



HEAVY M

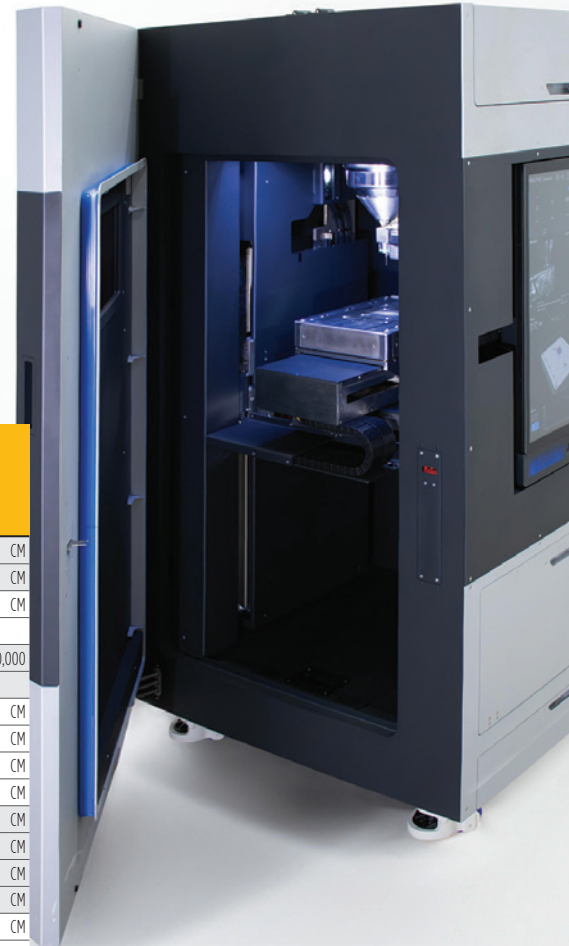
INFO#	Company Name/Website	Printer Name	Printing Process	Build Volume (Inches ³)	Min. Layer Thickness (mm)	OPTIONS							Pricing (U.S. \$)
						Aluminum	Cobalt	Copper	Nickel-Based Alloys	Precious Metals	Stainless Steel	Titanium	
130	3dsystems.com	DMP Flex 200	LPBF	140x140x115 mm	0.01	✓	✓	✓	✓	✓	✓	✓	CM
		DMP Flex 350	LPBF	275x275x420 mm	0.03	✓	✓	✓	✓	✓	✓	✓	CM
		DMP Flex 350 Dual	LPBF	275x275x420 mm	0.03	✓	✓	✓	✓	✓	✓	✓	CM
		DMP Flex 350 Triple	LPBF	350x350x350 mm	0.03	✓	✓	✓	✓	✓	✓	✓	CM
		DMP Factory 500	LPBF	500x500x500 mm	0.03	✓	✓	✓	✓	✓	✓	✓	CM
131	additec3d.com	ElemX	LMJ	CM	CM	✓	✓	✓	✓	✓	✓	✓	CM
		AMDR0ID X	Wire DED	1.4x1.4x1.47 m	0.6	✓	✓	✓	✓	✓	✓	✓	CM
132	altform.com	Print Sharp 100	LPBF	130x130 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Blue 100	LPBF	130x100 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Sharp 200	LPBF	200x200 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Genius 200	LPBF	200x200 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Sharp 300	LPBF	330x330x450 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Genius 300	LPBF	330x330x450 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Genius 400	LPBF	420x420x450 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		Print Brilliance 400	LPBF	420x420x450 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
133	caracol-am.com	Vipra AM XQ	WAAM PAD	8.2x6.6x6.6	0.8	✓	✓	✓	✓	✓	✓	✓	CM
		Vipra AM XP	WAAM CMT	8.2x6.6x6.6	0.8	✓	✓	✓	✓	✓	✓	✓	CM
