



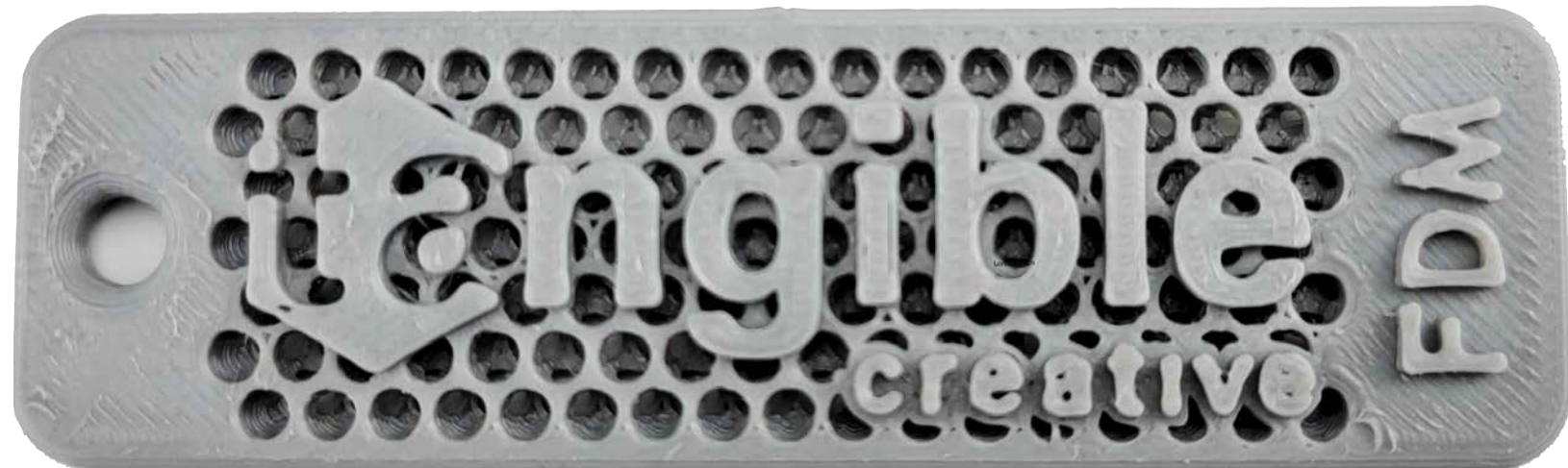
tangible creative

3D Printing and Industrial Design

3D Printing Services



Stereolithography creates 3D prints by curing layers of resin. With its smooth, high-resolution texture, SLA 3D prints can be sanded, painted, and clear-coated for a beautiful appearance. Resin is not as tough as other materials and therefore should not be used for parts requiring durability.



Fused Deposition Modeling creates 3D prints by extruding layers of filament. FDM is generally lower cost with faster turn around times than other methods. It is therefore ideal for large production jobs with tight deadlines. Plant based materials such as PLA can be used for FDM 3D Printing. As a result it is the most sustainable additive manufacturing practice.



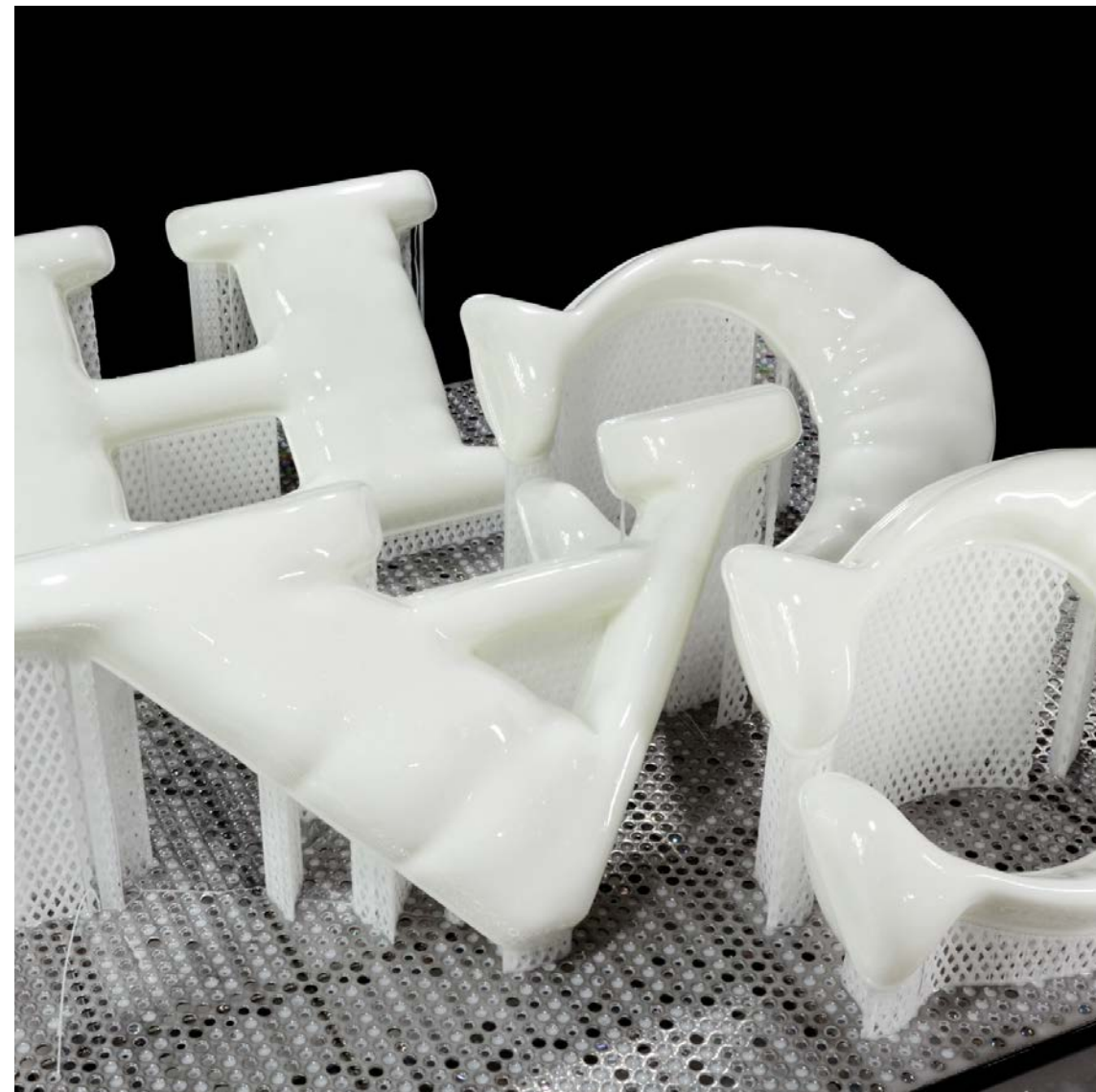
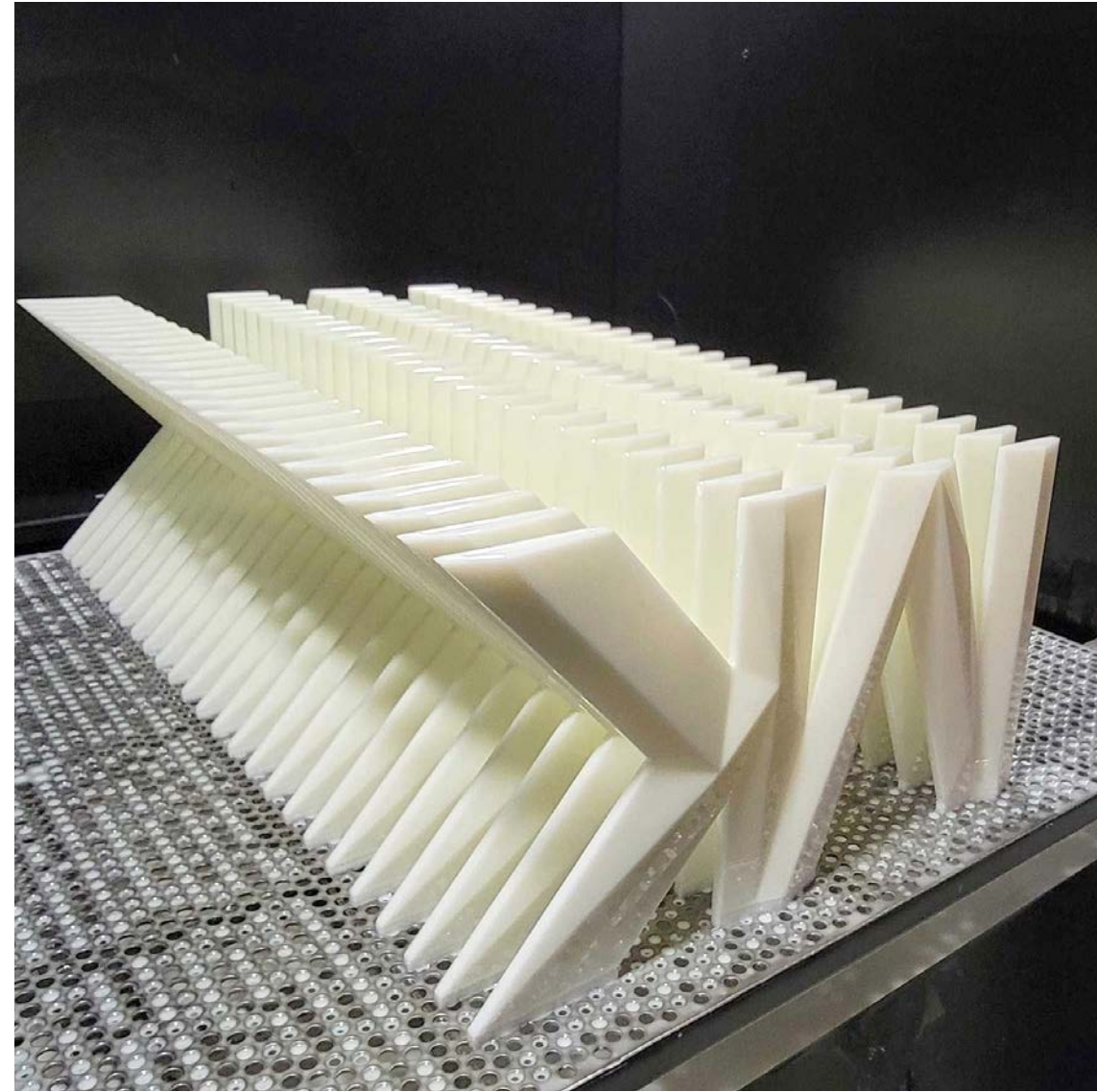
Selective Laser Sintering creates 3D prints by fusing layers of nylon powder. Because the powder acts as its own support, this method of 3D printing is ideal for parts with complex forms and drastic overhangs. As a result SLS 3D prints can be used for a wide variety of functional parts and has a textured finish.

