

Press Information

Kyocera presents its high-performance components at the Hydrogen Technology World Expo

KYOCERA Fineceramics Europe GmbH will be showcasing its innovative high-performance ceramic solutions at the trade fair for the hydrogen and fuel cell industry, taking place from October 21st to 23rd in Hamburg, Germany.

Kyoto/Esslingen, 18th September 2025. Kyocera will be presenting its high-performance components made of technical ceramics at the [Hydrogen Technology World Expo](#) (Hall B6, Booth #6E118), highlighting their advantages for hydrogen operation. Kyocera is responding to the increasing demand for hydrogen solutions and the associated investments in this rapidly growing sector, aiming to contribute to a more efficient and sustainable future with its ceramic components.

Technical ceramics with ideal material properties

Hydrogen is considered as the energy source of the future with a wide range of applications. However, handling and transporting hydrogen is a significant challenge. Thanks to their properties, technical ceramics can help overcome the challenges of handling hydrogen and contribute to the value chain. Kyocera uses high-performance ceramic materials that provide exceptional mechanical robustness, excellent sealing properties and resistance to harsh environmental conditions, such as those found in hydrogen processes which deliver high-performance and are suitable for a wide range of applications.

Customised solutions for individual requirements

In addition to standardised ceramic components, Kyocera also offers fully customised solutions. With a wide range of shaping methods, many years of expertise in soldering technology, and a comprehensive portfolio of coating technologies, the company can manufacture complete assemblies precisely tailored to its customers' requirements. Kyocera's electrical feedthroughs are hermetically sealed and ideally suited for UHV applications. Thanks to the wide variety of available metals and soldering materials, they can be specifically adapted to different operating conditions, such as corrosive environments, mechanical load/high pressure, or high temperatures.

Contribution to CO₂-free hydrogen production

Green hydrogen, which is obtained through the electrolysis of water, plays an important role in the chemical industry: It is versatile in numerous areas of application and, at the same time, the

only solution for certain processes. For example, it can replace the much more environmentally harmful use of coal in the steel industry. To produce it, water is broken down into hydrogen and oxygen using electricity in a process known as electrolysis. If the electricity required for this process comes entirely from renewable energy sources, even the production is CO₂-neutral. Due to the special chemical properties of hydrogen, the highest safety and reliability requirements must be met throughout the entire value chain – especially under these conditions, Kyocera's high-performance ceramic components offer optimal properties for use in hydrogen environments. Kyocera's involvement in this field is in line with its sustainable corporate philosophy and its dedication to environmental protection.

About the Hydrogen Technology World Expo

The [Hydrogen Technology World Expo](#) is the world's largest and most important trade fair for suppliers of hydrogen technologies, materials, components, and engineering solutions. Spanning a total of seven exhibition halls, this year's fair expects more than 300 international speakers, over 20,000 participants, and more than 1,000 exhibiting companies. This year's fair motto is "Technologies & Solutions for a Low-Carbon Hydrogen Future".

Overview: Kyocera at the Hydrogen Technology World Expo

Show	Hydrogen Technology World Expo
Date	21 st to 23 rd October 2025
Location	Hamburg Messe, Germany
Kyocera's booth	Hall B6, Booth #6E118

The press material is available for download via the following link:

<https://spgroup.box.com/s/noxj4pe71ohqgo6vs2zx2j7k6iawdonc>



Feedthroughs



Alumina structural ceramics for fuel cells



Silicon carbide ceramics for heat exchanger systems



Heat exchanger with laminated structure



Containment shell (TiN coated)



High pressure piston



For more information on Kyocera: www.kyocera-fineceramics.de

About Kyocera

Kyocera has been successful in Europe for over 50 years. From its European headquarters in Esslingen am Neckar, KYOCERA Europe GmbH operates 28 sites including manufacturing facilities, with products ranging from fine ceramics, automotive, semiconductor and optical components to components for medical products, industrial tools, LCDs, touch solutions, industrial printing components, and consumer goods such as kitchen and office products.

Kyocera's high-performance ceramic products are produced and distributed by [KYOCERA Fineceramics Europe GmbH](#), a subsidiary of [KYOCERA Europe GmbH](#). The Kyocera Group is one of the world's leading providers of high-performance ceramic components for the technology industry, offering over 200 different ceramic materials, as well as state-of-the-art technologies and services tailored to the specific needs of each market.

KYOCERA Europe GmbH is a company of the [KYOCERA Corporation](#) headquartered in Kyoto/Japan, a renowned supplier in semiconductor, industrial and automotive components as well as electronic components, printing and multifunction systems, smart energy systems, and communications technology. Kyocera is one of the most experienced technology producers, with more than 65 years of industry expertise. The Kyocera Group comprises 288 subsidiaries (31 March 2025). With around 77,200 employees, Kyocera generated net annual sales of around EUR 12.43 billion in the 2024/2025 fiscal year.

Kyocera is ranked 874 on Forbes magazine's 'Global 2000' list for 2024, and ranked as 'The 100 Most Sustainably Managed Companies in the World' according to the Wall Street Journal. For the second year in a row, Kyocera qualified for the Dow Jones Sustainability Index (Asia-Pacific). As well, Kyocera receives a Bronze rating on EcoVadis Sustainability Survey and was acknowledged as a 'Top 100 Global Innovator 2025' for the ninth time by Clarivate, being one of the world's leading innovators.

Kyocera also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr Kazuo Inamori — to individuals worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (equivalent to approximately €596,500 per prize category).

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