

Figure 4[®] Standalone

Ultra-fast and affordable industrial 3D printer



Part of 3D Systems' scalable, fully integrated Figure 4 technology platform, Figure 4 Standalone is an affordable and versatile solution for low volume production, and same-day prototyping for fast design iteration and verification, offering speed, quality and accuracy with industrial-grade durability, service and support.

Figure 4® Standalone

Ultra-fast and affordable industrial 3D printer



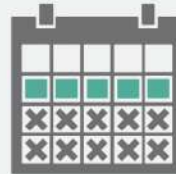
AFFORDABILITY:

Industrial-grade durability at an affordable price



VERSATILITY:

Performance from a variety of materials



SPEED:

Fast throughput speed for accelerated "parts-in-hand" delivery



TOTAL COST OF OPERATIONS:

Cost efficient parts production



FAST TURNAROUND

Achieve same-day functional prototyping and low volume production for output volumes of up to 500 parts per month, with ultra-high speeds up to 100 mm/hour.



EASE OF USE

Figure 4 Standalone was designed for ease-of-use, and includes file preparation and print management with the powerful 3D Sprint® software, quick and easy material changes with a manual material feed, and a separate post-processing accessory available for curing.



CONSISTENT, HIGH QUALITY OUTPUT

Powered by non-contact membrane Figure 4 technology, Figure 4 Standalone offers quality and accuracy at six sigma repeatability, with exceptional surface finish and fine feature detail. With a compact and easy-to-use design, Figure 4 Standalone delivers industrial-grade durability, service, and support with an Advanced Service Exchange model and 3D Connect™ for proactive and preventative support.



WIDE RANGE OF APPLICATIONS

With Figure 4 Standalone versatility, you can use the same printer for rapid iteration, functional prototyping, design verification, end-use parts for low volume production and replacement parts, digital texturing applications, jewelry casting patterns, rapid tooling of molds, master patterns, jigs and fixtures.

Figure 4[®] Standalone

PRINTER HARDWARE	
Build Volume (xyz)	124.8 x 70.2 x 196 mm (4.9 x 2.8 x 7.7 in)
Resolution	1920 x 1080 pixel
Pixel Pitch	65 microns (0.0025 in) (390.8 effective PPI)
Wavelength	405 nm
Operating Environment	
Temperature	18-28 °C (64-82 °F)
Humidity (RH)	20-80%
Electrical	100-240 VAC, 50/60 Hz, Single Phase, 4.0A
Dimensions (WxDxH)	
3D Printer crated	73.66 x 68.58 x 129.54 cm (29 x 27 x 51 in)
Pedestal crated	82.55 x 79.375 x 55.245 cm (32.5 x 31.25 x 21.75 in)
3D Printer uncrated	42.6 x 48.9 x 97.1 cm (16.7 x 19.25 x 38.22 in)
3D Printer + Pedestal uncrated	68.1 x 70.4 x 135.6 cm (26.8 x 27.71 x 53.38 in)
Weight	
3D Printer crated	59 kg (130 lbs)
Pedestal crated	25.3 kg (58 lbs)
3D Printer uncrated	34.5 kg (76 lbs)
3D Printer + Pedestal uncrated	54.4 kg (120 lbs)
Certifications	FCC, CE, EMC

ACCESSORIES	
Post-Processing	Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit
LC-3DPrint Box	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
LC-3DMixer (for mixing materials, purchase separately)	Dimensions (WxDxH): 410 x 270 x 100 mm Weight (uncrated): 4 kg Electrical: 100-240 V, 50/60 Hz

MATERIALS	
Build Materials	See material selector guide and individual material datasheets for specifications on available materials.
Material Packaging	1 kg bottles for manual pour

SOFTWARE AND NETWORK	
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
3D Connect[™] Software Capable	3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for proactive and preventative support.
Connectivity	10/100/1000 Ethernet Interface
Client Hardware Recommendation	<ul style="list-style-type: none"> • 3 GHz multiple core processor (2 GHz Intel[®] or AMD[®] processor mini) with 8 GB RAM or more (4 GB mini) • OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 min), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) 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 diskspace for cache) • Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini) • Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application
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

NOTE: Not all products and materials are available in all countries – please consult your local sales representative for availability.

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Figure 4* Material Properties and Applications Guide