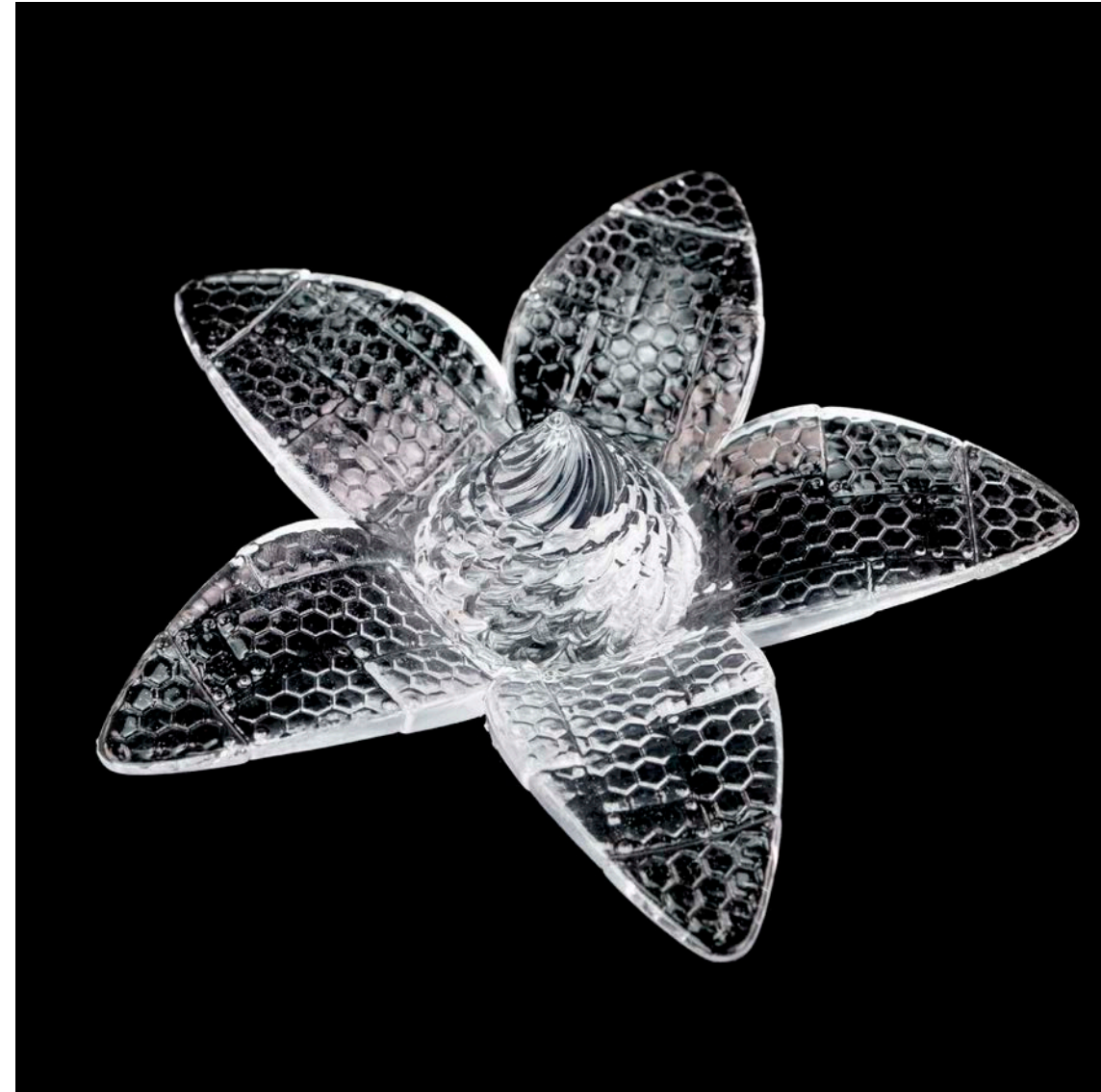


Color Jet Printing creates 3D prints using gypsum powder. Similar to the process of creating casts and objects with plaster, the CJP machine infuses the gypsum with an adhering glue and color pigments to create full spectrum colored 3D prints. The final texture is similar to SLS prints due to the powdery finish and texture. CJP prints can be coated in gloss or matte, to bring out the colors within the 3D prints.

SLA (Stereolithography)

