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**Renishaw and British Cycling renew partnership ahead of 2024 Paris Olympics**

After their work to develop a highly successful track bike for the Tokyo Olympics, global engineering technologies company, [Renishaw](https://www.renishaw.com/en/renishaw-enhancing-efficiency-in-manufacturing-and-healthcare--1030?utm_source=StoneJunction&utm_medium=hard+news&utm_campaign=REC382), and the Great Britain Cycling Team have extended their partnership. As an official supplier to the Team, Renishaw will use its expertise in additive manufacturing (AM) to create lightweight, complex parts for an upgraded track bike design, which aims to reduce drag and improve overall speeds for the 2024 Paris Olympics.

In 2019, British Cycling, the national governing body for cycling in Great Britain, invited Renishaw to join the Olympic bike development team.Renishaw’s expertise in metal 3D printing and advanced engineering was seen as vital to enable the production of lighter, more complex components than traditional manufacturing methods, allowing the team to increase the bike’s speed.

For the Tokyo bike, Renishaw used its in-house expertise to rapidly produce plastic and metal prototype parts to undertake aerodynamic testing of the new design and ensure that parts were light, geometrically correct and strong enough to endure the strain from riders. Once it confirmed the parts were viable, the company then used its RenAM 500Q AM systems to manufacture aluminium and titanium parts, including handlebars, for the competition bikes, with parts customised for individual athletes.

Looking ahead to the Paris Olympics, the goal is to increase the bike’s speed through an enhanced design that will further improve the Great Britain Cycling Team’s performance and its chances of success, following the seven medals achieved at the Tokyo Olympics.

“We’re really excited to be working once again with the British Cycling team after the success in Tokyo,” explained Ben Collins, Senior Applications Engineer for Renishaw’s Additive Manufacturing Group. “Creating a bike light enough for Olympic competition that also stayed within the Union Cycliste Internationale guidelines was a challenge, but it also gave us the chance to showcase how beneficial additive manufacturing can be across all industries.”

“It was great to see how well the bike performed at the Tokyo Olympics, where the team won three gold medals, three silver and one bronze. It was a huge triumph for both the team and us. Now that we’ve renewed the partnership, it will be really exciting to see how we can help improve the bike’s performance for the Paris Olympics,” concluded Collins.

In 2020, the Hope-Lotus track bikes helped to make British Olympic history in Tokyo. Laura Kenny became the most successful British female Olympian of all time after winning a gold medal in the madison with Katie Archibald, and silver medal in the women's team pursuit. Jason Kenny also became Britain’s most successful male Olympian, winning gold in the men's keirin and silver in the men’s team sprint.

Stephen Park, Performance Director for British Cycling, said: “We have a fantastic relationship with the team at Renishaw. They’ve been integral in helping create what we believe is the fastest track cycling bike in the world and one which we are now refining towards Paris. The partnership allows us to create world leading parts that allow us to optimise our bike for each individual rider, which is unlike anything we’ve been able to do in the past. The key benefits of working with Renishaw is the experience of the engineers, designers and all the employees, along with the incredible technology in terms of manufacturing capability.”

For further information on Renishaw’s additive manufacturing products and services, visit www.renishaw.com/am

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**Notes to editors**

Renishaw is a world leading supplier of measuring systems and production systems. Its products give high accuracy and precision, gathering data to provide customers and end users with traceability and confidence in what they’re making. This technology also helps customers to innovate their products and processes.

It is a global business, with over 5,000 employees located in the 36 countries where it has wholly owned subsidiary operations. The majority of R&D work takes place in the UK, with the largest manufacturing sites located in the UK, Ireland and India.

For the year ended June 2022 Renishaw recorded sales of £671.1 million of which 95% was due to exports. The company’s largest markets are China, USA, Japan, and Germany.

Renishaw is guided by its purpose: Transforming Tomorrow Together. This means working with customers to make the products, create the materials, and develop the therapies that are going to be needed for the future.

Further information at [www.renishaw.com](http://www.renishaw.com/)