Precision and Possibilities

Explore Stratasys[®] F Series Applications



See What's Possible

With the Stratasys F123 Series, the possibilities are nearly endless. From complex final parts to simple economical prototypes, the F123 Series can provide you with the fast, repeatable accuracy you need to power your business forward. This sampling of applications is just a taste of what can be achieved.



Note: F120 and F770 are only enabled to print ASA lvory and ABS-M30 Black.





End Effector (Extension Fixture)

ABS-CF10 | Manufacturing Aid

Strong, stiff and lightweight, ABS-CF10 carbon fiber material is well suited for high-use parts that require durability such as this robotic arm extension fixture.

Note: This part uses ABS-CF10 and can only be printed on the F170[™], F270[™] and F370[™].









ABS | Blue

Offering a range of colors and hands-free soluble support, ABS allows you to iterate complex designs for detailed applications like this robot.

Electric Enclosure

ABS-ESD7[™] | Black

The durable and electrostatic-dissipative properties of ABS-ESD7 make it an ideal choice for electronic components such as this electric enclosure.



UTV Gearbox Prototype

ASA | Ivory

Offering high mechanical strength, production-grade quality and UV stability, ASA printed on the F123 Series is well-suited for form and fit testing of automotive prototypes.







Rocket

PLA | Red, White, Blue, Black

Printing in fast-draft mode on the F123 Series, PLA allows for translucent parts and economical design options — making it well-suited for early concept models or educational projects.







Race Car Hood

ABS-M30 | Prototype

Using FDM technology with ABS-M30 material enables you to achieve large custom designs like this hood vent with improved part performance and productivity.



Sheet Metal Brake Forming Tools

Diran | Grey

Due to the lubricity of the forming tools 3D printed with Diran[™], sheet metal brake parts easily bend and flow into shape.











Outlet Cover

ASA | Ivory

As a material that offers UV resistance and strength, ASA is ideal for outdoor-use production parts like this outdoor outlet cover.



Hand Truck Tire Prototype

FDM TPU 92A | Black

The durable elasticity of FDM[®] TPU 92A[™] makes it a good choice for a wide variety of large and complex, rubber-like applications, including this tire prototype.







Planetary Gear

QSR Soluble Support + ASA | Yellow

By combining ASA and QSR Soluble Support[™], you can create intricate parts with working components, like this planetary gear system, in one print.





Snowmobile Ski

ASA | Functional Prototype

Offering mechanical strength, UV resistance and aesthetics, ASA printed on the F770[™] 3D printer works well for large prototypes meant for heavy outdoor use.

Note: Due to size, this part can only be produced on the F770 3D printer.



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Band Saw Angle Cutting Fixture

PC-ABS | Ivory

Strong and durable, PC-ABS (polycarbonate-ABS) is a high-impact engineering thermoplastic that's ideal for tooling applications such as this band saw angle cutting fixture.





Golf Putter Casting Pattern

ASA | White

ASA's production-grade quality and ease of use make it well-suited for iterative design such as the refinement of casting patterns.







Rack & Pinion Prototype

Diran + ASA | Yellow

The smooth surface finish provided by Diran in combination with the color options and production quality provided by ABS, is a great choice for creating functional prototypes that demonstrate to stakeholders how finished products will actually work.







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Camera Lens Cover

QSR Soluble Support + ASA | Black

By combining ASA and QSR Soluble Support, you can create intricate parts with working components in one print — like this camera lens that can be opened and closed in one quick twist.







Switch Housing

PC-ABS | Black

Strong and durable, PC-ABS is ideal for functional and end-use parts in manufacturing, such as this custom-built switch housing for a water jet cover.



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Appliance Base

ABS-M30 | Prototype

This large prototype part printed in ABS-M30 was used to validate the fit of a clothes dryer base design. This type of prototype demonstrates the F770's capability to print large parts with thin walls and complex features.

597 mm

36


Replacement Parts

Diran | Grey

The exceptional toughness, hydrocarbon-based chemical resistance and lubricity of Diran make it an ideal choice for replacement parts like this small machine component.





Extruder Head Assembly Jig Holder

ASA + FDM TPU 92A | Yellow

The high mechanical strength and productiongrade quality of ASA in combination with the rubber-like texture of FDM TPU 92A creates a durable, non-marring surface for assembly fixtures.













Shock Absorber Working Assembly

ABS | Red

Durable enough to perform virtually the same as production parts, ABS was ideal for prototyping this shock absorber.



Polaris Fixture

FDM TPU 92A | Black

Combining flexibility and stretch with abrasion and tear resistance, FDM TPU 92A is ideal for demanding manufacturing applications such as this assembly fixture.







Car Fender

ABS-M30[™] | Prototype

When reliability and accuracy are required, ABS-M30 printed on the F770 3D printer delivers large parts with complex geometries and tight tolerances.

Fender prototype painted for aesthetic purposes.

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Note: Due to size, this part can only be produced on the F770 3D printer.









Air Duct Plenum

ASA | Grey

Offering high mechanical strength and production-grade quality, ASA is well-suited for decreasing the time and cost it takes to create complex, end-use parts.

Start Achieving Reliable Results

Visit Stratasys.com for more information about the F123 Series.



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