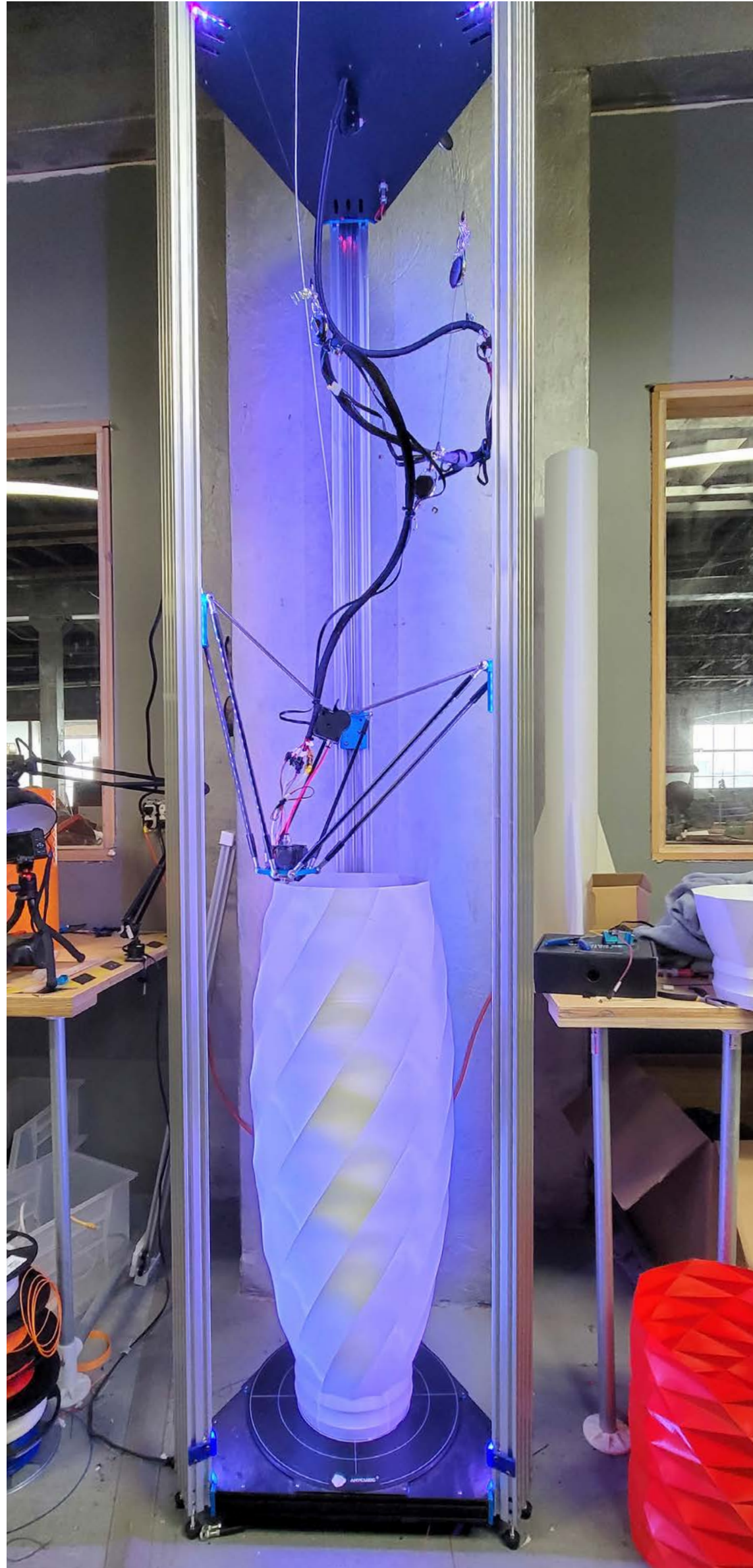






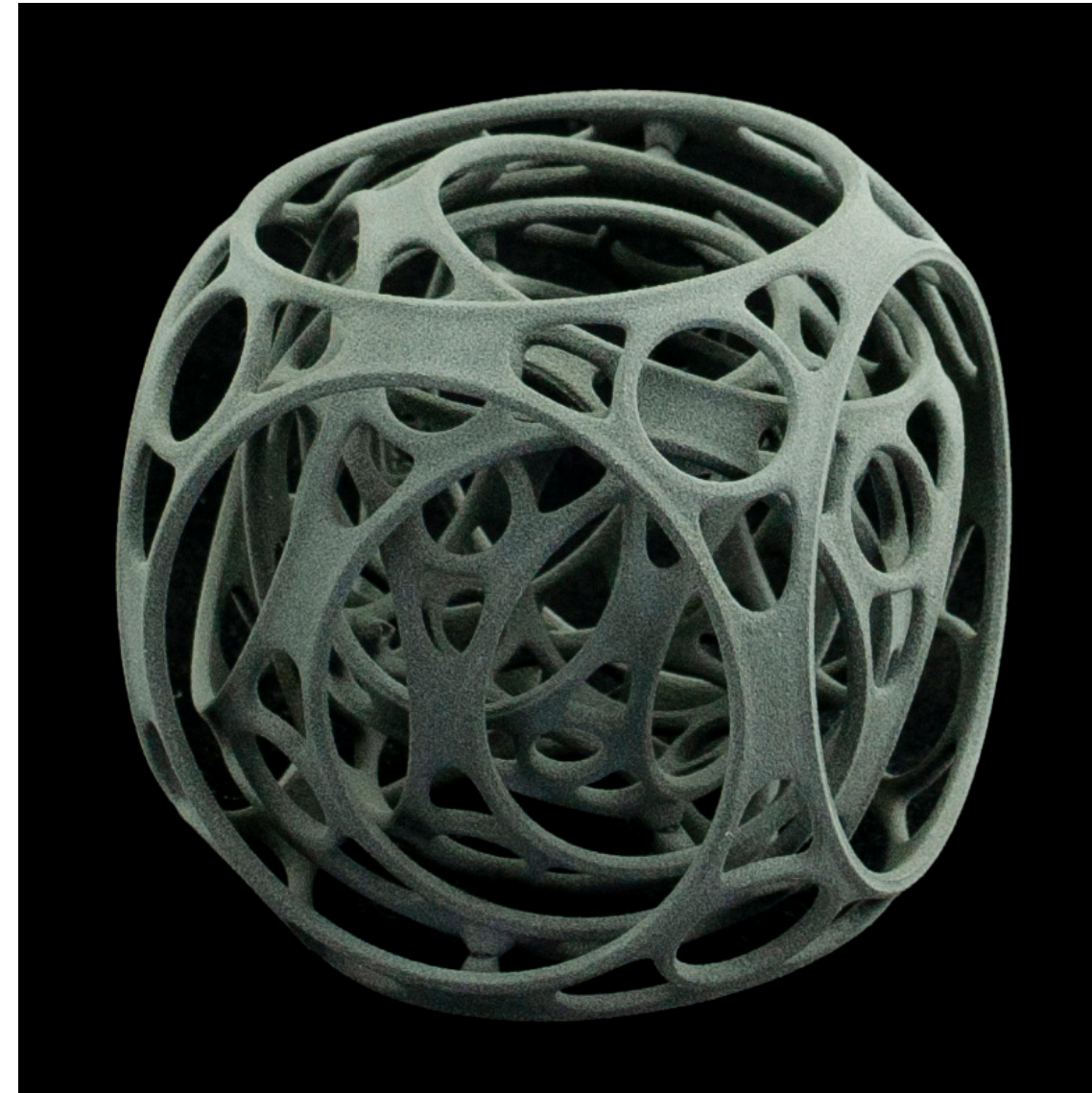
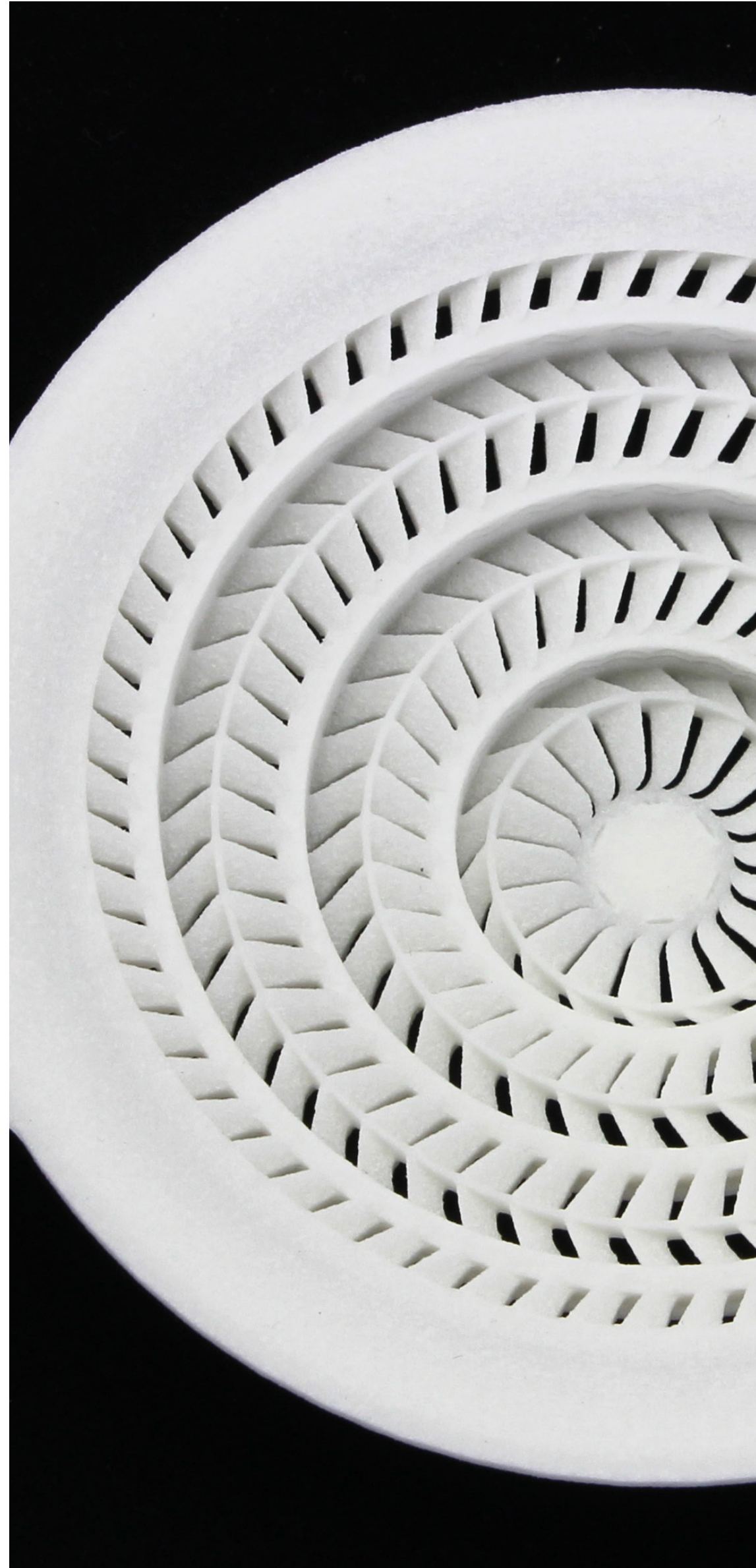
FDM (Fused Deposition Modeling)



