of the rebound remains in question. Most companies have been working off their inventory and have not needed to add anything - there is still plenty of slack. The investment outlook remains cautious. Steel consumption remains down as there has been a collapse in public sector activity and the commercial construction sector has not figured out demand as yet. The vehicle sector is growing again but carmakers are still working off their old inventory."

M μ Shield (Londonderry, N.H.) Completes Heat Treat Department

Jul 17, 2020

It was late in 2019 that Solar Manufacturing announced that they had received an order for a new vacuum furnace from a company by the name of M μ Shield in NH, USA. In this press release we see that the expansion is now complete and as a bonus we can see the furnace is installed and functioning.

"M μ Shield (Londonderry, N.H.) today announced the completion of a years-long expansion of its manufacturing facility. The 12,000 square-foot expansion will feature ~6,000 ft² of new manufacturing space, 8 new offices for M μ Shield employees, and a state-of-the-art magnetic testing room to bolster the company's magnetic shielding operation and service.



Twenty percent of the increased footprint will serve as the new home of M μ Shield's newly acquired solar vacuum furnace, which will be used to conduct heat-treating mumetal magnetic shields and stress-relieving hydroformed components. (Mumetal is a soft ferromagnetic material that does not retain a macroscopic internal field after the removal of an external magnetizing field. It is used to shield

sensitive electronic equipment against static or low-frequency magnetic fields.) M μ Shield said it purchased the solar vacuum furnace because of the growth the company has experienced over the last 5 years.

"Due to significant growth over the last 10 years, we had begun to burst at the seams a bit, so this expansion was imperative, said M μ Shield sales & marketing VP Luke Grilli in a news release. "With growth comes the need for more manpower and machines, thus this additional space allow us to continue making capital investments where we may have passed in the past because of the lack of space. With new machines on the floor, we'll be able to offer quicker turns on delivery and possibly new technologies that we can take

advantage of, and pass those advantages on to our customer base — a win-win for all parties involved.”

Abbott Furnace Receives An Order For A Brazing Furnace

Jul 16, 2020

“Abbott Furnace Company is proud to announce that a global automotive supplier has placed an order for an electrically heated continuous belt brazing furnace to be installed in Mexico in the 4th quarter of 2020. Abbott Furnace will design and manufacture the industrial furnace for brazing of fuel delivery components and Abbott Furnace Mexico will install and provide after sale support of the four (4) zone line that is rated for 2,150° F and includes a 24” wide belt and silicon carbide domed muffle. Abbott Furnace is an industrial furnace manufacturer with 35 years of experience designing and producing some of the industry’s most reliable and high performing industrial continuous process furnaces. Abbott is a leading



producer of industrial sintering furnaces, annealing furnaces, tempering furnaces, brazing furnaces, heat treat furnaces, steam treat furnaces, industrial ovens, CAB furnaces, High-Temperature Furnaces and other specialty furnace products. Abbott Furnace is a privately owned company located in St. Marys, Pennsylvania. Abbott furnaces are proudly manufactured in the USA.”



Juan Vallejo Rodriguez Named Managing Director Hauck Heat Treatment Spain

Jul 16, 2020



In Spain we see that Juan Vallejo Rodriguez was recently named Director General of commercial heat treater Hauck, Spain. Hauck is the second largest commercial heat treater in Europe as ranked by “The Monty” <https://themonty.com/project/largest-european-commercial-heat-treaters/> While Hauck is based in Europe their parent company Aalberts Industries of The Netherlands has heat treat facilities in North America where they are ranked #7 by “The



Monty” <https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/> Unfortunately we do not have any photos of the Hauck facilities in Spain so we will have to go with this picture of the Hauck facility in Poland.



SECO/WARWICK Addresses Anonymous, Slanderous E-Mails

Jul 15, 2020



For years now furnace builder SECO/WARWICK has been the target of a viscous, anonymous e mail campaign. Literally 1,000's of companies from around the world involved in the heat treatment industry have been receiving these e-mails, today SECO addresses the issue.

“As one of the top five heat treatment leaders and an entity involved in the world economy, SECO/WARWICK confronts numerous challenges in everyday business life. Currently, such a challenge has become the network, specifically Internet hate.

The Internet is a huge environment that can help but also harm, because it allows anonymity of the recipient and sender, including certain anonymous vilification that SECO/WARWICK has experienced. Initially, our partners, suppliers and contractors received e-mail correspondence alleging alarming and misleading information about the situation of the Group. Now employees and customers have joined the group of consumers flooded with black PR. We are concerned that after a wave of hate sent to customers, hate speech on the Internet will start. SECO/WARWICK says NO to this prospect.

Almost every entity operating on the market has a presence on the Internet where it builds its reputation every day and confronts the opinions of the environment. SECO/WARWICK consciously uses the Internet to create and manage content, applying a great deal of effort in it, because we care about a reliable and positive perception and representation of our brand.

“The author, writing under a pseudonym (currently as: Suresh Manish) and attacking SECO/WARWICK, is the so-called internet troll who wants to discredit our company's activities and arouse controversial discussions. According to specialists researching the phenomenon of online hate, such a person feeds his low self-esteem, harms someone who is jealous or stands in the way of his alleged success. Our online troll, by providing information extracted from the context and presenting it in a selective manner, manipulates the facts. This attack is an act of economic hate,” says Sławomir Woźniak, President of the SECO/WARWICK Group.

It is not the competition that works under the pseudonym, but one of our former contractors, who formulates unfounded claims and negative opinions, and then slanders and sends this information to a wide audience.

SECO/WARWICK is pending litigation against this contractor, but it turns out that legal sanctions for violating our good name and reputation are not relevant to the author of the email. Despite the conviction, he continues to slander the company, which is done, among other means, via anonymous e-mails which, although not identified explicitly, suggest the authorship of the entity: a former contractor who has been in litigation with SECO/WARWICK for many years. The operating scheme and the way the wording is formulated clearly indicates that the emails are authored by the same and former SECO/WARWICK contractor.

