



FDM SIs Rapid Prototyping Selecting The Optimal Method For Rapid Prototype 3D Printing Success roughness 126 µin

Basic Information

- Place of Origin:
- Brand Name: Plastic ABS Similiar
- Certification: 3D Printing SLA SLS Printing
 Model Number: Polishing,Anodizing,Painting,Chrome Plating, Silkscreen
 Minimum Order Quantity: 1 piece
 Price: USD 30 piece

China Shenzhen

Carton, Plywood Box

T/T, Paypal

1 piece per day

- _ . . . _
- Packaging Details:
- Delivery Time: 3 5 Days
- Payment Terms:
- Supply Ability:



Product Specification

- Printing Technology:
- Material:
- Surface Finish:
- Layer Resolution:
- Build Volume:
- Supported File Formats:
- Dimensions:
- Highlight:

Fused Deposition Modeling (FDM) Plastic ABS Similiar Polish,Paint,Silkscreen 0.1-0.3 Mm

- Up To 300 X 300 X 400 Mm
- STL, OBJ, AMF

500 X 500 X 500 Mm

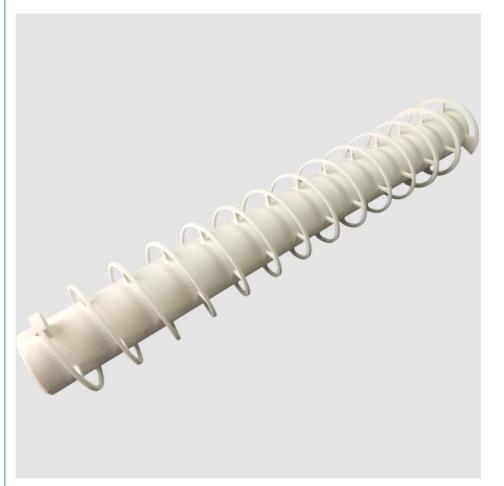
FDM Rapid Prototype 3D printing, FDM sls rapid prototyping, roughness 126 µin rapid prototyping



Product Description

How to Choose the Right Rapid Prototyping Technique

Choosing the right prototyping method hinges on various factors such as budget limitations, complexity of the part, functionality of the prototype, and the overall project schedule. Although more advanced prototypes are expensive and take longer to create, they provide a closer approximation of the end product.



Consider the following questions when choosing a prototyping technique:

Will the prototype be a static display or fully operational?

Are there various interconnected components?

What is the desired surface texture and finish?

Which materials are to be utilized?

How vital are strength and durability?

To what extent should the prototype mirror the final product?

While it's impossible to address all factors here, these questions lay the groundwork for informed decision-making in rapid prototyping.



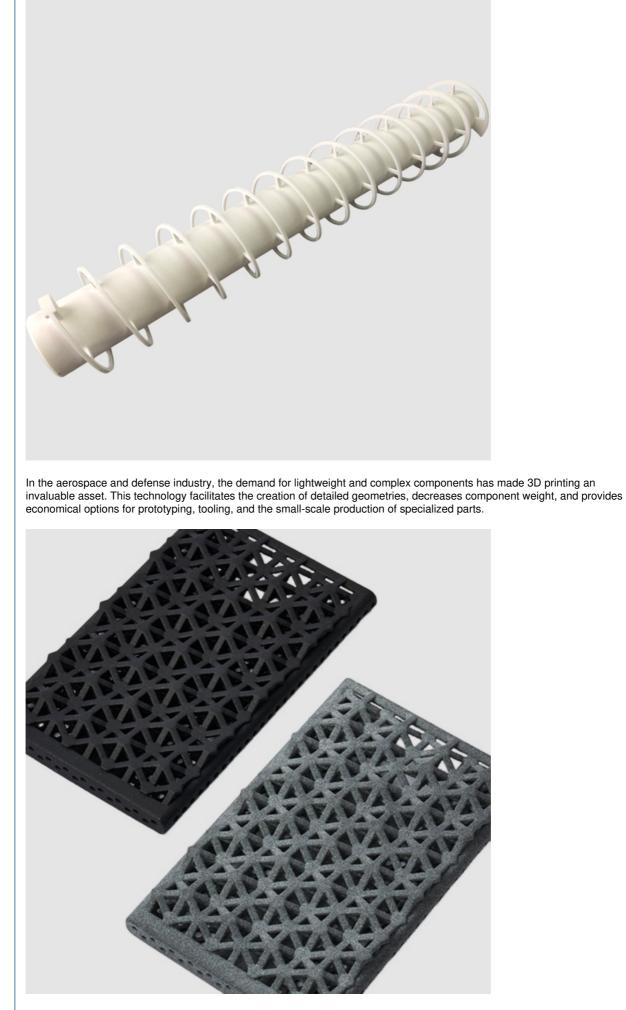
What is Rapid Prototyping? Rapid prototyping entails the creation of a physical model of a new product design to assess its viability prior to mass production. This step is vital in confirming that the final product adheres to the required specifications regarding its look, texture, and functionality. Developers employ rapid prototyping for various purposes, including functional testing, securing approvals, perfecting design iterations, backing crowdfunding initiatives, producing models for trade shows, and easing the shift towards low-volume production.



In the automotive industry, 3D printing is crucial for prototyping and manufacturing. It facilitates the swift creation of concept models, functional prototypes, and end-use components. Automotive firms utilize 3D printing for design testing and validation, shortening development times, and enhancing part efficiency.

