

nexa3D®

QLS 820

An industrial 3D Printer built for serialized production

Take a Quantum Leap in Additive Manufacturing Productivity



Key Features

Highest throughput in its class

Prints up to an impressive 8 liters/hour and can deliver an average 20% build density. The QLS 820 brings you the highest part throughput of any polymer powder bed fusion technology.

Automation-ready architecture

The QLS 820 is designed to keep printing. Featuring Siemens PLC factory automation controls with an exchangeable build unit to keep your printer doing what it does best - manufacturing high quality parts.

Open Platform with inert, high-temperature capabilities

You control material choice and build parameters, including production temperatures up to 230°C. Leverage our validated materials to get printing quickly.

Robust, scalable manufacturing

Gain more flexibility and ease of use. With removable build units and modular material processing, your adaptive printer fleet is built to accommodate your growing manufacturing needs.



QLS 820

A fast, accurate, and scalable production solution



Redefining Speed in Manufacturing

At the core of the QLS 820 is Nexa3D's powerful Quantum Laser Sintering, a new powder bed fusion technology that combines ultrafast printing, automation-ready hardware and material handling platforms, with powerful software controls to help you achieve production volumes that are orders of magnitude greater than those of other thermoplastic 3D printing technologies.

Scalable Production Solutions

With an automation-ready architecture and advanced fleet management software, the QLS 820 is designed to be scaled for production. Simply add a new build unit to take advantage of the full production capacity of your printer throughout the day, and you can also add material processing modules to your MMPS as your material needs expand.

Centralized Data and Analytics

Leverage centralized printer management and real-time data monitoring via remote access to gain more flexibility with your printers. The QLS 820 web dashboard enables end-to-end traceability with centralized printer management and real-time data monitoring, and can also provide historical data analytics to help you easily keep track of printer performance.

Gain more flexibility and ease of use with remote access to your printer fleet via the printer hub monitor, your computer, or a mobile device.

Modular Materials Processing Station

The QLS 820 features a modular material processing station (MMPS). From powder containment and blending to breakout, powder reclamation and sieving, the MMPS offers a scalable solution that ensures safe, clean, and efficient material handling across all material operations.

[Learn More](#)

Dimensions (Closed)	200x140x200cm
Weight	750kg
Power Requirements	26 kWatt
Operating Temperature	+5°C/+25°C
Interface	Web Dashboard
Laser Type	4x100W CO2
Material Delivery System	Removable Build Unit
Additional Equipment	Power handling and refreshing station
Z. Resolution	50-200 microns
Building Volume	350x350x400mm
Printing Speed	Up to 8 liters per hour up to 20% average job density

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