

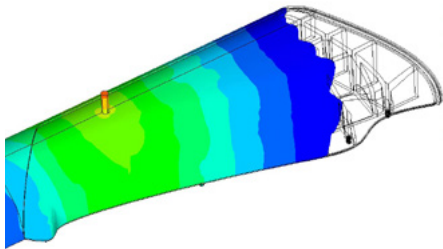


ALTAIR

# MANUFACTURING

[altair.com/manufacturing](http://altair.com/manufacturing)

Altair offers a unique set of simulation tools to evaluate product feasibility, optimize the manufacturing process, and run virtual try-outs for many traditional, subtractive, and additive manufacturing processes. Users can validate designs early in the manufacturing process with the simplicity and affordability of the simulation software, as well as use optimization technology with specific manufacturing constraints to design better, more efficient products.

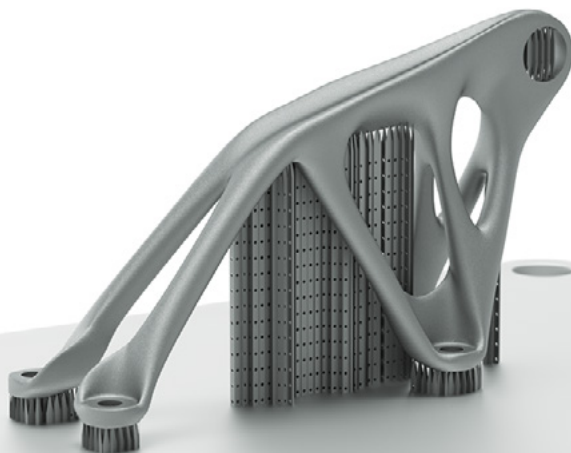


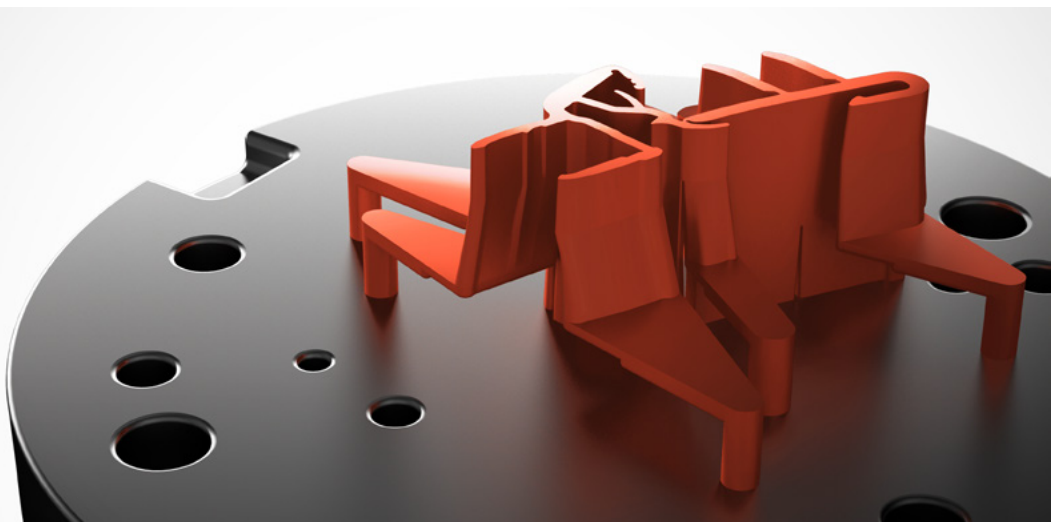
## INJECTION MOLDING

Altair simulation tools provide a modern integrated approach for streamlining “design for manufacture” of injection molded components. From the initial design of the part, understanding the injection molding process, to material mapping of reinforced engineering polymers, the structural and fatigue performance of parts are efficiently analyzed and optimized. Designers and engineers are enabled to easily explore options and deliver improved products, reduce scrap and tooling rework costs.

## 3D PRINTING

Altair Inspire Print3D enables teams to cut product development and additive manufacturing costs by reducing material usage, print times, and post-processing. It provides a fast and accurate toolset for the design and process simulation of selective laser melting (SLM) parts. The easy-to-use advanced thermo-mechanical simulation enables design engineers to develop parts ready for additive manufacturing. By capturing behavior independent of the printer type, designers can evaluate and easily modify critical process variables.





