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2026 **BUYER'S GUIDE**

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2026 BUYER'S GUIDE

When it comes to heat treating, it's not just about what you do, but also who you know. Identifying quality sources for contract heat treating, equipment, services, and testing is a critical component of your overall business plan, but it can be a time-consuming task. That's why we've put together this Thermal Processing Buyer's Guide: to help you partner with the suppliers you need as well as to steer companies who require these services. We have compiled the most complete source listing available and have presented this information in a way that is accessible, convenient, and informative.

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'WE MAKE THINGS BETTER'

Advanced Heat Treat Corp. is a recognized leader in providing commercial heat-treat services and metallurgical solutions. **8**

Q&A ///

LILY HEINEMANN *Bodycote*

The chief sustainability officer says, "It's important for our customers to know that they can trust us to be a decarbonization partner for the long term." **56**

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COVER PHOTO: SHUTTERSTOCK

Thermal Processing is published monthly by Media Solutions, Inc., 266D Yeager Parkway Pelham, AL 35124. Phone (205) 380-1573 Fax (205) 380-1580 International subscription rates: \$105.00 per year. Postage Paid at Pelham AL and at additional mailing offices. Printed in the USA. POSTMASTER: Send address changes to *Thermal Processing* magazine, P.O. Box 1210 Pelham AL 35124. Return undeliverable Canadian addresses to P.O. Box 503 RPO West Beaver Creek Richmond Hill, ON L4B4R6. Copyright © 2006 by Media Solutions, Inc. All rights reserved.

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FROM THE EDITOR ///



The 2026 Buyer's Guide: Your go-to source

Thermal Processing has been working hard this year to bring you the latest information on heat treating, and as we develop plans for 2026, we're not expecting to slow down any time soon.

To help you make your business decisions for the coming year, we offer our 2026 Buyer's Guide. It's a comprehensive resource of company listings for the heat-treating industry. I encourage you to keep this special issue of *Thermal Processing* close at hand as your go-to guide for connecting with these quality companies offering equipment, services, testing, and other supplementary products to help with your continued success.

Over the years, we've made exceptional contacts in the heat-treating industry. We value these connections — whether it's for advertising opportunities or for contributed articles highlighting the latest technology, applications, products, and trends.

I hope you find this interesting and informative and see our Buyer's Guide for the useful resource we intend it to be in order to help you with your purchasing decisions.

And if your company isn't listed, email me at kenneth@thermalprocessing.com with your information and category, and we will make sure you get added.

And as you can see by the bottom of this page, this issue also includes our 2026 editorial calendar to help you further pinpoint future issues that can aid you in sharing your message with our readers.

As always, thanks for reading and letting us be a valuable source for you and the rest of the heat-treating industry.

KENNETH CARTER, EDITOR

editor@thermalprocessing.com

(800) 366-2185 x204

2026 EDITORIAL CALENDAR

JANUARY

Vacuum Heating,
Cryogenics

FEBRUARY

Insulating Materials,
Burners & Combustion

MARCH

Process Control,
Pyrometry

APRIL

Industrial Gases, Ceramics,
Ceramics Expo

MAY

Medical Applications,
Thermocouples

JUNE

WorldPM Issue,
Sintering, Additive
Manufacturing

JULY

Induction Heating, Quenching

AUGUST

Forging, Nitriding

SEPTEMBER

Furnaces North America
Preview

OCTOBER

Aerospace Applications,
Certifications, Furnaces North
America issue

NOVEMBER

Annual Buyer's Guide

DECEMBER

Gear Applications,
Inspection & Metrology

Thermal
processing

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PUBLISHED BY MEDIA SOLUTIONS, INC.

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A large, dark, cylindrical metal component is being heated in a furnace. The bottom of the cylinder is glowing with intense orange and yellow light, indicating high temperature. The top of the cylinder is dark and metallic. The background is dark and industrial.

COMPANY PROFILE ///

ADVANCED HEAT TREAT CORP.

***‘WE MAKE
THINGS BETTER’***

Advanced Heat Treat Corp.
added induction hardening
in 1993. (Courtesy:
Advanced Heat Treat Corp.)

With locations in Iowa, Michigan, and Alabama, Advanced Heat Treat Corp. is a recognized leader in providing commercial heat-treat services and metallurgical solutions.

