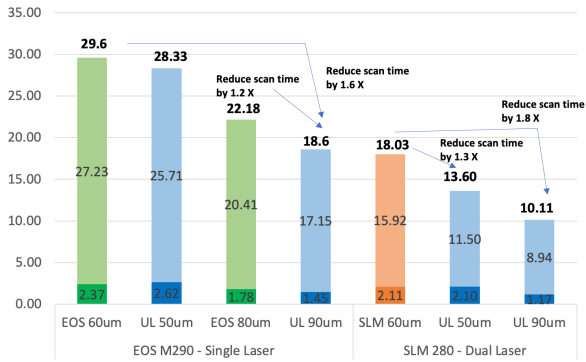


No Compromise Metal AM

UniFuse™ AlSi10Mg 50um and 90um 400W Cam Tray Use Case

Uniformity Labs UniFuse™ AlSi10Mg 50um 400W and 90um 400W mechanical properties are comparable or superior to the competitor's 60um 400W mechanical properties. Uniformity Labs UniFuse™ AlSi10Mg ultra low porosity powder and High Performance Scanning, in this example of production printing, achieve a 1.8X faster build time when compared to the competitor's lower layer thickness scan strategies targeting best-in-class mechanical properties. This throughput improvement is typical for UniFuse™ AlSi10Mg builds.

AlSi10Mg 400W Build Times (Hrs)

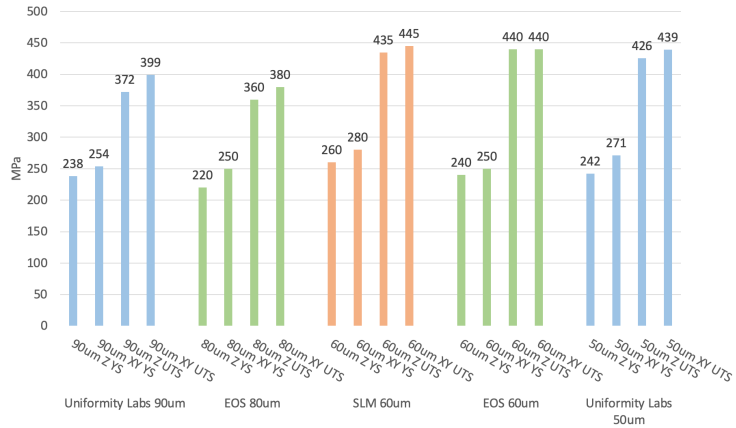


UL Parameters
■ Exposure Time
■ Recoating Time

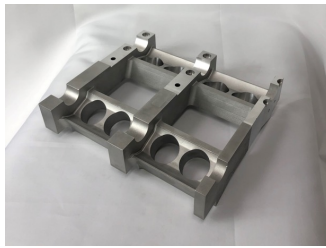
SLM Parameters
■ Exposure Time
■ Recoating Time

EOS Parameters
■ Exposure Time
■ Recoating Time

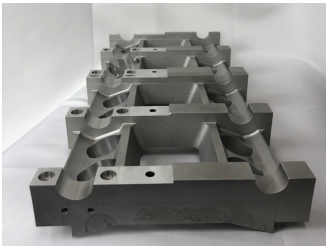
Comparable Mechanical Performance (400W)



Density	g/cm ³	%
Uniformity 50um	2.67	≥ 99.7
SLM 60um	N/A	≥ 99.5
EOS 60um	≥ 2.66	N/A
EOS 80um	≥ 2.65	≥ 99.3
Uniformity 90um	≥ 2.66	≥ 99.5



Elongation	Vertical	Horiz.
Uniformity 50um	4.7%	7%
SLM 60um	5%	8%
EOS 60um	4%	7%
EOS 80um	2%	2%
Uniformity 90um	3.2%	4.9%



Vertical Surface Roughness Ra (microns)	
Uniformity 50um	3.7 – 6.5 um
SLM 60um	11 – 15 um
EOS 60um	8 – 10 um
EOS 80um	N/A
Uniformity 90um	13.4 – 15.4 um



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