

Direct Metal Printers

Metal Additive Manufacturing with the DMP printer series









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ProX® DMP 200

ProX® DMP 300

ProX® DMP 320

	DIVIP FIEX 100	Prox DIVIP 200	PLOY, DIML 200	Prox Divip 320			
Specifications							
Laser Power Type	100 W/Fiber laser	300 W/Fiber laser	500 W/Fiber laser ⁴	500 W/Fiber laser ⁴			
Laser Wavelength	1070 nm	1070 nm	1070 nm	1070 nm			
Build Volume (X x Y x Z) ¹	3.94 x 3.94 x 3.15 in (100 x 100 x 80 mm)	5.51 x 5.51 x 3.94 in (140 x 140 x 100 mm)	9.84 x 9.84 x 12.01 in (250 x 250 x 300 mm)	10.82 x 10.82 x 14.96 in (275 x 275 x 380 mm)			
Layer Thickness	Preset: 3	reset: 40 µm	10μm - 100μm Preset: 30 and 60 μm				
LaserForm [®] metal alloy choices with developed print parameters:	LaserForm CoCr (B) LaserForm 17-4PH (B) LaserForm CoCr (C)	LaserForm CoCr (B) LaserForm 17-4PH (B) LaserForm Maraging Steel (B) LaserForm AlSi12 (B)	LaserForm CoCr (B) LaserForm 17-4PH (B) LaserForm Maraging Steel (B) LaserForm AlSi12 (B)	LaserForm Ti Gr1 (A) ² LaserForm Ti Gr5 (A) ² LaserForm Ti Gr23 (A) ² LaserForm AlSi10Mg (A) ² LaserForm Ni625 (A) ³ LaserForm Ni718 (A) ³ LaserForm T-4PH (A) ³ LaserForm CoCrF75 (A) ³ LaserForm 316L (A) ³ LaserForm Maraging Steel (A) ³			
Material Deposition	Roller	Roller	Roller	Scraper			
Repeatability	—————————————————————————————————————						
Minimum Feature Size		100 μm					
Typical Accuracy	± 0.1-0.2% with ± 50 µm minimum	± 0.1-0.2% with ± 50 μm minimum	± 0.1-0.2% with ± 50 µm minimum	± 0.1-0.2% with ± 50 μm minimum			
Space Requirements							
Dimensions, uncrated (WxDxH)	48 x 68 x 83 in (121 x 172 x 210 cm)	48 x 59 x 77 in (120 x 150 x 195 cm)	95 x 87 x 95 in (240 x 220 x 240 cm)	93 x 91 x 91 in (235 x 230 x 230 cm)			
Weight, uncrated	1300 kg (2870 lbs)	Approx. 1500 kg (3300 lbs)	Approx. 5000 kg (11000 lbs)	Approx. 4700 kg (10500 lbs)			
Facility Requirements							
Electrical Requirements	230 V / 2.7 KVA / single phase	400 V / 8 KVA / 3 phase	400 V / 15 KVA / 3 phase	400V / 10 KVA / 3 phase			
Compressed Air Requirements	6-8 bar	6-8 bar	6-8 bar	4-8 bar			
Gas Requirements	Nitrogen or Argon, 6-8 bar	Nitrogen or Argon, 6-8 bar	Nitrogen or Argon, 6-8 bar	Argon, 1.5-4 bar			
Water Cooling	Not required, air cooling included	Chiller included in printer	Chiller included in printer	Chiller supplied with printer			
Control System and Software							
Software Tools	3DXpert™ all-in-one soft	tware solution for metal additiv	e manufacturing - DMP Dental fo	or dental applications			
Control Software	PX Control V3	PX Control V2	PX Control V2	DMP Software suite			
Operating System	Windows 7	Windows 7	Windows 7	Windows 7, 64 bit			
Input Data File Formats	All CAD formats, e.g. IGES, STEP, STL, n		ead formats incl PMI data, all Me	sh formats			
Network Type and Protocol	——————————————————————————————————————						
Accessories							
Recycling System	Optional external system	Optional external system	Automatic	Optional external system			
Optional Accessories				Optional secondary module for fast material exchange			
Handling							
Material Loading	Manual	Semiautomatic	Automatic	Manual			
Interchangeable Build Modules	No	No	No	Yes			
Certification	CE marked	CE marked, TUV	CE marked, TUV	CE marked, TUV			

¹ Maximum available part size using standard build plate ² Set up A ³ Set up B ⁴ Maximum laser power at powder layer is typical 450W for 500W lasers

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