134	us.dmgmori.com	Lasertec 3D DUAL SLM	SLM	11.8x11.8x13.8	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 12 SLM	SLM	4.9x4.9x7.9	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 6600 DED Hybrid	DED	40.9x24x153.1	0.1	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 3000 DED Hybrid	DED	26.6x11.8x61.5	0.1	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 125 DED Hybrid	DED	52.6x49.2x35.4	0.1	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 65 DED Hybrid	DED	28.9x25.6x22	0.1	✓	✓	✓	✓	✓	✓	✓	CM
		Lasertec 65 DED	DED	28.9x25.6x22.0	0.1	✓	✓	✓	✓	✓	✓	✓	CM
135	exaddon.com	CERES	Electrochemical	10x10x19 mm	0.0005	✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM
136	eos.info/en-us	EOS M 290	DMLS	9.85x9.85x12.8	CM	✓	✓	✓	✓	✓	✓	✓	CM
		EOS M 290-2	DMLS	9.8x9.8x12.8	CM	✓	✓	✓	✓	✓	✓	✓	CM
		EOS M 300-4	DMLS	11.8x11.8x15.8	CM	✓	✓	✓	✓	✓	✓	✓	CM
		EOS M 400	DMLS	15.8x15.8x15.8	CM	✓	✓	✓	✓	✓	✓	✓	CM
		EOS M 400-4	DMLS	15.8x15.8x15.8	CM	✓	✓	✓	✓	✓	✓	✓	CM
		EOS M4 ONYX	DMLS	17.7x17.7x15.7	CM	✓	✓	✓	✓	✓	✓	✓	CM
137	eplus3d.com	EP-M2050	PBF	2,050x2,050x1,000 mm	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M1550	PBF	61.02x61.02x43.31	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M1250	PBF	49.21x49.21x53.15	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M825	PBF	32.5x32.5x43.3	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M650	PBF	25.59x25.59x31.49	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M450H	PBF	17.72x17.72x42.52	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M450	PBF	17.72x17.72x21.65	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M400	PBF	15.75x15.75x17.72	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M300	PBF	11.81x11.81x17.72	0.02	✓	✓	✓	✓	✓	✓	✓	CM
		EP-M260	PBF	10.24x10.24x15.35	0.02	✓	✓	✓	✓	✓	✓	✓	CM
138	gefertec.de	arclab	WAAM	120x120x120	1.0	✓	✓	✓	✓	✓	✓	✓	CM
		arclOX	WAAM	120x120x120	1.0	✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM
						✓	✓	✓	✓	✓	✓	✓	CM

