

# 3D Sprint for SLS

Quality prints at higher throughput and lower costs.

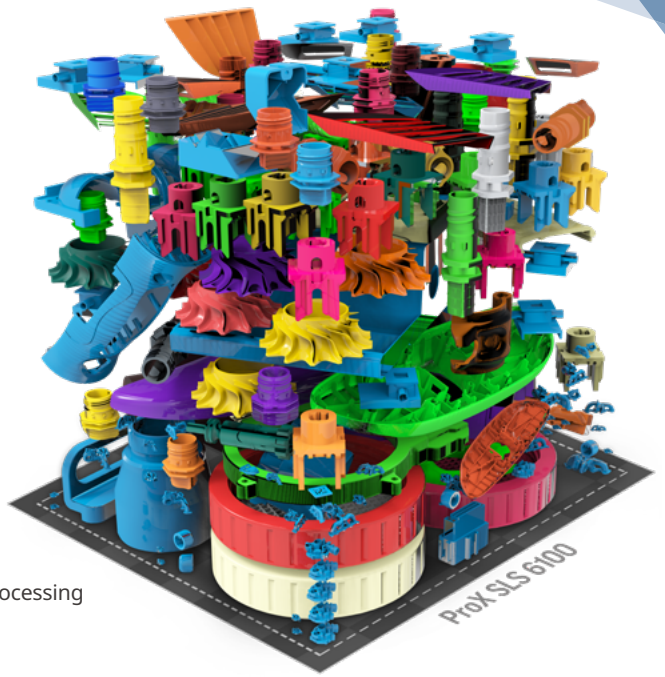
Selective Laser Sintering (SLS) 3D printers from 3D Systems produce tough, functional complex parts, with excellent resolution, accuracy, durability, repeatability and low total cost of operations. SLS gets even better with 3D Sprint additive manufacturing software.

## Higher Throughput

### MAXIMIZED SLS PRINT CAPACITY

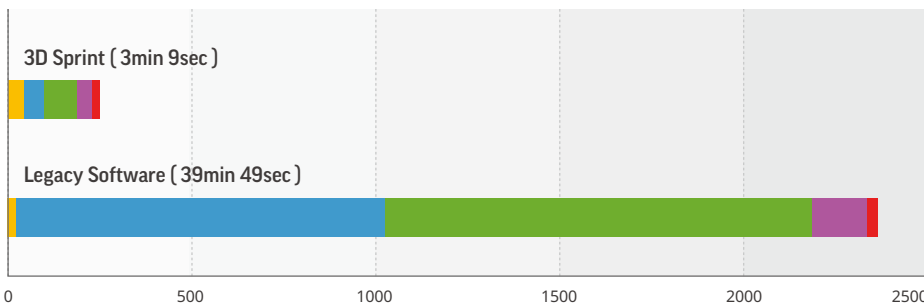
Get more parts per build with 3D Sprint automatic part nesting in the build area, saving time and minimizing waste. With speed-optimized algorithms, software processing time is shorter while achieving an optimized part positioning on the platform.

- Maximizes print capacity by fitting more parts in the build area
- Increases material efficiency and reduces waste with lower build height for the same number of parts
- Sets up the same build in dramatically shorter time over the legacy SLS software
- Faster handling of bigger, denser data sets utilizing the cutting edge software platform



3D Sprint high density build platform with 198 parts automatically positioned within a 361.88mm build height

## PRINT SET UP SOFTWARE PERFORMANCE ENHANCEMENTS



- Importing parts
- Nesting
- Quality Check
- Build Time Estimate
- Creating Build File

3D Sprint's lightning-fast processing, with parts check while importing them, automatic parts nesting and orientation can save 35+ minutes on typical build setups.

## PRINT SET UP SOFTWARE PRODUCTIVITY TOOLS



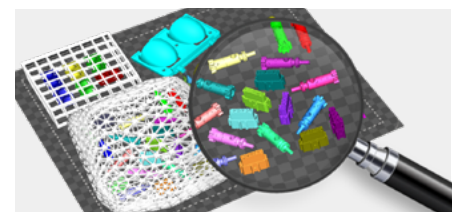
### Optimize your production planning

- Reliable and repeatable build time estimator for warm up, print and cool down stages
- Designed for a deviation of no more than 10% from the actual build time
- Know the latest job status and planning information in the Print Queue, with remote printer connection capability



### Save time setting up profile parameters

- Set up your build and part profile easily with the intuitive graphical interface
- Graphical feedback is given to the user if parameter constraints are not met
- Easily set favorite parameters

