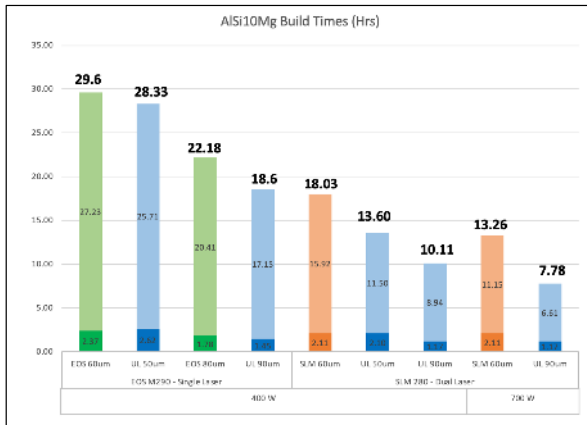
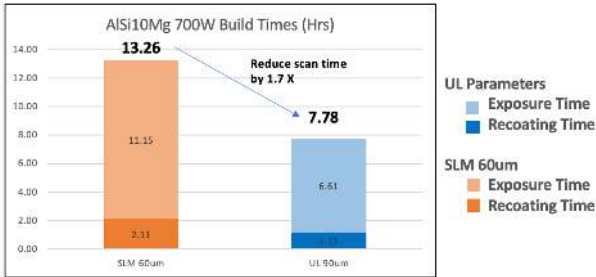
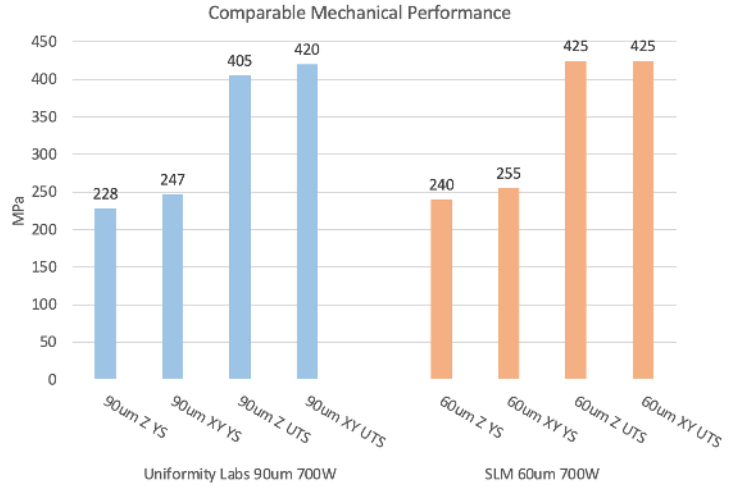


No Compromise Metal AM

UniFuse™ AlSi10Mg 90um 700W Cam Tray Use Case

Uniformity Labs UniFuse™ AlSi10Mg 90um 700W mechanical properties are comparable or superior to the competitor's 60um 700W mechanical properties. Uniformity Labs UniFuse™ AlSi10Mg ultra low porosity powder and High Performance Scanning, in this example of production printing, achieve a 1.7X 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.

Vertical Surface Roughness Ra (microns)		
SLM 60um	12 – 20 um	
Uniformity 90um	14.3 – 15.7 um	
Elongation		
	Vertical	Horiz.
SLM 60um	6%	8%
Uniformity 90um	4%	5.8%
Density		
	g/cm ³	%
SLM 60um	N/A	≥ 99.4
Uniformity 90um	2.67	≥ 99.7



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UL Parameters
■ Exposure Time
■ Recoating Time

SLM Parameters
■ Exposure Time
■ Recoating Time

EOS Parameters
■ Exposure Time
■ Recoating Time