3D SYSTEMS

FIGURE 4 135

HIGH-POWERED, PRECISE PROJECTION PRINTING FOR TOOL-LESS MANUFACTURING

HIGH SPEED, HIGH PRECISION 3D PRINTING SOLUTION FOR INDUSTRIAL PRODUCTION

The Figure 4 135 is a compact, purpose-built solution for high-throughput additive manufacturing, offering best-in-class precision, repeatability, production speed and material performance.

The solution is ideal for complementing or replacing injection mold tooling in plastics manufacturing. Manufacturers can deliver extremely precise and repeatable 3D printed parts suitable for all stages of prototyping, and end-use production parts.

The Figure 4 135's print engine and projector use high-power, low-distortion optics to deliver consistent pixel accuracy, delivering a long projector lifespan and repeatable output over time. Best-in-class part surface quality is achieved through 3D Systems' proprietary image processing technology, which dynamically adjusts grayscale pixels to ensure smooth, accurate results – every single time.

UNLOCK COST SAVINGS AND EFFICIENCY

Traditional mold tooling suits high volumes but comes with long lead times, high upfront costs, and expensive design changes. Digital workflows eliminate these barriers and the ongoing cost of mold storage and maintenance.

The Figure 4 135 can deliver true production-grade outcomes required to complement or replace traditional manufacturing operations.

Wide-ranging uses of Figure 4 135 can include:

- Rapid prototying
- Small batch production
- Custom end-use parts
- Bridge production while waiting for injection molds
- On-demand parts to reduce downtime

FIGURE 4 135 - KEY FEATURES

- Standard build styles with best quality print up to 70 mm per hour for most materials
- High-powered QHD projector, repeatably delivers maximum accuracy and long-term performance
- Option to manage custom projector auto-calibration
- Accuracy of +/- 50 µm < 25 mm, +/- 2 µm for every additional mm
- Exceeds typical industry standards for Aerospace, Medical, and Precision Manufacturing with a Cpk well above 2
- Fast Material changes < 3 minutes
- 7-inch touchscreen UI adjusts angles for visibility without glare; supports rapid task completion
- 3D Sprint software for file preparation, editing, printing, and management
- Fleet workflow optimization and control

Fast Print Technology
Fast curing, each layer cures simultaneously

High Power QHD Projector
5-watt, 2716 x 1528 resolution

Efficiently Sized Build Area, Smaller Pixel
136 x 76 x 165 mm (5.3 x 3 x 6.5 in), 50um pixel

Figure 4 Material Portfolio
20+ proven high performance and engineering resins

Auto and Manual Resin Fill
Auto-fill resin pump or hand pour from a bottle

Material Delivery Module (MDM)
Clean, easy access to high-capacity (9 kg) cartridges

Supports Automated Workflow
Hand free auto-door for easy access to print area, robot accessible, light mast for visual status

Security focused
Conforms to the highest available cybersecurity standards (IEC-62443)

Fully Integrated 3D Sprint Software
Single interface for file preparation, editing, and build management

Production Traceability
Built in bar code scanner for traceability by part platform, machine ID, material batch and time stamp

REPEATABLE OUT-OF-BOX ACCURACY

The Figure 4 135 delivers out-of-box precision with a Cpk > 2, eliminating the need for file-specific calibration; its perfect for scaling digital manufacturing operations and high mix, low volume environments.

THE LEADING PORTFOLIO OF PRODUCTION GRADE RESINS

The Figure 4 135 pairs with engineering-grade resins to produce injection-molded-quality parts with superior smoothness. Choose from a growing portfolio of tough, castable, heat-resistant, and biocompatible materials—offering long-term mechanical stability indoors (8 years) and outdoors (2 years).

END-TO-END FILE TO PRINT SOFTWARE

The Figure 4 135 uses 3D Sprint software for streamlined file prep, editing, printing, and management - no third-party tools needed. Designed for production, it features optimized workflows and UI/UX to maximize build volume and printer efficiency.

ADD AGILITY AND REDUCE COSTS WITH A DIGITAL WORKFLOW

Take the next step in modernizing your manufacturing operation by adding the Figure 4 135, a powerful solution for both prototyping and low-to-mid volume production, offering greater design flexibility, faster turnaround times and reduced costs – without the constraints of traditional tooling.

WHAT IS IT FOR

- Direct production of end-use small plastic parts
- Flame retardant (FR) parts for electronics and connectors
- Thin wall components
- Prototyping and testing
- Housings, covers and snap-fits
- Sensors
- Knobs, grommets and spacers

WHERE PRECISION AND REPEATABILITY ARE CRITICAL

- Electronics / Microelectronics
- Aerospace and Defense
- Medical Devices
- Optics / Photonics
- Automotive, Motorsport and EV
- Robotics & Automation

