3D SYSTEMS

Figure 4[®] Modular

A scalable 3D manufacturing solution for prototyping and production



Materials

Build Volume (xyz)	124.8 x 70.2 x 346 mm (4.9 x 2.8 x 13.6 in)	Build Materials	UV curable plastics: Figure 4" TOUGH-GRY 10 – Rigid dark gray Figure 4 TOUGH-GRY 15 – Rigid gray Figure 4 FLEX-BLK 10 – Flexible black Figure 4 FLAST-BLK 10 – Elastomeric black Figure 4 TOUGH-BLK 20* – Rigid black Figure 4 MED-AMB 10* – Transparent biocompatible Figure 4 JCAST-GRN* – Jewelry casting
Minimum Layer Thickness	0.01 mm (0.0004 in)		
Resolution	1920 x 1080 pixel		
Pixel Pitch	65 microns (0.0025 in) (390.8 effective PPI)		
Wavelength	405 nm	Material Deskasing	
Operating Environment Temperature Humidity (RH)	24/7 operation 5-30 °C (41-86 °F) 30-70%	Material Packaging Material Mixing (purchase separately)	2.5 kg cartridges for automated replenishment Mixing Roller product recommendations are available upon request
Electrical	100-240 VAC, 50/60 Hz, Single Phase, 15A/7.5A		
Compressed Air	Minimum pressure of 4.83 bar (70 psig) of dry air. 9.5 mm or 6.4 mm (0.38 or 0.25 in) OD tubing. Connections external to machine not supplied by 3D Systems		Software and Network
Configurations	Base unit (controller and a printer), scalable to 24 auxiliary printers		
Dimensions (WxDxH)	Base unit (uncrated): 122.6 x 72.9 x 209.1 cm (48.2 x 28.7 x 82.3 in) Auxiliary printer (uncrated): 66.1 x 72.9 x 209.1 cm (26 x 28.7 x 82.3 in)	3D Sprint® Software	Easy build job set-up, submission and job queue management; Automatic part placement and build optimization tools; Part nesting capability; Part editing tools; Automatic support generation; Job statistics
Weight	Controller (uncrated): 98.5kg (217.2 lbs) Printer (uncrated): 190.5kg (420 lbs)	3D Connect [™] Software Capable	3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for proactive and preventative support.
Certifications	FCC, CE, EMC, UL	Commonstinuitore	
		Connectivity	RJ45 Ethernet interface. Network hub and cabling not provided
Post-Processing Accessories		Client Hardware	3 GHz multiple core processor (2 GHz Intel® or
Post-Processing	Cleaning, drying and curing	Recommendation	 AMD® processor minimum) with 8 GB RAM or more (4 GB minimum) OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 minimum), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 minimum) screen resolution or higher SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache) Google Chrome or Internet Explorer 11 (Internet Explorer 9 minimum) Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application
Cleaning Solvents	IPA, Easy Rinse C, TPM		
Curing Accessories (purchase separately) Figure 4 UV Cure Unit 350	Dimensions (WxDxH): 50 x 57 x 100 cm Full light spectrum: 300-550 nm Controlled temperature for optimal curing Weight (uncrated): 77.1 kg		
LC-3DPrint Box (for curing printed parts with a Z height up to 195 mm)	Load capacity (WxDxH): 260 x 260 x 195 mm Dimensions (WxDxH): 41 x 44 x 38 cm Full light spectrum: 300-550 nm Controlled temperature for optimal curing Weight (uncrated): 22 kg Electrical: 110V/230V, 50/60 Hz, 2.6A/1.3A	Client Operating System	Windows® 7 and newer (64-bit OS)
		Input File Formats Supported	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T

Printer Hardware

Figure 4[™] Materials for Figure 4[®] Modular

A variety of robust, industrial-grade materials for fast prototyping, casting, elastomeric application and bridge manufacturing



Figure 4 TOUGH-GRY 10

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Figure 4 TOUGH-GRY 15 Figure 4 FLEX-BLK 10 Figure 4 ELAST-BLK 10 Figure 4 Figure 4 Figure 4 Figure 4 Properties Condition **TOUGH-GRY 10 TOUGH-GRY 15** FLEX-BLK 10 **ELAST-BLK 10** Description ABS-like, high-speed ABS-like, economical Polypropylene-like, flexible Design elastomer Applications Rapid design iteration, Rapid design iteration, Rapid design iteration, Design verification, functional testing, shortfunctional testing, shortfunctional testing, shortvalidation and testing of run manufacturing, RTV run manufacturing, RTV run manufacturing, RTV rubber parts molding patterns molding patterns molding patterns Color Dark Gray Gray Black Black Viscosity (cps) at 25 °C 490 780 2108 1200 Solid Density (g/cm³) at 25 °C 1.11 1.12 1.15 1.13 Liquid Density (g/cm³) at 25 °C 1.04 1.04 1.06 1.06 Package Volume 2.5 kg cartridge 2.5 kg cartridge 2.5 kg cartridge 2.5 kg cartridge Layer Thickness (mm) 0.05 0.05 0.10 0.10 Standard Mode Vertical Build Speed Standard Mode (mm/hr) 78 47 41 33 Draft Mode (mm/hr) 104 68 55 NA Tensile Strength, Ultimate ASTM D638 50 48 46 3.6 (MPa) Tensile Strength, at Yield ASTM D638 50 48 37 NA (MPa) Tensile Modulus (MPa) ASTM D638 2180 2120 1400 3.6 **Elongation at Break** ASTM D638 25% 35% 83% 104% **Elongation at Yield** ASTM D638 4% 4% 6% NA Flexural Strength (MPa) ASTM D790 75 73 37 NA Flexural Modulus (MPa) ASTM D790 2070 1960 990 NA Notched Izod Impact ASTM D256 29 32 55 NA Strength (J/m) Unnotched Izod Impact ASTM D4812 598 599 Did not break NA Strength (J/m) Heat Deflection Temperature at 0.45 MPa ASTM D648 59 °C 59 °C NA 52 °C 51 °C 51 °C at 1.82 MPa 43 °C NA Coefficient of Thermal ASTM E831 Expansion (ppm/°C) 93 96 91 NA < Tq> Tg 165 158 138 NA Tear Strength (kN/m) ASTM D624 NA NA NA 11 Compression Set ASTM D395 NA 0.87% NA NA Glass Transition (Tg) DMA, E" 58 °C 55 °C -26 °C 18 °C Hardness, Shore ASTM D2240 81D 82D 76D 65A Water Absorption ASTM D570 0.34% 0.37% 1.40% 1.40%

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