




Technology Comparison

	FDM	SLS	MJF	SAF	PJ	SLA	Origin P3
Maximum Build Size	Large Print Size 36" x 24" x 36"	Large Print Size 26" x 13.5" x 20"	Mid Print Size 14.95" x 11.25" x 14.95"	Mid Print Size 12.2" x 8.1" x 12.4"	Mid Print Size 19.3" x 15.4" x 7.9"	Large Print Size 25" x 29" x 21"	Small Print Size 7.5" x 4.25" x 14.5
Ideal Part Size	All	Mid-Large size	Small-Mid size	Small-Mid	Small- Mid size	Mid to large size	Small
Segmentation & Bonding	Yes	Yes				Yes	
Material highlights	Engineering grade materials (FR, HDT, ESD, etc..)	Engineering grade materials (FR, HDT, ESD, etc..)	<ul style="list-style-type: none"> High Impact & Strength Chemical resistance 	<ul style="list-style-type: none"> High Impact & Strength Chemical Resistance Ecofriendly 	<ul style="list-style-type: none"> Multi-Color Multi-Material Clear/Transparent Elastomer 	<ul style="list-style-type: none"> Clear/Transparent High Strength Watertight 	<ul style="list-style-type: none"> Engineering grade materials (HDT, ESD, elastomer, etc.)
Fine features (Min Feature size)	0.032"	0.040"	0.030"	0.030"	0.020"	0.030"	0.020"
Smooth finish Surface Roughness less than 3µm	Requires post processing ~22.5µm	Requires post processing ~8µm	Requires post processing ~10-12µm	Requires post processing ~10-12µm	Yes 2.1µm	Yes ~1.5µm	Yes ~1.22µm
Minimum Lead Time	3 Days						5 Days
Average Lead time (Varies by size for quantities less than 100 with no additional post processing or requirements)	3-9 Days	3-6 Days	3-5 Days	3-5 Days	3-12 Days	3-5 Days	3-10 Days




Lead Time comparison by size

~ 3 Days
~5-10 Days
> 10 Days

			FDM	SLS	MJF	SAF	PJ	SLA	Origin
			Large Bed 36" x 24" x 36"	Large Bed 26" x 13.5" x 20"	Mid Size Bed 14.95" x 11.25" x 14.95"	Mid Size Bed 12.2" x 8.1" x 12.4"	Mid Size Bed 19.3" x 15.4" x 7.9"	Large Bed 25" x 29" x 21"	Small Bed 7.5" x 4.25" x 14.5"
	Small components 1" x 1" x 1"	Quantities 1	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days
		Quantities 10	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days
		Quantities 50	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 5-10 Days	~ 3 Days	~ 3 Days
		Quantities 1000	> 10 Days	~ 5-10 Days	~ 5-10 Days	~ 5-10 Days	> 10 Days	> 10 Days	> 10 Days
	Mid Size 1.45 x 3.74 x 6.21"	Quantities 1	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days	~ 3 Days
		Quantities 10	~ 3 Days	~ 3 Days	~ 3 Days	~ 5-10 Days	~ 5-10 Days	~ 3 Days	~ 5-10 Days
		Quantities 50	~ 5-10 Days	~ 5-10 Days	~ 5-10 Days	~ 5-10 Days	~ 5-10 Days	~ 5-10 Days	> 10 Days
		Quantities 1000	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days
	Large Size 10.37 x 3.78x 10.55"	Quantities 1	~ 3 Days	~ 3 Days	~ 3 Days	~ 5-10 Days	~ 3 Days	~ 3 Days	~ 3 Days
		Quantities 10	~ 5-10 Days	~ 5-10 Days	> 10 Days	> 10 Days	> 10 Days	~ 5-10 Days	~ 3 Days
		Quantities 50	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days
		Quantities 1000	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days	> 10 Days

<\$80
<\$160
>\$170

Cost per part comparison by size

			FDM	SLS	MJF	SAF	PJ	SLA	Origin
			Large Bed 36" x 24" x 36"	Large Bed 26" x 13.5" x 20"	Mid Size Bed 14.95" x 11.25" x 14.95"	Mid Size Bed 12.2" x 8.1" x 12.4"	Mid Size Bed 19.3" x 15.4" x 7.9"	Large Bed 25" x 29" x 21"	Small Bed 7.5" x 4.25" x 14.5
	Small components 1"x 1" x 1"	Quantities 1	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$\$
		Quantities >10	\$	\$	\$	\$	\$	\$	\$
		Quantities >1000	\$	\$	\$	\$	\$	\$	\$
	Mid Size 1.45 x 3.74 x 6.21"	Quantities 1	\$	\$	\$\$	\$\$	\$\$\$	\$\$	\$\$
		Quantities >10	\$	\$	\$	\$	\$\$	\$	
		Quantities >1000	\$	\$	\$	\$	\$\$	\$	
	Large Size 10.37 x 3.78x 10.55"	Quantities 1	\$\$\$	\$\$	\$\$	\$\$	\$\$\$	\$\$	
		Quantities >10	\$\$	\$\$				\$	
		Quantities >1000	\$\$\$	\$\$				\$	

At Stratasys Direct, we believe quality is essential part of production which is why we offer the following services:

Inspection

- **Six Point Standard**
- Inspect per Drawing w/ no report
- Inspect per Drawing w/ report
- Customer Source Inspection

Testing

- Tensile Test
- Flexural Test
- Compression Test
- Density Verification
- Microstructure Verification
- Shore Hardness Test
- Surface Roughness Test
- Custom Testing (Boeing...)

Reporting

- SDM First Article Inspection Report
- AS9102 First Article Inspection Report
- Customer FAI

Certifications

- Certificate of Conformance*
- Certificate of Analysis*
- Material Certification
- ReaCH*
- RoHS*

**Additional charges may occur if customized*

Quality Control

- Bag and Tag
- In Process Inspection