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ADVANCED MATERIALS

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ONEJOON

Streamlining Advanced Materials Production with Turnkey Industrial Furnace Solutions

or the past 125 years, ONEJOON has maintained its leadership position as the manufacturer of purpose build, turnkey high-temperature industrial kilns, and furnaces. The company ensures accurate temperature and atmosphere control in its furnaces, enabling clients to seamlessly industrialize special materials, novel materials, and highperformance components. Currently, ONEJOON represents itself in five countries, including Germany, Poland, Korea, China, and the U.S. This global footprint allows the company to tailor its solutions specifically for each market.

Unlike its competitors, ONEJOON offers a plethora of kilns and furnaces to address clients' diverse needs. For example, the company's Pusher Slab Kiln is a perfect solution for processes that have stringent requirements for high production capacity and temperature homogeneity. It is also highly energyefficient and ensures a significant reduction in operating costs. ONEJOON Rotary Kiln, on the other hand, is a perfect solution to heat-treat mass throughputs of powder materials. In addition, the kiln's advanced design makes it a perfect solution for the processing of different raw materials in any atmosphere. "Our solutions have been designed to handle high and

ultra-high temperature applications," mentions Jan-Phillip Schmiing, CEO, ONEJOON Inc.

ONEJOON's clientele includes large and mediumsized OEMs of various industries as well as start-ups. "All these clients come with their unique challenges.



While large organizations have their well-defined processes, start-ups need end-to-end support to reduce the time to market," says Simon Schurr, Vice President, Business Unit Advanced Materials and Processes at ONEJOON GmbH. To serve these clients better. ONEJOON has built two test centers in Germany and Korea. For instance, in the German test center, the company has designed their step-by-step development process called Lab to Production, or L2P—to specifically help start-ups. More importantly, the well-rounded team of young, dynamic engineers and more experienced senior engineers at the test centers hold extensive knowledge in various technical fields and become the right partner for clients to help them improve advanced thermal processes and product development.

To put things into perspective, ONEJOON is actively supporting its clients in the thin film ceramics

market to develop the right turnkey mass production lines to allow them to achieve their rapid expansion plans while meeting investment and operational expense targets.

As this market is dominated by start-ups and newcomers, there is no optimized production equipment available. Therefore, ONEJOON's process development engineers performed an in-depth analysis and measurement study of their client's existing processes and guided them in developing suitable specifications and process parameters. Afterward, as a proof of concept, multiple test runs were performed in their test center. Finally, ONEJOON put together a turnkey line proposal around their furnace equipment, enabling their clients to get the right for their production equipment. These instances of client success always drive ONEJOON to explore new avenues of growth and expand its footprints. Currently, it is



focusing on the U.S. division that was established in 2020. The company has already gained huge traction in this market, and in the coming years, it wants to become a leader in the U.S. by supporting its clients as best as possible. ONEJOON is also striving to bring innovation to the advanced materials space. It is adding more capacity to its test centers by implementing new equipment and additional manpower, including engineers and seasoned scientists, who can fully align innovation with clients' evolving business requirements. In a nutshell, ONEJOON is aiming to become the number one turnkey solution provider for the entire process line. "We are the only one-stop shop in the market that can holistically streamline the production of advanced materials requiring thermal processes," Schmiing concludes.

Simon Schurr