

CERAMIC PRINTING

ADDITIVE MANUFACTURING OPTIONS

INFO#	Company Name/ Website	Ceramic Printer	Printing Process	Build Volume (Inches)	Min. Layer Thickness (mm)*	COMPATIBLE CERAMIC MATERIALS							Pricing (\$ U.S.)				
						Alumina	Aluminum Nitride	Corundum	Hydroxyapatite	Pottas. Clay/Stoneware	Silica-Based	Silicon Carbide		Silicon Nitride	Tricalcium Phosphate	Zirconia	
110	3D Minerals 3d-minerals.com	Cartesian 3D Printer	SDM/PDM	19.7x19.7x19.7		CM				✓						CM	
111	3DCERAM 3dceram.com	C101 EASY LAB	SLA	12.5x12.5x7.8	From 0.025 to 0.125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM	
		C101 EASY FAB	SLA	12.5x12.5x7.8	From 0.025 to 0.125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		C1000 FLEXMATIC	SLA	12.6x12.6x7.9	From 0.025 to 0.125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		C3600 ULTIMATE	SLA	23.6x23.6x11.8	From 0.025 to 0.125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
112	Desktop Metal desktopmetal.com	InnoventX	BJT	6.3x2.5x2.5	65µm	✓	✓					✓				CM	
		X25Pro	BJT	15.75x9.84x9.84	65µm	✓	✓					✓				CM	
		X160Pro	BJT	31.5x19.7x15.8	65µm	✓	✓					✓				CM	
113	Formlabs formlabs.com	Form 3+	SLA	5.7x5.7x7.3	25 to 300µm	✓										Starting at \$2,499	
		Form 4	SLA	79x4.9x8.3	25 to 300µm	✓											Starting at \$4,499
114	Lithoz lithoz.com	CeraFab System S65/Medical	LCM	4x2.5x12.6	10 to 100µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM	
		CeraFab System S25	LCM	2.5x1.6x12.6	10 to 100µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		CeraFab System S230	LCM	7.6x4.7x12.6	25 to 200µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		CeraFab Lab L30	LCM	2.9x1.7x6.7	25 to 100µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		CeraFab Multi 2M30	LCM	2.9x1.7x6.7	10 to 100µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
		CeraMax Vario V900	LIS	Up to 9.8x9.8x11.4	200 to 1,000µm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
115	Pollen AM Inc. pollen.am	Pam o2 MC	FGF	11.81	0.045	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$80,000	
116	Tethon 3D tethon3d.com	Bison 1000 DLP Printer	DLP	4.3x2.4x5.4	25, 50, 100µm	✓	✓	✓								CM	
		Gazelle DLP Printer	DLP	320x290x500 mm	25 to 150µm	✓	✓	✓									CM
117	VormVrij 3D vormvrij.nl	LUTUM 5XL	LDM	15.7x18.1x31.4	0.6			✓								CM	
		LUTUM 5	LDM	15.7x18.1x19.6	0.6			✓								CM	
		LUTUM 5M	LDM	9.8x9.8x15.7	0.6			✓								CM	
		LUTUM 4.6	LDM	16.9x18.1x19.6	0.6			✓								CM	
		LUTUM 4Mpro	LDM	9.8x9.8x15.7	0.6			✓								CM	
		BRUTUM	LDM	39.3x39.3x23.6	0.6			✓								CM	
118	Voxeljet voxeljet.com	VX200	BJT	5.9x11.8x7.9	CM					✓						CM	
		VX1000	BJT	39.3x23.6x19.7	CM					✓						CM	
119	WASP 3dwasp.com	Delta WASP 2040 Clay	CM	7.87x15.7	CM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM	
		Delta WASP 40100 LDM	LDM	15.7x39.3	CM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	CM
120	Xjet xjet3d.com	Carmel 1400C Ceramic System	NPJ	19.7x5.5	0.01	✓								✓		CM	

KEY

- BJT = Binder Jetting Technology
- CM = Contact Manufacturer
- DLP = Digital Light Processing
- FGF = Fused Granular Fabrication
- LCM = Lithography-Based Ceramic Manufacturing
- LDM = Liquid Deposition Modeling
- LIS = Laser Induced Slipcasting
- mm = millimeter
- µm = Micrometer
- NPJ = NanoParticle Jetting
- PDM = Paste Deposition Modeling
- SDM = Slurry Deposition Modeling
- SLA = Stereolithography
- *Unless Noted Otherwise

