

We are happy to provide the following guidance on tolerances for our range of 3D Printing Technologies. The 3D printing industry frequently uses terms like “expected”, “general” and “typical” when discussing accuracy without providing any context as to the meaning of these terms. Through collecting thousands of measurements we understand the capability of our machines and defined as follows.

More information on how we achieve these tolerances can be found here: www.graphite-am.co.uk

“Typical” = Achieved on >95% of built parts

“Guaranteed” = Achieved on ALL delivered parts

	Typical Tolerance (achieved >95% parts)	Guaranteed Tolerance (all delivered parts)	Enhanced Tolerance
SLA	±0.10% (min ±0.13mm)	±0.40% (min ±0.25mm)	Please call to discuss specific tolerance requirements.
SLS	±0.13% (min ±0.15mm)	±0.50% (min ±0.30mm)	
MJF*	±0.30% (min ±0.20mm)	±0.50% (min ±0.35mm)	

*MJF accuracy is based on the data provided from HP validated by in-house analysis

We are here to support your particular project needs with tighter tolerances than those stated in the table above achievable, please get in touch to discuss these requirements.

The guaranteed tolerance in the table above shows the minimum quality level you can expect from the parts we build.

Due to the complex nature of part geometries and the expedited lead times we often work to, Graphite Additive Manufacturing use a number of calibration components alongside linear measurements of components to ensure they are within specification. FAI Reports, 100% Inspection Reports and CMM are all available upon request.