By **KENNETH CARTER**, Thermal Processing editor

Countless products made with metal — especially those used in the automobile and aerospace sectors — are often nitrided. It's a process that's been around for decades, and it helps improve the metal's hardness, fatigue strength, and resistance to wear and corrosion.

For more than 40 years, Advanced Heat Treat Corp. has offered plasma nitriding, as well as other services essential to the heat-treat industry, in its four facilities across the U.S. The company has been so successful with these methods, that it recently expanded its Michigan location to accommodate the growing need.

"We offer a variety of different heat-treat services specializing in the ion/plasma and gas nitride at three of our four facilities," said Chad Clark, plant manager at Advanced Heat Treat's Michigan location. "Our fourth facility — which is located just a couple miles away from our corporate office in Waterloo, Iowa — specializes in carburizing, through hardening, cryogenic treatment induction hardening — the conventional heat-treat processes. We've recently added additional induction hardening capabilities to our Cullman, Alabama facility, too."

PLASMA NITRIDING

Advanced Heat Treat began with plasma nitriding in 1981, and then added induction hardening in 1993. Then came carburizing and carbonitriding in 2000, and, in 2006, the company added gas nitriding to its toolbox, according to Clark.

"The first gas nitriding process was here in Monroe, Michigan, where I'm located," he said. "We just continue to grow."

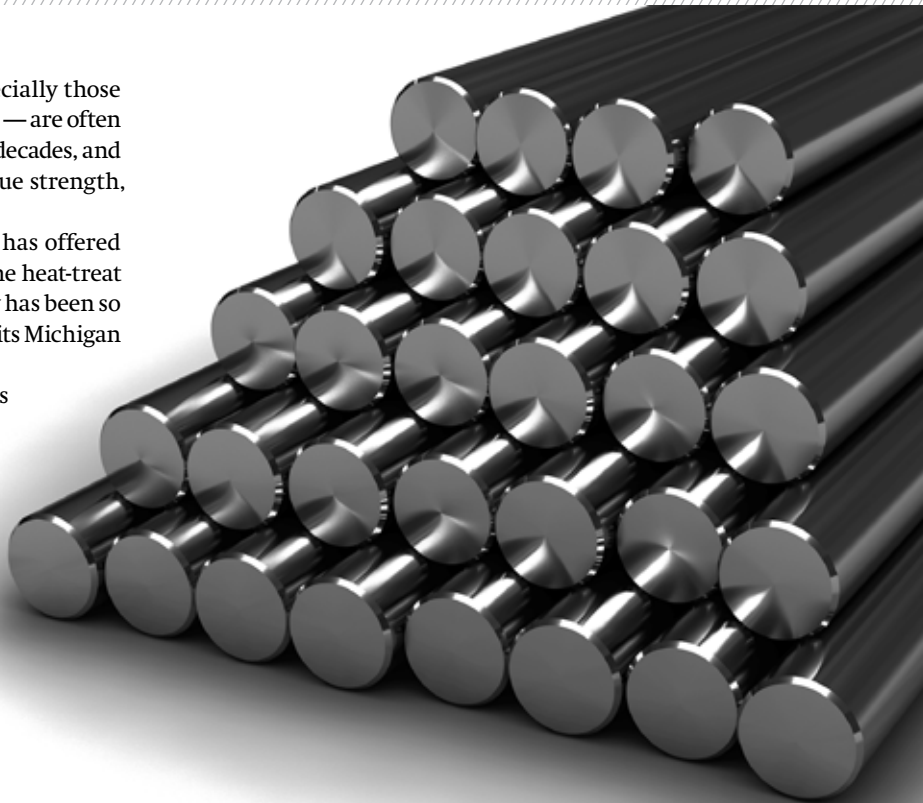
Maintaining four heat-treating facilities has its challenges, but Clark emphasized that Advanced Heat Treat's ultimate goal is to ensure customers get the best process and material for their applications.

"We like to get involved early on in the process," he said. "We utilize our multiple metallurgists and materials engineers at each location to get on the ground floor in order to make the right choice. We're here to make things better. It still needs to be designed, but we have opportunities where we can help make it a better product — whether that's with the material selection or the correct heat-treat selection. We're dedicated to our customers. I know that probably sounds cliché, but we really are. We are very passionate about it. Passion is one of our core values, and it's something we look for, not in just our employees, but our customers and our supply base."

