



NIKOLA MOTOR INVESTS IN A BIGREP PRO TO HELP LEAD THE FUTURE OF SUSTAINABLE HEAVY-DUTY TRUCKING

Nikola Corporation, a technology disruptor and integrator working to develop innovative energy and transportation solutions, has invested in the BigRep PRO, a large-format FFF additive manufacturing system, to streamline the design and manufacturing processes of their zero-emission battery-electric and hydrogen fuel-cell electric vehicles, electric vehicle drivetrains, vehicle components, energy storage systems, and hydrogen station infrastructure.

BigRep, the global leader in large-format additive manufacturing (AM) technology and solutions (FFF segment) is renowned for developing next-generation, German-engineered AM systems like the BigRep PRO.

Specializing in industrial solutions for innovative manufacturers like Nikola and advanced AM applications, BigRep and Nikola are an ideal match based on their reputation for delivering innovative technologies.

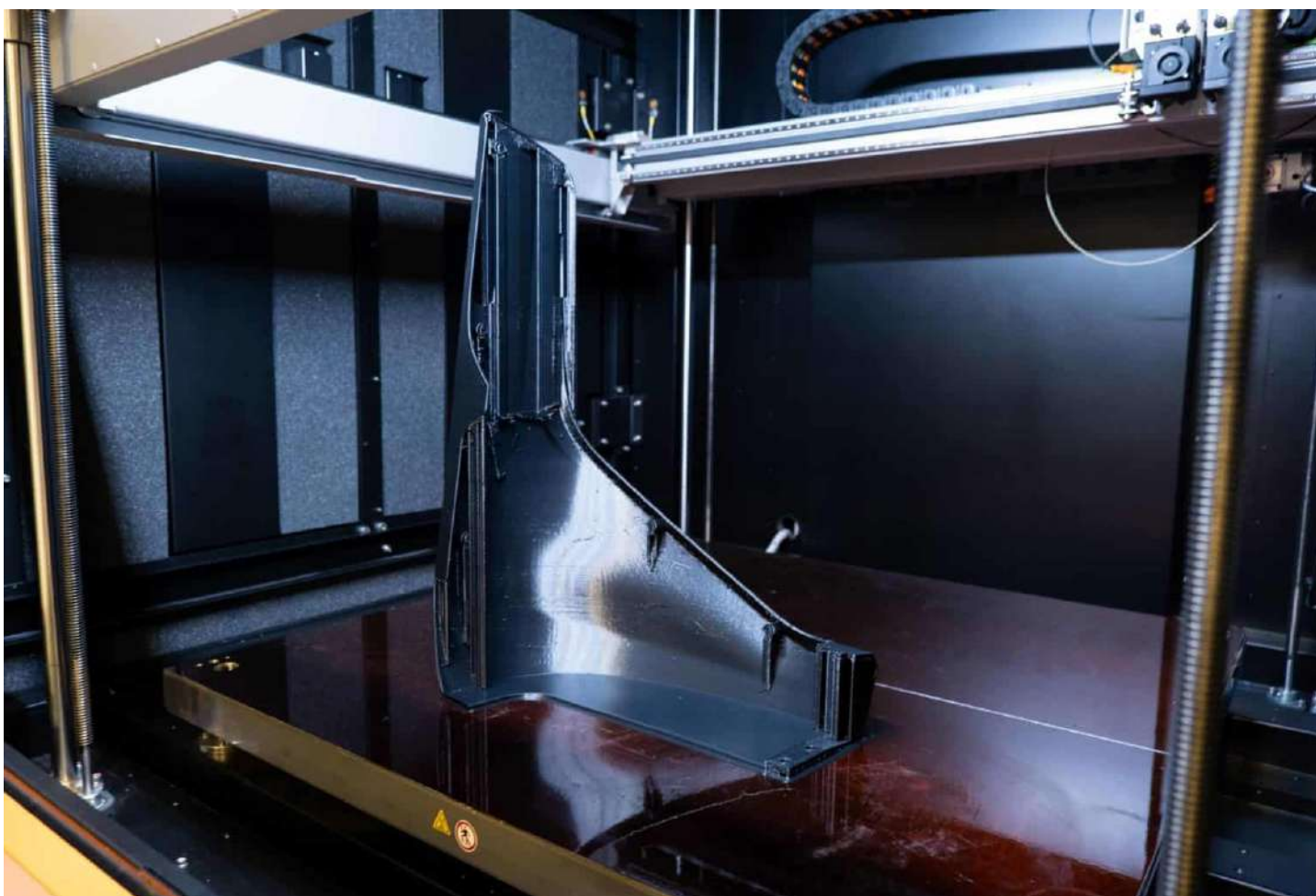
The BigRep PRO is changing how industry leaders like Nikola consider additive manufacturing. Integrating AM into design and manufacturing processes opens the door for process improvements, product design optimization, and modern operation efficiencies.



Nikola Motor Invests in a BigRep PRO

As with Nikola, who acquired their PRO through California-based reseller Saratech, AM is now able to play a key role in developing the future of freight transport, supported by BigRep's unique technology and portfolio of high-quality engineering-grade materials – developed through BigRep's close relationship with BASF.

"At Nikola Corporation, our vision is to become a global leader in zero-emissions transportation – and innovation plays a significant role in making that happen. We selected the BigRep PRO for its large-format build volume, third-party filament compatibility, and state-of-the-art Bosch-Rexroth CNC control systems," said Technical Operations Manager of Nikola Corporation, Riley Gillman. "The first prints that we ran lasted 17 days. Since then, we have been pretty much running the PRO non-stop to help us print parts and components using its large capacity of printing, high resolution, and accuracy throughout the entire process."



Nikola relies on the BigRep PRO to 3D print assembly, weld, and Coordinate Measuring Machine (CMM) inspection fixtures, which all require a high level of precision.

In addition, the PRO is producing test components for fit checks on the company's vehicles and manufacturing some end-use parts.

"We are excited to be working with Nikola Corporation by providing both BigRep industrial 3D printing systems and our expertise in innovative applications," says Frank Marangell, BigRep CBO and President of BigRep America. "The variety of applications Nikola is printing illustrates the PRO's flexibility and high-performance potential in demanding industries like automotive. Nikola has joined a roster of other automotive industry leaders who benefit from our flagship system's unprecedented speed, precision, and reliability that make it the perfect choice for cutting-edge AM applications."



The BigRep PRO is specially designed for 3D printing both large-format and low-yield production parts required in high-performance applications across the automotive, aerospace, and other industries.



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The BigRep PRO features a building envelope of almost one full cubic meter and is equipped with a state-of-the-art Bosch Rexroth CNC motion control system delivering IoT connectivity to fully integrate with Industry 4.0. To create the perfect balance of speed and resolution, BigRep offers two varieties of extruders for the PRO, the Advanced Capability Extruder (ACE) and the BigRep MXT®, its proprietary Metering Extruder Technology. A large, airtight filament chamber allows for continuous printing with engineering-grade filaments like PA6/66, ABS, ASA, fiber-filled, and more. The PRO operates using BigRep's BLADE slicer software, which provides accurate printing time and material use calculations for optimized productivity, as well as simple tools for easy batch and mirror printing.

bigrep PRO

A TRULY INDUSTRIAL 3D PRINTING EXPERIENCE

A large-format 3D printer designed for high productivity in industrial manufacturing environments. It's an additive manufacturing system with the speed and reliability to supercharge your production with high-quality industrial parts.



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