Selective Laser Sintering Printers

Production thermoplastic parts with ProX® and sPro™ SLS 3D printers

	ProX® SLS 6100	sPro™ 60 HD-HS	sPro™ 140	sPro™ 230
PRINTER PROPERTIES				
3D Printer Size Crated (WxDxH)	204 x 153 x 258 cm (80 x 60 x 101 in)	191 x 140 x 229 cm (75 x 55 x 90 in)	229 x 178 x 257 cm (90 x 70 x 101 in)	267 x 224 x 292 cm (105 x 88 x 115 in)
3D Printer Size Uncrated (WxDxH)	174 x 123 x 230 cm (69 x 48 x 90 in)	175 x 127 x 213 cm (69 x 50 x 84 in)	213 x 163 x 241 cm (84 x 64 x 95 in)	251 x 208 x 274 cm (99 x 82 x 108 in)
3D Printer Weight Crated **3D Printer Weight Uncrated** (Weights do not incl. MQC, MDM or BOS)	1485 kg (3274 lb) 1360 kg (3000 lb)	1885 kg (4147 lb) 1865 kg (4103 lb)	2250 kg (4950 lbs) 2224 kg (4893 lbs)	2539 kg (5586 lbs) 2541 kg (5531 lbs)
Electrical Requirements				
System	208 VAC/10 kVA, 50/60 Hz, 3 PH	240 VAC/17 kvA, 50/60Hz, 3 PH	208 VAC/17 kvA, 50/60Hz, 3 PH	208 VAC/17 kvA, 50/60Hz, 3 PH
Single or dual MQCs	208-230VAC, 50/60Hz, 1PH			
Laser Power Type	100 W / CO_2	70 W / CO_2	70 W / CO_2	70 W / CO_2
Powder Recycling and Handling	Automatic (single or dual Material Quality Control systems or MQC servicing one or two printers respectively)	Manual (enables material changeovers)	Automatic	Automatic
Systems Warranty	One-year warranty, under 3D Systems purchase terms and conditions			
PRINTING SPECIFICATIONS				
Max Build Envelope Capacity (xyz)[1]	381 x 330 x 460 mm (15 x 13 x 18 in) 57.5 l (3510 cu in)	381 x 330 x 460 mm (15 x 13 x 18 in) 57.5 l (3510 cu in)	550 x 550 x 460 mm (22 x 22 x 18 in) 139 l (8500 cu in)	550 x 550 x 750 mm (22 x 22 x 30 in) 227 l (13900 cu in)
Layer Thickness Range (typical)	0.08 – 0.15 mm 0.003 – 0.006 in (0.10 mm, 0.004 in)	0.08 – 0.15 mm 0.003 – 0.006 in (0.10 mm, 0.004 in)	0.08 – 0.15 mm 0.003 – 0.006 in (0.10 mm, 0.004 in)	0.08 – 0.15 mm 0.003 – 0.006 in (0.10 mm, 0.004 in)
Volume Build Rate	2.7 l/hr	1.8 l/hr	3.0 l/hr	3.0 l/hr
Imaging System	ProScan™ DX Digital High Speed	ProScan™ CX (digital)	ProScan™ Standard Digital Imaging Systems	ProScan™ Standard Digital Imaging Systems
Scanning Speed				
Fill	12.7 m/s (500 in/s)	HD: 6 m/s (200 in/s); HS: 12.7 m/s (500 in/s)	10 m/s (400 in/s)	10 m/s (400 in/s)
Outline	5 m/s (200 in/s)	HD: 2.5 m/s (100 in/s); HS: 5 m/s (200 in/s)	5 m/s (200 in/s)	5 m/s (200 in/s)
Powder Layout	Variable Speed Counter Rotating Roller	Precision Counter Rotating Roller	Counter Rotating Roller	Counter Rotating Roller
MATERIALS				
Build Materials	See material selector guide and individual material datasheets for specifications on available materials.			
Material Packaging	7.5 kg bottles for hands-free automatic powder handling	10 kg boxes; 15 kg boxes for DuraForm GF only	100 kg IPCs (Intelligent Powder Cartridges); 150 kg IPCs for DuraForm GF only	
SOFTWARE AND NETWORK				
Included Software	3D Sprint®		Build Set up 3D Sprint support as virtual environment	
3D Sprint® Software	Prepares and optimizes design file data, and manages the additive manufacturing process on plastic 3D printers.			
3D Connect™ Capable	3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for support.			

[1] Maximum part size is dependent on geometry, among other factors.

3D SYSTEMS
Additive Manufacturing Solutions