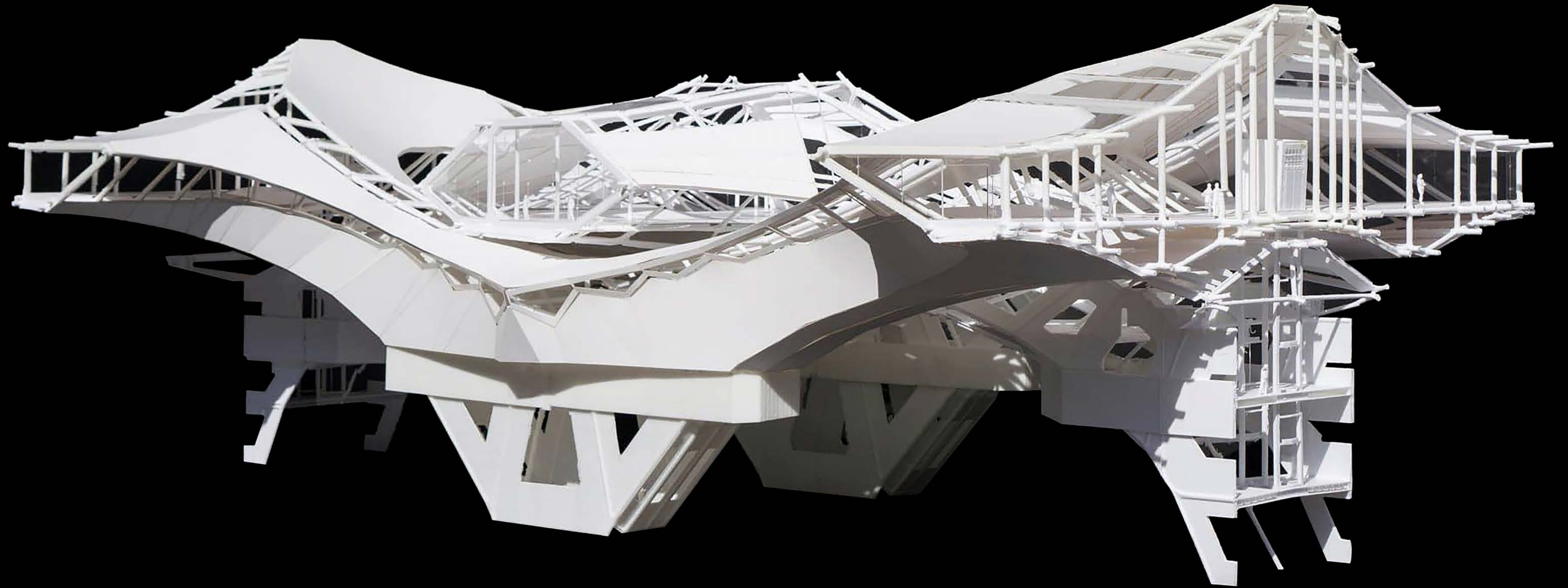


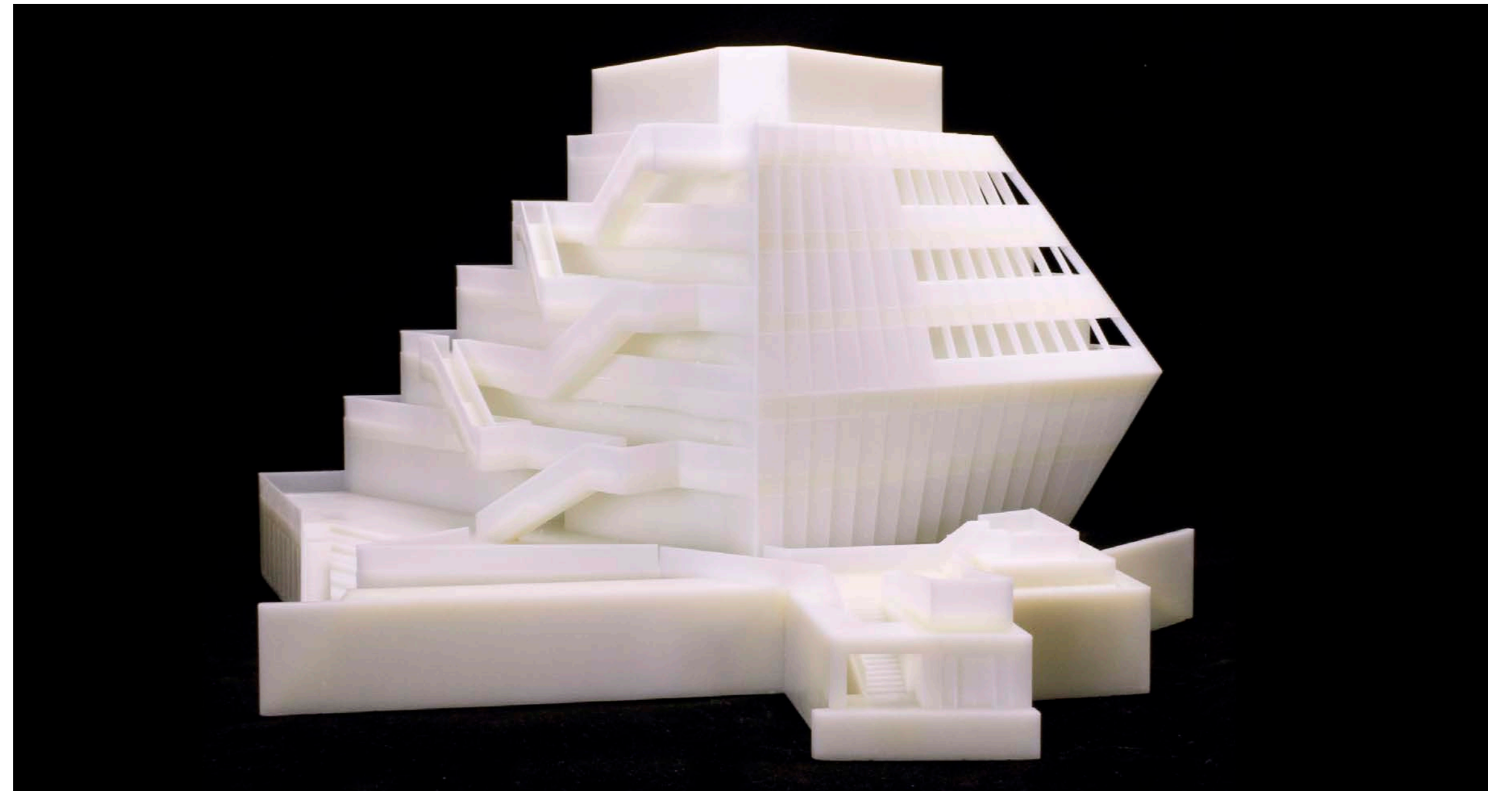
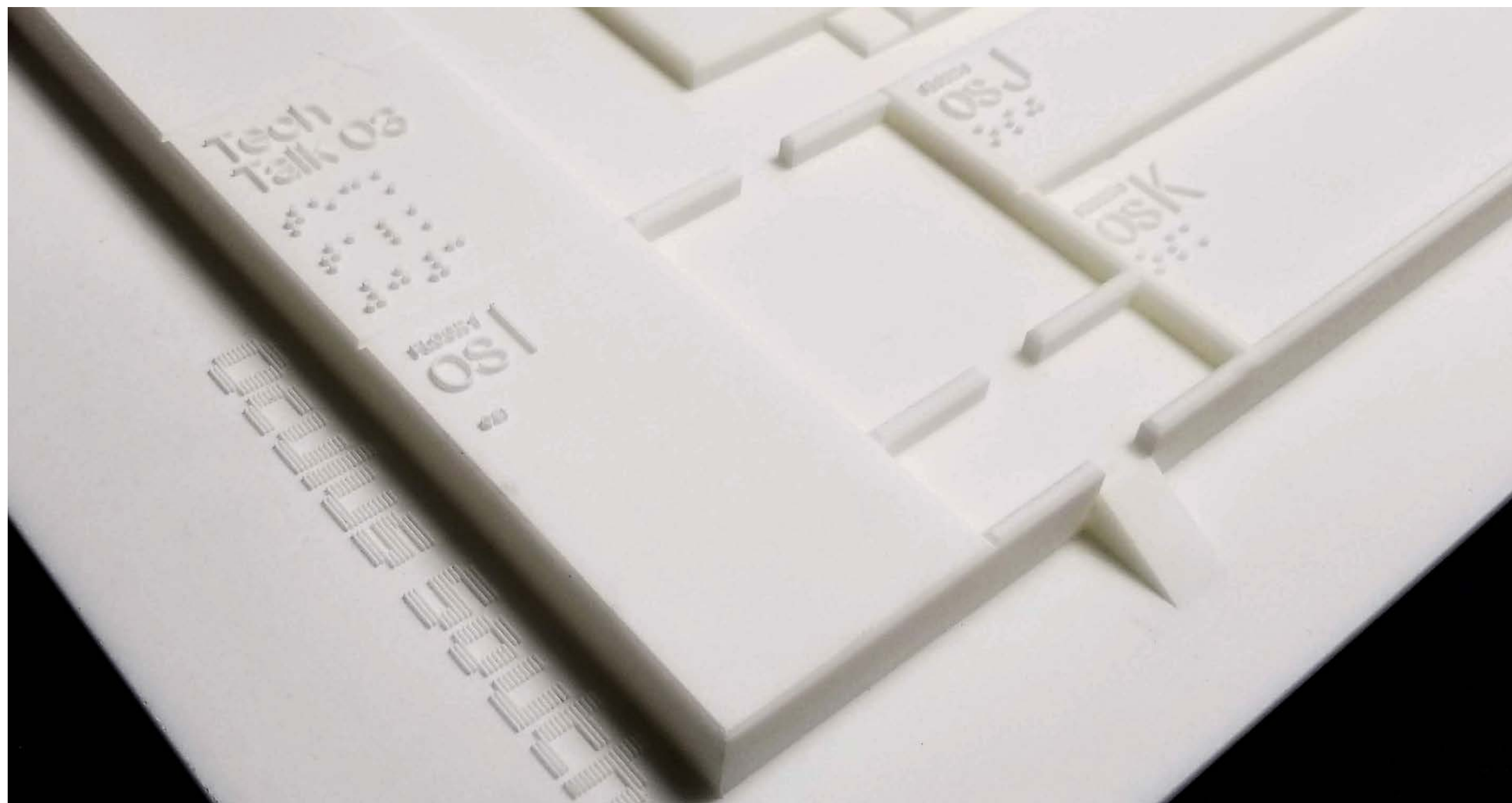
