







3DLab Manufacturing



 US: +1 915-765-7515

 MX: +52 656-756-8607

 sales@3dlabmanufacturing.com

 www.3dlabmanufacturing.com

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Overview

3D Lab Manufacturing is a company dedicated to solving intricate problems in different industry sectors, taking advantage of the most advanced technology.

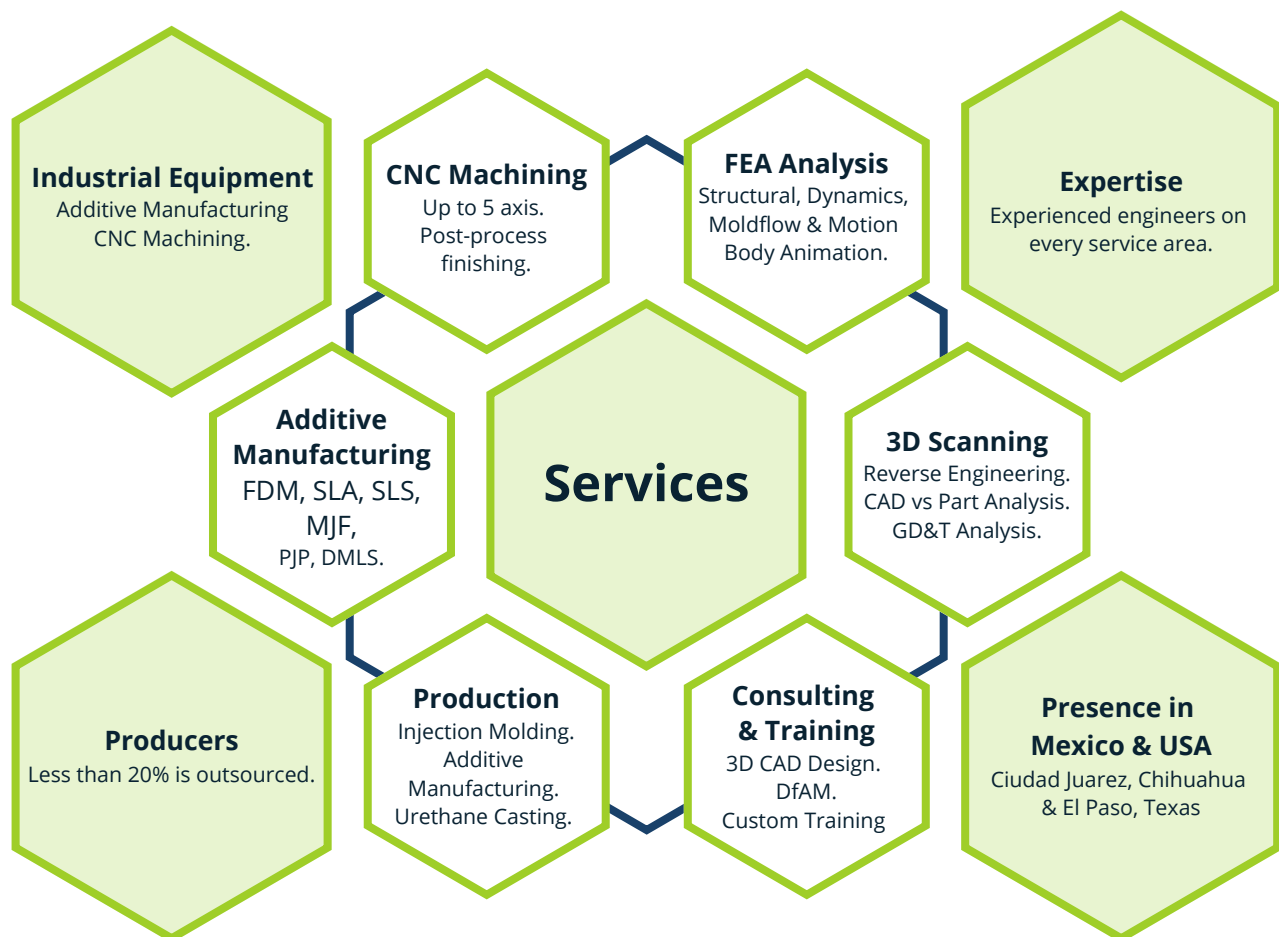


EXPERIENCED PERSONNEL

Our personnel is ready to work with your team in the areas you are about to read in this brochure. You can be sure that our experienced engineers will guide you through any of our services and will always look for your projects to be a success.