We will fight these anonymous slanders, because the good name of the company and its employees is vilified, and the information itself misleads our partners. As a listed company, SECO/WARWICK is guided by the principle of transparency in business, relations and communication. We are not anonymous in what we do, because we believe that the facts speak for themselves.

“Cyber-bullies who feed on the possibility of making others’ lives miserable are a very severe phenomenon and I am sorry that the sign of the times is affecting such a reputable company as SECO/WARWICK” says prof. Jolanta Baranowska from the West Pomeranian University of Technology.

“I have cooperated with SECO/WARWICK Group for decades. This is the first time I have met a situation in which a global leader must defend itself against online frustration. A wave of hate poured out by this man hiding under a pseudonym offends and touches us, the scientific support team of the Group,” comments prof. P. Kula from the Lodz University of Technology.

“As heat treaters we all work hard to promote the many benefits of our industry and spread the word that we are the most cost-effective solution to the needs of manufacturing. The last thing we need or want is unnecessary distraction, especially from an unknown source questioning our motives and damaging our industry’s reputation” wrote Daniel H. Herring, “The Heat Treat Doctor.”

“Over my long career, I have had the privilege of working with most of the original equipment manufacturers (OEMs) worldwide and many of our suppliers as well. Each is highly ethical, acts in a professional manner and, simply stated, have their hearts (and focus) in the right place, serving the industry we love. SECO/WARWICK, both here in the United States, in Europe and around the world is no exception. Any attempt by anyone to suggest otherwise detracts from our ultimate goal, the advancement of the thermal processing industry so as to offer our customers the best tools to succeed. In this way, we all serve our better angels”, added Daniel H. Herring.

Nobody wants to be publicly defamed, because destroying reputations affects employee morale, business, decisions of potential clients and partners, or can weaken relationships. But SECO/WARWICK, with a faithful group of suppliers and customers in 70 countries, and always taking care of relations with partners, can boast and show that in this situation our partners are with us. "This defamation is an offense that involves slandering a company that could expose it to loss of credibility and trust. We have not lost confidence in SECO/WARWICK; we believe and confirm its credibility and the credibility of its devices. Proof – years of collaboration and dozens of solutions for this brand," says Mike Jarvis, Engineering Director, Wallwork Heat Treatment Ltd. "After receiving the e-mail, our reaction was to forward correspondence to SECO/WARWICK without asking us to explain the matter. Because we do not respond to anonymous correspondence. As a transparent company, we require transparency from partners and those who want to be in dialogue with us. Anonymity does not embrace dialogue or transparency," comments Sebastien Matray, GAUBERT MATRAY INDUSTRIES CEO.

"We were surprised by the correspondence received and the information contained therein. The surprise was all the greater because we've been working with SECO/WARWICK for 10 years, on 10 projects. We know who our contractor is and our relationship has long since we crossed the threshold of partnership and are now at the stage of business friendship. As a friend, we tell the hater – NO", noted Sylwester Pawęta, Chief Operating Officer and Commercial Proxy at HART-TECH.

"In response to the defaming emails sent about SECO/WARWICK, Rex Heat Treat has not experienced any out-of-the-norm difficulties in our dealings with the company. RHT has purchased standard vacuum furnaces, first of its kind vacuum oil quenching furnace, bell style tempering furnaces, and the tallest oil quenching vacuum furnace in the world from SECO/WARWICK. We have found the entire group to be professional and highly creative for our unique needs. Rex Heat Treat looks forward to our continued relationship and next purchase from SECO/WARWICK and SECO/VACUUM Technologies," said Johnathan W. Rex, General Manager.

"Metals India and SECO/WARWICK relations are not impacted with such kind of communication as we have had a wonderful experience in the past and continuing through present day", commented Ankit Gupta, Managing Director of Modern Metals India.

"I was extremely disheartened to read this slanderous correspondence about SECO/WARWICK. This absolutely does not fit the standard of business

behavior. All the more so because working with SECO/WARWICK as a business partner is always a great pleasure, combined with mutual respect and trust; with such experiences, it is impossible to believe these accusations,” adds Magdalena Nizik, General Director of CPP Poland.

Although the presented circumstances are completely independent of the Company, we apologize to our partners for any inconvenience caused. We declare that we have taken legal steps related to the situation that misrepresents our situation to our partners. We are guided by the principle of transparency, one of the most powerful forms of defending the good name of the company and its employees. Thus, this public message from the Group.”



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What Does a Flood at Mercedes Have to Do With LinkedIn?

Jul 14, 2020



Just over 1 year ago a flood devastated the in house heat treating department at the Mercedes transmission components facility in Sao Paulo, Brazil. This mammoth heat treatment facility which consists of pusher furnaces, Nitrex pit nitriders, rotary hearth furnaces and batch IQ furnaces was totally devastated as you can see in this exclusive to “The Monty” video. With roughly 6500 followers on LinkedIn “The Monty” boasts a following which dwarfs all other heat treat news outlets and these videos remain our top LinkedIn item of all time with roughly 15,000 views. Interested in our second highest viewed item? That would be our 2019 interview with Mr. Stephen Harris, CEO of commercial heat treating giant Bodycote.

<https://themonty.com/project/mr-stephen-harris-bodycote-ceo-interview/>

UPC-Marathon President, Oliver Caurette Climbs Mont Blanc

Jul 14, 2020

“Climbing Europe’s highest mountain, Mont Blanc, has been a long-standing dream of mine. One that has lived on for many years and was finally fulfilled this month. What you read below is my journey of perseverance and resiliency towards unlocking my potential.

After 6 months of training to get fit for the climb and to my great satisfaction, I succeeded in summiting this majestic mountain in the French Alps. My sincere thanks to my family who supported me throughout every step of this journey and to my guide Jonath who pushed me at the right moments to give me that extra boost.

