MOULD DEWAXING AND CERAMIC CORE LEACHING AUTOCLAVES

For the investment casting industry



SAFE & CONSISTENT & RELIABLE & SUPPORTED

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Texmo have worked with LBBC for many years and their products and support always provide the reliable performance that we require in our world class foundries.



ARJUNAN RAMACHANDRAN Managing Director » Texmo Blank

Key challenges our customers face

Investment casting plays a key role in the manufacturing supply chain for precision components used in many sectors, principally the aerospace and gas turbine market. Mould dewaxing and ceramic core removal are key processes within an investment casting foundry. However, whilst successful for many of our customers, these critical processes present a number of challenges and there is an inherent risk associated with the high pressure process used in investment casting. Poor control over the process parameters and equipment breakdowns can have a catastrophic effect on the whole production cycle exacerbated by slow service response times. From a user point of view, autoclaves can be complex to maintain, leading to inefficiency, high operating costs, and poor yield and many provide limited process or cycle data.

MOULD DEWAXING



Removing wax from moulds is a crucial step in preparing them for metal casting. While seemingly straightforward, improper execution can lead to significant issues in manufacturing. Common problems include:

CERAMIC CORE REMOVAL



Cores are typically used for aerofoils and gas turbine blades with complex passageways. Core removal is a challenging operation that requires expert process knowledge. Common issues include:

LONG CYCLE

TIMES

KNOWLEDGE





INCOMPLETE/ UNPREDICTABLE **REMOVAL OF CORE**

LBBC Boilerclave® and Core Leaching Autoclave

Drawing from extensive collaboration with world leading investment foundries, we've tailored our products to meet their distinct needs. Our in-house design facility use top-tier components from Siemens, Allen Bradley PLC, and Festo valves to ensure reliability. Safety is paramount in our designs, demonstrated by our continued innovation in our safety systems. Our user-friendly products minimise operator involvement with pre-programmed features. We ensure consistent performance and offer comprehensive support that includes connected real-time maintenance diagnostics and a global service team.

MOULD DEWAXING BOILERCLAVE®

RAPID PRESSURISATION

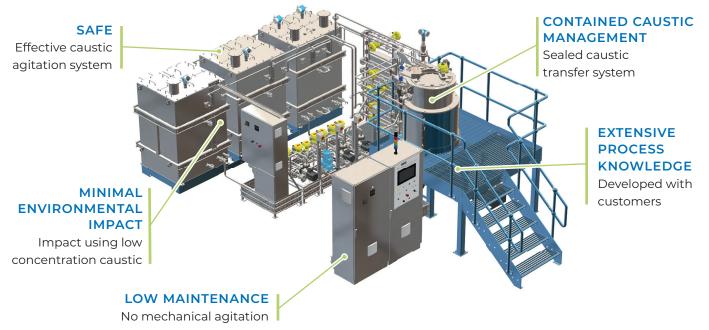
Fast pressurisation and consistent steam supply

SERVICE SUPPORT

Maintenance offering rapid fault diagnosis and resolution



CERAMIC CORE LEACHING AUTOCLAVE



SAFE & CONSISTENT & RELIABLE & SUPPORTED

Working with us

We understand that Investment Casting machinery is a significant investment, so our aim is to make the process of purchasing and operating them as smooth and risk free as possible. Our experienced team will work alongside you throughout the project ensuring your requirements are exceeded and your equipment is delivered on schedule, wherever you are in the world.





Manufactured in our Leeds factory in England by our skilled workforce using quality components



INSTALL AND COMMISSION

Comprehensive setup and testing to ensure smooth operation



TRAINING

Full training by expert technicians in operation, basic servicing and data management



WARRANTY

Standard 12-month policy covering parts and labour



OPTIONAL CONNECTED SUPPORT

Using Real-time data analysis our engineers can provide immediate expert support to quickly resolve any issues

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I really enjoy working here at LBBC Technologies. The policy of reinvesting in people, equipment, and innovation for the future along with the positive and supportive culture meant that for me it was an ideal career choice as an aspiring apprentice engineer.



ETHAN HRYNDYJ Apprentice Engineer » LBBC Technologies

Find out more

BOOK A FREE EXPLORATORY CALL

The first step to find out if we can help you with your requirements is to book an exploratory call.

This 30 minute call will be with one of our industry experts. The main objective is to understand your processes and the specification you want to achieve.

We will explain our unique approach and experience in the world of investment casting and Boilerclave[®] /Core Leaching Autoclave supply.

At the end of the call we will advise the best way to proceed.

Contact us on

+44 (0)113 256 2155

or

sales@lbbc.co.uk



About LBBC Technologies

We are a world leading manufacturer of autoclaves for mould dewaxing and ceramic core leaching for the investment casting industry.



LBBC is a 5th generation family-owned engineering company. Since 1876, the group has manufactured thousands of complex pressure vessel based assemblies for customers all over the world including BAE Systems, Rolls Royce and GE Aviation.

The LBBC Boilerclave® has become synonymous with mould dewaxing throughout the world. LBBC technology has enabled advances in the cooling design of the blade and supplies ceramic core leaching equipment to the worlds leading gas turbine manufacturers. In depth engineering knowledge and machine capabilities at the Leeds, England site are able to provide highly technical and reliable manufacturing services. LBBC can design and manufacture to CE, ASME, and China Manufacture License standards.

With an ongoing commitment to research and innovation, LBBC Technologies regularly collaborates with UK academic institutions resulting in continuous innovation.

HUNDREDS OF SERVICE VISITS CONDUCTED EVERY YEAR

1960 FIRST PRODUCT SOLD TO INVESTMENT CASTING

FOUNDED IN

MILLIONS OF INDIVIDUAL DEWAXING OPERATIONS PERFORMED **5th** GENERATION FAMILY RUN BUSINESS

HUNDREDS OF

SYSTEMS SUPPLIED

1000s

THOUSANDS OF AUTOCLAVES OF MANY SIZES AND PRESSURES SUPPLIED GLOBALLY



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