

Fun on three wheels with maintenance-free igus plain bearings

iglidur G plain bearings in the Azub Ti-Fly recumbent bike ensure safe, long-lasting and lightweight front suspension

Recumbents, also known as trikes, promise their users maximum safety, even at low speeds. For the front suspension of a new trike model, the developers of the company Azub from the Czech Republic searched for wear-resistant plain bearings that withstand dirt, dust and water. Their solution: iglidur G bearings from igus. They are small, lightweight, lubrication-free and therefore maintenance-free.

Trikes are increasingly in demand today, not only for people with physical limitations and illnesses, but also for seniors and young adventurers thanks to their low entry position and anti-tilt feature. The advantages of a trike compared to a normal bike are obvious. Riding while seated is more physically relaxing and safe even at slow speeds. Additional accessories support easy operation. The inventor of the company Azub Bike developed the trike with the name Ti-Fly for five years. The developers gained initial experience with another model that won the "Trike of the Year" award in 2015. All the findings and technical details were incorporated in the Ti-Fly. The new trike model with a high-quality workmanship, stable steering and new eye-catching design of the rear fork with a 157 mm wide hub is very appealing. The biggest feature is the lightweight front suspension made of titanium. This ensures high stability even on uneven ground and in vibrations. For the suspension, the designers opted for the lubrication-free plain bearings from igus.

igus plain bearings are convincing with their light weight and freedom from maintenance

The inventors of the Ti-Fly made special demands on the installed components. "Basically, the bearings should be lightweight, robust and durable," explains Aleš Zemánek, Managing Director of Azub Bike. "The used iglidur G plain bearings were exactly the right solution." Thanks to the incorporation of solid lubricants, the all-round bearings are lubrication-free and thus maintenance-free. Dust and dirt cannot harm the cost-effective bearings. In addition, the

iglidur materials are corrosion-free, which is important since the trikes have to withstand wind and weather. Their high wear resistance ensures a long service life, which can also be determined in advance online with the service life calculator.

Caption:



Picture PM5118-1

The wear-resistant and lubrication-free iglidur plain bearings from igus withstand the shocks, dirt and water in the front suspension of the Ti-Fly trike. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs 3.800 people around the world. In 2017, igus generated a turnover of 690 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms "igus", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain-systems", "e-ketten", "e-kettensysteme", "e-skin", "flizz", "ibow", "iglide", "iglidur", "igubal", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "plastics for longer life", "robolink", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.