KEY

AM = Additive Manufacturing	LMJ = Liquid Metal Jetting
AFSD = Additive Friction Stir Deposition	LPBF = Laser PBF
CM = Contact Manufacturer	M = meter
DED = Directed Energy Deposition	mm = millimeter
DMLS = Direct Metal Laser Sintering	NPJ = NanoParticle Jetting
EB = Electron Beam	PBF = Powder Bed Fusion
EBAM = EB AM	SLM = Selective Laser Melting
EPBF = Electron Beam PBF	WAAM = Wire Arc AM
FDM = Fused Deposition Modeling	*Unless Otherwise Noted

ETAL

3D Metal PRINTING



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						Aluminum	Cobalt	Copper	Nickel-Based Alloys	Precious Metals	Stainless Steel	Titanium	
138	GEFERTEC, continued	arcTitan	WAAM	200x70x100	1.0							✓	CM
	gefertec.de	arc80x	WAAM	200x200x200	1.0	✓	✓	✓	✓	✓	✓	✓	CM
139	JEOL Ltd.	JAM-5200EBM	EB-PBF	250x400 mm	0.05	✓	✓	✓	✓	✓	✓	✓	CM
	jeoladditive.com												
140	Mantle	P-200	TrueShape	200x200x150 mm	CM						✓	✓	\$240,000
	mantle3d.com												
141	Mastrex	MX100	LPBF	100x100x80 mm	0.02	✓	✓		✓		✓	✓	CM
	Mastrex.com	MX150	LPBF	150x150x120 mm	0.02	✓	✓		✓		✓	✓	CM
		MX300	LPBF	300x300x350 mm	0.02	✓	✓		✓		✓	✓	CM
		MX400	LPBF	400x350x400 mm	0.02	✓	✓		✓		✓	✓	CM
153	MELD Manufacturing	L3	AFSD	45x23x23	CM	✓		✓	✓		✓	✓	CM
	meldmanufacturing.com	K2	AFSD	82.68x43.3x39.37	CM	✓		✓	✓		✓	✓	CM
		3P0	AFSD	157.5x106.0x39.4	CM	✓		✓	✓		✓	✓	CM
		CD-14	AFSD	CM	CM	✓		✓	✓		✓	✓	CM
142	Meltio	Meltio M600	DED	300x400x600 mm	0.6		✓	✓	✓	✓	✓	✓	CM
	meltio3d.com												
143	NIDECE MACHINE TOOL	LAMDA200	DED	200x200x200 mm		✓	✓		✓	✓	✓	✓	CM
	nidece-machine-toolamerica.com	LAMDA500	DED	500x500x500 mm		✓	✓		✓	✓	✓	✓	CM
		LAMDA2000	DED	2,000x1,500x1,000 mm		✓	✓		✓	✓	✓	✓	CM
		LAMDA5000	DED	5,000x2,500x1,600 mm		✓	✓		✓	✓	✓	✓	CM
144	Nikon	Lasermeister LM300A	DED	297x210x400 mm	CM			✓	✓	✓	✓	✓	CM
	ngpd.nikon.com/en	Lasermeister LM102A Pro	DED	297x210x200 mm	CM			✓	✓	✓	✓	✓	CM
145	Nikon SLM Solutions	SLM 280 2.0	LPBF	280x280x365 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
	nikon-slm-solutions.com	SLM 280 PS	LPBF	280x280x365 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		SLM 500	LPBF	280x500x365 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		NXG XII 600	LPBF	600x600x600 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
		NXG 600E	LPBF	600x600x1500 mm	CM	✓	✓	✓	✓	✓	✓	✓	CM
146	Rapidia	Conflux 1	FDM	79x9.5x5.9	0.2		✓	✓			✓	✓	\$99,000
	rapidia.com												
147	Sciaky, Inc.	EBAM-53	EBAM	26x26x26	CM	✓	✓	✓	✓	✓	✓	✓	\$2,500,000
	sciaky.com	EBAM-110	EBAM	85x42x60	CM	✓	✓	✓	✓	✓	✓	✓	\$4,250,000
		EBAM-360	EBAM	240x80x72	CM	✓	✓	✓	✓	✓	✓	✓	\$8,500,000
148	Sharebot US	metalONE	DMLS	2.5x2.5x3.9	0.05	✓	✓	✓	✓	✓	✓	✓	\$90,000
	sharebot.us												
149	Velo3D	Sapphire	LPBF	CM	CM								CM
	velo3d.com	Sapphire 1M2	LPBF	CM	CM								CM
		Sapphire XC	LPBF	CM	CM								CM
		Sapphire XC 1M2	LPBF	CM	CM								CM
150	Wayland Additive	Calibur3	EPBF	12x12x18	0.05		✓				✓	✓	CM
	waylandadditive.com												
151	Xact Metal	XM200G	DMLS	5.9x5.9x5.9	CM	✓	✓	✓	✓		✓	✓	CM
	xactmetal.com	XM300G	DMLS	11.8x11.8x17.7	CM	✓	✓	✓	✓		✓	✓	CM
152	XJet 3D	Carmel 1400M Metal System	NPJ	19.72x5.5	0.01						✓		CM
	xjet3d.com	Carmel 5000X Metal System	NPJ	19.72x11	0.01						✓		CM

Electron Beam Powder Bed Fusion

JEOL **ADDITIVE**

Additive Manufacturing
Electron Beam Powder Bed Fusion

JAM-5200EBM

Metal 3D Printer

Tungsten Parts Printed by EB-PBF

- Capable of printing fully dense:
 - Tungsten
 - Copper
 - Refractory Metals
- In-situ process monitoring with Backscattered Electron Imaging

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