Success did not come easily. I attempted my first climb in 2019, but, at 4300 meters (14,000 feet) elevation into my trek, I was forced to return to camp because of poor weather conditions. With 120 km/h (75 mph) winds, a heavier than expected snowfall, and a temperature of -20°C (-4°F) and dropping, mountain conditions were not ideal. Consequently, the planned climb was stopped over safety concerns, and I dispiritedly returned home. Of course, this was not my first or last lesson in the limits of my potential. When you set yourself a goal, you want to reach it - mostly, to prove that you can. Dispirited but not defeated, I was inspired again in 2020 to succeed. While the environment in 2019 was not favorable, 2020 in contrast was amazing with early summer daylight and the summit above the clouds. Even though my

efforts were similar in 2019 and 2020, the result was so very different. The 2019 experience fueled the 2020 success. There is no bad experience, just an opportunity to learn a lesson along the way. Don't stop trying if you fail once. As professional tennis player Arthur Ashe once said, "Success is a journey, not a destination. The doing is usually more important than the outcome."

I see so many parallels between my adventure and UPC-Marathon's journey to success. Both are driven by one strong objective, a team that helps you get prepared and is ready to help, support from experts, the ability to overcome doubts, as well as the strength and determination to keep going forward and make things happen again and again - ultimately succeeding in our day to day achievements and taking us to the pinnacles of success.

I've learned a lot about myself and my limits during the ascend, but also during the long descent. At UPC-Marathon, the process of transforming our company to achieve greater success and be more resilient during difficult times and situations is our common Mont Blanc. Staying in control, never giving up, trusting your guide/leader, leaving your comfort zone when needed, staying confident in your competence, and relying on your best self will open your mind to what's possible and what it takes to succeed. By the same token, we must focus on our goals and embrace the everyday challenges to reach our personal and professional summit. Once we are engaged and appreciate the necessity and benefits of challenges, there is no barrier to stop us in the face of new and emerging challenges and our quest to seek solutions. We are the best ourselves only when we give the best of ourselves.

To sum up, I leave you with one of my favorite quotes from Mike Horn, the world's greatest living professional adventurer who has repeatedly demonstrated that there are no limits to the potential of the human spirit, "The impossible exists only until we find a way to make it possible". By expanding our view of what's possible, we all have the potential to unlock creativity, innovation, rewards, and fulfillments.

<https://www.nitrex.com/life-lesson-perseverance-resiliency/>



Paul Oleszkiewicz, Jean Francois Cloutier, Olivier Caurette

Live Heat Treatment Shows a Thing of the Past?

Jul 13, 2020



Furnace and oven builder *Delta H Systems* in Pickerington, Ohio, USA is just about ready to ship an oven to a North American company doing additive manufacturing. This will be used for processing aluminum parts and features an external water quench tank. Delta H is a family owned business which offers a wide variety of walk in ovens, benchtop furnaces and composite curing ovens to name just a few of their many products. There are not many “in person” trade shows remaining this year. *Furnaces North America* which is slated to start September 30th announced just last week that they would be changing to a “virtual” format. *AISTech 2020*-The Iron & Steel Technology Conference & Exposition which was to be held August 31 to September 3 in Cleveland has been cancelled. Pretty much the only heat treat related show which is still a go as a “real” event is the *ASM IMAT 2020* (International Materials, Applications & Technologies) event in Cleveland, Ohio, USA September 14-17.

Tom Hart who was with *SECO/WARWICK* in the US left the company for a short period of time but is now back as Vacuum Furnace Product Manager. Why would anybody want to leave heat treating?



ALD Receives General Motors Supplier Quality Excellence Award for 2019 (Editors note; ALD specializes in vacuum carburizing of automotive transmission components). “*Congratulations to the entire ALD Team on another fantastic year of providing Superior Quality Vacuum Heat Treating Services! The hard work, dedication, and support of our local ALD Port Huron MI. Team, ALD Vacuum Technologies GmbH, ALD Tratamientos Termicos, AMG (Advanced Metallurgical Group), and all our ALD affiliates has been very much appreciated. These efforts have resulted in having been awarded the*

General Motors Supplier Quality Excellence Award for 2014, 2015, 2016, 2017, 2018, and now 2019!"



Out in Wisconsin, USA *Jagemann Munitions Components*, a manufacturer of munitions will be adding to their heat treating department. Very nice to see these days that some companies are growing and investing. ***End of the line for Selma Precision in Selma, North Carolina.*** A number of years ago an Indian company by the name of Sona set up shop in Selma, North Carolina, USA to manufacture auto parts. The plant featured a fairly large in house heat treating department consisting of multiple batch IQ furnaces and associated equipment. Disaster struck in 2016 when a fire caused several million dollars worth of damage and destroyed at least one furnace. The insurer paid \$21 million USD and the plant and heat treating department were rebuilt with state of the art furnaces and the company was back in business. Shortly thereafter the facility was shuttered and all of the equipment went on the market with the heat treating equipment being dispersed to various locations around the US. Last week marked the final end to the story with all the remaining equipment including 3 batch IQ furnaces having a new owner. The photo below shows an AFC batch IQ furnace which was part of the installation.



We're going to leave you with a couple of photos of a commercial heat treater in South Africa by the name of *Harchris Heat Treatment* in Johannesburg which "The Monty" visited a couple of years back. Harchris is one of the largest heat treaters in the country and specializes in handling very large parts as you can see in the one photo.





Burloak Technologies Installing In-House Heat Treatment Department

Jul 10, 2020



In Burlington, Ontario, Canada we find Burloak Technologies who describe their company thusly; “Burloak Technologies is Canada’s leading supplier of highly engineered additive manufactured components for demanding applications.” <https://burloaktech.com/> The company makes our news section today due to the fact that for months, if not years the company has been planning their brand new, state of the art in house heat treating department and just this week one of the first pieces of equipment arrived-a new Titan vacuum furnace from Ipsen in Rockford, Illinois, USA. Installation and Nadcap qualification are the next steps. Future plans are very ambitious to say the least, with several more large pieces of equipment on order, this includes a furnace for processing aluminum. Additive manufacturing is proving to be a rapidly growing market for furnace manufacturers, already this year we have announced several large heat treatment investments in the field and we would expect this will grow rapidly in the future.