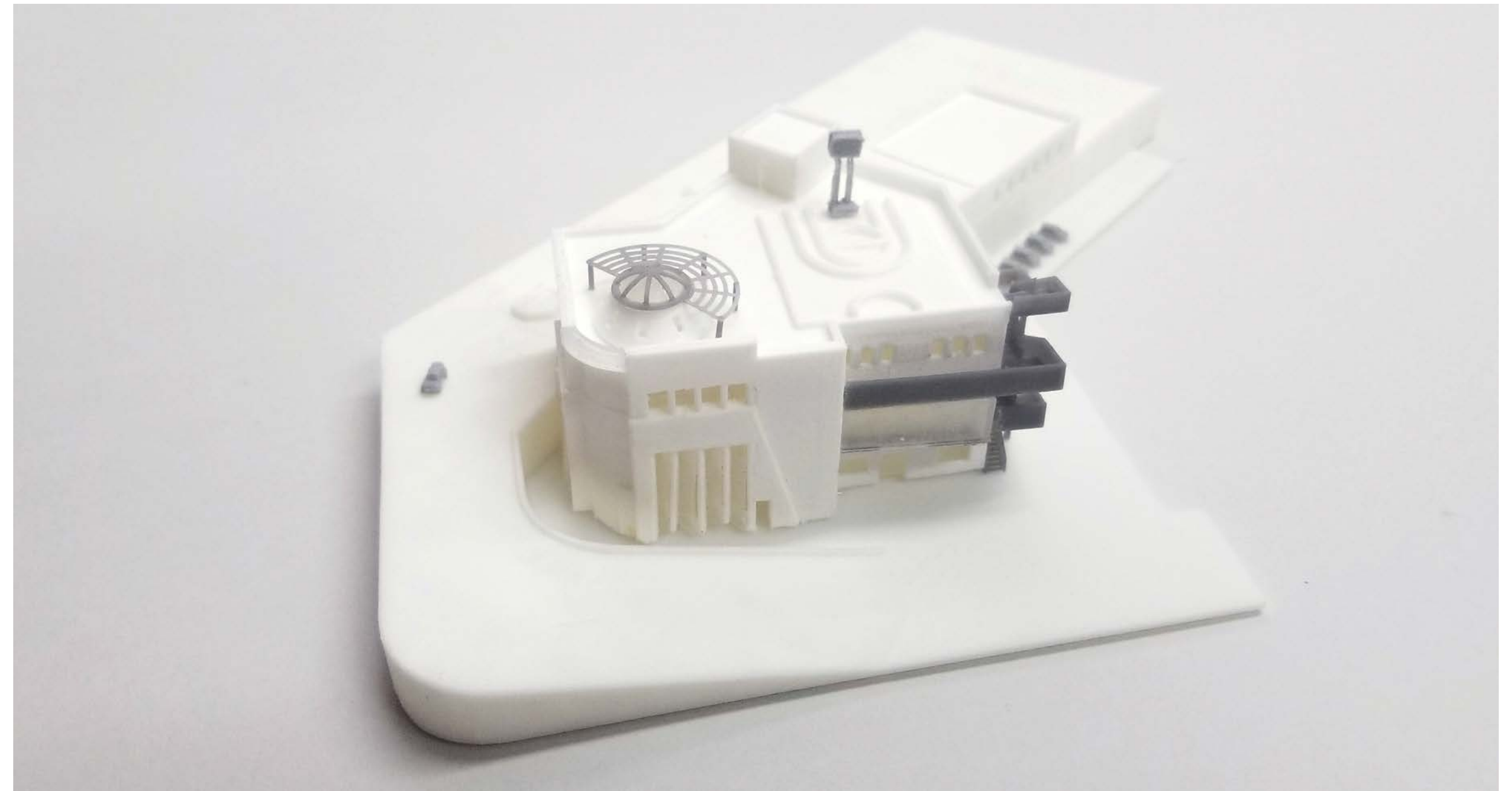
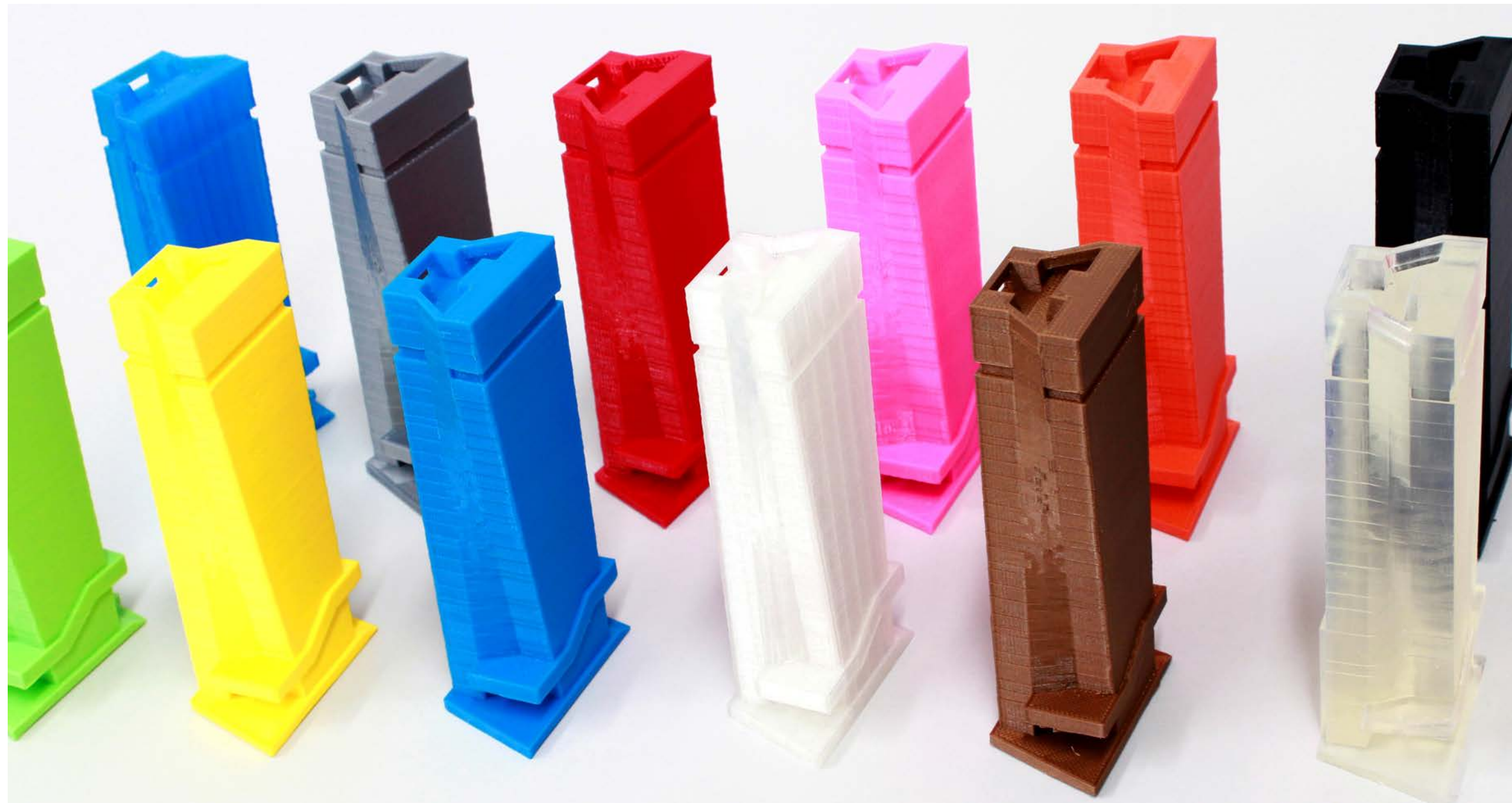
SLS (Selective Layer Sintering)