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APPLICATION SPECIFIC	SUITABILITY FOR PART GEOMETRIES (% PRINTABILITY POTENTIAL)**										MECHANICAL PROPERTIES			
	Fine Details and Features	Thin Wall Parts	Fitted Part Assemblies	Medium Cover Parts	Large Cover Parts	Non-Uniform Wall Thickness Parts	Large Cross Sectional Area Parts	Jigs and Fixtures	Tensile Modulus MPA	Elongation @ Break %	Impact Strength (Notched) J/M	HDT @ 0.455 MPA °C		
	PROTOTYPING AND DESIGN VERIFICATION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION	PRODUCTION		
TOUGH-GRY 10	75	85	45	75	85	35	15	25	2180	25	29	59		
TOUGH-GRY 15	75	85	75	75	85	35	15	25	2120	35	32	59		
TOUGH-BLK 20	95	90	85	85	90	75	35	65	1780	36	27	55		
FLEX-BLK 10	85	85	55	75	85	75	15	35	1400	104	55	52		
FLEX-BLK 20	90	90	90	90	95	95	55	85	1150	76	91	41		
PRO-BLK 10	95	95	95	95	95	95	65	95	2320	12	24	70		
Rigid White	95	95	95	95	95	95	95	95	2100	20	21	65		
Rigid Gray	95	95	95	95	95	95	95	95	2400	30	21	72		
Tough 65C Black	90	95	90	95	95	95	95	95	1700	35	31	70		
Tough 60C White	90	95	90	95	95	95	95	95	1500	23	34	65		
High Temp 150C Black	95	95	95	95	95	95	95	95	2600	4	10	>150		
HITEMP 300-AMB	95	95	90	95	95	95	65	95	4100	2.3	10	300		
MED-AMB 10	95	95	90	95	85	95	65	90	2765	4	18	119		
MED-WHT 10	95	95	90	95	85	95	65	90	3090	3	17	102		
RUBBER-65A BLK	50	50	65	90	85	85	65	65	23	126	8.5**	65***		
EGGSHELL-AMB 10	98	98	95	95	95	95	65	65	2765	5	15	89		
RUBBER-BLK 10	80	80	85	95	85	90	65	90	540	80	76**	97***		
ELAST-BLK 10	75	75	60	90	85	85	40	65	3.6	83	11**	65***		

* Top 8 types of part geometries based on years of additive experience. Each part was printed with the suite of Figure 4 materials and assigned a % of parts in that category that the material was well suited for producing.

** Tear Strength Type-C kN/m

*** Shore A Hardness

RATING SYSTEM

- = VERY HIGH
- = HIGH
- = MEDIUM
- = LOW



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PERFORMANCE		Long Term Indoor Environmentally Stable	Long Term Outdoor Environmentally Stable	Differential Shrink	Bottom Surface	Warp	1st Article Success	Supports	NOTES
TOUGH-GRY 10				●●●	●●●	●●●	●●●	●●●●●	<ul style="list-style-type: none"> Fast printing prototyping material Good surface quality for prototyping Light gray material good for contrast and definition
TOUGH-GRY 15				●●●	●●●	●●●	●●●	●●●●●	<ul style="list-style-type: none"> Midline mechanical properties for prototyping including modulus, elongation, and notch impact Good surface quality for prototyping
TOUGH-BLK 20	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Long-term stable material for UV and humidity Better accuracy from low differential shrink & bottom surface quality No settling in resin tray
FLEX-BLK 10			●●●●●	●●●●●	●●●	●●●●●	●●●	●●●	<ul style="list-style-type: none"> Long term stable material for UV and humidity Better accuracy from low differential shrink and bottom surface quality Easier to clean
FLEX-BLK 20	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Faster printing FLEX material good for prototyping
PRO-BLK 10	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Best Figure 4 Material performance for 1st article success Long term stable material for UV and humidity Better accuracy from low differential shrink & bottom surface quality
Rigid White	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Biocompatible, capable of meeting ISO 10993-5 and -10 standards for cytotoxicity, sensitization and irritation Long term stable material for UV and humidity
Rigid Gray	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Long term stable material for UV and humidity Better accuracy from low differential shrink and bottom surface quality
Tough 65C Black	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Long term stable material for UV and humidity Better accuracy from low differential shrink and bottom surface quality
Tough 60C White	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Biocompatible, capable of meeting ISO 10993-5 and -10 standards for cytotoxicity, sensitization and irritation Long term stable material for UV and humidity
High Temp 150C Black	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> UL 94V0 @ 2mm, 3mm and FST 2mm, 3mm capable Long term stable material for UV and humidity
HI TEMP 300-AMB			●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> Very high HDT at both low and high pressure (<300 °C) Better accuracy from low differential shrink & bottom surface quality

Note: Not all products and materials are available in all countries - please consult your local sales representative for availability





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		PERFORMANCE										NOTES	
		Long Term In door Environmentally Stable	Long Term Outdoor Environmentally Stable	Differential Shrink	Bottom Surface	Warp	1st Article Success	Supports					
APPLICATION SPECIFIC	PRODUCTION												
	MED-AMB 10	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> • Biocompatible, capable of meeting ISO 10993-5 & -10 standards for cytotoxicity, sensitization and irritation • Better accuracy from low differential shrink & bottom surface quality
	MED-WHT 10	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> • Biocompatible, capable of meeting ISO 10993-5 & -10 standards for cytotoxicity, sensitization and irritation • Better accuracy from low differential shrink & bottom surface quality
	RUBBER-65A BLK	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> • Long term stable material for UV and humidity • Biocompatible, capable of meeting ISO 10993-5 and -10 standards for cytotoxicity, sensitization, and irritation • Easily breaks away from the injected material once cured • Material is compatible with many platinum and tin silicones
	EGGSHELL-AMB 10			●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> • High tear strength makes a very tough malleable material • Long term stable material for UV and humidity • Better accuracy from low differential shrink & bottom surface quality
	RUBBER-BLK 10	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	<ul style="list-style-type: none"> • Low tear strength combined with low tensile modulus makes parts easy to tear
	ELAST-BLK 10			●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



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