



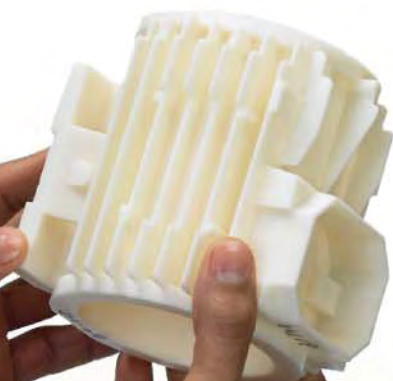
**REAL PARTS
MEAN REAL
POSSIBILITIES**

FORTUS™
3D PRODUCTION SYSTEMS

From prototype to production, Real Parts™ deliver real benefits.

Real Possibilities.

Every Fortus™ 3D Production System is capable of producing complex Real Parts. Prototypes that perform just like the final product. Complex assemblies that require no assembly. Up to thousands of end-use parts built for less than the tooling cost of one. Whatever you imagine, a Fortus 3D Production System helps you make it real.



Production-Class Versatility.

Only Fortus systems have the versatility to produce Real Parts: thermoplastic parts with the strength, durability, accuracy and function of traditionally manufactured parts, except they're from machining or tooling. Fortus 3D Production Systems use FDM® (fused deposition modeling) technology to turn your 3D CAD files into everything from functional prototypes to specialized manufacturing tools to end-use parts. Since they're all Real Parts built with production-grade materials, they'll last for years, not days, performing just like traditional parts under real-world conditions. And only Fortus systems give you higher duty-cycles and 24/7 reliability to make direct digital manufacturing a reality.

Real Parts. Real Possibilities.

A Fortus system frees you from traditional design and manufacturing limitations. You can pursue a great idea through dozens of design iterations, and functionally test each one. You're no longer forced to "design for manufacturing." A Fortus system can produce durable end-use Real Parts with geometries that are too complex to affordably produce by traditional methods. Fortus systems open new worlds of innovation while reducing costs, streamlining your operations and accelerating your time to market.

At the core: Advanced FDM technology

Fortus Systems are based on patented Stratasys FDM — Fused Deposition Modeling — technology. FDM is the industry's leading Additive Fabrication technology, and the only one that uses production grade thermoplastic materials to build the most durable parts. Fortus systems use the widest range of advanced materials and mechanical properties so your parts can endure high heat, caustic chemicals, sterilization, and intense mechanical stresses.

1 Pre-Process.

Powerful Insight™ software prepares CAD data for the Fortus build process. Insight automatically generates support structures and build paths, and Insight's advanced features can adjust build and material parameters for advanced applications and faster build times.

2 Manufacture Part.

Inside the Fortus system's build envelope, dual extrusion heads deposit liquefied build and support material following precise paths calculated by Insight. Parts are built layer-by-layer from the bottom up.

3 Remove Supports.

Temporary support structures are easily removed. Soluble support material dissolves away in a water-based solution. Break-away support simply snaps off. The part is then ready for sanding, soda blasting, painting, plating and other finishing or usage.

FORTUS 3D PRODUCTION SYSTEMS ADD EFFICIENCY THROUGHOUT YOUR DESIGN & MANUFACTURING PROCESS



Conceptual Models

Physical models help engineers and designers easily communicate, evaluate and optimize product design. Fortus systems give you the ability to quickly produce physical models without the time and cost associated with machining or outsourcing. This allows you to communicate and evaluate multiple designs and numerous iterations to improve the final product design. Easily test form and fit to solve design problems early when they are much less expensive to fix.

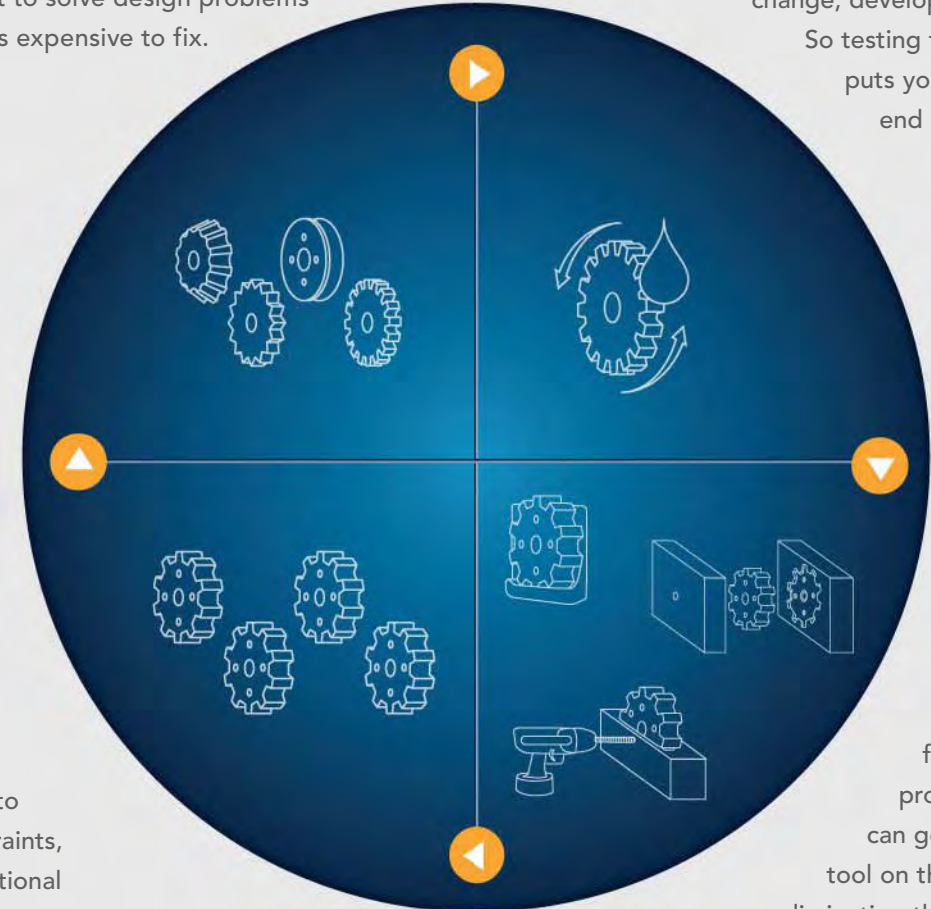
Logitech created a number of concept models on their Fortus system. The models helped engineers evaluate the part design and improve part strength 273% for a Bluetooth headset.