Greg Huss, Paulo Products

Jul 10, 2020

Recently we mentioned how Greg Huss had joined Paulo the second largest commercial heat treater in North America <https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/> We now have the official press release from Paulo. *"We are proud to announce that our Nashville division is now under the leadership of plant manager Greg Huss. Greg joined the Paulo team in late spring 2020, bringing over 22 years of experience in the heat treating industry. Greg took courses in both materials engineering and business management during his college years. He then started his career as a furnace operator and lab inspector at a mid-sized heat treating company, quickly rising through the ranks as his skill and leadership qualities began to shine. Greg's most recent role was as General Manager of two heat treatment facilities in the greater Milwaukee area that specialize in vacuum hardening and annealing, atmosphere hardening and annealing, stress relieving, carburizing, and carbonitriding. Greg's expertise also includes experience with a variety of materials including aluminum, and processes such as austempering, ferritic nitrocarburizing (FNC), induction heat treating, and more. He is experienced in*

maintaining ISO, AS9001, and Nadcap certifications and is a YES program graduate through the Metal Treating Institute.

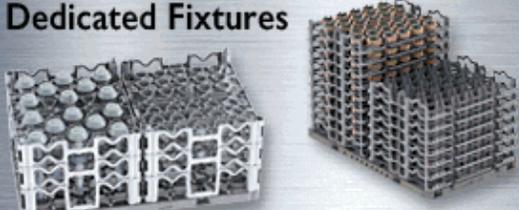
"I'm looking forward to taking on this new challenge at Paulo," Greg said. "I have a big passion for quality and as a leader, I enjoy inspiring other people to take pride in their work." At Paulo, Greg will be responsible for leading the Nashville division and will be accountable for maintaining the quality and efficiency of the entire operation. Gregory's experience on both the technical, financial, and people management sides of our business have him well positioned for success in our organization. "Greg's experience encompasses everything we look for at Paulo," said Tee Rassieur, Paulo's VP of Operations. "His history blends scientific expertise with people skills and deep knowledge of heat treating operations. That's exactly what we mean when we say 'datagineering at work.' We are looking forward to seeing Greg succeed in his new role."

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Energy Optimization Systems-An Idea Whose Time Has Not Yet Come in North America

Jul 9, 2020



High Electrical costs in Europe have prompted virtually every captive and commercial heat treater in Europe to install an energy optimization system on their electrically heated furnaces. All electrical bills are comprised of several components, chief among them being the actual amount of electricity used and also a charge for the peak demand usage in any given year. As this can be a very high charge the theory is that by “flattening out” electrical demand your electrical bill is reduced and the theory works in actual practice. When the system senses electrical usage is getting close to a peak it throttles back the ramp up rate on selected furnaces but does not touch the usage during a soak cycle. As the ramp up time is generally the shortest part of any furnace cycle there is a negligible increase in the overall cycle time.

European heat treaters embraced the technology over 40 years ago and continue to do so which proves that the system works and it actually works quite well-we speak from personal experience. However in spite of very determined efforts by at least two German suppliers a number of years back to bring the technology to North America it never got very far. This is in spite of the fact that almost 20 systems were installed at captive and commercial heat treaters in the USA and Canada and all worked fairly well. The obvious point is that electricity is a lot cheaper in North America than Europe but still with an average payback time of 2 years in NA you would think heat treaters in North America would have embraced the technology. Well they didn't and as far as we can tell at least for the time being there is virtually no interest in the technology. This photo below was taken at a SCHMOLZ+BICKENBACH facility in Windsor, Canada which at the time was one of the larger commercial vacuum heat treaters in North America (it closed some years ago). The company had a system on every one of their furnaces and swore up and down that it was the best thing since sliced bread.



In this photo we have on the left Rod Pressy of SCHMOLZ+BICKENBACH, Gunther Braus, Dibalog, Germany

An advertisement for ECM USA Inc. featuring a 3D cube with the text "JOIN THE HEAT TREAT EVOLUTION" and "Advanced Automation Vacuum Furnace Systems". The company logo and contact information are at the bottom.

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Jake Verdoux Named Production Manager at McLaughlin Furnace Group

Jul 9, 2020

“McLaughlin Furnace Group based in Avilla, Indiana, USA is pleased to announce that they recently appointed Jake Verdoux as Production Manager. Jake brings with him many years of experience working with other furnace builders in the US and this experience will help grow the McLaughlin Furnace Group which is seeing very substantial growth in 2020.”



Super Systems Inc. Employee Promotions

Jul 8, 2020

“Super Systems Inc. is pleased to announce the promotion of Jim Oakes from Vice President of Business Development to President. Jim has been with SSi for 15 years with various responsibilities, but has always been focused on positioning SSi as a leader of sensors, controls and software in the heat treating industry. Jim has served the industry not only at SSi but through volunteer work on the board of trustees and as board president for both the Metal Treating Institute (2019 to present) and ASM Heat Treating Society (2017 to 2019).

Super Systems Inc. is pleased to announce the appointment of Bob Fincken to Vice President of Sales for North America. Bob has been serving SSi in sales for 14 years with a relentless pursuit of delivering solutions to customers. His experience in the industry provides him with all the tools to lead SSi's effort to always provide customers with the best products and service in the industry. Steve Thompson, Super Systems President is moving to the position of Chief Executive Officer (CEO). Steve will continue to be a hands-on leader, providing guidance based on a clear vision of the future of heat treatment, along with experience gained since starting the company with his father Bill Thompson in 1995. Bill Thompson has officially retired and is committed to improving his golf and tennis game year round.

With these changes, you can expect the same level of service and commitment to customer support and technology innovation – the fundamental values that Bill Thompson has instilled in SSi since its founding. Super Systems Inc., based in Cincinnati, Ohio, has been developing and manufacturing products for the thermal processing industry since

1995. SSi's products include probes, analyzers, flow meters, controllers, software solutions and engineered systems. With over 100 years of combined experience, SSi continues to satisfy industry demands with innovative technology, enabling customers to be more efficient and to produce higher quality products. For more information on SSi's capabilities, visit www.supersystems.com."



