

## Never change a winning team

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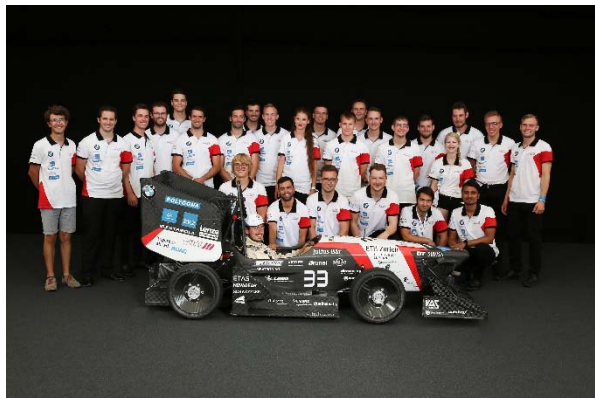
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The successful AMZ team and their  
racecar "eiger"  
© Akademischer Motorsportverein  
Zürich  
ETH Formula Student Project

**Hanau – VACUUMSCHMELZE (VAC) has supported Formula Student Electric since the introduction of the electromobility division in 2010. All top teams have been using VAC's high-performance materials in their electric motors since the very beginning. Thanks to the rotor-stator systems made of VAC's cobalt iron materials, the AMZ racing team of ETH Zurich won the overall first prize at the Formula Student Germany in Hockenheim on August 12 this year and remains in first place in the world rankings.**



The high-performance cobalt-iron materials such as VACOFLEX<sup>®</sup> and VACODUR<sup>®</sup> increase torque by up to 53% compared to conventional materials. In combination with segmented permanent magnet assemblies, the parameters "weight" and "speed" can be adjusted to the optimum and more powerful motors of the same size or significantly lighter motors of the same power can be realized.

Recently, VAC's premium materials were also successfully used by the team of the University of Wisconsin-Madison, which won the first place in the "Electric Vehicle Design" category of the FSAE Lincoln Competition. Max Liben, technical director of the team said: "The high level of performance of these motors is a testament of VAC's production quality and in-depth knowledge – although even more impressive was their ability to quickly adapt and meet the project's incredibly fast timeline to actually bring these motors to life from conception to final product within one year."

## **VACUUMSCHMELZE GmbH & Co. KG**

VACUUMSCHMELZE (VAC), based in Hanau, has 4,300 employees worldwide, 1,450 of whom are in Hanau. The company designs, produces and markets advanced materials, particularly with magnetic, but also with other physical qualities as well as related products. In 1914, the first vacuum furnace laid the foundation for today's VACUUMSCHMELZE. Industrial vacuum melting techniques for alloys have been in operation since 1923.

VAC Group today achieves annual sales of approx. 380 million euros in over 50 countries and is holder of around 800 patents. The company is among the world's most highly innovative developers of advanced industrial materials.

VAC's range of products comprises a broad array of advanced semi-finished materials and parts, inductive components for electronics, magnets and magnet systems for use in a wide variety of fields and industries spanning watch-making and medical technology, renewable energies, shipbuilding, installation technology, automotive and aviation. VAC's custom solutions are developed in close collaboration with the customer, reflecting the company's expertise in materials, applications and state-of-the-art production technology.

For more information, visit [www.vacuumschmelze.com](http://www.vacuumschmelze.com)

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