3D SYSTEMS

SLA 825 DUAL

Redefining Productivity for Complex, Large-scale 3D-printed Parts

The industry's most advanced SLA prototyping and manufacturing solution for high-performance applications



The New Gold Standard for SLA 3D Printing

Ideal for:

Foundries
Higher volumetric throughput with competitive cost-per-part.

Aerospace and Defense
Large investment casting patterns, prototypes, and fixture tooling.

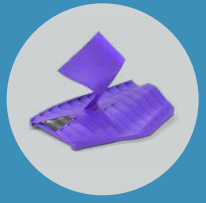
Automotive and Motorsport
High-speed builds with accuracy and minimal post-processing.

Service Bureaus
High throughput, reliability and multi-geometry capacity.

New High Speed Build Modes for Select Materials:



QuickCast Air™ investment casting pattern in Accura® CastPro material



Wind tunnel model in Accura Composite PIV material



Aesthetic and design verification prototype in Accura Xtreme material

The SLA 825 Dual is a next-level, industrial, large frame SLA 3D printing solution engineered for high-speed, ultra-precise production of large format parts.

Designed for high volume, time-intensive industries developing complex parts, the SLA 825 Dual combines the largest build volume in its class, new ultra-high speed scanning technology, and a full-solution workflow.

The system produces 3D-printed parts with outstanding surface finish, precise dimensional accuracy, and consistent reliability across production-grade applications.

22% Bigger Builds. Up to 25% Faster Throughput.

- **Large Build Area:** 830 x 830 x 550 mm build volume, significantly larger than other systems and 22% larger than previous SLA 750 Dual. Allows you to build larger parts, more parts per run, reduce job splits and maximize your 3D printing asset utilization.
- **Breakthrough Print Speed:** Up to 25% faster printing speeds than the previous SLA 750 Dual, with no compromise on part quality. Slash production timelines with consistent part accuracy and deliver parts sooner with less processing.
- **Big Builds, Small Footprint:** Extra-large SLA capacity and high throughput drive production-grade output with fewer machines, less labor, and lower costs.
- **High Performance Materials & Environmental Stability:** Supports Accura AMX production-grade materials, specialty wind tunnel F1 materials, QuickCast materials for investment casting patterns and a range of specialty and general-purpose materials. Deliver dependable quality across functional parts, prototypes and casting patterns.
- **Leading Precision, Accuracy & First Article Success:** The highest levels of SLA dimensional accuracy, tolerances, and repeatability across builds. Minimize costly trial-and-error iterations and deliver accurate parts right the first time.
- **Cost Effectiveness & Lead Time Savings vs. Traditional Tooling:** Tool-less rapid prototyping and production parts eliminates weeks of lead time and can save thousands per tool.
- **Full Workflow Integration:** Developed under one roof – printer, software, materials, post-curing, service and application consulting expertise.

Typical Applications

- Full size wind-tunnel models
- Large QuickCast investment casting patterns
- Aesthetic design verification and functional prototypes
- Low volume production of general manufacturing, and consumer goods parts
- Mandrel tooling

Materials Available on the SLA 825 Dual:

- Accura Xtreme
- Accura Xtreme Black
- Accura Xtreme White 200
- Accura CastPro
- Accura SbF
- Accura 25
- Accura 55
- Accura 60
- Accura AMX Durable Natural
- Accura AMX Rigid Black
- Accura AMX Tough FR V0 Black
- Accura Bluestone
- Accura ClearVue
- Accura PEAK
- Accura Composite PIV
- Accura HPC
- Accura High Temp 300C



Fleet Management

Additrak™, a specialized software designed for 3D Systems printers and workflows, offers comprehensive web-based and on-premise monitoring, analysis, and optimization through a centralized dashboard and Industry 4.0 compatible data streams including MTConnect and OPC UA.

- Live status updates, trends, and alerts for enhanced operational awareness.
- Detailed utilization metrics and in-depth visibility into machine performance, including sensor and job monitoring.
- Notifications are seamlessly integrated with email and Microsoft Teams for instant updates.
- Efficient job management with remote queue control and remote job submissions, streamlining workflow and reducing downtime.

Additrak is fully native to 3D Systems and seamlessly integrated with 3D Sprint, creating a unified workflow and management ecosystem. This powerful combination enables users to maximize productivity, optimize machine performance, and ensure smooth, efficient operations across their entire 3D printing fleet.



Post-curing Systems

For maximum mechanical performance and end-use part stability, 3D Systems offers dedicated post-curing systems to meet a wide range of production needs:

- **PostCure 1050:** Delivers uniform, high-intensity UV curing within a large chamber optimized for parts from the SLA 825 Dual platform. With precise temperature control and a broad spectral range, it ensures parts reach their full strength, dimensional accuracy and environmental durability – even for the largest 3D-printed parts.

File Preparation & Optimization

3D Sprint® is exclusive software from 3D Systems for preparing and optimizing CAD and polygon data and managing the SLA 825 Dual 3D printing process.

- Use a single software application from CAD.
- Increase efficiency with optimized data management.
- Streamline time to print and finished parts with a single, easy-to-use interface.
- Improve productivity and reduce downtime with printer management and monitoring tools.



Key Facts about SLA 825 Dual

Resolution	100 µm layer resolution with feature size down to 0.127 mm (0.005 in) in XY. Delivers sharp, accurate details for both large and small geometries.
Accuracy	Dimensional tolerances of ±0.051 mm for part sizes less than 34 mm. And 0.15% cumulatively for parts larger than 34 mm. Ensures consistent results across large builds.
Build Size	830 x 830 x 550 mm
Speed	Dual 4W lasers, dynamic multi-spot beam sizes and efficient drawing methodologies deliver ultra-fast build speeds and unmatched part quality.
Materials	Accura SLA resins for design and engineering verification, high temperature applications, clear transparent models, investment casting patterns with low ash content, wind tunnel models and production applications requiring environmental stability and flame retardance.
Software	3D Sprint build preparation software. Additrak fleet monitoring and management software.
Reliability & Repeatability	Kinematically-driven build modes with dynamic beam focus ensures uniform accuracy across the entire platform.

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