



Midwest Prototyping News - Aug. & Sept.



Inc. 5000 List, New Website Features

Midwest Prototyping named to Inc. 5000

**Midwest Prototyping Named to the Inc. 5000 List for the 4th
Consecutive Year**



Inc. magazine ranked Midwest Prototyping No. 4178 on its 34th annual Inc. 500|5000, an exclusive ranking of the nation's fastest-growing private companies. Representing the most comprehensive look at America's independent entrepreneurs, the list serves as an entrepreneurial benchmark of success.

"It's an honor to make the list again this year, and to make it four years in a row is definitely something I'm proud of. This is really an opportunity to recognize our whole team for continuing to work closely with our customers, educating them on the possibilities of 3D printing and then, of course, delivering when it matters most. We've built fantastic partnerships with our customers and being entrusted with their projects is the most gratifying part."

With an a three-year growth rate of 67%, this marks Midwest Prototyping's fourth consecutive year named among the Inc. 5000, a feat accomplished by less than 10% of other Inc. 5000 list members. Adding a total of 13 jobs in the last year, the company posted revenue of \$4.7 million in 2014.

Recently, Midwest Prototyping brought two additional 3D-printing technologies to its facility in Blue Mounds, Wis. Launching both professionally-focused Fused Deposition Modeling (FDM) and photopolymer jetting (Objet/Polyjet) services, the new printers make a total of 15 machines and 5 distinct technologies offered in-house, in addition to extensive urethane-casting and finishing departments.

According to *Inc.* magazine, with listed companies averaging three-year growth rates of 490% and aggregate revenue of \$205 billion, this year's Inc. 5000 is the most competitive group in the list's history. It's estimated approximately 647,000 jobs have been generated over the past three years due to the explosive growth of Inc. 5000 members.

"The story of this year's Inc. 5000 is the story of great leadership," says Inc.

President and Editor-In-Chief Eric Schurenberg. "You have to remember that the average company on the Inc. 5000 grew nearly six-fold since 2012. Business owners don't achieve that kind of success by accident."

New on midwestproto.com - Case Studies

This month we're excited to introduce a new feature on our website - case studies. A chance to showcase some of the unique advantages 3D printing can bring to a new product, we'll be giving background to the stories behind the truly innovative things being made at Midwest Prototyping.

Our first case study profiles components made for the Intercooler driver cooling system. An air conditioning system built to keep drivers comfortable and safe when racing, the Intercooler system utilizes multiple 3D printed parts for maximum efficiency on and off the racetrack. To learn more, click [here](#), or on the button below.

[Learn More](#)

Be sure to check back to the [Case Studies page](#) as we periodically update it with more examples of the incredible ways additive manufacturing is being used in the real-world. Of course, to see any of these products in-person or learn more about Midwest Prototyping, feel free to contact us and set up a tour.



Case Study #001: Intercooler Blower System Race Car Driver Air Conditioning System Components

When it comes to racing, there's really only one rule that matters - be the fastest car on the track. How racing teams make that happen varies, but one thing remains constant: for optimum performance, the vehicle weight must be kept to a minimum. Enter: custom components, precision manufacturers with a single goal: "to provide the lightest, most compact, most power dense, and most efficient racing products on the market".

Dedicated to improving the products surrounding driver comfort and breaking safety, custom components exist to manufacture the air conditioning system design in 3D. When drivers decided that the best option all the time (being that it's the best) was the best option, the demand needed for custom air conditioners had to change. Working with racing teams, custom components developed the intercooler system: lighter, and able to withstand the high environment of automotive racing - all made possible by the advantages of additive manufacturing.

Today, the intercooler system and its 3D printed components can be found on over 50 racing teams, from independent professionals to NASCAR championship contenders. As designs and demand change over time, Midwest Prototyping continues to work with custom components to provide high-quality, innovative products, dedicated to maximizing the ever-expanding benefits of additive manufacturing.



Complexity is No Concern

The intercooler blower system requires numerous complex components working together at all times. Selective laser sintering breaks the rules of traditional manufacturing complexity to design in ways that are, with incredible efficiency, more production. In this particular case, these intercooler components have four separate pieces with unique geometries required for proper air flow and system integration, while maintaining maximum design efficiency. Such efficiency has led to a product nearly 5 pounds lighter than the competition.



Rugged Durability

Race teams depend on excellence in performance with every day, high temperature, repeated impact and sustained gravitational forces can quickly create an inoperable environment on board a race car. Components constructed with selective laser sintering can withstand a wide variety of environmental extremes, including retaining their structural form and function in the harshest of conditions.



High Quality and Specific Quantity

Each component is custom printed in ultrahigh quality - they're sold at low volume. For customer looking for smaller quantities, in this case, additive manufacturing allows for design iteration and production to intercooler components without the need for costly tooling, as each specific level of demand, this provides advantages both on and off the racetrack.

We've got you covered!

Staying up-to-date with 3D-printing and industry news is difficult. Luckily, we have you covered. Visit us online to receive the latest industry and company news - it begins here!



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