



# Equipment List: Additive and Conventional Manufacturing

With 20 million parts shipped, Stratasys Direct Manufacturing is at the forefront of production and serialized manufacturing. For more than 30 years we've led the way, redefining what's possible to help customers transform performance and reduce costs. Our 3D printing and advanced manufacturing services fit perfectly for production of robust end-use parts at any volume - from one part to thousands.

When you're ready, we have the technology, quality management systems, and a strong history in large-scale production to bring your products to market. Stratasys Direct's mature Quality Management Ecosystem includes integrated digital traceability of workmanship, inspection and materials. We adhere to more than 40 process and material specifications for additive manufacturing and continuously improve our processes to develop the industrialization of additive to meet conventional standards.

We are ITAR registered and carry the latest revisions of ISO 9001 and AS9100 certifications, demonstrating our ability to consistently provide serialized and production parts that meet customer and regulatory requirements. We aim to enhance customer satisfaction through effective application of process and quality audits with more than ten successful years across multiple sites.

# Nearly 200 3D Printers

## 80+ Stratasys FDM® Systems

Maximum build envelope: 36" x 24" x 36"

## 40+ Selective Laser Sintering Systems

Maximum build envelope: 26" x 13.5" x 20"

## 40+ Stereolithography Systems

Maximum build envelope: 25" x 29" x 21"

## 18+ Direct Metal Laser Melting Systems

Maximum build envelope: 16" x 16" x 16"

## 15+ PolyJet™ Systems

Maximum build envelope: 19.3" x 15.4" x 7.9"

## 04+ Multi Jet Fusion Systems

Maximum build envelope: 14.96" x 11.25" x 14.96"

\*Should designs extend beyond the maximum build envelope, they can be sectioned and bonded in post-processing.

# We can print over 57,000 sq ft / day.

That's equal to:

- 20+ homes
- 12+ basketball courts
- An entire football field

And that's just in 8 hours.

For you, we print around the clock. 24 hours a day, 7 days a week, 365 days a year. That's the Stratasys Direct difference. How can we help you?



# Additional Manufacturing Equipment

## 15+ Machining Centers

Includes high precision 5-axis capabilities

Maximum build envelope: X-Axis Travel: 84" Y-Axis Travel: 40" Z-Axis Travel: 30"

## 11+ Casting Systems and Associated Equipment

(20 pressure chambers, curing ovens)

## 03+ Wire EDM Systems

(standard and XL sizes available)

## In-house Post-processing

Includes tumbling and media blasting for improved, homogeneous surface finish.

## In-House Stress Relief for Additive Metal Parts

## In-House Vacuum Oven for Stress Relief & Solution Age Annealing

# Metrology & Functional Testing

## 03+ Zeiss CMM systems

(including 3-axis and 5-axis capabilities)

## 06+ FARO arm CMM systems

(includes point cloud and laser scanning)

## Flow Bench Testing

(including high precision 5-axis capabilities)

## Hydrostatic Pressure Testing

(capable of pressure testing up to 300 psi)

## In-House Rockwell Hardness Testing

## In-House Surface Roughness Testing

## Density Verification

## Microscopic Evaluation

# Materials by Facilities

## Valencia, CA – ISO 9001 | AS9100

### PolyJet

- o Vero™
- o Agilus30™ (Shore A 30-95)

### FDM

- o ABS-ESD7
- o ABSi
- o ABS-M30
- o ASA
- o Nylon 12 Black
- o PC White
- o PC-ABS Black
- o PC-ISO White
- o ULTEM™ 1010 resin
- o ULTEM™ 9085 resin

### SLS

- o Nylon 12 PA
- o Nylon 12 FR
- o Nylon 12 GF
- o Nylon 12 FR
- o Nylon 12 GF
- o Nylon 11

### Stereolithography

- o SC 1000P
- o Somos® NeXt

### Urethane

- o PC/ABS-like (flame rated)
- o PC/ABS-like
- o HDPE-like
- o PE-like
- o Elastomers (Shore A 005-95)
- o More materials available by request

### Machining

- o Aluminum
- o Delrin® / Acetal
- o PEEK
- o Acrylic
- o More materials available by request

## Eden Prairie, MN – ISO 9001 | AS9100

### FDM

- o ABS-ESD7
- o ABSi
- o ABS-M30
- o Antero™ 800NA
- o Antero™ 840CN03
- o ASA
- o Nylon 12
- o Nylon 12CF
- o PC White
- o PC-ABS Black
- o PC-ISO
- o PPSF
- o TPU 92A
- o ULTEM™ 1010 resin
- o ULTEM™ 9085 resin

### PolyJet

- o Vero
- o Agilus30™ (Shore A 30-95)

## Austin, TX – ISO 9001 | AS9100

### SLS

- o Nylon 11 FR
- o Nylon 12 CF
- o Nylon 12
- o FR-106

### DMLM

- o Stainless Steel 17-4 PH
- o Nickel Alloy 625
- o Nickel Alloy 718
- o Cobalt Chrome CoCrMo
- o Nickel Alloy K500
- o Copper C18150

## Belton, TX – ISO 9001 | AS9100

### FDM

- o ULTEM™ 9085 resin

### SLS

- o FLEXTPE
- o Nylon 12 FR
- o Nylon 12 PA
- o Nylon 12 HST
- o Nylon 12 GF
- o Nylon 11 EX
- o Nylon 11 FR

### DMLM

- o Stainless Steel 316L
- o Aluminum AlSi10Mg
- o Titanium Ti64
- o Copper C18150

### MJF

- o Nylon 12 PA

### Machining

- o Aluminum
- o Delrin® / Acetal
- o PEEK
- o Acrylic
- o More materials available by request

## Tucson, AZ – ISO 9001

### PolyJet

- o Vero™

### SLS

- o Nylon 12 AF

### Stereolithography

- o Somos® ProtoGen 18420
- o Somos® WaterClear Ultra 10122
- o Somos® WaterShed XC 11122



## Poway, CA – ISO 9001

### PolyJet

- o Vero™

### FDM

- o ABS-M30

### Urethane

- o PC/ABS-like (flame rated)
- o PC/ABS-like
- o HDPE-like
- o PE-like
- o Elastomers (Shore A 005-95)
- o More materials available by request

### Machining

- o Aluminum
- o Delrin® / Acetal
- o PEEK
- o Acrylic
- o More materials available by request

## Shenzhen, China

### Injection Molding

- o ABS
- o Polycarbonate
- o PC/ABS
- o Polypropylene
- o Delrin® / Acetal
- o More materials available by request

### Machining

- o Aluminum

### Stratasys Direct Manufacturing Locations

Valencia, CA | San Diego, CA | Tucson, AZ  
Phoenix, AZ | Belton, TX | Austin, TX  
Eden Prairie, MN | Detroit, MI

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