Jim Oakes



Bob Fincken



Steve Thompson

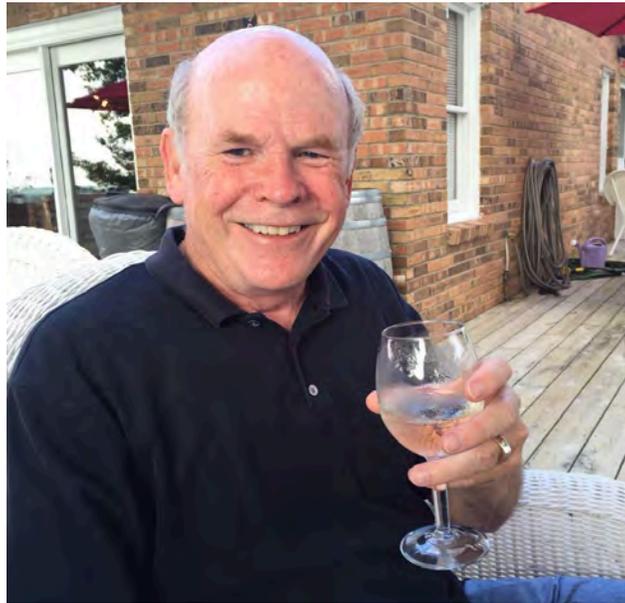


The Industry Is Losing an Experienced Man-Brian Babcock

Jul 8, 2020

Brian Babcock has spent the last 39 years in the commercial heat treating industry, working for two of the largest commercial heat treaters in North America. He started with FPM back in 1982 and after 21 years there he moved on to Bluewater Thermal where he worked for 17 years retiring with the title of Business Development Manager, Midwest. If you would like to know more about the relative sizes of FPM and Bluewater we would suggest

<https://themonty.com/project/largest-north-american-commercial-heat-treats-august-2020/>



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Damn! Furnaces North America To Go Virtual

Jul 7, 2020



To the surprise of no one and the disappointment of all Furnaces North America, FNA 2020 will go to a virtual format this year. FNA, the largest heat treatment show in North America in 2020 was to have been held in Louisville, Kentucky, USA September 30th to October 2nd but the actual live portion of the show has been cancelled. We are not entirely sure what a “virtual” show will look like but we have some details in the official press release which is further down. This means that every single major heat treat event around the world since February of this year has been forced to abandon the live portion of each event—a truly disappointing result. By the way for the past number of years there has generally been one major North American heat treatment event each year, alternating between FNA one year and the ASM Heat Treating Conference and Exposition and Gear Expo the next. The next ASM event is scheduled to be held September of 2021 so at this point in time it would appear that ASM will be the next large heat treating “get together” in North America—too bad we have to wait over a year for the heat treatment industry to get together again. We leave you with a couple of photos from the last FNA event which was held in Indianapolis, Indiana, USA back in 2018.



McLaughlin Furnace Group



Cleveland Electric Laboratories



Bernie Parry, Heat Treat Central. Unfortunately our good friend Bernie passed away earlier this year.



John Hubbard, Thermal Process Holdings, Ed Stenger, Kentucky Heat Treat, Dan McCurdy, Bodycote (retired)

“After much analysis, feedback from attendees, and the uncertainty of COVID-19, the MTI Board of Trustees have approved for the Furnaces North America Trade Show and Conference to transition to a virtual format as of today. MTI 2020 President, Jim Oakes from Super Systems stated, “With so much of our business moving to a digital arena, FNA 2020 will be a great opportunity for the heat treating industry to take a step into this digital space. Although we will miss the in person interaction, the FNA team is working hard with digital technology to create the same personalized interaction digitally. The great thing about digital, is FNA can bring the latest knowledge and trends to every heat treater’s computer screen at a very affordable value.”

FNA Show Producer Tom Morrison states, “The FNA Show Production team has been working diligently the last two months on our virtual strategy for both exhibitors and attendees. It is going to be an energetic and dynamic experience that encompass all the same features of a live event including technical sessions, networking, and exhibitors. Participants are going to love it because now every captive and commercial heat treater can engage his entire company or division to participate and learn right from their computer.”

Attendees will be able to experience the virtual exhibit hall for free. For those wanting to view the 3 LIVE panel discussions and 35 technical sessions, FNA is offering a special for attendees of \$199 for each of the first two registrants from a company and \$49 for every person after that. To qualify, everyone must register on the same online registration form.

Furnaces North America is the largest heat treat only trade show and conference in North America every other year. FNA is produced by the Metal Treating Institute in conjunction with their media partner Industrial Heating Magazine.

Full details will be on the FNA 2020 Virtual Show Site at www.FurnacesNorthAmeric.com starting July 13. If you have any questions, feel free to contact FNA 2020 at fna@heattreat.net.”

Wisconsin Oven Introduces IoT Technology for Performance Monitoring of Industrial Ovens

Jul 7, 2020



“East Troy, WI – June 30th, 2020 – Wisconsin Oven Corporation is pleased to announce a new IoT (Internet of things) predictive maintenance technology available on their industrial ovens. The new system will be supplied

by [DataSense Technologies™](#) and is capable of monitoring the performance and health of components on the ovens. Wisconsin Oven is dedicated to offering their customers the most advanced capabilities in the industry and believes that this IoT connectivity will be of great value to their customers. The DataSense Technologies™ [Performance Monitoring System](#) utilizes sensors to monitor the condition of components on a customer's industrial oven. The system features a gateway that collects performance data from sensors on critical oven components. There are a variety of conditions that the sensors track such as, vibration, temperature, current, and pressure.

By adding the [Performance Monitoring System](#) to an industrial oven, the data collected can be used to identify performance and component issues so maintenance can be scheduled before a failure occurs. Some thresholds are factory-set to protect the equipment and Customers can work with Wisconsin Oven to set thresholds to indicate alarm conditions specific to their needs. When those thresholds are exceeded, the Performance Monitoring System will send an immediate alert to the appropriate personnel. The service team will use this information to predict component failures before they happen which minimizes unscheduled downtime and increases both productivity and profitability.

