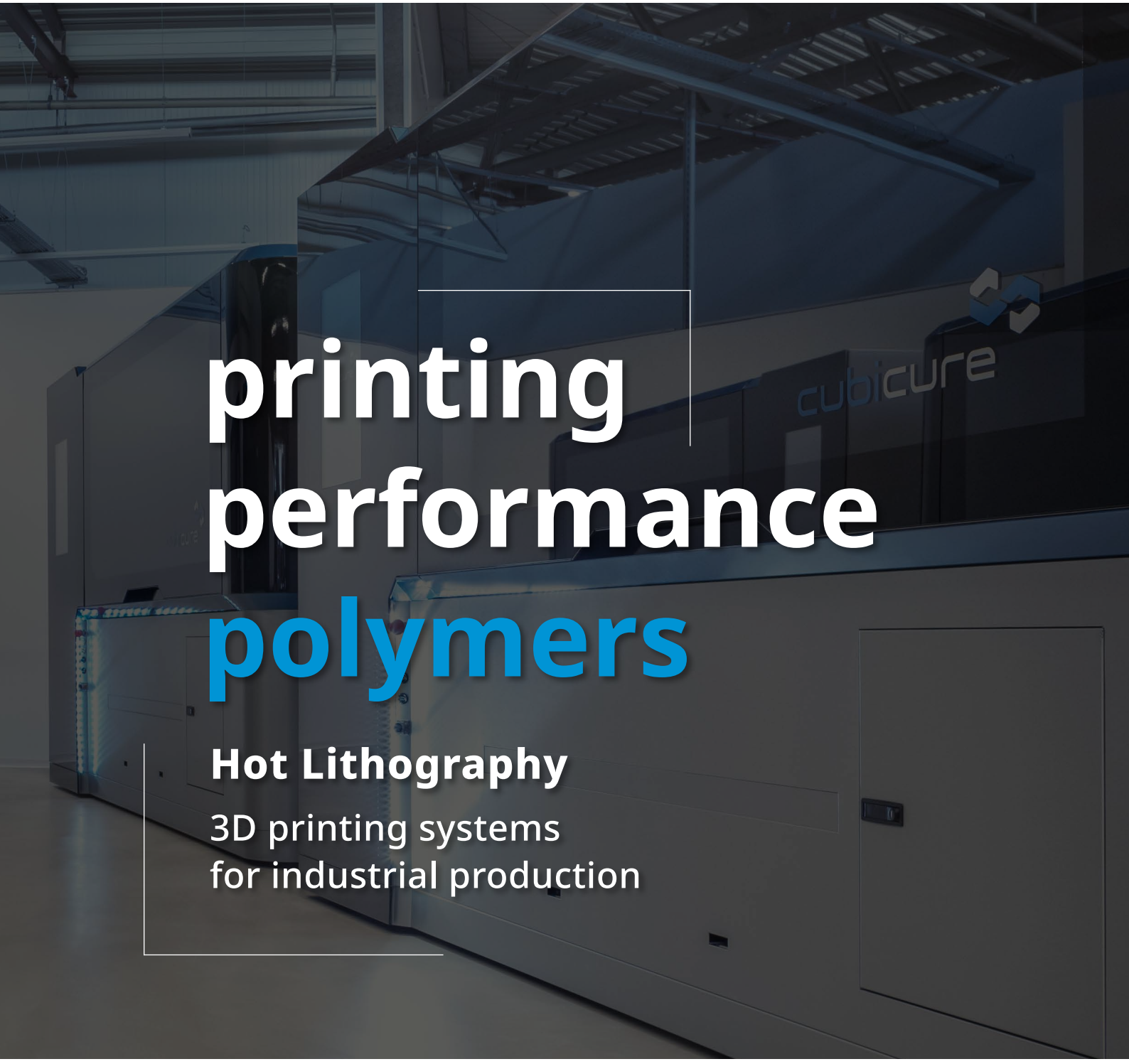
cubicure



printing performance polymers

Hot Lithography

3D printing systems
for industrial production

www.cubicure.com

Cubicure turns lofty visions into productive reality. Besides the technological challenge of developing precise additive technologies for industrial mass production, we mainly focus on materials. Technology, chemistry and analytics work in a tight symbiotic relationship with a clear vision: Creating the future of 3D printing in the heart of Europe together.

Stereolithography can influence the productive reality of polymers in a sustainable, positive way. Real-time production flexibility results in majorly increased efficiency as well as a substantial minimization of costs and risks. New design options unveil a previously unimaginable world of complex geometries. Our visionary Hot Lithography technology enables the processing of high-molecular resin systems. Consequently, printed polymers are so technologically advanced that they can compete with traditional materials.

Additive manufacturing systems create more than just shapes. They create the very material an object is made of, and thus determine the physics of printed polymer parts. Our team rises to the challenge of controlling every single detail of this process.

Caligma®

Cerion®

“3D-printing technologies combine a variety of production steps and open up tremendous manufacturing potential.

Producing in an additive and thus purely digital way requires knowledge in multiple disciplines: from designing objects and planning digital workflows to the actual additive manufacturing process and study of material properties. It is necessary to set up a clear logistical and technological process to stay in control.

To achieve this goal, you need access to the best AM technologies and materials available, but you also need the expertise of a reliable partner. The Cubicure team and our patented Hot Lithography technology is your best choice for 3D printed high-performance polymer parts.”

