

Stratasys At-a-Glance

FIRST CHOICE POLYMER 3D PRINTING PROVIDER

MULTIPLE TECHNOLOGIES & COMPLETE SOLUTIONS FOR **SUPERIOR APPLICATION FIT**

CUSTOMERS ARE LEADERS IN MANUFACTURING, **HEALTHCARE AND CONSUMER INDUSTRIES**

35

Years leading 3D Printing industry

\$651m

Highest revenues for any 3D Printing provider in 2022

200+

Resellers

1700 +

Patents granted and pending

\$328m

Cash and equivalents and no debt

2000



5 Technologies Offering				

Industry 4.0 Software Platform



(Henkel)

BASE

We create ohen ietra

*IWAY covestro



COCHHEED MARTIN & Google



<u>GM</u>

NAVY

McLaren FORMULA I TEAM





Largest Install Base of Blue-Chip Customers







AEROSPACE



TRANSPORTATIONS



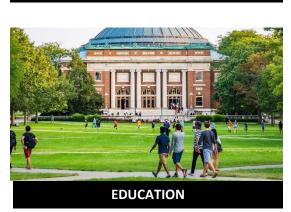
AUTOMOTIVE



SPACE INDUSTRY









FASHION



DENTAL



HOSPITALS



OIL & GAS



SHOP FLOORS AND ROBOTICS

Best-in-class portfolio for the entire product value chain



Enterprise Application Integration for Industry 4.0 Scale

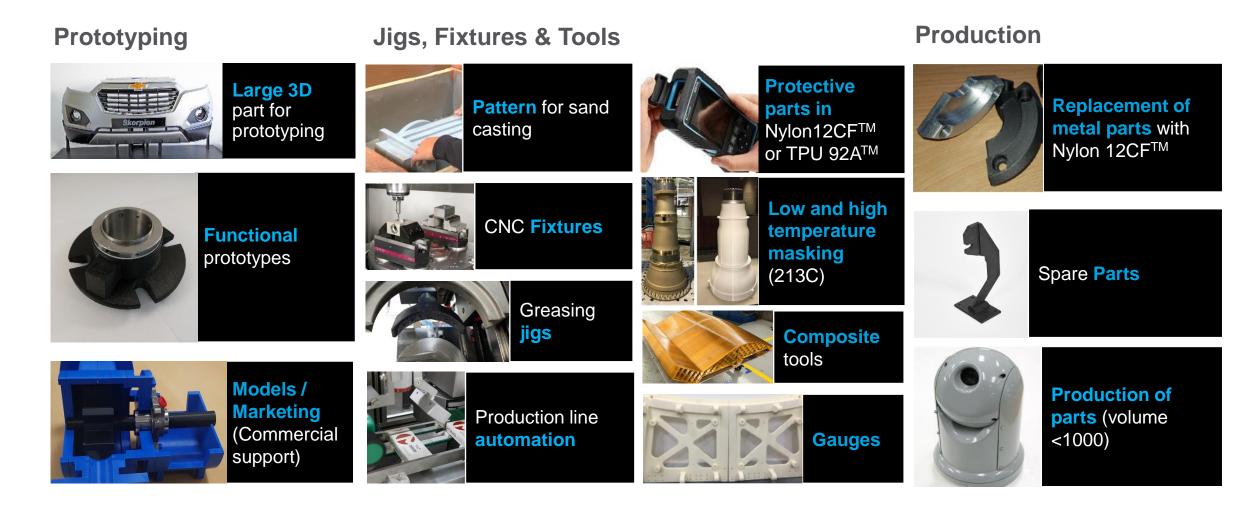




GrabCAD SDK

GrabCAD Software Development Partners

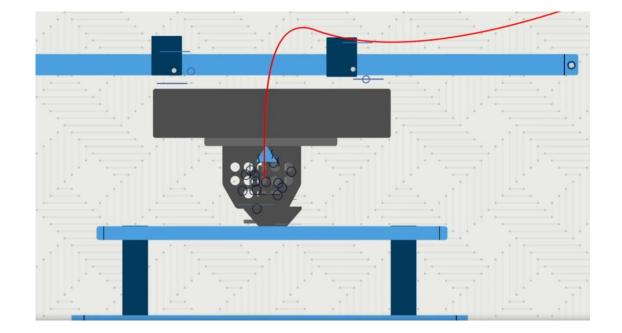
Industrial Applications | Stratasys FDM

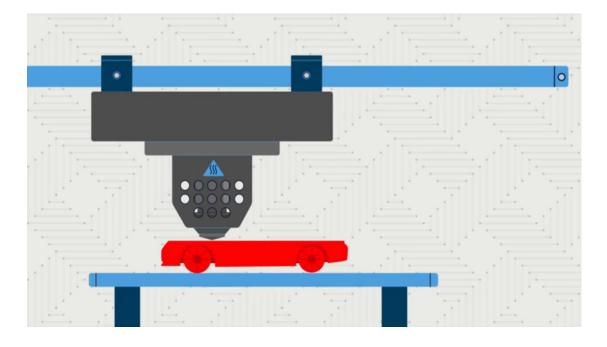


Fused Deposition Modeling (FDM)



