



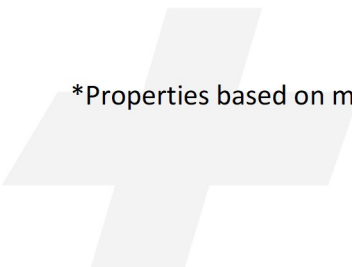
AMDI 3D Printer Equipment

All Dimensions are in Millimeters			
Printer	Envision One cDLM XL	3DXTECH Gearbox HT2	Markforged Metal X
Technology	Liquid photopolymer	Polymer melt extrusion	Metal melt extrusion
Build Volume	180 x 101 x 320	457 x 457 x 813	300 x 220 x 180
Minimum Part Dimensions / Minimum Feature Size	0.5	1.0	2.0 x 2.0 x 1.3
Maximum Post-Sinter Part Dimensions	No Sintering	No Sintering	235.0 x 68.3 x 69.2
XY Resolution	0.06 to 0.09	0.127	0.05
Z Resolution	0.05 - 0.150	0.25	0.085 - 0.170 (Post-Sinter)

In Stock Photopolymer Materials

Material	Color	Similar to:	Typical Properties*		Relative Cost
			Tensile (MPa)	Elongation (%)	
E1-Rigid PU	Black	Polyurethane	20	173	\$\$
E-RigidForm	Charcoal	Polyurethane	70	6	\$\$
Loctite E-3172	Grey	Polypropylene	40	110	\$
Loctite IND405	Black	Polypropylene	45	127	\$
Loctite MED413	Clear	Polyurethane	40	50	\$\$\$
Loctite IND402	Black	Elastomer	5.5	230	\$\$

*Properties based on material supplier datasheets.



In Stock Metal Melt Extrusion Materials

Material	Color	Typical Properties*		Relative Cost
		Tensile (MPa)	Elongation (%)	
17-4PH Stainless Steel	Gray	1180	7	\$\$\$
D2 Tool Steel	Gray	n/a	n/a	\$\$\$\$
H13 Tool Steel	Gray	1420	5	\$\$\$\$
Inconel 625	Gray	765	42	\$\$\$\$\$
Copper	Copper	117	15	\$\$\$\$\$

In Stock Polymer Melt Extrusion Materials

Material	Color	Grade	Typical Properties*		Relative Cost
			Tensile (MPa)	Elongation (%)	
ABS	Black White Blue Green	General purpose	42	10	\$
Poly ether imide	Black Natural (Amber)	High Temperature & Strength	56	3	\$\$\$
Many other materials are available including ASA, Nylon, PC, and PEKK. Specialty material options include carbon fiber and glass reinforced, electrostatic dissipative, electromagnetic interference shielded, and flame resistant.					

Please contact with any questions or to request a quote:

John Hall

John.Hall@AMDIolutions.org

616-331-6106

Advanced Medical Device Innovations (AMD)
227 Winter Ave NW, IDC 190
Grand Rapids, MI 49504

AMD can help you design or improve your part. Reach out for details.

*Properties based on material supplier datasheets.