



News Release

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Alfa Romeo Sauber F1® Team Adds Five 3D Systems ProX® 800 SLA 3D Printers to Win the Race Against Time for Part Production

- **New SLA 3D printers join Alfa Romeo Sauber F1® Team's extensive arsenal of 3D Systems SLS and SLA solutions**
- **Alfa Romeo Sauber F1® Team's Additive Manufacturing services and expertise also available to 3rd parties**

ROCK HILL, South Carolina, June 19 2018 – 3D Systems (NYSE: DDD) announced that Sauber Motorsport AG, the company operating the Alfa Romeo Sauber F1® Team, has added five new ProX® 800 SLA 3D Printers to its headquarters and engineering facilities in Hinwil, Switzerland, within the scope of a new partnership agreement between 3D Systems and the Alfa Romeo Sauber F1® Team.

Sauber Motorsport AG first started using 3D Systems' solutions more than ten years ago when it built its Additive Manufacturing department. The new SLA (stereolithography) systems join existing 3D Systems products used by the F1 team, including six SLS 3D printers.

"When we decided to upgrade our SLA production capability, we felt it was time to take our cooperation with 3D Systems to a deeper level. We also needed to expand our capacity so replacing some of the older 3D Systems SLA's with the higher throughput ProX 800 was the

natural choice," says Christoph Hansen, head of additive manufacturing, at Sauber. "We are using 3D Systems' SLA solutions predominantly and extensively for wind tunnel testing, but also for tooling for carbon laminating as well as vacuum casting for silicon parts."

A Must-Have for Wind Tunnel Testing

Wind tunnel testing is essential for the aerodynamic development of a Formula 1 race car. A 60 percent scale model of the car is produced for testing in Sauber's own state of the art wind tunnel located at its headquarters in Hinwil. This model is produced mostly with additive manufacturing - 3D Systems' SLS and SLA 3D printers are used for everything from front wings, brake ducts and suspension covers to engine covers, internal ducts and hand deflectors.

"We can't really compare this process to conventional manufacturing because it would be impossible to do it any other way than 3D printing; we require many parts with superior surface quality in a very short time," says Reto Trachsel, head of aero design, at Sauber. "There have been times when the wind tunnel, which is also used by our third party customers, has been running 24/7 and we have been leveraging our 3D Systems' solutions to produce 200 to 300 plastic parts per work day."

Racing to the Finish with 3D Printed Tooling

Once the development is approved, the final parts are produced, often in carbon fiber using both conventionally manufactured and 3D printed molding.

"The Alfa Romeo Sauber F1® Team draws on a variety of 3D Systems' SLA materials to produce tools for different applications. For example, we laminate carbon parts using tools produced in [Bluestone material](#) and we use the [Xtreme material](#) for vacuum casting tools to produce the sealings," says Hansen. "Why do we 3D print the tools instead of using conventional tooling techniques? The answer is easy – we get the design complexity for free! This is absolutely essential for parts like complex duct systems."

"It takes a winning team to succeed in Formula One® and the 3D Systems partnership with the Alfa Romeo Sauber F1® Team matches the world's most advanced additive manufacturing solutions with cutting edge automotive engineering. By increasing production throughput with the addition of the 3D Systems' ProX 800 SLA systems, Sauber can test more design revisions and push the limits of race car innovation," says Phil Schultz, senior vice president, general manager, on demand solutions and plastics, 3D Systems. "Formula One® is the ultimate proving

ground for 3D printing and the expertise we continue to acquire can be applied to mainstream passenger vehicles as well as aerospace and other industries."

Powering Engineering Services for 3rd Party Customers

In addition to using 3D Systems' Additive Manufacturing for its own prototyping and production requirements, Sauber also leverages the 3D printers for its Engineering services. This enables companies all over Europe to benefit from Sauber's expertise, 3D printed precision mock-ups, jigs and fixtures, tooling and serial production.

"Sauber Engineering is bringing race track performance to all kinds of companies, large and small. Whether we're optimizing the performance of our own F1 cars or helping our 3rd party customers re-imagine opportunities from prototyping to serial production, we're relying on our expanding arsenal of 3D Systems' additive manufacturing solutions to give us a competitive edge," concludes Hansen. "

Forward-Looking Statements

Certain statements made in this release that are not statements of historical or current facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance or achievements of the company to be materially different from historical results or from any future results or projections expressed or implied by such forward-looking statements. In many cases, forward looking statements can be identified by terms such as "believes," "belief," "expects," "may," "will," "estimates," "intends," "anticipates" or "plans" or the negative of these terms or other comparable terminology.

Forward-looking statements are based upon management's beliefs, assumptions and current expectations and may include comments as to the company's beliefs and expectations as to future events and trends affecting its business and are necessarily subject to uncertainties, many of which are outside the control of the company. The factors described under the headings "Forward-Looking Statements" and "Risk Factors" in the company's periodic filings with the Securities and Exchange Commission, as well as other factors, could cause actual results to differ materially from those reflected or predicted in forward-looking statements. Although management believes that the expectations reflected in the forward-looking statements are reasonable, forward-looking statements are not, and should not be relied upon as a guarantee of

future performance or results, nor will they necessarily prove to be accurate indications of the times at which such performance or results will be achieved. The forward-looking statements included are made only as the date of the statement. 3D Systems undertakes no obligation to update or review any forward-looking statements made by management or on its behalf, whether as a result of future developments, subsequent events or circumstances or otherwise.

About 3D Systems

3D Systems is the originator of 3D printing and an innovator of future 3D solutions. It has spent its 30-year history enabling professionals and companies to optimize their designs, transform their workflows, bring groundbreaking products to market and drive new business models. This is achieved with the Company's best of breed digital manufacturing ecosystem. It's comprised of plastic and metal 3D printers, print materials, on demand manufacturing services and end-to-end manufacturing software solutions. Combinations of these products and services address a variety of advanced applications- ranging from Aerospace, Automotive, and Consumer Goods to Medical, Dental, and Jewelry. For example, 3D Systems' precision healthcare capabilities include simulation, Virtual Surgical Planning, and printing of medical and dental devices as well as patient-specific surgical instruments. More information on the company is available at www.3dsystems.com.

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