



### 3D Printing: Additive Works Joins the Altair Partner Alliance

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New capabilities in HyperWorks® customer; simulator based process software design; time and energy in development of additively manufactured components

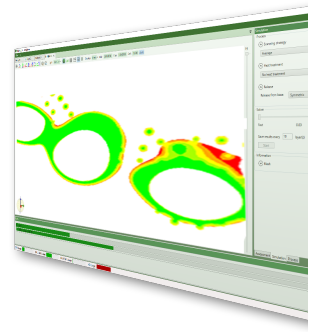
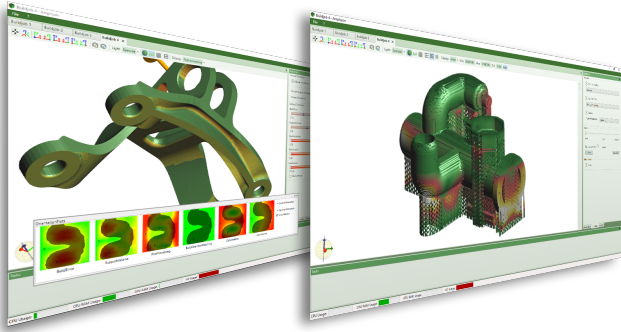
**TROIS MICH. - June 26, 2017 - The [New Capabilities](#) (NCP) is pleased to announce the addition of Additive Works to its software offering. HyperWorks is a simulation-driven, process software for powder bed-based, laser based metal additive manufacturing processes. It allows for automatic optimization of part orientation as well as a build-up process simulation and the selection of process parameters in order to achieve a higher part quality and more process stability.**

"HyperWorks' innovative approach to 3D printing simulation provides an efficient and practical solution to handle a wide range of industrial users involved with designing and printing complex metallic parts," said Brian Poo, Senior Director of Industry Solutions at Altair. "The GPU based software with its intuitive GUI enables the user to do trade-off studies for part orientation as a function of assembly, support volume, build time etc. Decision calculations from simulation can be used to compress the part geometry to minimize deviation from the design target."

"HyperWorks saves money, time and energy in the development of additively manufactured components. By integrating both mechanical process analysis and simulation into the process chain, surface quality and shape accuracy can be improved before the need to fabricate by the user. HyperWorks' control of several variables which support the pre-processing steps and enhance the process itself. These are three major opportunities HyperWorks offers to reduce time on printing. HyperWorks team has to date on 1M and 6M and 6M, helping customers study process physics by numerical simulation and helping production optimize pre-processing and build data in the shop. HyperWorks was designed to reduce the experiment driven development of build-up strategies in laser-based metal printing with simulation and geometry analysis," said Dr. Hal. "We have Altair, Co-Founder & CEO at Additive Works. Due to the numerically calculated knowledge about process-induced thermal and mechanical loads, the build-up process can already be optimized in the level of pre-processing. This will save HyperWorks with a lot of resources and additionally enhance the part quality as well as the level of automation."

As a simulation based process software for additive manufacturing, HyperWorks can be used to calculate the optimal orientation of a part to additively manufacture it. Also, the build-up process can be simulated in order to calculate stresses and part deformation and generate a post-processed STL file.

[HyperWorks](#) for Additive Works will be held on July 11 at 10 a.m. ET. For more information about the software, please visit the product page for [HyperWorks](#).



**About the Altair Partner Alliance**  
Altair's HyperWorks platform supports a revolutionary subscription based licensing model in which customers use floating licenses to access a broad suite of Altair developed, as well as third-party, software applications on demand. The Altair Partner Alliance effectively extends the HyperWorks Platform from more than 20 internally developed solutions to upwards of 60 applications with the addition of new partner applications. Customers can resolve these third-party applications at no incremental cost using their existing HyperWorks licenses. Customers benefit from unparalleled flexibility and access, resulting in maximum software utilization, productivity and ROI. For more information about the Altair Partner Alliance, visit [http://www.altair.com/partneralliance](#).

**About Additive Works**  
Additive Works GmbH was founded by four interdisciplinary professionals in late 2015. As a Spin-Off company of GEMF, University of Bremen, Additive Works combines state-of-the-art scientific approaches with application-oriented software engineering to offer innovative software solutions for simulation based additive processes.  
At Additive Works focus on one general mission: To provide highly usable solutions for first time right additive manufacturing and take this technology to the next level. The growing team of Additive Works stands with four motivated scientists and entrepreneurs. It combines essential skills in physical modeling, software development and algorithm optimization with years of experience in simulation and control of additive manufacturing. Especially the diversity in scientific backgrounds within the team provides the flexibility, innovativeness and agility necessary for solving the complex and multifaceted difficulties of this innovative yet challenging process. Find out more [http://www.additiveworks.com](#)

**About Altair**  
Altair is focused on the development and global application of simulation technology to optimize and optimize design, processes and facilities for improved business performance. Privately held with more than 2,800 employees, Altair is headquartered in Troy, Michigan, USA and operates 67 offices throughout 22 countries. Today, Altair serves more than 5,000 customers across broad industry segments. To learn more, please visit [http://www.altair.com](#).

**Media Contacts:**  
Altair Corporation  
Media & Sales  
1000 Lakeside Ave. N.E.  
Grand Rapids, MI 49503  
USA  
Phone: +1 616 276 6000  
Fax: +1 616 276 6001  
Email: [media@altair.com](mailto:media@altair.com)  
Website: [www.altair.com](http://www.altair.com)

**Altair Additive Works**  
Additive Works GmbH  
1000 Lakeside Ave. N.E.  
Grand Rapids, MI 49503  
USA  
Phone: +1 616 276 6000  
Fax: +1 616 276 6001  
Email: [info@additiveworks.com](mailto:info@additiveworks.com)  
Website: [www.additiveworks.com](http://www.additiveworks.com)