Optical Flexural Fixture printed in Figure 4 Tough FR V0 Black

Momentary Socket Connectors printed in Figure 4 Tough 75C FR Black

Backplane Connector printed in Figure 4 Tough 75C FR Black

Drone Motor Housing Components printed in Figure 4 Tough FR V0 Black

PRINTER PROPERTIES

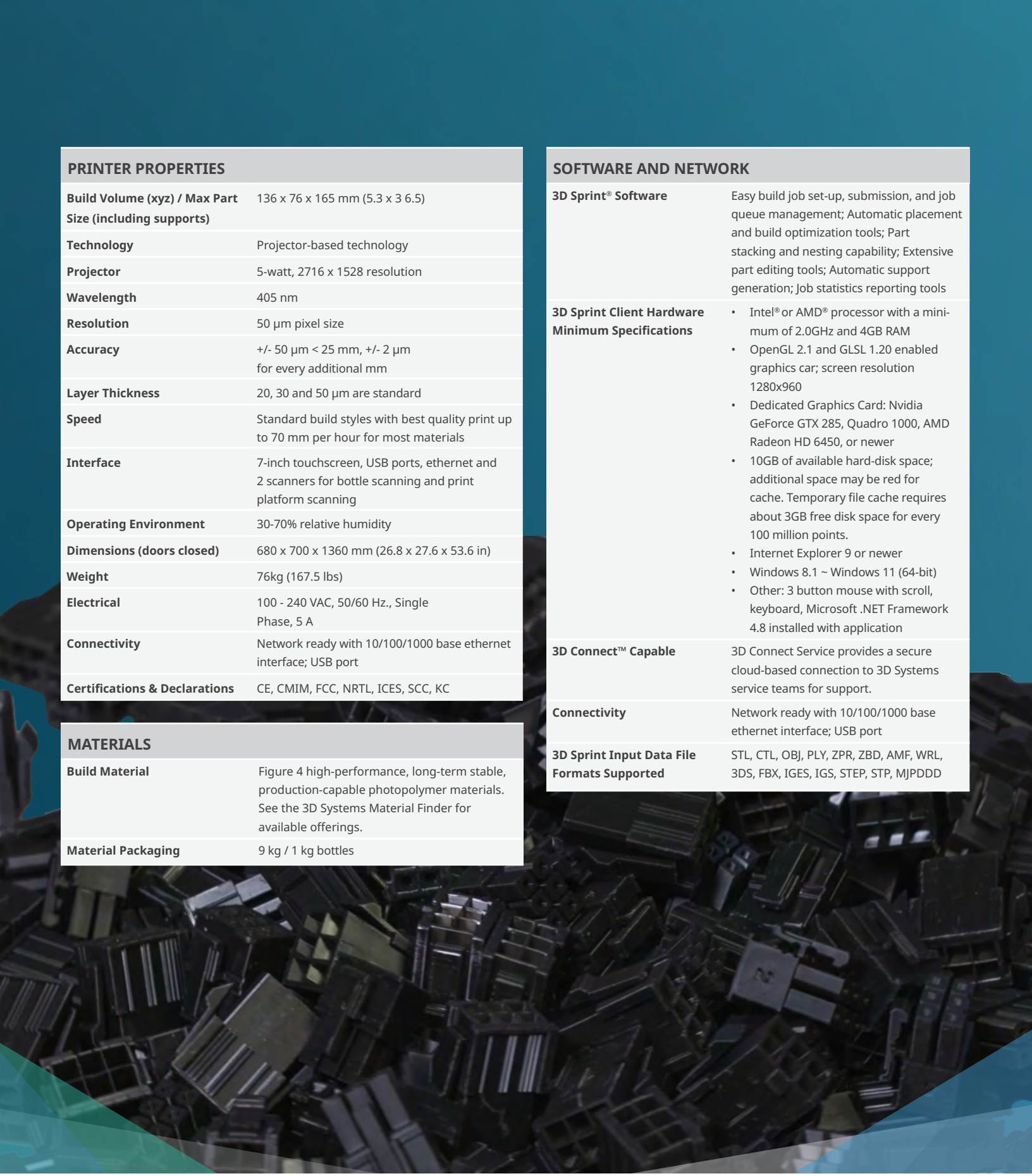
Build Volume (xyz) / Max Part Size (including supports)	136 x 76 x 165 mm (5.3 x 3 6.5)
Technology	Projector-based technology
Projector	5-watt, 2716 x 1528 resolution
Wavelength	405 nm
Resolution	50 µm pixel size
Accuracy	+/- 50 µm < 25 mm, +/- 2 µm for every additional mm
Layer Thickness	20, 30 and 50 µm are standard
Speed	Standard build styles with best quality print up to 70 mm per hour for most materials
Interface	7-inch touchscreen, USB ports, ethernet and 2 scanners for bottle scanning and print platform scanning
Operating Environment	30-70% relative humidity
Dimensions (doors closed)	680 x 700 x 1360 mm (26.8 x 27.6 x 53.6 in)
Weight	76kg (167.5 lbs)
Electrical	100 - 240 VAC, 50/60 Hz., Single Phase, 5 A
Connectivity	Network ready with 10/100/1000 base ethernet interface; USB port
Certifications & Declarations	CE, CMIM, FCC, NRTL, ICES, SCC, KC

MATERIALS

Build Material	Figure 4 high-performance, long-term stable, production-capable photopolymer materials. See the 3D Systems Material Finder for available offerings.
Material Packaging	9 kg / 1 kg bottles

SOFTWARE AND NETWORK

3D Sprint® Software	Easy build job set-up, submission, and job queue management; Automatic placement and build optimization tools; Part stacking and nesting capability; Extensive part editing tools; Automatic support generation; Job statistics reporting tools
3D Sprint Client Hardware Minimum Specifications	• Intel® or AMD® processor with a minimum of 2.0GHz and 4GB RAM • OpenGL 2.1 and GLSL 1.20 enabled graphics car; screen resolution 1280x960 • Dedicated Graphics Card: Nvidia GeForce GTX 285, Quadro 1000, AMD Radeon HD 6450, or newer • 10GB of available hard-disk space; additional space may be red for cache. Temporary file cache requires about 3GB free disk space for every 100 million points. • Internet Explorer 9 or newer • Windows 8.1 ~ Windows 11 (64-bit) • Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.8 installed with application
3D Connect™ Capable	3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for support.
Connectivity	Network ready with 10/100/1000 base ethernet interface; USB port
3D Sprint Input Data File Formats Supported	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP, MJPDDD



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3DS-40126A 04-25

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

3D SYSTEMS®