MICHIGAN EXPANSION

Advanced Heat Treat's recent Michigan expansion is a concrete reflection of the company's dedication to its customers, according to Clark.

"Our mission statement is 'Exceeding Expectations with Ultra-



UltraOx® is Advanced Heat Treat Corp.'s trademarked heat-treat process that provides three protective layers to protect parts from wear and corrosion. (Courtesy: Advanced Heat Treat Corp.)

Glowing Results,' so with the 6,000 square feet that we just added here, it's going to allow us to add additional equipment — whether it's gas or ion or expanding into new services," he said. "Similar to a recent partnership at our Alabama location, where we had a specific customer looking for induction hardening, we invested with our customer to add additional equipment and we're willing to do that here at our Monroe, Michigan facility as well. It's really just about exceeding our customer expectations in any way we can."

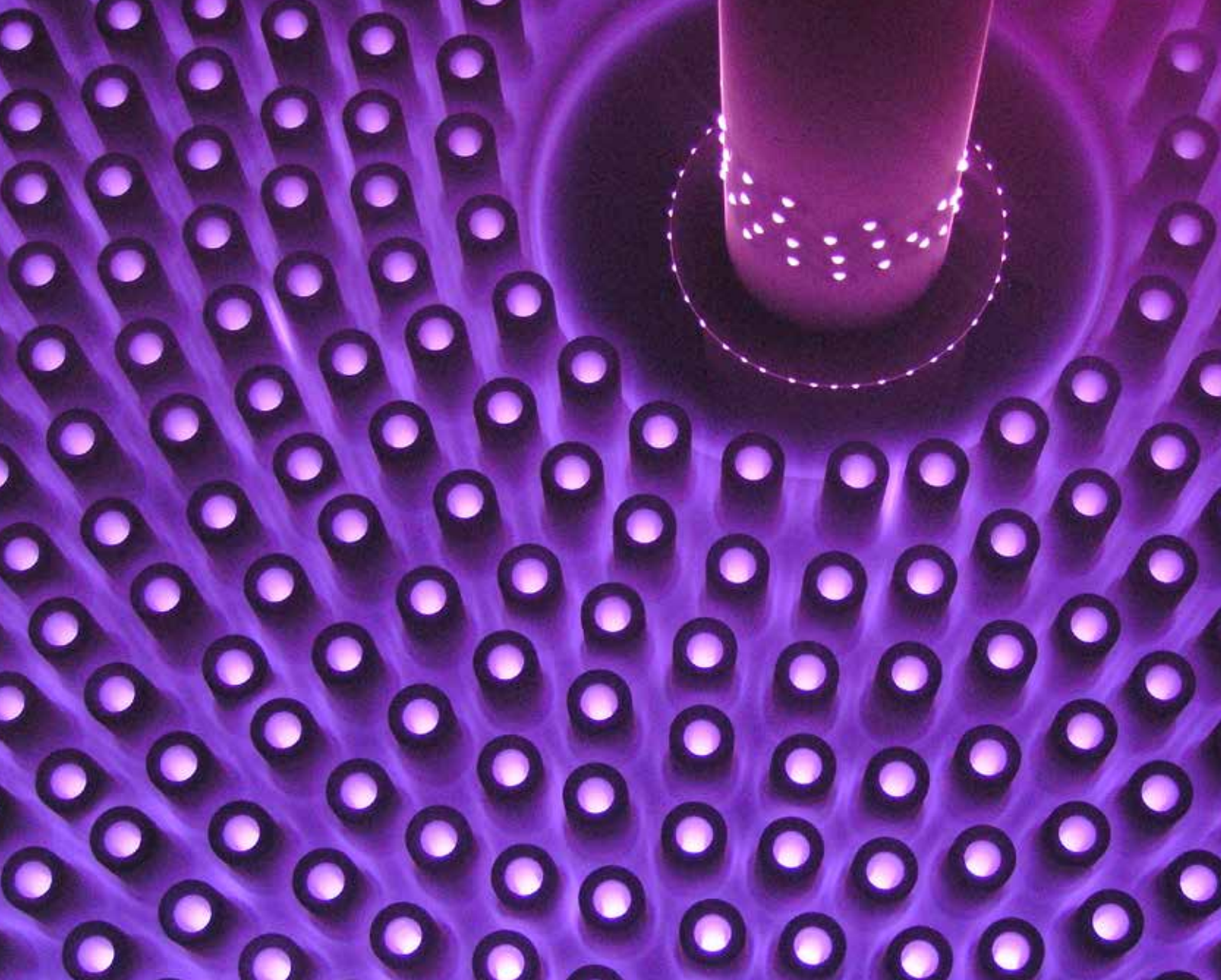
The plant expansion received its certificate of occupancy in July, and Clark said the new space is filling up and operating.

