

Press information

Kyocera Unimerco introduces Hydraulic Chucks for precision applications

Kyocera Unimerco, a specialist in cutting tool solutions, introduces two high-performance hydraulic chucks, the Hydro Chuck Uni and the Hydro Chuck HD, developed for precision drilling, milling, threading, and other machining operations.

Kyoto/Sunds, 30th October 2024. Hydraulic chucks use a hydraulic mechanism to securely clamp tools such as drills, milling cutters, or thread cutters and other cutting tools. Pressurised oil ensures the tool is firmly held in place while simultaneously minimising disruptive vibrations, enabling stable and precise operation.

Kyocera Unimerco presents two hydraulic chucks, each optimised for different applications:

- **Hydro Chuck Uni** offers an excellent price-performance ratio, providing high precision across a wide range of machining tasks.
- **Hydro Chuck HD (Heavy Duty)** is specifically engineered for high-performance cutting (HPC) applications, capable of withstanding extreme torque.

Both chucks are suitable for tools with various shank types and diameters ranging from 6 to 32 mm, without the need for special sleeves or adapters. They also enable fast tool changes in just a few seconds using a standard Allen key, eliminating the need for specialised tools like torque wrenches e.g.. During operation, the hydraulic mechanism provides exceptional vibration damping and ensures a runout accuracy of less than 0.003 mm. An adjusting screw allows for easy axial length adjustment.

- **Hydro Chuck Uni** is a versatile chuck that ensures excellent machining quality and long tool life across a broad spectrum of applications.
- **Hydro Chuck HD** is designed for high-torque applications such as milling, drilling, and threading. Compared to standard solutions, the Hydro Chuck HD offers up to three times longer tool life, significantly improving efficiency and productivity in demanding environments.

Both chucks offer a balance grade of G2.5 at 25,000 rpm / $U_{max} < 1$ gmm, and the tool shanks meet h6 quality standards.



The **Hydro Chuck Uni (right)** offers an exceptional price-performance ratio for precision machining. The **Hydro Chuck HD (left)** is engineered for high-torque, high-performance applications.



Tool changes with both hydraulic chucks can be completed quickly and easily using a standard Allen key – no specialised tools required.



For more information on Kyocera: www.kyocera-unimerco.com

About Kyocera

KYOCERA UNIMERCO Tooling A/S specializes in the development, production, and distribution of innovative cutting tools for the metalworking, woodworking, and food processing industries. With a strong focus on providing standard and customized solutions that enhance productivity and precision, Kyocera Unimerco combines advanced technology with a deep commitment to customer service. The company was founded in 1964 under the Unimerco name and has since expanded into 15 countries with more than 700 employees. Since 2011 the company belongs to the Kyocera Group.

KYOCERA UNIMERCO Tooling A/S is a subsidiary of [KYOCERA Europe GmbH](#), which has been successful in Europe for over 50 years. The Kyocera Group is a leading global manufacturer of industrial tools, offering innovative tool solutions and process optimisation. Kyocera contributes to global manufacturing with innovative products and technologies.

KYOCERA Europe GmbH is a company of the KYOCERA Corporation headquartered in Kyoto/Japan, a world leader in semiconductor, industrial and automotive components as well as electronic components, printing and multifunction systems, and communications technology. The technology group is one of the world's most experienced manufacturers of smart energy systems, with more than 45 years of industry expertise. The Kyocera Group comprises 292 subsidiaries (31 March 2024). In England, Kyocera has a subsidiary in Frimley, KYOCERA Fineceramics Ltd. With around 79,200 employees, Kyocera generated net annual sales of around EUR 12.29 billion in the 2023/2024 fiscal year.

Kyocera is ranked 672 on Forbes magazine's 'Global 2000' list for 2023, 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 Gold rating on EcoVadis Sustainability Survey for the second consecutive year and was acknowledged as a 'Top 100 Global Innovator 2023', being one of the world's leading innovators, for the eighth time by Clarivate.

The company 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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