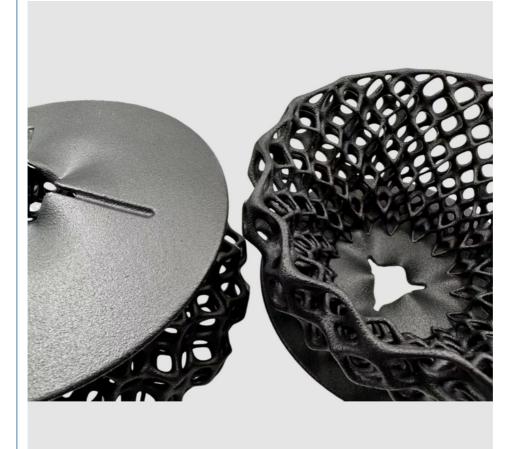


The consumer electronics industry is characterized by rapid product development cycles. 3D printing facilitates the swift and economical manufacturing of electronic housings, tailor-made components, and working prototypes. This technology empowers businesses to refine designs, conduct form and fit tests, and accelerate the launch of new products.

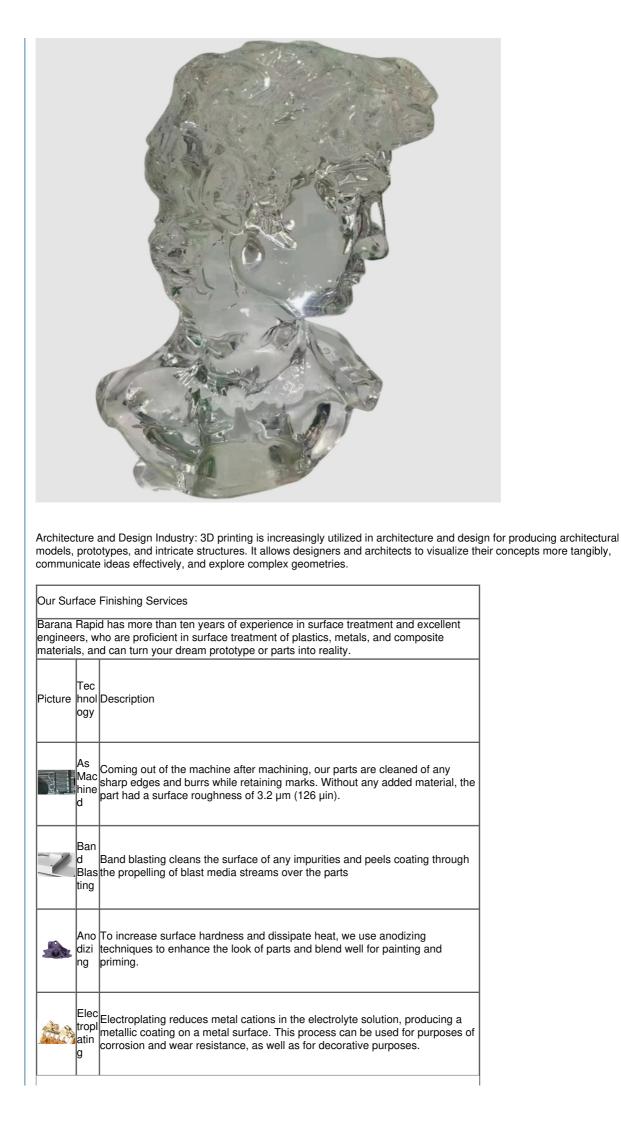


In the Medical and Healthcare Industry, 3D printing has been transformative, providing customized solutions specific to each patient. It enables the creation of detailed anatomical models, personalized surgical guides, prosthetics, and implants.

Additionally, 3D printing aids in the rapid prototyping of medical devices and the innovation of new healthcare solutions.



The industrial manufacturing industry reaps significant advantages from 3D printing across its various sectors, such as machinery, equipment, and tooling. This technology facilitates the creation of intricate parts, tailored jigs and fixtures, and the small-scale production of bespoke components. Additionally, 3D printing enhances swift design modifications and the refinement of manufacturing workflows.



	Poli shin g	Working on metal and hard plastics, our polishing uses highly efficient machinery to get our parts between Ra 0.8~Ra0.1 for a cleaner surface.
	Pow der coat ing	We apply a thin layer of protective polymer with the corona discharge phenomenon to give our part a lasting finish that protects from impacts and prevents wearing down.
	Bru shin g	Our brushing technique uses abrasive belts over the material to create diverse patterns that match the parts' structure and color.
		Spray droplets can be dispersed uniformly or in fine amounts to cover a wide surface area and bring out greater color to the part.
10	Blac k Ano dize d	Adding layers to metallic surfaces like steel, our black anodized technique improves appearance while maintaining durability.
	Alod ine	We use chromate conversion coating or alodine to protect aluminum and other materials from corrosive elements, usually done before priming and painting parts.
states	Las er Car ving	Helpful in brand recognition or parts organization, we use laser carving that applies various printing methods during full-scale production to quickly embed barcodes, lettering and logos on the parts.

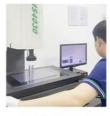
Inspections and Review for Every Stage of Production

To ensure quality from start to finish, Barana Rapid provides the following inspection and review services:

Rigorous verification of incoming materials Detailed manufacturing design reviews for all provided quotations Contract review upon receipt of purchase orders Preliminary article and in-process inspections Extensive final inspections and testing, accompanied by required reports and certifications



Visual inspection



2D image measuring equipment



Touch test



Hardness tester







Tensile tester



High gauge



Salt-spray testing machine