"It's a very exciting, welcome addition," he said. "It's going to allow us a cleaner, safer work environment for our employees, too, and it will allow us to expand and grow for our customers."

TAKING ON CHALLENGES

Even before the Michigan expansion, Advanced Heat Treat had a team of experienced personnel ready to tackle any challenge a customer may have, according to Clark.

"We've been fortunate to have many long-tenured employees," he said. "More than 20 percent of our workforce has over 15 years with



For more than 40 years, Advanced Heat Treat Corp. has offered plasma nitriding, as well as other services essential to the heat-treat industry. (Courtesy: Advanced Heat Treat Corp.)

////////////////////
“Anything the newer generation can do from a phone or a tablet is beneficial, so we need to continue to grow with that. It’s going to help us with hiring and bringing on new people.”

the company, and another 35 percent has over 10 years — that depth of experience gives us a tremendous foundation of history and knowledge. Between the tenure of our employees plus having multiple metallurgists and materials engineers across our facilities, we can dive deep and understand what’s needed. We can look at a project and say, ‘Your concept is solid, but perhaps there’s a better material choice.’ We thrive on those challenges. We take great pride in problem-solving

and helping our customers achieve the best product possible. Like I said, we make things better. That’s our goal — to get the best product out there.”

Retaining an experienced staff can be crucial to the success of a business, but it’s not often a fact that ends up front and center when working with a potential customer, according to Clark.

“People come here, and they make it a career; we invest in our employees, and they invest their time and passion in AHT,” he said. “I think that’s one of our proudest achievements: retain your employees and watch them grow and advance within the company. I think that speaks for itself, and that’s something to be proud of.”

WORKING WITH THE CUSTOMER

As an example as to how Advanced Heat Treat has helped its customers, Clark brought up a company that needed stainless steel components nitrided. The order was to run them 20 to 30 at a time. But as time passed, the company wanted to increase the batch order as well as introduce various sizes.

“With the different things that go on with the plasma nitride process, you have to dial that back and get it narrowed down,” he said.



Advanced Heat Treat Corp. recently expanded its Michigan location to accommodate the company's growing needs. (Courtesy: Advanced Heat Treat Corp.)

"We successfully worked out the process, and we built some tooling and fixturing to make it work. We've been doing the same product for this customer for 27 years, and they keep expanding and adding different sizes and growing their business as well."

NADCAP CERTIFICATION

With aerospace needs growing across the globe constantly, Clark pointed out that Advanced Heat Treat's corporate facility in Iowa just renewed its Nadcap certification.

"They just received a 24-month merit status, which means they do not require auditing for 24 months because of the quality systems that are in place — the longest merit you can achieve," he said. "And, more importantly, the employees are following it. You can put all the systems in place, but you've got to have dedicated passionate people to help you succeed."

As more heat-treating businesses look to decarbonize their processes in the future, Clark is quick to point out that the methods used by Advanced Heat Treat are already ahead of the game.

"Plasma nitride is a vacuum process, so there are no emissions," he said. "It's under vacuum, so it's controlled, and it's considered a 'green process.' That's very fortunate in those regards, especially with a lot of EPA changes that continue to come about."

LOOKING TO THE FUTURE

With its team of experts, Advanced Heat

Treat expects a bright future ahead, despite — or maybe because of — developments on the industrial horizon, according to Clark.