Dr. Robert Gmeiner | CEO, Cubicure GmbH

Hot Lithography

The process determines shape and material. This means that based on an improved process, more diverse geometries and photopolymers can be printed. Cubicure's patented Hot Lithography technology enables the production of particularly tough and temperature-resistant polymers. Using a special heating and coating mechanism, highly viscous light-activated resins are processed at temperatures of up to 120 °C.

Materials

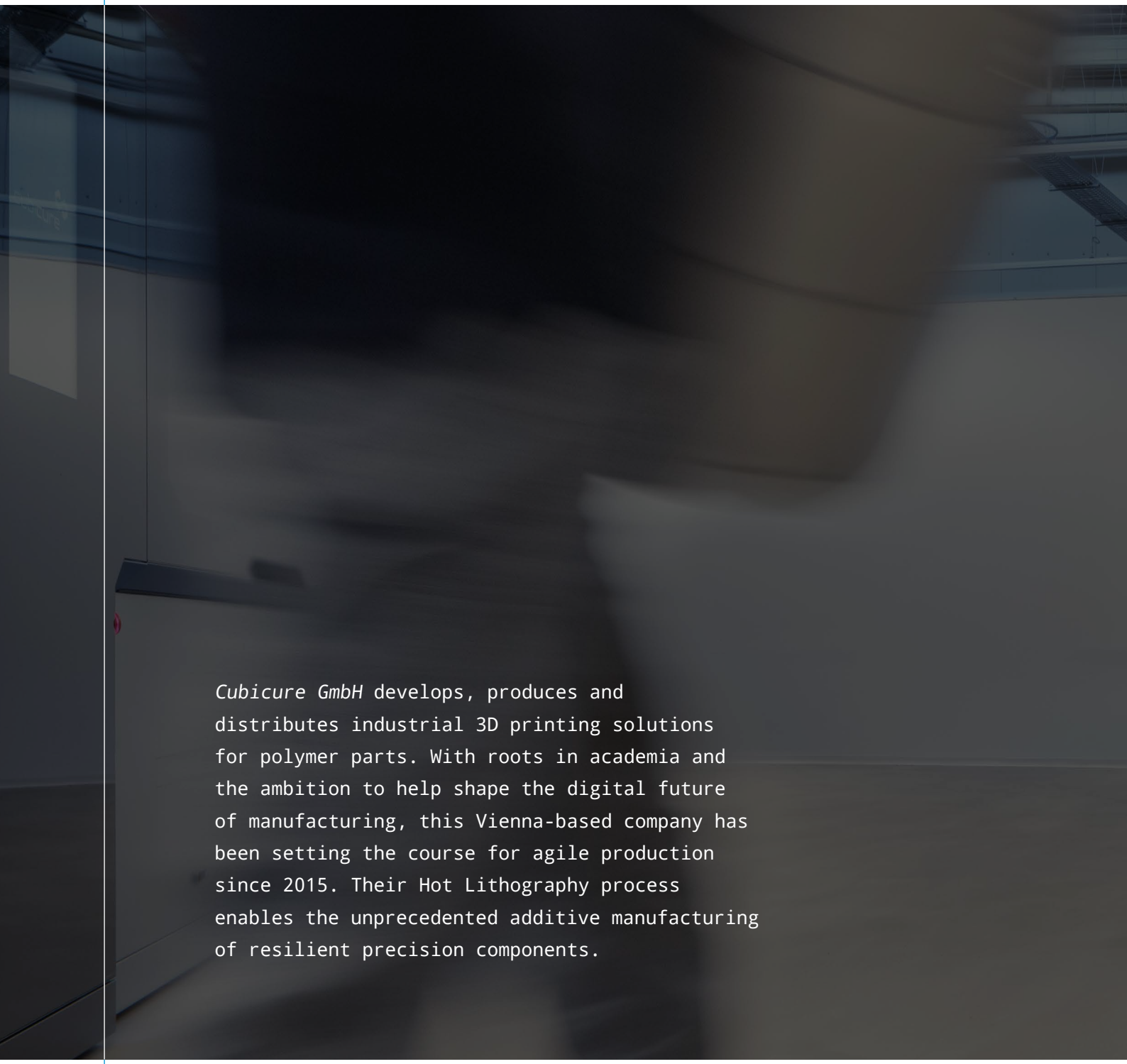
Molecular weight, chemical composition and functionality of processed materials can be fine-tuned thanks to Hot Lithography. This allows the production of materials with properties similar to those of thermoplastics. As a result, polymer parts printed with Cubicure technology are often indistinguishable from injection-molded parts.

Material testing

Only those who fully understand the material they are working with can generate progress in 3D printing. Therefore, Cubicure runs a fully equipped test and analytics lab to guarantee that all our materials endure not only in a lab environment, but also in everyday use. This builds trust: market leaders in chemistry, manufacturing and component testing count on our products and expertise.

CSS software

Apart from 3D printing processes and materials, the competitive edge of additive manufacturing relies first and foremost on making use of the digital realm. This is where digital production reaches its full potential. Cubicure's Support & Slice Software (CSS) creates a direct interface between the digital and the physical realm. It supplies the complete workflow, right down to logistics. Precise attunement to Cubicure materials ensures highest printing accuracy for all your parts.



Cubicure GmbH develops, produces and distributes industrial 3D printing solutions for polymer parts. With roots in academia and the ambition to help shape the digital future of manufacturing, this Vienna-based company has been setting the course for agile production since 2015. Their Hot Lithography process enables the unprecedented additive manufacturing of resilient precision components.

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