Wisconsin Oven is committed to providing quality products while meeting the technology requirements of today's connected world. For more information on a DataSense Technologies™ Performance Monitoring System for your industrial oven [click here](#) to view a detailed video. Call us today or visit our website www.wisoven.com to request a quote on adding a system to your next industrial oven or retrofit your current equipment.”



Peters Heat Treat And Other Heat Treat Investments

Jul 6, 2020



Quite recently *Peters Heat Treat* in Meadville, PA, USA had a celebration in honor of their new Meadville facility as you can see in this posting; *“This morning we FINALLY got to have a little celebration and cut the ribbon at our new Meadville home.*

Thank you to all of the PHT Team for your hard work in making this dream a reality and thank you to the Meadville-Western Crawford County Chamber of Commerce for helping us to take a second to recognize such a monumental step.” Peters is a family owned commercial heat treater founded by *Doug Peters* and it has grown into quite a substantial facility over the years. We have a photo from the recent celebration and another one which *“The Monty”* took just a year ago.





In spite of the COVID 19 crisis heat treating investments have not come to a complete halt-as a matter of fact we can think of several recent or on going expansions. *S & P Products* in CA., will shortly be installing a large carbobottom furnace to compliment their in house heat treating department. An auto parts maker in MO, USA which had never done heat treating in house before recently invested in a multi million dollar state of the art facility. And in Indiana, USA a powdered metal company is in the process of adding several batch IQ furnace. So you see there are still many signs of life in the industry.



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IHEA Executive Economic Report & Analysis-May 2020

Jul 6, 2020

Industrial Heating Equipment Association (of which “The Monty” is a member) offers on a regular basis economic reports about the industry. The May 2020 report is complete, detailed and well presented but rather depressing as you can see. We have abbreviated the report to some extent and eliminated the graphs, however if you can picture a series of graphs that go straight down you get the picture.



“May 2020. If you are faint of heart this might be a good time to stop reading the report. As one would expect there is not a lot of good news coming from this collection of indices. The lockdown recession has been with us for over three months now and there are few that have not experienced the impact. Having said that, it is important to offer a point of clarification regarding the data presented here. By most accounts this will be the bottom and future reports will start to show slow improvement. The lockdown has been eased to a considerable degree and there have been consistent assertions that

economic growth will rebound by the third and fourth quarter. It is true that some of this may be wishful thinking but there are some indications that such a forecast may be realistic.

As you review the charts below there will be a very common theme – they all show declines that are nearly a straight line down. There is one notable exception to this rule. The data for the Credit Managers’ Index shows that same drastic decline but with a nice little upwards trend at the end. Given that this is only bright spot in the report this month, some detail is in order. The CMI is an index that is structured similarly to the Purchasing Managers’ Index with the same diffusion index which indicates that any reading over 50 indicates growth and any number under 50 suggests contraction. The index is divided into favorable and unfavorable categories from the perspective of a credit manager. The favorables include categories such as “sales,” “applications for credit,” “dollar collections” and “amount of credit extended.” The unfavorables include “rejections of credit applications,” “accounts out for collection,” “disputes,” “slow pays” and “bankruptcies.”

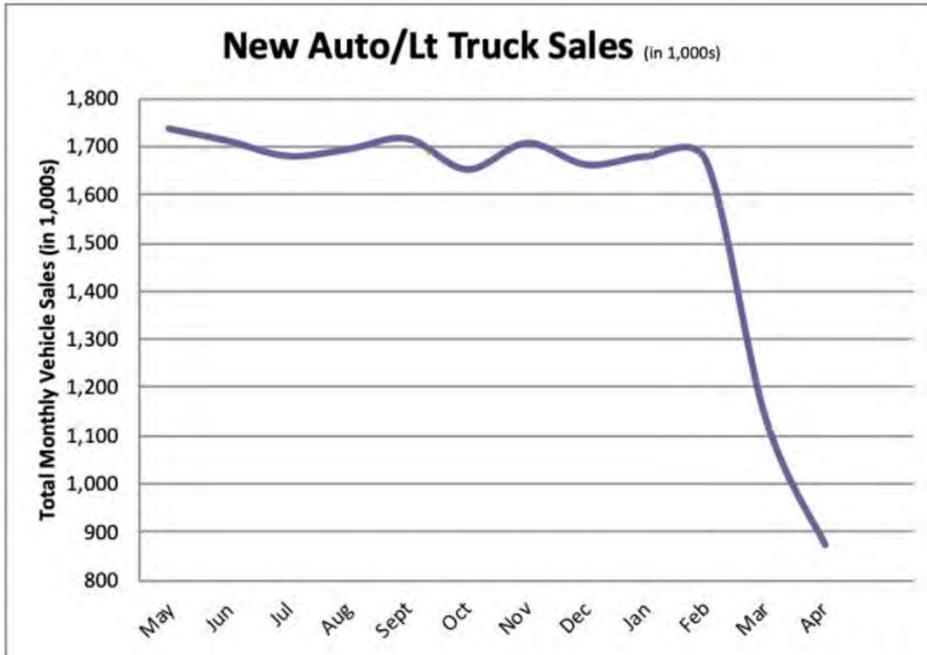
The severe decline that was noted in March and April was due almost entirely to the collapse in the favorable data. The sales numbers had been in the 60s and they fell to the 20s and low 30s. So did the numbers for applications,

dollar collections and amount of credit extended. This month these numbers recovered substantially. They did not get back to the 60s or even the 50s but they made it back to the 40s and that counts as promising. Credit managers tend to think in the future as they are most concerned with what shape a debtor will be in when they are due to pay. If a company has 90 or 120 or 180 days to pay the credit manager is not going to worry about them until that time. The fact that they are getting a bit more confident now indicates that they are starting to see some positive developments down the road and not all that far away.