"AI, obviously, is big; that's going to continue to evolve, and we're going to see where that takes us and what we need there," he said. "Automation and robotics are going to grow. Anything the newer generation can do from a phone or a tablet is beneficial, so we need to continue to grow with that. It's going to help us with hiring and bringing on new people. The tariffs are playing a factor. I see a lot of hoping that manufacturing is going to come back to the U.S. due to these tariffs."

Of course, any developments will be met with the same zeal that has kept Advanced Heat Treat operating with not just expertise, but with enthusiasm to make the industry better.

"We're just proud of where we've come from as I watch us continue to grow," Clark said. "Seeing the new hires come in and the multiple generations that have worked at Advanced Heat Treat. It's fun to watch. It says a lot about the company and the culture we have. It's driven from the top down. Something happens — we're there for each other, and we want to continue to grow. I like looking at giving opportunities to our employees to advance themselves, both personally and professionally. And over 22 years, I've got to witness a lot of that with individuals. It's exciting." 🌟

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COMMUNITY STOREFRONT ///

In the following company listings, the special shaded boxes around some listings denote a company that participates in our ThermalProcessing.com community storefront. You can visit the community page on ThermalProcessing.com to find more information about these companies, including a brief profile, social media integration, and videos.

COMMERCIAL HEAT TREATERS ///

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American Heat Treating Alabama

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www.qualityht.com

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800-928-5692
www.watlow.com

Yokogawa Corporation of America

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www.yokogawa.com/US

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518-701-6722
www.ceramaterials.com

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www.cor-met.com

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www.graphiteinsulation.com

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www.inductoheat.com

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St. Marys, PA 15857
814-781-6355
www.abbottfurnace.com

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951-302-2212
www.aceindustrialmanufacturing.com

Across International LLC

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Livingston, NJ 07039
888-988-0899
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AFC-Holcroft

49630 Pontiac Trail
Wixom, MI 48393
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www.afc-holcroft.com

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Matthews, NC 28106
704-814-9221
www.airandenergyinc.com

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215-947-8500
www.ajaxelectric.com

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Troy, MI 48083
248-689-6363
www.alhern-martin.com

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724-283-1212
www.atspa.com

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800-272-0710
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978-667-4111
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Niagara Falls, NY 14302
905-356-1327
www.can-eng.com

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Newtown, PA 18940
866-473-8724
www.carbolite-gero.com

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845-354-2010
www.cassosolartechnologies.com

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603-595-7233
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www.cec-intl.com

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www.cryosystems.com

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www.epconlp.com

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www.furna.care.com

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860-875-3712
www.furnacebrokers.com

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www.gasbarre.com

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www.ges-agm.com

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www.taylor-winfield.com

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800-575-7077
www.heattek.com

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www.can-eng.com

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310-635-3555
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877-424-4536
www.agilent.com

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248-689-6363
www.alhern-martin.com

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800-375-7108
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414-331-2457
www.atmoseng.com

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330-220-2779
www.avionmfg.com

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800-272-0710
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773-777-7100
www.awt-gpi.com

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www.aximmica.com

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412-653-3500
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Minnetonka, MN 55343
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www.conaxtechnologies.com