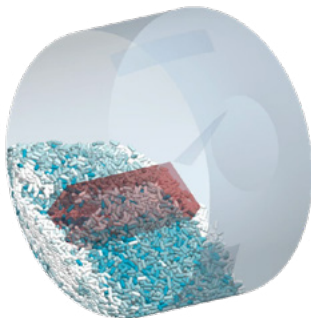
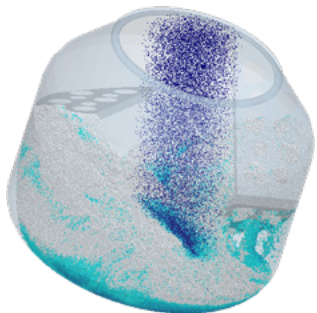
## EXTRUSION

Every extrusion company is looking to eliminate costly prototypes and reduce redesign cycles. With Altair, advanced physics simulations are now accessible to organizations of all sizes. Altair Inspire Extrude is a simulation solution for both metal and polymer extrusion. It helps achieve productivity gains by reducing product development costs and improve extrusion quality, increasing production yield. Lower scrap rates can be achieved by exploring process improvements on a virtual press.



## CASTING

Altair's offering includes a fast casting process simulation software that allows the user to enhance and optimize their manufactured components in order to avoid typical casting defects. Altair Inspire Cast is a simulation environment focused on creating high-quality components with increased profitability through a highly intuitive user experience catering to beginners and experts alike. Additional casting simulations products are accessible through the Altair Partner Alliance.



## PROCESS MANUFACTURING

Altair EDEM™ software is being used by top-tier process manufacturing companies in the pharmaceutical, chemical, consumer packaged goods, and asphalt industries worldwide, to optimize the performance of handling and processing equipment. Altair simulation enables companies to accurately simulate and analyze the behavior of bulk solids, providing key information on processes otherwise difficult or sometimes impossible to measure.

## METAL FORMING

Altair Inspire Form is a sheet metal forming simulation software that enables users to optimize their products for manufacturing, with the consideration of early formability, material utilization and cost. Cold and hot sheet metal forming, tube bending, hydroforming, and composite forming are supported. Run early manufacturing feasibility analysis within seconds or perform advanced process validation, optimization, and virtual try-outs leveraging an accurate, highly-scalable solution.



Learn how Altair can help you  
[altair.com/manufacturing](https://altair.com/manufacturing)

### Expanded Options. Faster Results. Better Products.

The Altair Partner Alliance (APA) features on-demand third-party applications that run on the Altair licensing platform. Through the APA customers benefit from a growing portfolio extends their simulation and design capabilities to help create better products faster.

Whether the chosen process is additive or subtractive manufacturing, APA software enhance Altair's additive manufacturing solutions with emerging manufacturing technologies.

Find out what the APA has to offer you at [altair.com/APA](https://altair.com/APA)

# DISCOVER HOW ALTAIR CAN REVOLUTIONIZE YOUR APPROACH TO INNOVATION

Altair pioneered a patented, units-based, subscription licensing model for software which has transformed the way our customers streamline product innovation and get to market faster. Customers have full access to all our software instantly, including more than 150 partner products, and can run these applications on-demand locally or in the cloud. Packaged as a comprehensive set of applications, our units-based structure is scalable, shareable, and more cost effective than obtaining individual licenses.

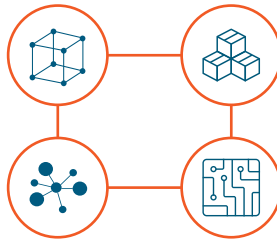


## POOL OF UNITS

Users draw units from the pool to access multiple products, across any location.

## CHOICE OF APPLICATION

Maximizing software dollars through the flexibility of choice.



## FREEDOM TO USE HOWEVER NEEDED

Best of all, you can maintain your license and run workloads anywhere your team's infrastructure is located, on your workstations, servers and HPC resources that are on premises, in the cloud or in a hybrid environment.







Altair is a global technology company that provides software and cloud solutions in the areas of product development, high performance computing (HPC) and data analytics. Altair enables organizations across broad industry segments to compete more effectively in a connected world while creating a more sustainable future.

To learn more, please visit **[altair.com](https://altair.com)**



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