

CUSTOM WHEEL MANUFACTURER FORGES AHEAD IN TECHNOLOGY AS ONE OF THE FEW COMPANIES MANUFACTURING CUSTOM WHEELS ENTIRELY IN-HOUSE

There could not be a better location for a custom Performance Wheel Manufacturer than Miami, FL.

Vossen Wheels, founded in 2007, is one of the few companies in the world which both engineer and manufacture custom wheels, all in-house. From engineering, to manufacturing, to finishing - the custom wheels are all handcrafted in-house with the customization to be expected for the luxury automobile market.



As you walk through the Vossen Forged Factory, you will see CNC machines carefully selected to enable a custom wheel to be machined with smooth finishes and accurate cuts. Each of the wheels produced in the Vossen Forged Factory are a one-of-a-kind product that requires engineering and machining specific to the customer. While most manufacturing shops are focused on mass production, Vossen Wheels is in a league of their own, as they are both a designer and manufacturer of individual and custom wheels.

The customization process is unique and intricate - going over and beyond the common machining techniques that most forged wheel manufacturers utilize. Vossen Wheels will not compensate quality and custom designs for mass production. Instead, Vossen Wheels begins in engineering, where measurements are taken from over 100 data points of the car - assuring that each wheel is made specifically for each vehicle and model.

After the CAD models are tested, the next step is manufacturing. The manufacturing process is the most crucial undertaking. The machining process confirms that they are an innovator in the industry. To obtain their reputation, the manufacturing consists of an eight-step process. Before the process begins, they start with the most superior raw material. Forged wheels are made of aerospace-grade 6061-T6 aluminum. The milling process requires a CNC mill that can remove as little as 0.02" of material per pass to achieve the utmost precision.



Their process had a need for a mill that can accomplish the desired cut while machining an entire wheel all in one machine. Vossen Forged Wheels utilizes both YCM and a competitor mill in their shop. They were familiar with the capabilities and features of both mills. They were experiencing too much downtime with the competitor, with frequent repairs. Reliability and quality were major factors which they needed to take into consideration with their next machine investment.

U Tech CNC, has been a standing service and repair partner for Vossen Wheels. In addition to meeting their service needs, U Tech CNC has been their trusted supplier for CNC solutions. U Tech Sales Engineer, Charlie Espinal has been supporting Vossen Wheels for some time and knew the exact model that would accomplish their machining needs. Charlie presented them with the YCM NXV 1380A. The YCM NXV series is a high-productivity, general purpose vertical machining center. The 30" travel on the Y axis would allow Vossen Wheels to machine bigger wheels that require 26" travel on the Y axis - which was an important factor in the selection of this model.

"The YCM NXV model has delivered great results! We have had a 15% faster cycle time and surface finishes are great!" - Al Williford, Production Manager

The YCM NXV 1380A has been in use for over a year now. Vossen Wheels has experienced a smooth production with no downtime. The cycle time is now 15% faster than the prior mill that it was being machined on. They have not sacrificed quality or precision for their custom forged wheels. The Fine Surface Setting Technology and Fast Cycle Time Technology package on the YCM MXP-200FB+ CNC control allows Vossen Wheels to achieve outstanding surface finishes and faster cycle times to meet the customer's demands and superior quality on their wheels that they deliver to their customers.

"Working with U Tech's Sales and Service Team has been great. Charlie's follow-up after the installation of our YCM NXV model has been superior!"
- Al Williford, Production Manager



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