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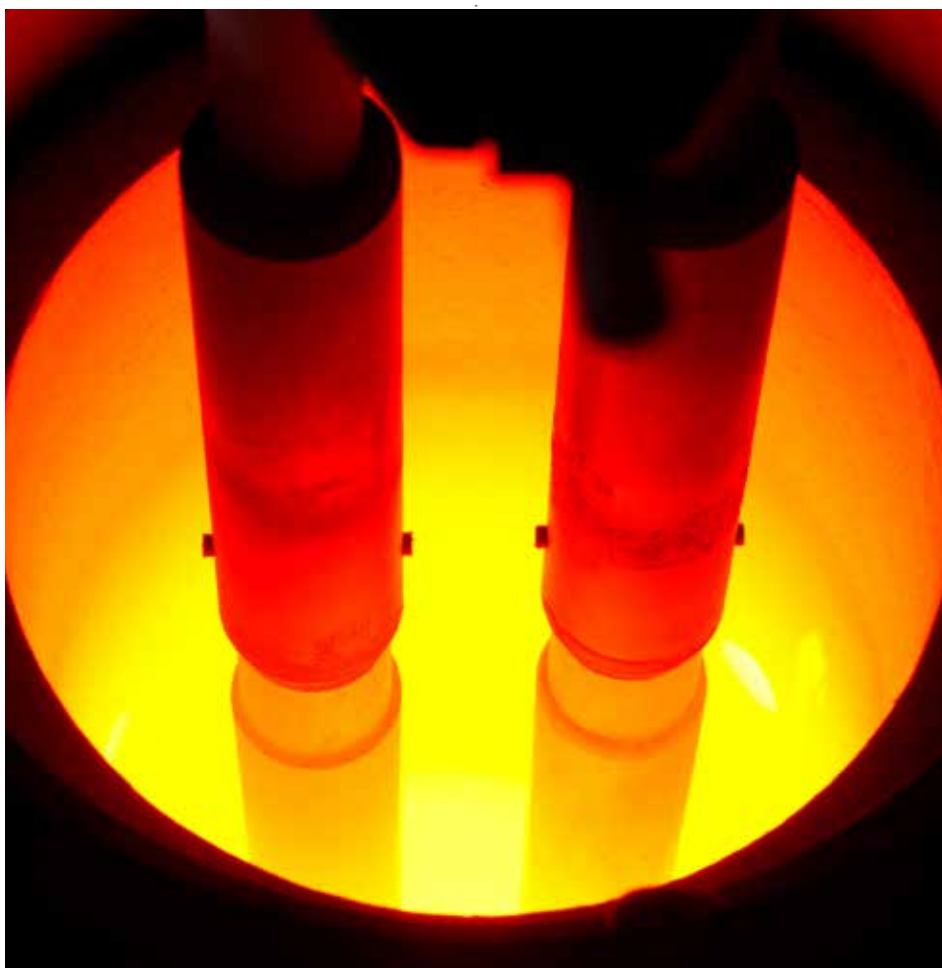
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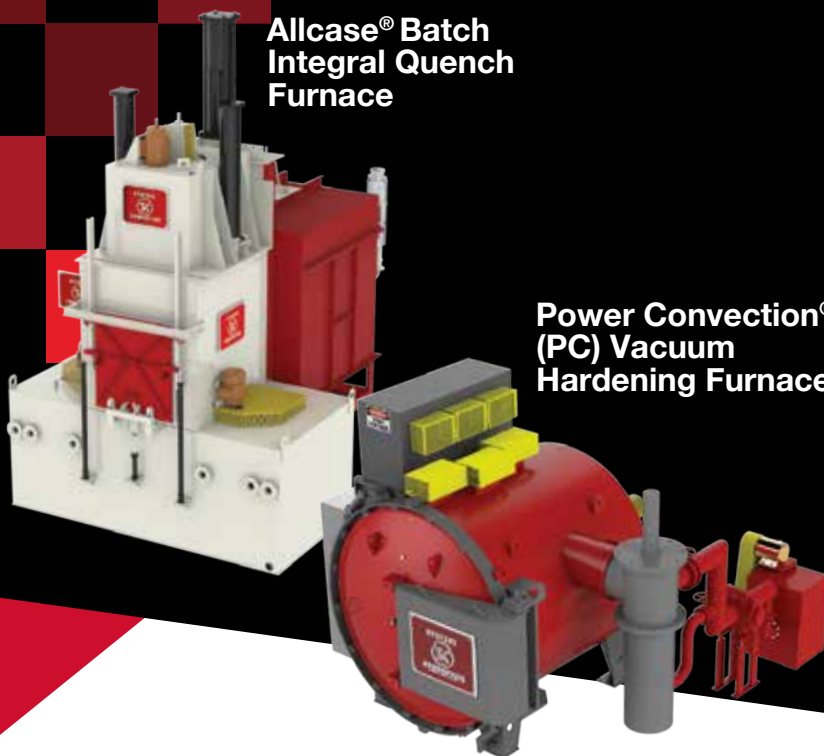
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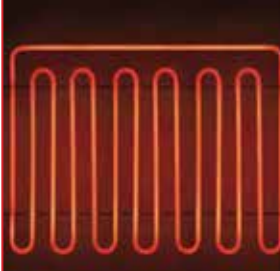
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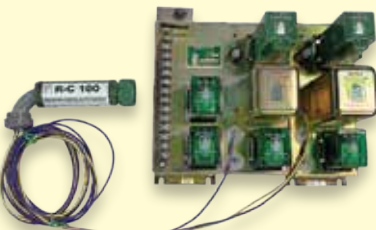
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Q&A /// INTERVIEW WITH AN INDUSTRY INSIDER



LILY HEINEMANN /// CHIEF SUSTAINABILITY OFFICER /// BODYCOTE

“Our larger customers with global supply chains are all subject to the same pressures from their stakeholders to decarbonize both their operations and their supply chains.”

