AUTOMOTIVE

stratasys

ADDITIVE MANUFACTURING FOR AUTOMOTIVE

ACCELERATING VEHICLE DEVELOPMENT

THE **3D PRINTING SOLUTIONS** COMPANY™

AUTOMOTIVE

From Design Studio to Factory Floor

SHAPING THE WAY CARS ARE IMAGINED, DESIGNED AND DEVELOPED

For more than a quarter century, Stratasys has been the trusted leader in the 3D printing industry with the largest installed base of 3D printers in the world. Our solutions empower automotive manufacturers to reduce investment and part costs; maximize assembly line efficiency; reduce the weight of production tools; and stay one step ahead of industry challenges.

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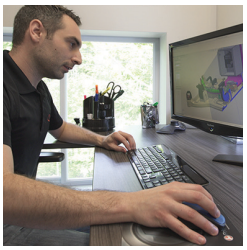
With 3D printing, we not only achieve significant time savings, but also considerable cost savings.

Sascha Holl, Opel

VIRTUAL SIMULATION ENGINEER

Opel uses 3D printed production tools, reducing costs and drastically shortening design time.

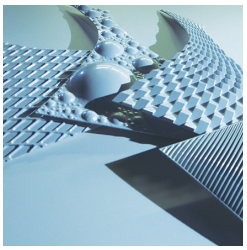


OPTIMIZED DESIGN

Test and revise designs quickly and cost-efficiently with Stratasys 3D Printers. Accelerate product development and make better-informed decisions earlier, with accurate, functional prototypes that allow for immediate iteration.

SHAPING THE NEXT GENERATION OF MANUFACTURING

Stratasys technologies empower you to streamline production despite increasing complexity in automotive components. Lighter-weight jigs and fixtures — in previously difficult geometries — enhance ergonomics and productivity. Built quickly, low-volume tooling shrinks the cost and risk inherent in traditional production, while providing the agility to embrace more opportunities. And 3D printed production parts offer true just-in-time manufacturing, supporting lean initiatives and reducing inventory and obsolescence.



POWERFUL AND DIVERSE MATERIALS

Stratasys offers a wide range of 3D printing materials for demanding automotive requirements — from clear and rubberlike photopolymers for realistic scale models, to production-grade thermoplastics that stand up to rigorous real-world testing. Our additive material solutions include a powerful and diverse range of material properties such as heat resistance, flame retardance, high strength and transparency. The Stratasys Advanced Materials Center offers collaborative development of custom materials to give your company a unique competitive edge.

EXPERT UNDERSTANDING OF THE AUTOMOTIVE INDUSTRY

Stratasys has invested significant resources into developing technology specific to the automotive industry and has the expertise to stay on top of the industry's changing needs. When you partner with Stratasys, you benefit from the knowledge, accomplishments and global experience of our dedicated automotive team. Combined with our history of transformative 3D printing technology, this ensures our solutions meet your specific business challenges.

stratasys® | THE **3D PRINTING SOLUTIONS** COMPANY™

THE POWER OF 3D PRINTING

APPLICATIONS	KEY BENEFIT	STRATASYS SOLUTION	DELIVERING VALUE
Rapid Prototyping	Accelerate the product development process	– High-performance FDM thermoplastics for real-world testing – PolyJet photopolymers offer fine detail and unmatched product realism – Multi-material and multi-color capabilities with PolyJet technology – Eight additive technologies available through Stratasys Direct Manufacturing services	– Complete more design iterations in less time – Verify parts in real time – Validate designs before investing in costly tooling – Communicate ideas and gain feedback with physical models
Jigs and Fixtures	Improve production efficiency	– Tough, durable FDM thermoplastics that withstand rugged manufacturing environments – Ability to combine many material properties in one part, such as rigid and flexible, or opaque and transparent	– Cost-effectively manufacture parts and eliminate expensive tooling – Reduce weight of jigs and fixtures – Move quickly from prototype to final product – Customize for individual operator and/or to specific applications – Create tooling on demand – Revise tooling easily
Tooling	Increase manufacturing agility	– Production-grade thermoplastics offer specialized properties like electrostatic dissipation, UV resistance and V0 flammability – ULTEM 9085 resin for high strength-to-weight ratio	– Streamline production by 3D printing parts in hours or days – Customize on the fly for optimized designs – Create prototypes from the same process and materials that you'll use for the final product – Reduce fixed costs of tooling
Production Parts	Eliminate constraints of traditional manufacturing with low-volume production parts	– Tough, durable FDM thermoplastics that withstand rugged manufacturing environments	– Reduce costs by eliminating expense of tooling, set-up and changeovers – Achieve geometrically complex parts, including hollow interiors and negative draft – Improve flexibility and customization

For more information on how Stratasys 3D Printing solutions can empower automotive manufacturers and suppliers, contact:

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ISO 9001:2008 Certified

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