

ADVANCED DIGITAL MANUFACTURING IN **INDUSTRIAL APPLICATIONS**



ADM™ Design

Precision ADM offers services to help customers take advantage of the specific Advanced Digital Manufacturing technologies that would benefit them the most.

We can help you explore new design freedoms available through additive manufacturing.



ADM™ Engineering

Using Optimization, simulation, and testing software our engineers can support your design process to create parts that meet all your specifications.

Our team of engineers are specially trained to help you develop manufacturing solutions that will improve business efficiencies and ROI for your business.



ADM™ Manufacturing

Advanced Digital Manufacturing allows companies to manufacture parts with a non-traditional blend of technologies allowing them to make parts lighter, stronger, and more efficient more quickly, at a lower cost.

Because less waste is generated, our manufacturing process is better for the environment.



ADM™ Consulting

We have the right people with the right tools to help you unlock what Advanced Digital Manufacturing has to offer.

Let our industry leading team of engineers be on your side for your next R&D project.

Solving today's complex manufacturing issues using innovative engineering and Advanced Digital Manufacturing™ (ADM) solutions.

WHY ADVANCED DIGITAL MANUFACTURING?

Industrial applications using advanced digital manufacturing allows us to produce tooling, fixturing and end use parts more efficiently than ever before. Our Advanced Digital Manufacturing process can help you do just that. It starts with analyzing the client's requirements and functional specifications and using Design for Additive Manufacturing (DFAM) methods to manufacture complex components, while consolidating former complicated assemblies into fewer components. This reduces production costs through materials savings and simplified assembly, and it ultimately saves the client money. The resulting design can then be manufactured using our metal additive manufacturing (AM) / 3D printing DMLS technology or using CNC machining capabilities, we will use the right tool for the job.

AM is now being explored for unlocking its potential benefits in the Industrial sector, using Conformal cooling application, hybrid solutions for tooling and fixturing using both AM and CNC manufacturing on the same project. Applications can also range developing fixturing with in the AM builds to help with the post process machining.



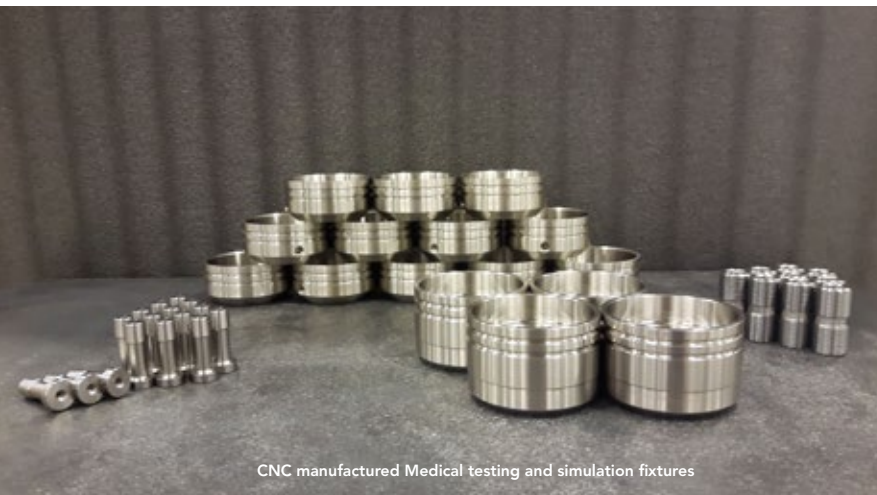
Conformal cooling parts



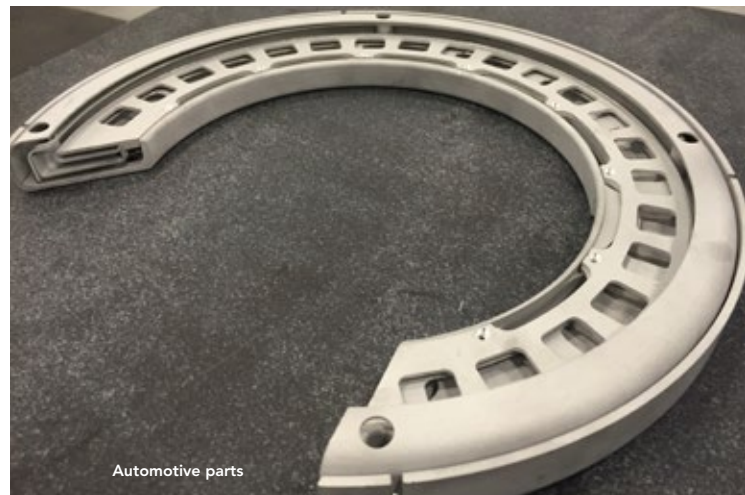
Hybrid solutions for Marine applications
(Metal AM & CNC Machining)



Rendered Conformal cooling passages



CNC manufactured Medical testing and simulation fixtures



Automotive parts

NOT SURE WHERE TO START? WE OFFER ADM CONSULTING SERVICES

Consulting for Additive Manufacturing projects can start right at the design phase, where the client's specifications are used as inputs for optimizing designs to realize the full benefits of AM. Consulting can also include researching & developing new products and creating quality systems.

We have invested in the listed software to allow us to consult on projects on a more advanced level. We have the simulation and optimization software needed to do research and development projects. Not only have we invested in the equipment and software, Precision ADM has also invested in the people to make all of these consulting services come together. Our engineers are thought of as industry leaders in the ADM. From design and engineering, all the way through manufacturing, get our engineers working for you!

- Altair HyperWorks Desktop
- Altair HyperWorks Solvers – Optistruct & RADIOSS
- Materialise 3-maticSTL
- AcuSolve CFD Solutions
- solidThinking Inspire and Evolve
- SolidWorks with Simulation Premium
- Altair SIMLAB
- Moldex3D