Bodycote recently announced that two of its U.K. facilities are operating with zero carbon emissions. How was this made possible and why was it deemed necessary?

We're proud to announce that Derby and Rotherham are operating with zero emissions. They are part of a strategic pilot program, and they're the first two sites where we've achieved this milestone. The transition to zero emissions has been achieved through a combination of energy efficiency, electrification, and use of renewable energy. Both sites use 100 percent renewable electricity; the sites run without the use of fossil fuels; and, importantly, we've achieved the milestone without the use of carbon offsets.

That's a key part of our decarbonization strategy — that we follow a science-based approach, i.e. reducing the impact that we have and not offsetting the impact that we have.

What steps were taken to reach this milestone?

This has been part of a longer-term transformation effort, and we have a much broader program across the business of energy-efficiency improvements and capital investments where — supported by our technical services colleagues — we look to drive our program of energy efficiency and decarbonization. This has been achieved over the past several years where we have taken steps to significantly reduce the energy that we use at those sites, then to ensure that we're using electrified processes and equipment, and finally to use renewable electricity for the site's power needs.

To give you one example of an energy efficiency improvement, at our Derby site we recently introduced an adiabatic cooling system, which replaced the previous evaporative cooling towers used to cool the furnaces. This adiabatic system is a closed loop system, so it has lower maintenance requirements.

There's no need for chemical dosing. There's real maintenance savings, but also on the energy and water consumption side, there's some enormous savings.

It's over 70 percent lower in terms of its energy consumption vs. the previous system that we had at that site. It's important that we first and foremost, become as efficient as possible in our operations, and then take the step to renewable electricity. This has been something that's becoming increasingly important to our customers, particularly those who have challenging carbon reduction targets for themselves.

Outsourcing to Bodycote is one of the best ways that they can achieve their carbon reduction targets. By outsourcing heat treatment and because we have a science-based carbon reduction target, they can rely on the fact that, even over time, across our worldwide portfolio of sites, our emissions will come down in line with a 1.5-degree trajectory.

It's important for our customers to know that they can trust us to be a decarbonization partner for the long term.

What do these facilities specialize in?

They process several different products there, but particularly turbine blades for jet engines. It's a great example of how the services which we provide are critical to so many components that are used in our daily modern lives. Turbine blades are a good example — an airplane wouldn't be able to fly if they weren't heat treated. It's a critical product, and it's very important to our customer there.

Rolls-Royce is a key customer at both of those sites. They have ambitious carbon reduction targets and they want to be working — as many of our customers do — with suppliers who can really partner with them and take measurable, credible reductions in carbon emissions and support them in both greening their operations and decarbonizing their supply chains.

How are your customers reacting to this specific achievement in Bodycote's decarbonization efforts?

It's an area of growing importance. Around the world, our larger customers with global supply chains are all subject to the same pressures from their stakeholders to decarbonize both their operations and their supply chains.

By positioning ourselves as a trusted supply chain partner — helping clients reduce both their operational footprint and their supply chain emissions through outsourcing to us — we gain a real strategic advantage.

And it's seen as a real positive for our customers who have challenging carbon reduction targets and very ambitious sustainability agendas. As such, sustainability really is a core part of our corporate strategy and growth agenda.

Does Bodycote have plans to achieve similar decarbonization efforts in other facilities globally?

We're in the process of undertaking a broader evaluation of our roadmap toward net-zero transition, and these two facilities are part of a strategic pilot program. They are ideal testbeds where we prove that decarbonized or zero emissions heat treatment is possible. We are continuing in that vein, and we'll be able to announce our next zero emission heat-treatment sites in the near future.

This forms part of our global program where we're developing these sites that form blueprints for other sites to follow in their footsteps. ♻️

MORE INFO www.bodycote.com



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