Architectural Models





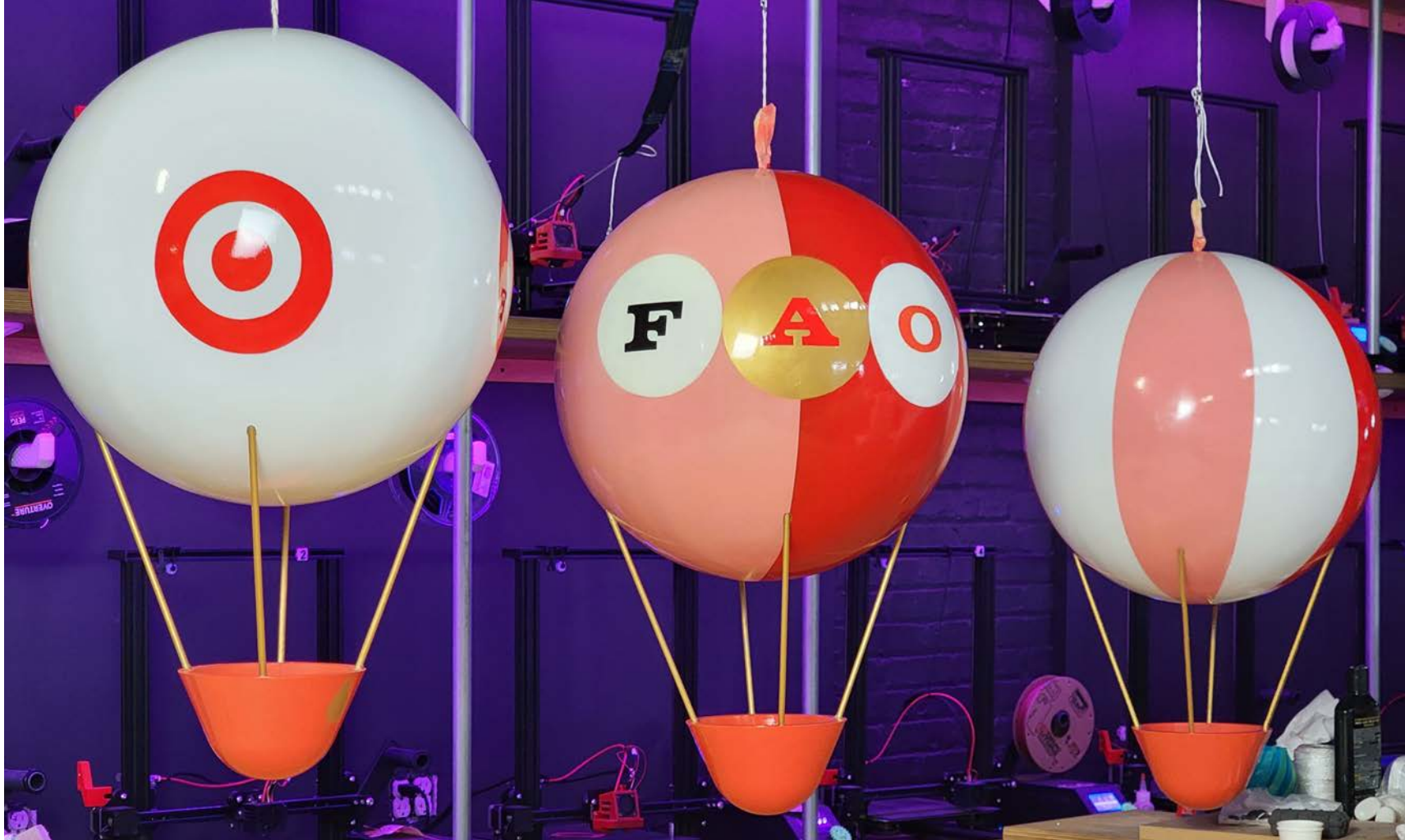
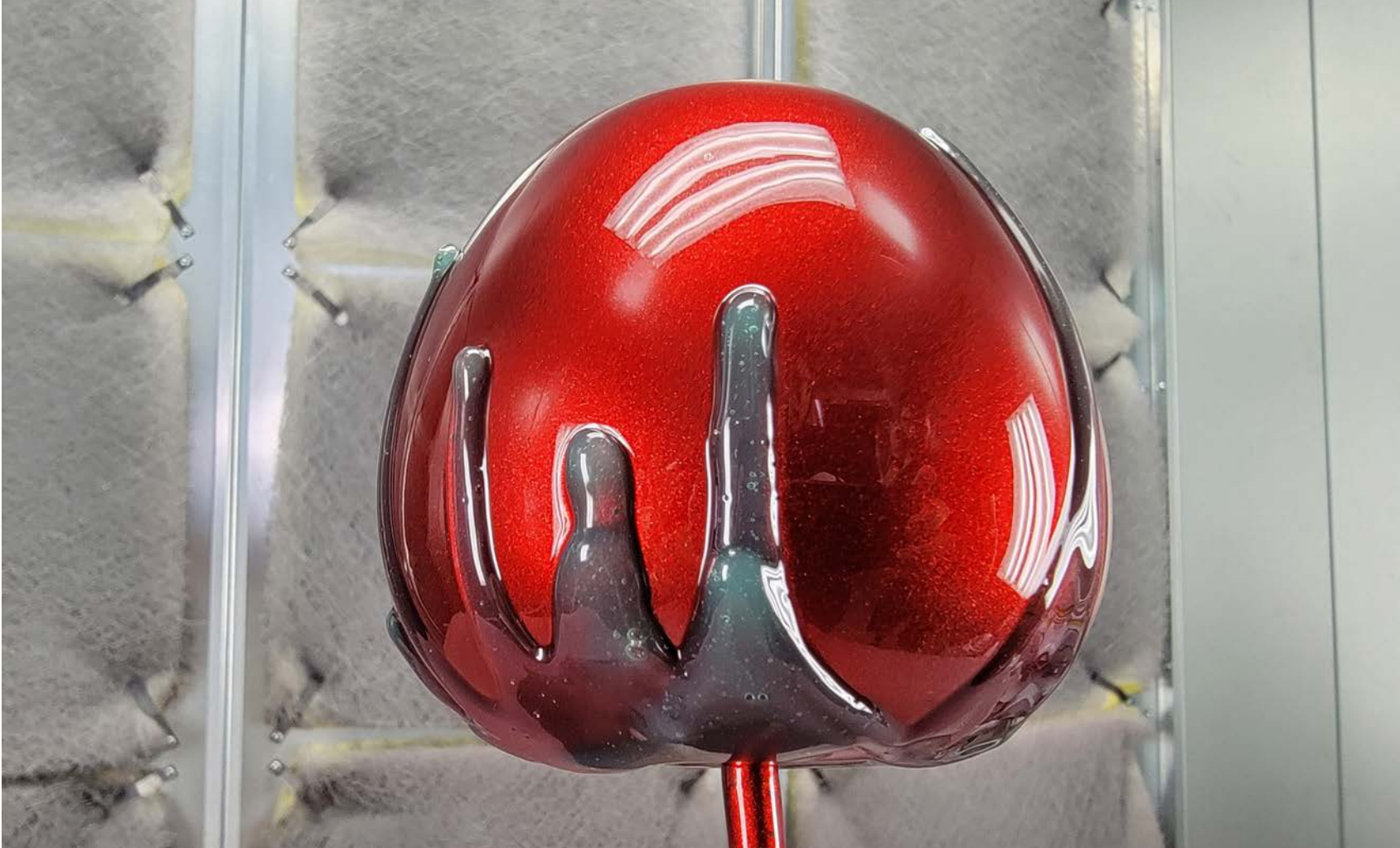
Finishing