Services

We have traditional manufacturing and advanced technologies at your disposal, with qualified personnel, industrial equipment and materials, always looking after our costumers' satisfaction.



Reach

Our services will help you during multiple phases of the product life cycle, from prototyping one single unit, to mass production millions of parts, 3D Lab Manufacturing is here to help you.

Product Ideation

Creation of MVP using Additive Manufacturing process to ensure the form, fit and function of product.

Engineering & Testing

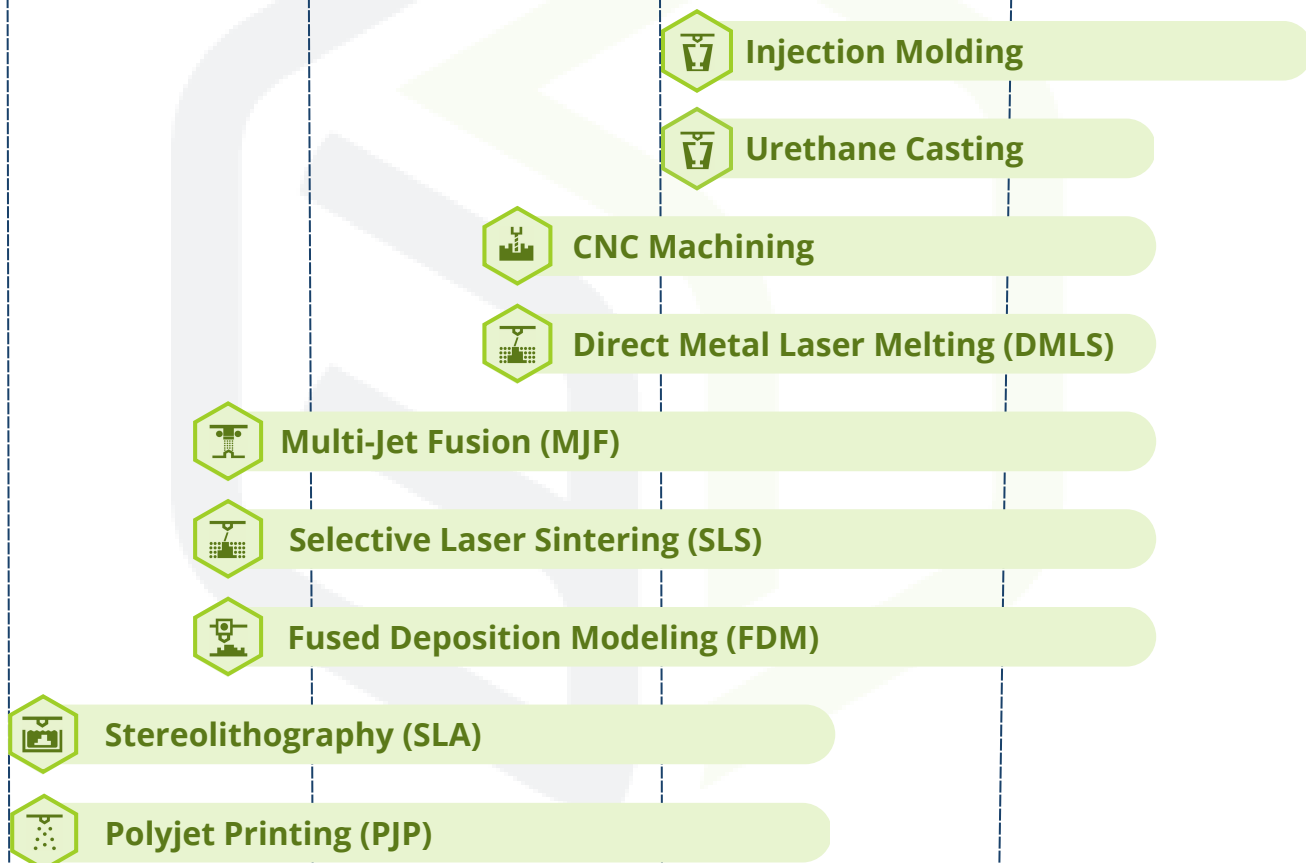
Refine design and create fully functional prototype to validate product.

Market Introduction

Usage of industrial-grade materials capable of creating end-use parts.






Production

Low & high volume using industrial AM processes, machining, urethane casting or injection molding.



AM Materials

We carry top of the line Additive Manufacturing materials, for every application you may have. New materials are added to our catalog as they become available by suppliers, ask us if the material you are looking for is not on the list below.