Thermoplastic filament is heated to a semi-liquid state and extruded to build parts layer-upon-layer





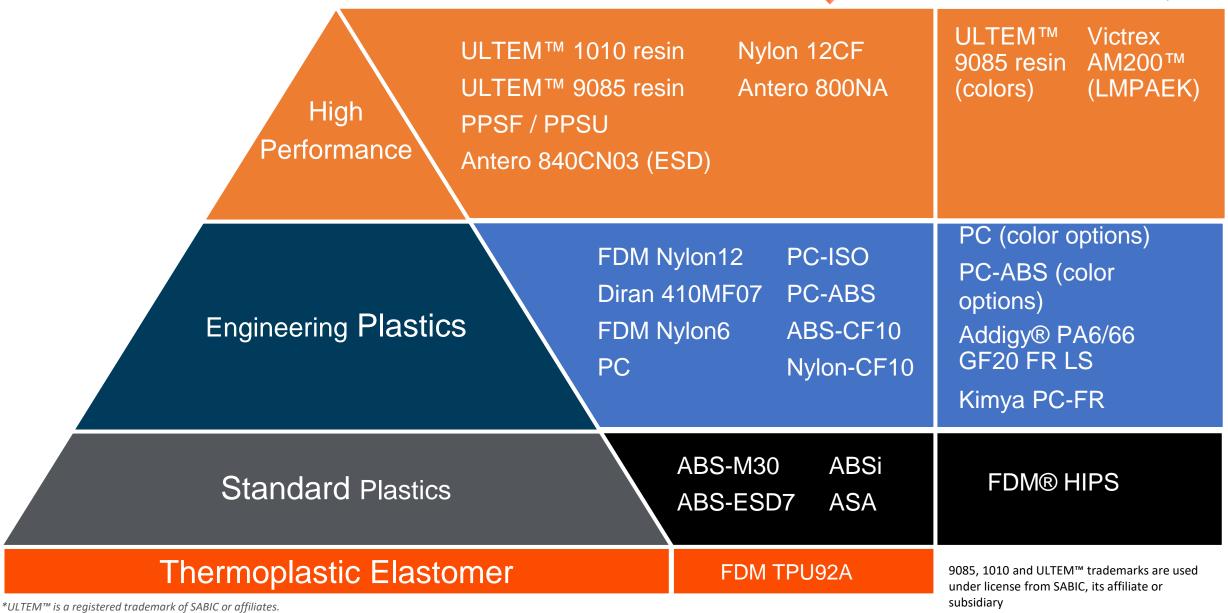


FDM Material Portfolio



Validated Materials

M



A revolution in experimental supersonic aircraft

Boom Supersonic printed hundreds of drill guides, fixtures and jigs.

U

Functional prototype as well as flying parts in ULTEM 9085





PolyJet The World's leading full colour, multi material systems



Leader in reproducibility and dependability



Endless material combinations

Pantone certified

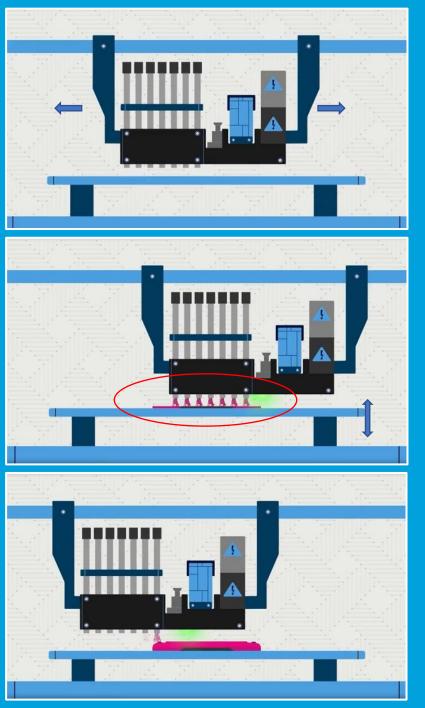


Proven in the market with world's leading manufacturers





>60 \mathbf{O} 0 C **U**



J8 PolyJet Technology How does it work?