The other index items are all telling a pretty miserable story with record setting declines. There is no mystery at all as to why this is the case as the lockdown was universal and sudden. There was no time at all for business or the consumer to prepare and there have been very few options available since the declaration. The expectation now is that the economy has likely reached the bottom and will show some improvement in the months to come. There was already some good news coming from the Labor Department as they released the latest job numbers. It has been expected that unemployment would hit 20% but in the report the number was somewhat less than feared – 13.4%. Given that unemployment stood at 3.5% in February it is good that over 3.5 million jobs were gained. Where the economy goes from here will depend on three factors. The first and most important will be the attitude of the consumer. If there is to be a real rebound the consumer will have to want to resume their old behaviors and soon. It is already evident that purchases of goods have improved but 65% of consumer spending of discretionary income is devoted to services and these have been slower to recover (restaurants, bars, entertainment venues). The second factor will be the reaction of the government and that has varied from state to state. Some have been eager to reopen and others have put off this resumption until into 2021. This set of decisions is dependent on the third factor and that is the course of the viral infection.”

“New Automobile & Light Truck Sales The automotive sector has been one of the hardest hit over the course of the lockdown recession and for a variety of reasons. Not that other sectors have escaped the damage but this category has been especially vulnerable. To begin with there was the fact that union concerns over the health of the workers mandated an early order to shut down operations. Many of the companies that supplied parts to the assembly operations were likewise closed and imported parts from Asia and elsewhere have been significantly delayed and in many cases these suppliers also closed or were cut off. Right now, there are over 500,000 merchant sailors stranded on their ships and in ports as they are unable to leave due to pandemic

restrictions. This has all but shut down the global supply chain. As if all this were not enough there has been a collapse in consumer demand as the lockdown has meant a drastic increase in job loss. If there is any encouraging sign for the future it would be that consumers will likely be relying on their vehicles for travel and entertainment to a greater degree in the future but that is not doing the industry much good at the moment.”



May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1,739	1,713	1,682	1,696	1,718	1,654	1,709	1,664	1,681	1,673	1,137	873

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Happy Fourth Of July!

Jul 3, 2020

Due to the Fourth of July celebrations we will be closed today but will be resuming regular news updates on Monday July Seventh.



“The Monty” Heat Treat Newsletter July 2020

Jul 2, 2020

The link below will take you to the July 2020 issue of *“The Monty”*, the world’s largest source for heat treatment news. This issue is sponsored by *“Williams Industrial Services”*, *“Phoenix TM”*, *“Grammer Vacuum Technologies”* and *“Graphite Materials”*. As always we look forward to your thoughts and comments. Best regards, Gord, Jordan and Dale Montgomery.
<https://themonty.com/wp-content/uploads/2020/07/themontyjuly2020.pdf>



Textron Aviation Explosion

Jul 2, 2020

Back in late December 2019 Textron Aviation in Wichita, Kansas, US suffered a mammoth explosion. It came to our attention at the time as there was a great deal of speculation that it was a heat treat furnace which exploded. As it turned out it was an autoclave with liquid nitrogen which bears a very close resemblance to a vacuum furnace. OSHA has now issued a report on the accident and what caused it;

“WICHITA, Kan. (KWCH) The U.S. Department of Labor’s Occupational Safety and Health Administration (OSHA) has cited Textron Aviation for a December 2019 explosion that left 15 employees hurt. According to the citation and notification of penalty from the U.S. Department of Labor, Textron had a serious violation when it failed to protect employees from “autoclave explosion hazards” at the plant located at 130 N. Webb.

The DOL said the liquid nitrogen in a pressurized vessel, referred to as Autoclave 8, built up and the head suffered a “catastrophic thermal fatigue failure.” The result was an explosion that critically injured 15 employees and exposed them to the harms of amputation, broken bones, concussions, crushing, laceration and struck-by hazards, according to the labor department. The proposed penalty for the violation is \$13,494. The aviation manufacturer must also develop and implement measures to “effectively control, discover, maintain and repair pressure vessels, including autoclaves.”



Busch Vacuum Solutions-Case Study

Jul 2, 2020

Busch Vacuum Solutions one of the best known names in the vacuum pump industry offers us this interesting case study in which they speak about “Dry Vacuum Technology in Heat Treatment Processes”.

“Vacuum technology is an indispensable part of metal heat treatment. The company Vakuum-Härtereie Petter GmbH (VHP) in Quickborn, Germany conducted an evaluation in which an oil lubricated rotary vane vacuum pump was replaced by a Busch COBRA NX screw vacuum pump. The vacuum pump was installed as the forepump of a 3-stage system to supply a heat treatment oven, and the objective of the evaluation was to find an efficient alternative to the vacuum generators previously used. After a year of testing VHP is completely convinced by dry screw vacuum technology, and in future will invest only in ovens equipped with COBRA NX screw vacuum pumps.

VHP operates a contract hardening facility at Quickborn, in the north of Germany. The company specialises in high-quality heat treatment under vacuum, and has a total of nine vacuum ovens. The materials handled are mainly high-alloy steels, but non-ferrous metals are also heat treated. The core activities of VHP are hardening, annealing, brazing, soldering and tempering. VHP’s customers include companies throughout Germany in the food, medical, forming and transmission technology sectors. The company currently employs 20 staff. Custom heat treatment for individual customers is offered, and a variety of processes and parameters are available to generate the desired surface properties with reproducible and documented results.

The fundamental role of vacuum in heat treatment processes is to prevent unwanted reactions between the material components and ambient oxygen, as these may have an adverse effect on the surface properties of the metal. The pressure reduction also allows the process to be controlled more precisely. The pressure, temperature and duration of the process can be set to suit specific materials, and controlled according to material characteristics such as the vapour pressure curve. Quenching of the metal after heating is usually carried out with nitrogen, but in some cases argon is used.

VHP has worked with vacuum technology for more than 30 years, the extensive experience gained in this sector allows the company to concentrate on complex heat treatment processes. Managing director Frank Wallberg's view: "The more challenging customer requirements become, the happier we are".

VHP has traditionally used oil lubricated rotary vane vacuum pumps to supply all the ovens. These vacuum pumps act as the forepumps of three-stage systems incorporating booster and oil diffusion vacuum pumps. This vacuum pump arrangement can achieve ultimate pressures of up to 1×10^{-5} mbar in the oven process chamber. If required by the process, the pressure can be increased by introducing controlled amounts of nitrogen.

