

Racing: b&m starting off full speed ahead with TU Darmstadt

For the 2022 season, baier & michels (b&m) is joining the international design competition „Formula Student“ as a partner of the TU Darmstadt Racing Team (DART). DART was founded in 2005 as a non-profit organization and has since been an official university group at the Technical University of Darmstadt.

The idea behind the „Formula Student“ project: year after year, students from a wide range of disciplines work to independently develop and manufacture a technologically sophisticated, single-seater formula racing car and compete with it against other teams from around the world. The focus is on the megatrends of the automotive industry, primarily lightweight construction, electromobility and autonomous driving.

The special feature: in the end, it is not the team with the fastest car that wins, but the one with the best overall package. The bolide should combine important requirements such as cost, endurance, marketing and innovative content. In the course of the 2022 season, around

45 TU students are working together, including from the departments of mechanical engineering, computer science, electrical engineering and industrial engineering. „baier & michels is accompanying Team DART Racing because, as a manufacturer of fastening technology and sealing systems, we want to support the skilled workers of tomorrow on the one hand, and the multi-faceted research work in one of our focus markets, the automotive industry, on the other“, says Jana Tischler, Head of New Business Development at b&m.

The students have provided a promising gem for the upcoming competitions. With a total weight of just under 220 kg, the new DART race car accelerates from 0 to 100 km/h

in under 3 seconds. It features all-wheel drive with four motors (45kW / 61hp each), a maximum acceleration of up to 2.5 g and a maximum abrasion of 140 kg at 80 km/h. Speaking about the biggest technical challenges during the design phase, Chief Operating Officer Björn Hellmann says: „It was necessary to implement in-house developed electric motors and a new carbon monocoque for the first time, plus the further development of our autonomous system.“

The 2022 season begins for DART on July 13 at the Autodromo Riccardo Paletti racetrack in Emilia-Romagna, Italy.

Learn more about DART Racing here: <https://www.dart-racing.de/>