- The **printing block** moves along the X-Y axis in order to maximize the printing area coverage and reach the entire build platform.
- The **Build Platform** moves in z direction layer by layer in order to build the entire geometry.
- Drops of liquid **Photopolymer** are deposited on the building tray by the Printing Block, layer by layer.
- **Exposure to UV** light, initiates a very fast polymerization reaction turning the liquid photopolymer into a fully cured ready to use 3D model.
- PolyJet technology is based on Photopolymer resins, UV light and motion working simultaneously in order to produce precise full color and functional 3D models like no other technology.



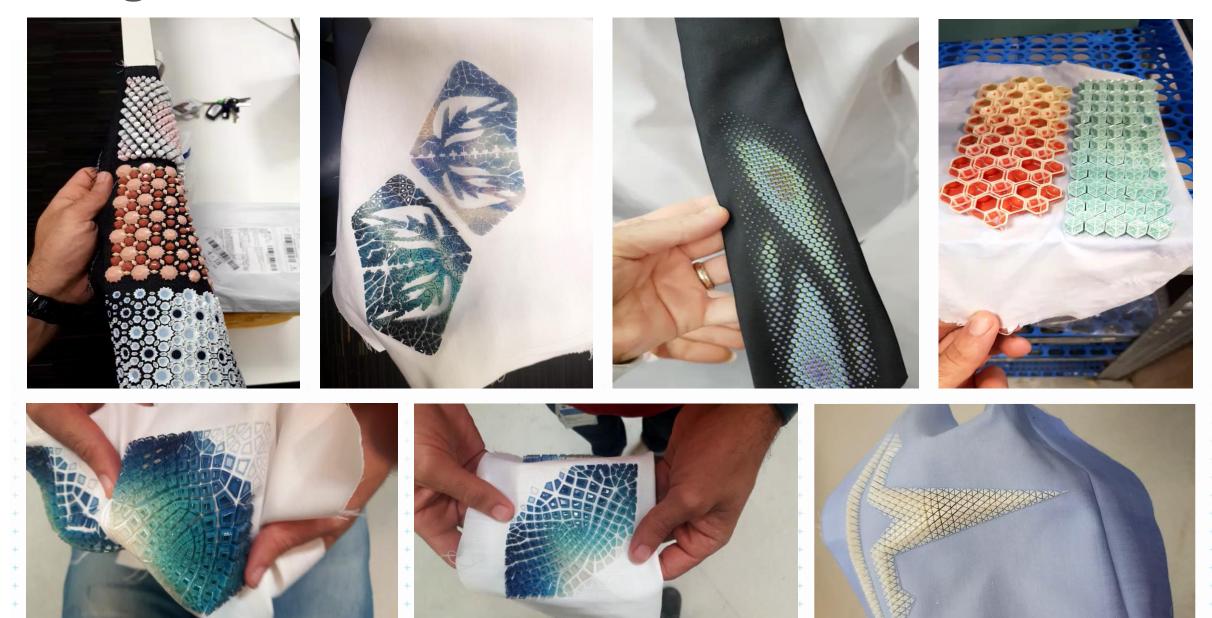
Thick Transparent Plastic (4-8mm) Thin Transparent Glass (1-4mm) Solid Color, Pantone "Stained Glass"

Spray Paint + Mask + Clear

Pad Printed Label Glued Label Shrink Sleeve "Liquid" All in one

Prototype all visual aspects of a package of any kind, including shrink sleeves and the liquid inside

Design Tools For 3DFashion[™]



Stratasys

Origin and P3 platform Programmable PhotoPolymerization



World-class accuracy and resolution



Unmatched material breadth



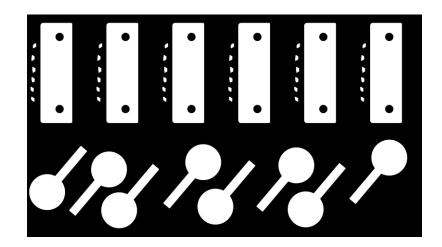
Cloud connectivity for performance and scale

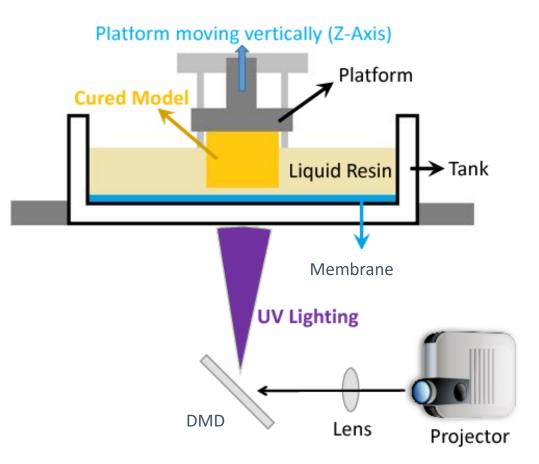




Introduction to Digital Light Processing (DLP)