The oil lubricated rotary vane vacuum pumps originally installed proved to be maintenance-intensive: oil changes and replacement of all filters were required every six months, causing increased costs for servicing, oil, filters, and the disposal of used elements.

A few years ago one of these rotary vane vacuum pumps was replaced by a COBRA NX screw vacuum pump. This dry-compressing vacuum pump is a development by Busch, and has been designed specifically for heat treatment applications. No operating fluids are present in the compression chamber, making contact between the pumped medium and oil or other operating fluids impossible. This is achieved by two screw profiles which contra-rotate in the compression chamber without making contact with each other or the housing. This simple construction makes the COBRA NX a robust and economical forepump for the vacuum supply system.

The COBRA NX is in operation in a three-shift system, and as pointed out by VHP directors Frank Wallberg and Bernd Raabe, no servicing work was carried out so far. They also observed other advantages: the power consumption remained the same as the old vacuum pump, but the substantially increased pumping speed allowed heat treatment processes to be carried out more rapidly. The low noise levels generated by the COBRA NX test unit were also a pleasant surprise. Both VHP directors agreed that the COBRA NX is the ideal forepump for their future requirements, and when ordering new ovens will insist on models equipped with COBRA NX screw vacuum pumps."



Fig. 1: COBRA NX screw vacuum pump as the forepump of a three-stage vacuum system. The booster vacuum pump is mounted directly to the COBRA NX by flange connection



Cross-section of a COBRA NX screw vacuum pump

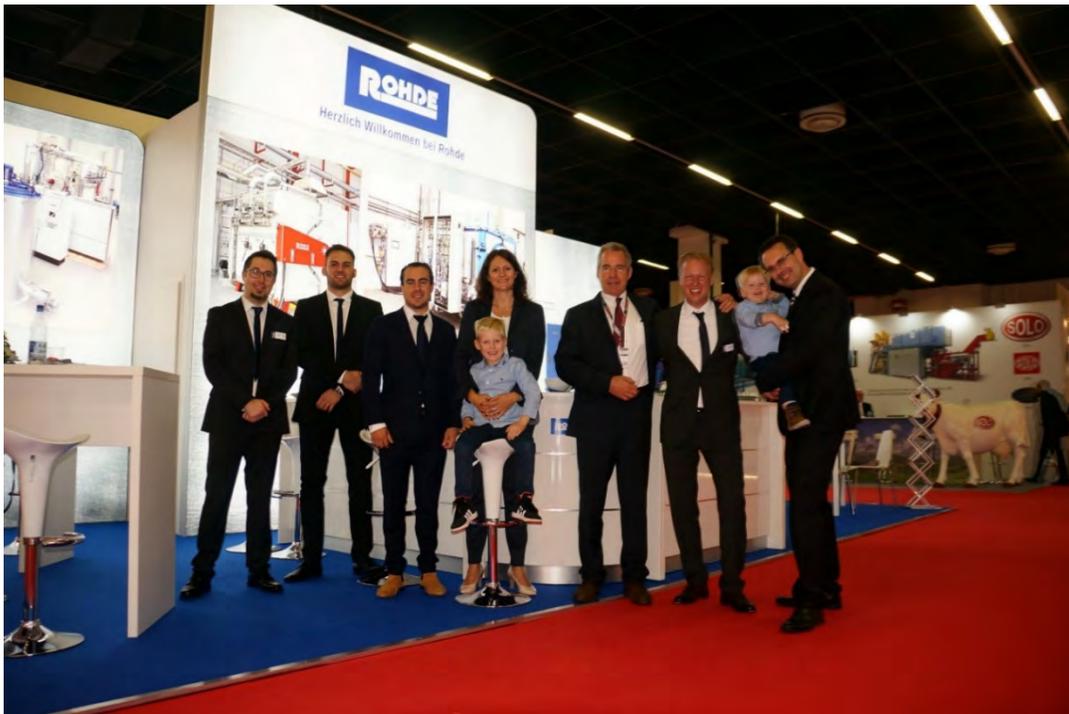
Jörn Rohde, President ROHDE Schutzgasöfen GmbH-The Interview

Jul 1, 2020

We are very pleased today to be able to offer you an interview with Mr. Jörn Rohde, President of furnace builder ROHDE Schutzgasöfen GmbH.

<https://themonty.com/project/mr-joern-rohde-rohde-schutzgasofen-gmbh/>

In this interview Jörn talks about his Salt Recovery Units, the largest pit carburizing furnace he has ever built (working dimensions of 16.5' diameter X 15' deep), business conditions in Europe and his dream of a manufacturing facility in the USA. www.jorn-rohde.com



Fredericks Company

Jul 1, 2020

We welcome our most recent advertiser “Fredericks Company” whose banner ad can be found at the top of this page. Among other products the company offers the TelevacR and ETI vacuum measurement brands. “Fredericks’ TelevacR and ETI vacuum measurement brands offer the most innovative and proven vacuum technology on the market including analog vacuum gauges, digital vacuum gauges, vacuum sensors, and vacuum controllers, which cover the entire pressure measurement range from atmosphere (1000 Torr) to ultra-high vacuum/UHV (10⁻¹¹ Torr). Televac also offers pressure measurement up to 10,000 Torr (13 bar). Used in industries ranging from heat treat and vacuum furnaces to national labs and research and development, our vacuum technology is designed to match your needs for your vacuum system.”



SECO Vacuum Technologies Installation

Jul 1, 2020

Press releases from furnace builder SECO/WARWICK and Seco Vacuum Technologies are a regular occurrence and generally interesting. We have seen and published a few recently and we noticed something just today which caught our eye. It looks like one customer, a performance automotive supplier in the US bought 3 of the furnaces mentioned in recent press releases. To be exact this includes a gas nitriding furnace, a Vector high pressure gas quench furnace, a CaseMaster Evolution vacuum oil quench furnace and all peripheral equipment. While the customers' name cannot be mentioned we can say that all of the equipment is installed and running and can be seen in these photos.





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