	Clear	Flexible	Rigid	Chemical Resistant	High Strength	Static Dissipative	Heat Resistant	Flame Retardant
 Polyjet Printing (PJP)	Vero Rigid	Rigur Agilus	Vero, ABS Plus Ivory					
 Stereolithography (SLA)	Somos Watershed		Somos Next Watershed Black				Somos Protogen 18420	
 Fused Deposition Modeling (FDM)			ASA, ABS, PC, PC-ISO	Ultem 1010, Antero, Nylon 12	Ultem 1010, 9085, PC-ABS, PPSF, Antero	Ultem 1010, Antero, Nylon 12	Ultem 1010, Antero, Nylon 12	Ultem 1010, Antero, Nylon 12
 Selective Laser Sintering (SLS)		Flex TPE	Nylon 12 PA	Nylon 12 PA, Nylon 12 GF, Nylon 12 CF	Nylon 12 CF, Nylon 12 HST	Nylon 12 CF	Nylon 12 HST	Nylon 12 FR
 Multi Jet Fusion (MJF)			Nylon 12 PA	Nylon 12 PA				

Industries & Applications



Automotive

Rapid and Functional Prototyping - Manufacturing
Tooling - Jigs & Fixtures - Production Parts - Injection
Molding.



Aerospace

Rapid Prototyping - Composite Tooling - Jigs & Fixtures
- Production Parts - Injection Molding.



Consumer Products

Rapid Prototyping - Composite Tooling - Jigs & Fixtures
- Production Parts - Injection Molding.



Education

Consulting & Training: 3D CAD Design and Design for
Additive Manufacturing - Additive Manufacturing - FEA .

Design & Analysis

We are able to provide failure analysis on existent components, redesign if required, and design following customer specifications and/or requirements.



FINITE ELEMENT ANALYSIS

- Structural Analysis
- Dynamic Analysis
- Moldflow Analysis
- Body Motion Animation



3D SCANNING

- Reverse Engineering
- CAD vs Scan Inspection
- STL or CAD file creation



TOPOLOGY OPTIMIZATION

- Weight Reduction
- Optimized for Additive Manufacturing
- Lattice Structures

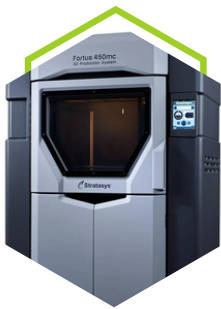


DESIGN

- 3D CAD design
- Design for Additive Manufacturing
- Photo Realistic Rendering
- Topology Optimization

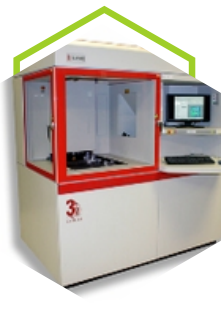
Equipment & Material Sales

We can help expand your Additive Manufacturing or 3D Scanning capabilities, or acquire your first system. Service maintenance and high quality materials are also among our catalog, to make sure your systems are always running smoothly. Full list of FDM materials available upon request



FDM STRATASYS

Fortus 380mc, 400mc,
450mc, 900mc



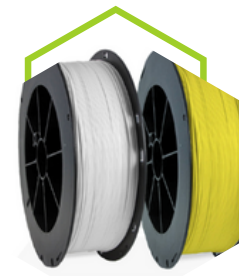
SLA 3D SYSTEMS

SLA 5000, Viper Si2



SLS EOS

P396



STRATASYS COMPATIBLE

FILAMENT

ABS, PC, Ultem, and
many more...



3D SCANNERS

Handheld, Tracking,
Color, Photogrammetry



AM ANCILLARY

EQUIPMENT

Support removal,
UV Ovens

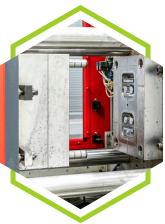
Machining & Injection Molding

Your production is in good hands with us. We not only can provide production in our AM systems, but also with our machining and injection molding capabilities. Electrostatic paint and anodization available.



MACHINING

- Conventional Lathe and Milling
- CNC Mill & Lathe
- CNC up to 5 axis
- Carbon EDM machine
- EDM wire machine
- Welding MIG/FLUX



INJECTION MOLDING

- Plastic Injector BELKEN BOLE 360 EKH
 - Servo Robot of 3 axis
- Plastic Injector BELKEN BOLE 530 EKH
 - Servo Robot of 3 axis

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We specialize in manufacturing solutions using 3D technologies, from product ideation to production, always looking after customer satisfaction.





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