Functional Prototypes

Prototypes produced from any of the various production-grade thermoplastics on a Fortus system are virtually identical to the final product. Same geometry. Same accuracy. Same production-grade thermoplastics. Using a Fortus system to build functional prototypes lets you find problems and prove out design early before the costs of change, development and production rise. So testing form, fit and especially function puts you much closer to a higher-quality end product.

For this and other commercial sprinkler projects at Toro, over two years Fortus systems helped reduced product-development time by 283 weeks — and saved \$500,000.



End-Use Parts

Fortus systems are built to handle the stress of nonstop production and parts are robust enough to handle the rigors of end-use. With a Fortus system, design and manufacturing engineers are free to optimize designs since the constraints, lead time, and expense of traditional tooling and machining are no longer applicable. If traditional tooling is required, Fortus systems are an excellent solution to start production before tooling is ready.

Klock Werks uses direct digital manufacturing to build custom motorcycle parts on their Fortus system, saving nearly \$13,000. FDM parts cost less than a quarter the price of injection molding or casting.



Manufacturing Tools

Fortus systems work well when used to produce robust manufacturing tools such as jigs, fixtures, tooling masters and even production tooling. Your team can go from concept to working tool on the floor in hours versus days eliminating the cost and time associated with outsourcing and expensive machining. Fortus systems give you the ability to put more tools on your production floor to ensure faster, easier and more precise manufacturing.

At BMW, costs for producing manufacturing tools dropped significantly when engineers started producing tools with Fortus systems.

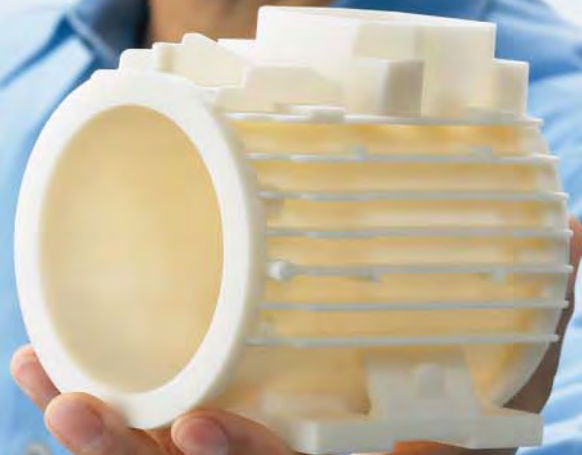


The Global Leader & Industry Pioneer

Fortus™ 3D Production Systems are part of the more than 11,000 Stratasys FDM additive fabrication (AF) systems installed around the world. Stratasys is not only the worldwide leader in additive fabrication systems, it also invented the industry's leading AF technology: FDM® Fused Deposition Modeling. Twenty years later, Stratasys is a \$120-million-plus manufacturing success story with over a 44% share* of the additive fabrication market. The ease of use, minimal facility requirements and low cost of initial purchase and operation combined with its' robust, accurate, and stable output in production-grade thermoplastics have made FDM the AF technology of choice for thousands of companies worldwide — companies that depend on Stratasys to help them make their ideas real.

MAKE IT
REAL

*Wohlers Report 2008



Fortus 3D Production Systems
Stratasys Incorporated
7665 Commerce Way
Eden Prairie, MN 55344
+1 888 480 3548 (US Toll Free)
+1 952 937 3000
+1 952 937 0070 (Fax)
www.stratasys.com
info@stratasys.com

Fortus 3D Production Systems
Stratasys GmbH
Weismüllerstrasse 27
60314 Frankfurt am Main
Germany
+49 69 420 9943 0 (Tel)
+49 69 420 9943 33 (Fax)
www.stratasys.com
europe@stratasys.com

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