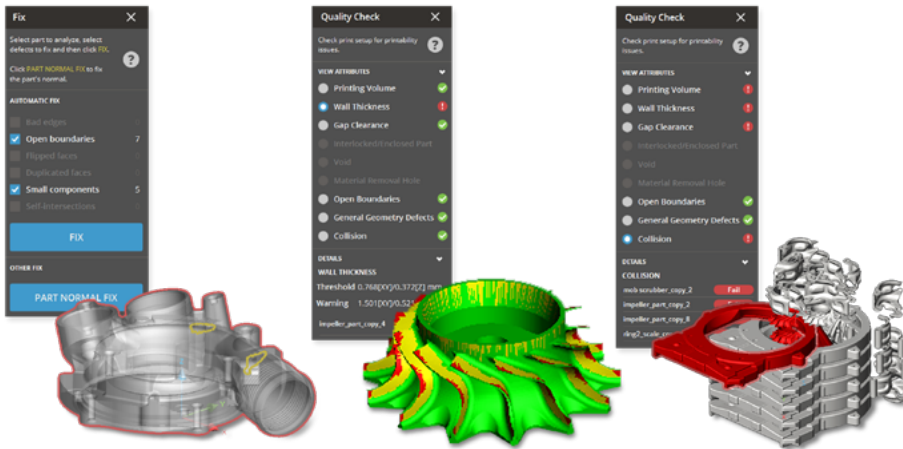


### Part editing tools to make build time decisions about part Geometry

- Easily retrieve small parts from the build by enclosing them in a cage
- Reduce print time and material usage by hollowing the part
- Work with the mesh easily and faster by simplifying it

## Successful Quality 3D printing

SLS produces high quality parts with excellent resolution, surface finish and edge definition. With 3D Sprint quality checks and repair tools, you can rely on successful SLS builds and consistent high part quality.



- Real-time part integrity feedback using Quality Analysis
- Repair and Edit models right in the build environment to achieve best results without any additional software
- Strengthen the part with geometry offsetting & thickening
- Easily calculate correct scale and offset values from reference builds using the Wizard
- Higher quality builds with safe, and dense nesting using real time Collision Check
- Improve part quality by checking and achieving layer times uniformity

## Compatible SLS Printers

3D Sprint works natively with all current 3D Systems SLS printers:

- ProX® SLS 6100
- sPro™ 60, 140 & 230\*
- ProX® SLS 500\*

Network connected machines can be easily discovered or directly connected to by IP address. Direct connection allows for online job submission, queue management, and the ability to access machine specific service logs.

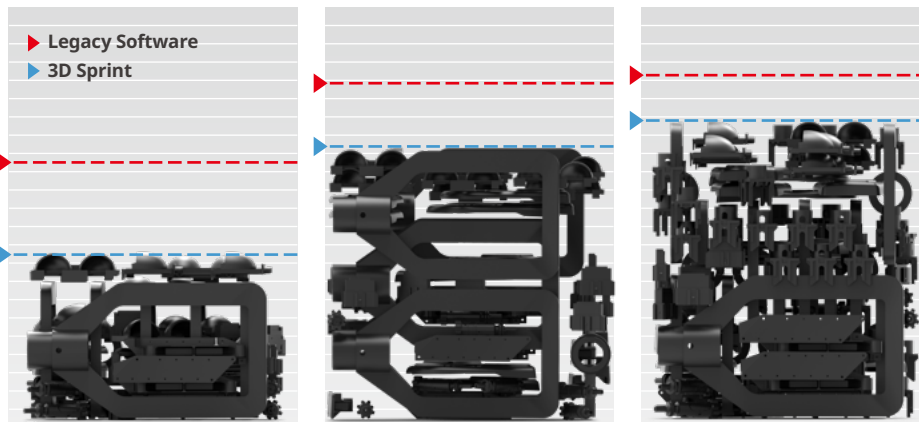
3D Sprint also enhances the throughput, reliability and part quality of any SLS printers.

File support:

.stl, .ctf, .obj, .ply, .bptz, .iges, .igs, .step, .stp, .x\_t, .zpr, .zbd, .amf, .wrl, .3ds, .fbx

\* Supported as a virtual printer environment and not a direct connection

## Comparison Build Z-Height



### Build (A)

Legacy Software: 330.9mm  
3D Sprint: 214.3mm

**Z-height Savings:  
116.53mm (35.22%)**

### Build (B)

Legacy Software: 427.4mm  
3D Sprint: 353.2mm

**Z-height Savings:  
74.23mm (17.37%)**

### Build (C)

Legacy Software: 430mm  
3D Sprint: 370.7mm

**Z-height Savings:  
59.24mm (13.78%)**

## Lower Costs

With an arsenal of additive manufacturing preparation, editing and management tools, 3D Sprint enables you to significantly decrease cost of ownership of your 3D Systems SLS 3D printers:

- No additional third party software needed
- Successful builds with advanced quality checks and repairs
- High density builds minimize waste
- Automatic parts nesting and positioning frees valuable resources

Together with your 3D Systems SLS 3D printer, 3D Sprint ensures that your system functions at its peak efficiency and performance.



3D Systems provides comprehensive 3D products and services, including 3D printers, print materials, on-demand parts services and digital design tools. Its ecosystem supports advanced applications from the product design shop to the factory floor to the operating room. As the originator of 3D printing and a shaper of future 3D solutions, 3D Systems has spent its 30 year history enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models.

©2018 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice.

3D Systems, the 3D Systems logo, and ProX are registered trademarks and 3D Sprint and sPro are trademarks of 3D Systems, Inc.

3D Sprint for SLS EN 05/2018

www.3dsystems.com