- Vat photopolymerization technology
- Energy source is a UV projector coupled with DMD
- Utilizes a tray with photopolymer resin
- Operates a linear Z drive
- Reliable concept with few moving parts





Stratasys NEO Range

Stereolithography



Industrial reliability and precision at a disruptive price point



Open Materials platform 355nm Resins



Best in Class Low Variability High Utilization







Neo Stereolithography

The Neo Stereolithography range are Industrial grade 3D printers which produce accurate parts, with superior surface quality, detail and repeatability.

They are for designers, engineers and part providers, who need a dependable system for high volume and large part printing.

Primary use cases include Single Material Concept Modeling and Prototyping, with secondary applications of rapid tooling.





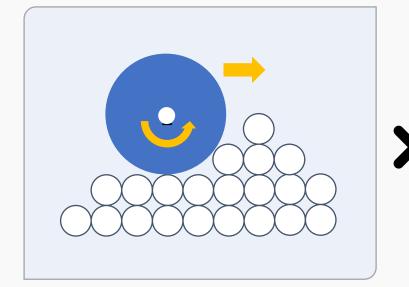
Introducing the first SAF[™] powered product

Stratasys H350[™] 3D printer

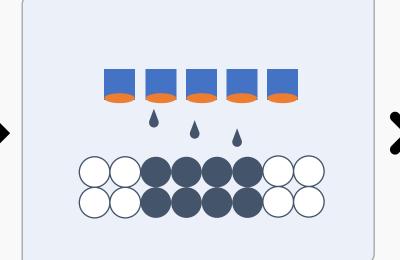


SAF technology

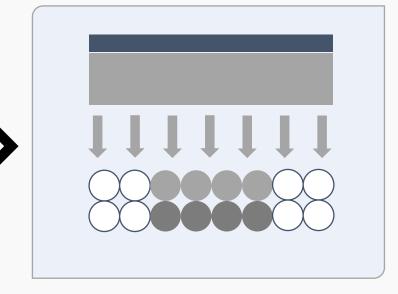
How it all began – 2003 in Loughborough University



A layer of **powder** is deposited by a counter-rotating roller

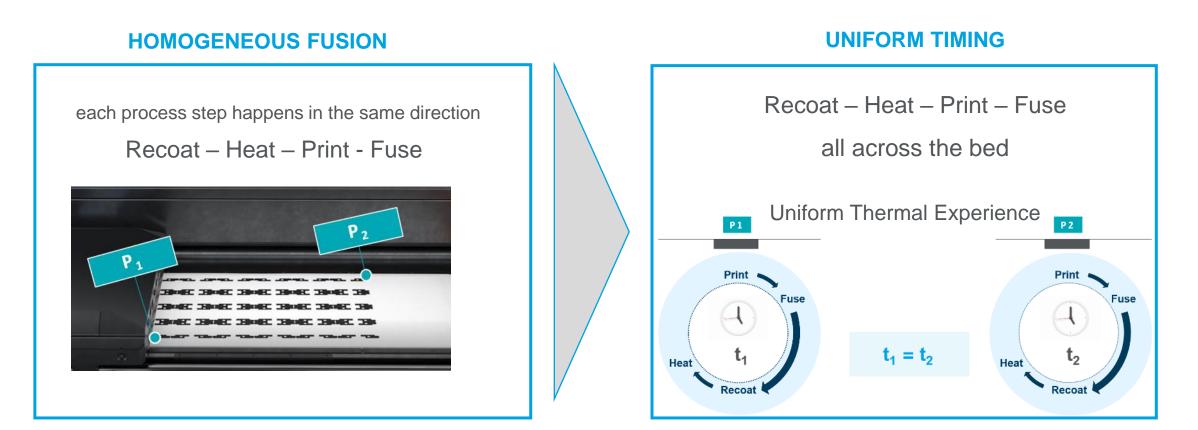


An **IR absorption fluid** is selectively jetted onto the powder by using industry-leading **piezo print heads**



An **IR lamp** passes over the surface, causing the printed areas to absorb sufficient energy to fuse underlying particles. The material crystalizes during a cooling process

How does SAF technology work? Print-head based powder bed fusion



SAF means Powder Bed-wide Fusion







Thank you