High Build Primer



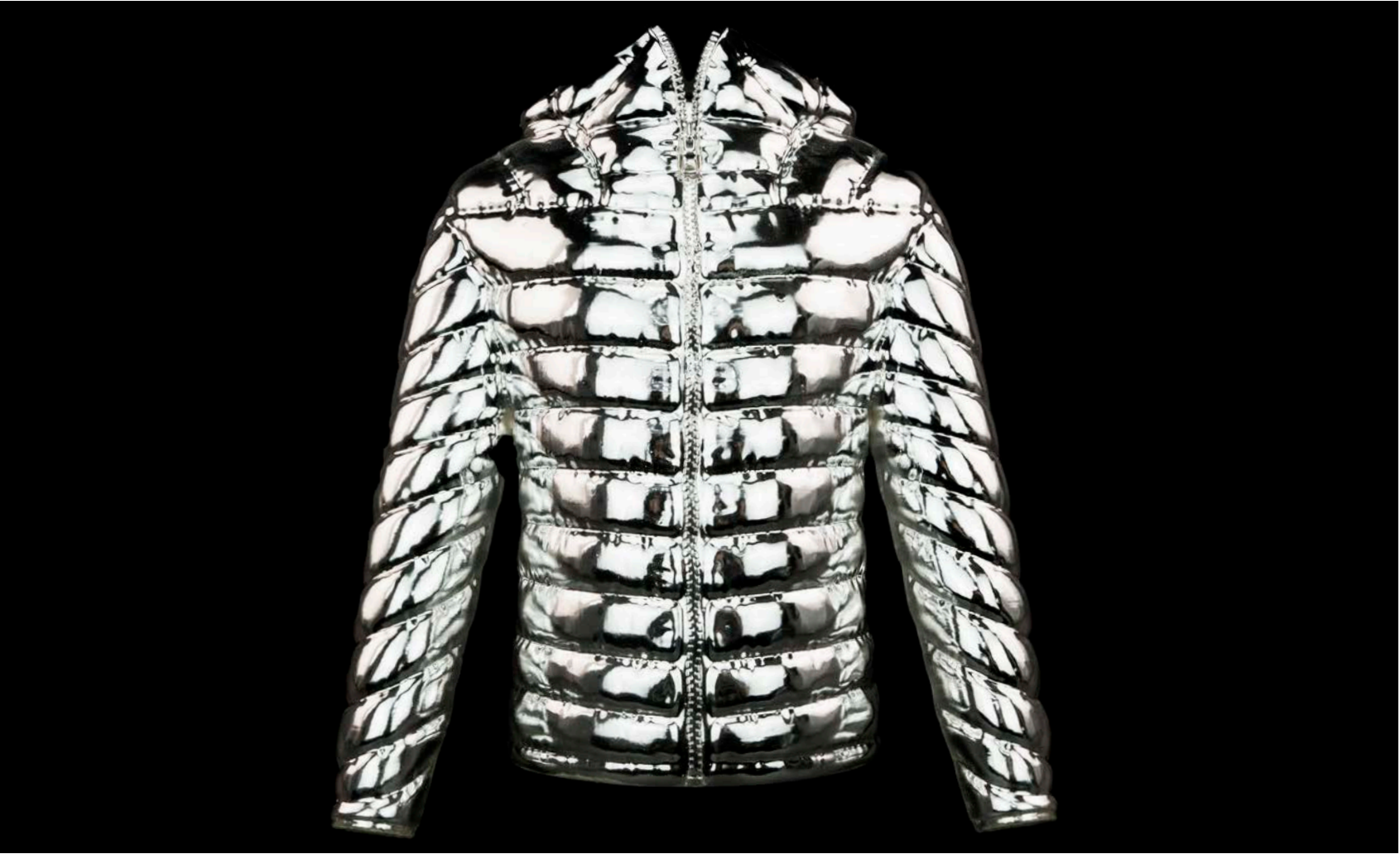
High Gloss Finish



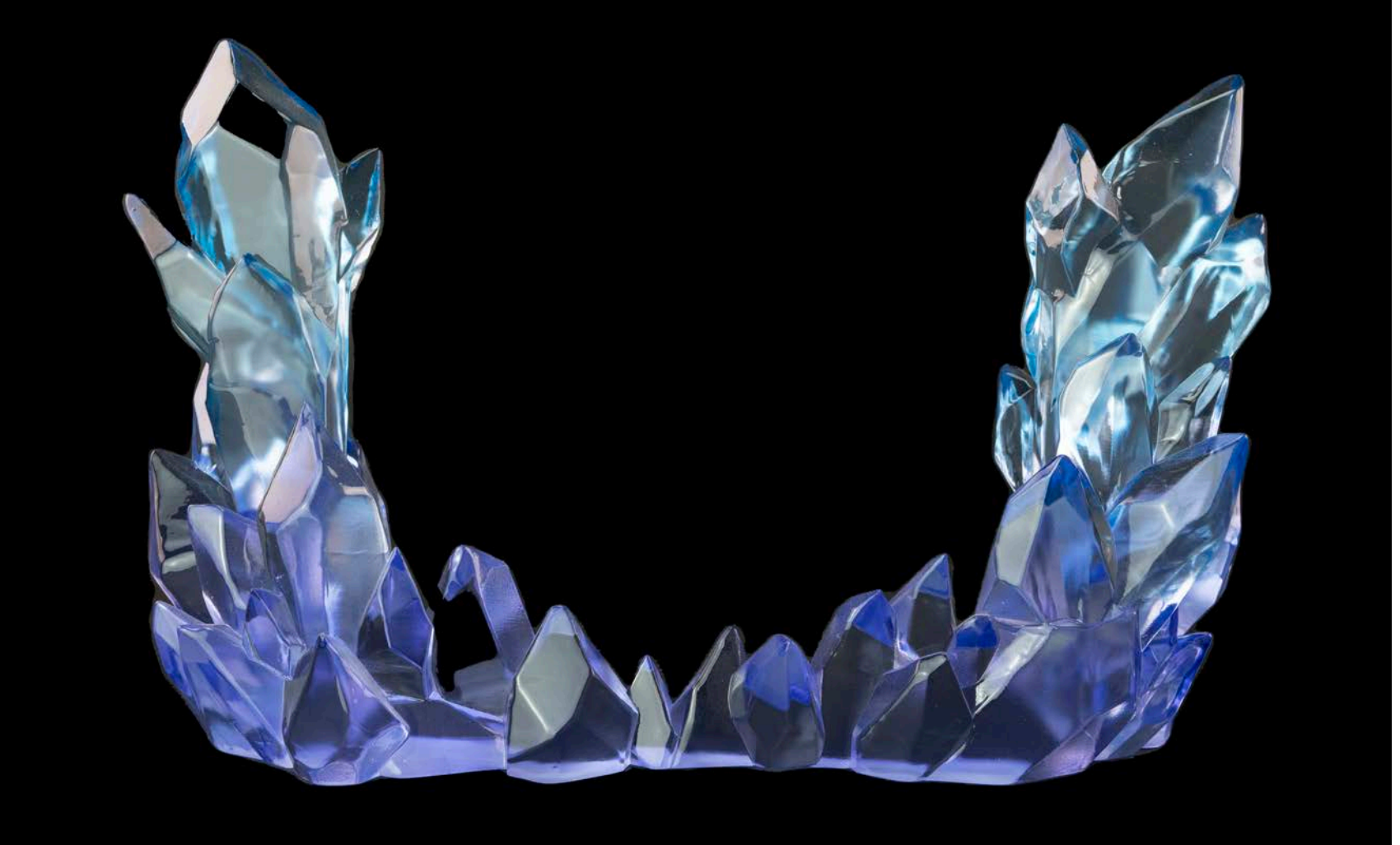
Matte Finish



Chrome Finish



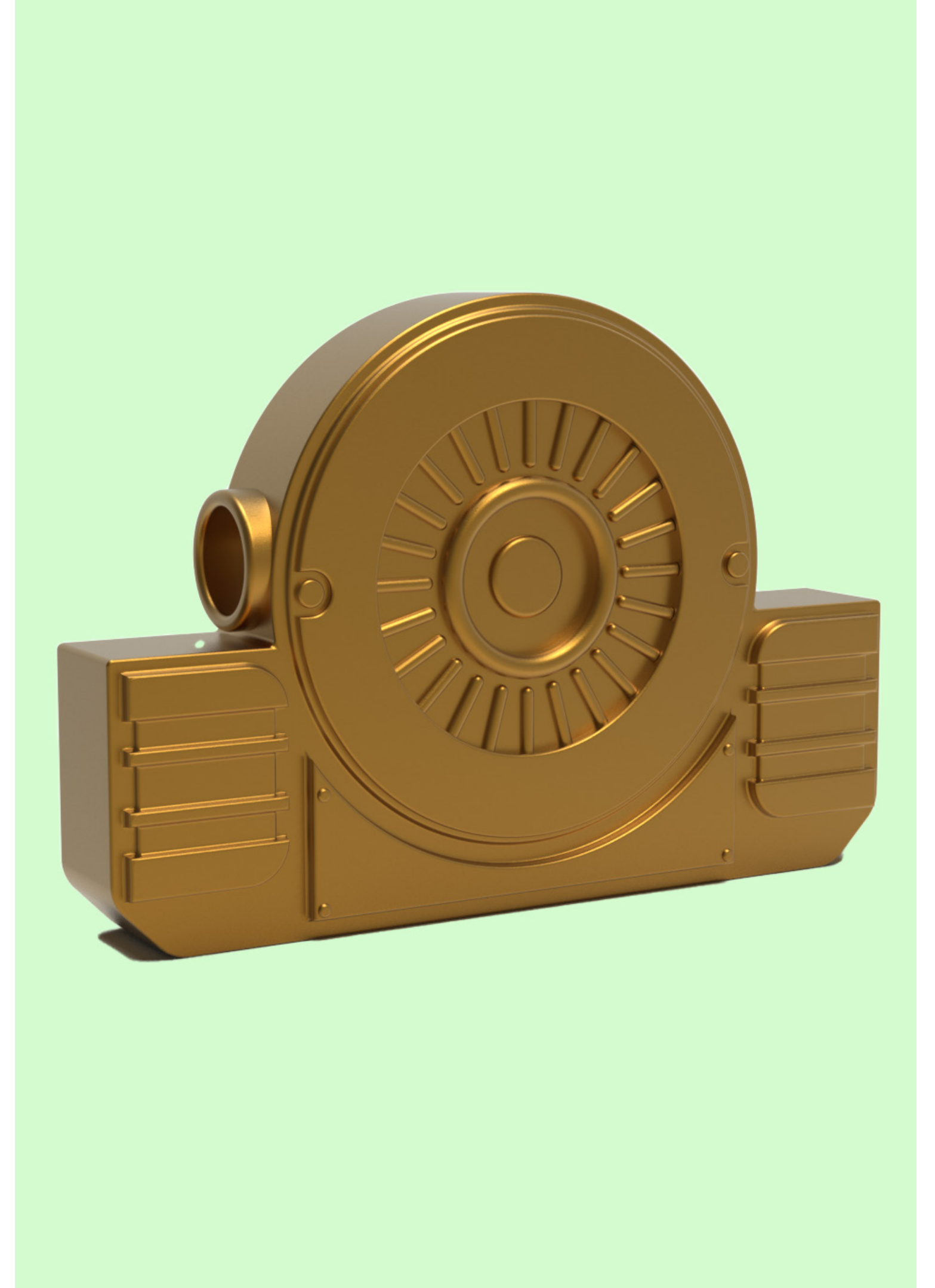
Color Tinted Transparent



Color Matching



Design and Modeling



3D Scanning



Experiential Marketing



Services and Materials

SLA 3D Printing Materials

Standard Resin produces moderate strength parts and is brittle. We produce resin prints using industrial and tabletop SLA printers. It is ideal for prototyping high quality aesthetic models.

Medical Grade Resin are bio-compatible certified. Specific Medical Grade resin categories do not produce any toxic reaction when in contact with living tissues. It is often the preferred application for dental retainers, surgical tools and prosthetics.

Engineering Resin has versatile material properties. Commonly used Engineering SLA resins come in: flexible resin, durable resin, and castable resin. This variety of resin-types make creating working parts with unique properties

Transparent Resin has similar characteristics to standard SLA resin, and is ideal for prototyping aesthetic models that require a glass-like finish. The 3D prints have a frosted appearance before it is sanded, then clear coated for the clear or transparent appearance. It can be colorized with tinted clear coats that are Pantone color-matched.

SLS 3D Printing Materials

TPU-SP65-Black (Higher Shore rating than most other TPUs)

PA12 Unfilled-White

PA12 Black

PBT – White

FDM 3D Printing Materials

PLA (Polylactic acid) is a biodegradable thermoplastic derived from plants. With high tensile strength, it is the preferred material for FDM 3D printing and prototyping. Tangible Creative ensures all PLA printed byproducts are properly recycled for reuse. 3D-printed parts made of PLA can be biodegraded within a year, given the right environment and thus adheres to our sustainability clause.

TPU (Thermoplastic polyurethane) is a thermoplastic elastomer. With medium tensile strength and high flexibility it is used for projects that require movement, agility and interaction.

PETG (Polyethylene terephthalate glycol) is a thermoplastic polyester with high impact strength and ductility. PETG maintains high temperature resistance against heat and sunlight exposure. PETG printing requires high-heat printer heads.

Color Jet Printing

CJP uses gypsum powder infused with pigments for CMYK color printing. It has a powder-like finish, and can be coated in matte or gloss.

Decal & Vinyling

Detailing is available with our finishing services. Our fine tooth knife can cut down to a 2 millimeter text with precision.



551-277-0668

orders@tangiblecreative.com

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