

## Press Release

Wiesbaden, August 1, 2019

### **The Winning Team of the Hyperloop Competition Counts on Carbon Fiber Reinforced Plastic**

- For the fourth year in a row, students of the Technical University of Munich (TUM) won Elon Musk's Hyperloop competition
- The optimized prototype of the TUM uses carbon fiber reinforced material from SGL Carbon
- Sponsoring and cooperation also planned for 2020

On July 21, 2019, the team from the Technical University of Munich won the prestigious SpaceX Hyperloop competition in Los Angeles for the fourth time. This year, the special capsule from Munich shot through the 1,200 meter long test tube at 288 mph, surpassing its own speed record of 284 mph from the previous year.

One component of this success are carbon materials, which the team developed and implemented together with specialists from SGL Carbon. "This year we have optimized the outer skin of the capsule", says Paloma García Guillen from the TUM team. "We have replaced some parts that used to be made of plastic with carbon. This has made the shell around a kilo lighter, but at the same time extremely stable to withstand the high pressure and centrifugal forces in the tube. SGL Carbon has given us a variety of material mixes to try out. That was a very important plus point," she emphasizes. The result: a slim prototype, almost 1.70 meters long, 50 centimeters wide and weighing a total of 70 kilograms.

Since the start of the Hyperloop competitions in 2017, the students of the TU Munich and SGL Carbon are working together. "We have had very good experiences in our cooperation and are pleased that we will be on board again as partner and sponsor next year," says Dr. Christoph Ebel, Head of the Lightweight and Application Center at SGL Carbon. "We congratulate the TUM team on their victory. The fourth victory in a row underlines the enormous competence of the team. It also shows how important the choice of the right material is for future mobility".

#### **About SGL Carbon**

SGL Carbon is a technology-based company and world leader in the development and production of carbon-based solutions. Its high-quality materials and products made from specialty graphite and composites are used in industrial sectors that determine the future: automotive, aerospace, solar and wind energy, semiconductor and LEDs as well as in the production of lithium-ion batteries and other energy storage systems. In addition, SGL Carbon develops solutions for chemical and industrial applications.

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**In 2018, SGL Carbon SE generated sales of around 1 billion euros. The company has approx. 5,100 employees at 32 locations in Europe, North America, and Asia.**

Materials, products and solutions from SGL Carbon are embedded in the major topics of the future: sustainable mobility, new energies and cross-industry digitization. Further developments in these areas demand more intelligent, more efficient, networked and sustainable solutions. This is where the entrepreneurial vision of SGL Carbon evolves around: contributing to a smarter world.

Further information on SGL Carbon can be found at [www.sgllcarbon.com/press](http://www.sgllcarbon.com/press).

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To the extent that our press release contains forward-looking statements, the latter are based on information that is available at present and on our current forecasts and assumptions. Forward-looking statements, by their very nature, entail known as well as unknown risks and uncertainties that may lead to actual developments and events differing substantially from the forward-looking assessments. Forward-looking statements must not be understood to be guarantees. Instead, future developments and events depend on a large number of factors; they comprise various risks and imponderables and are based on assumptions that may possibly turn out not to be appropriate. These include unforeseeable changes to fundamental political, economic, legal and societal conditions, particularly in the context of our main customers' industries, the competitive situation, interest and exchange rate trends, technological developments as well as other risks and uncertainties. We perceive additional risks e.g. in pricing developments, unforeseeable events in the environment of companies acquired and Group member companies as well as in current cost savings programs from time to time. The SGL Carbon assumes no obligation and does not intend to adjust or otherwise update these forward-looking statements either.

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