Titanium™ Software

All Neo® systems operate with industry-leading Titanium™ software.

Titanium has been carefully designed with both the user and department manager in mind. Many options are user definable as defaults, enabling simple click-and-print operation.

Automated communications assist department efficiency and field service response. Part traceability and hardware utilization is facilitated by excellent reporting capability.

Build Options & Features

- Build validation
- Build time estimator
- Material usage estimator
- On-the-fly parameter adjustment and part deletion
- Upper surface build quality optimisation
- Bubble remover with automated option
- Scheduled start

Build Status Notification Emails

Build progress emails can be sent to users at any point during a build. This assists department efficiency optimising machine utilization. Titanium can also be configured so users can receive emails for: Build Start, Pause, Completion or Alert Progress.

On Board Camera

Each Neo system is installed with a built-in camera, offering users the potential to keep track of builds remotely, at any stage.

Resin Viscosity

In busy departments it's often easy to forget to take regular viscosity readings. Viscosity monitoring is key to material longevity. Titanium prompts the user for readings at pre-determined intervals, logging the results. This information could be relayed to RPS for monitoring, enabling preventative action when necessary, helping to protect vat fill material.

Industry 4.0

The Neo stereolithography system range can be integrated into an Industry 4.0 system.

Integration is available through multiple mechanisms including a RESTful API and shared file access. The data provided includes progress details of the current build.

Neo uses industry standard formats (e.g. XML). The RESTful API supplies the data using JSON.

RPS is open to work with customers in developing the remote access interface and RESTful API to provide additional functionality.*

Reporting Tools

Titanium features a range of reporting tools and dashboards to help users capture build history, parameter detail, hardware usage and part traceability data. This data can assist operators and managers analyse utilization of the Neo to help meet business objectives.

Part Traceability

In many industries part traceability is paramount. With Titanium software, parts are easily traced to a build with all parameters recorded.

Hardware Utilization

A complete insight on hardware usage hours can be easily obtained to determine hardware productivity.

Report Export

Using Titanium, data is easily accessed with a click of a button and can be exported as a formatted Microsoft® Excel spreadsheet, via email or to a USB drive. Data can cover a range of timeframes and builds including:

- Build reports
- Monthly / Yearly / Custom period reports

Service & Support Reporting Tools

Neo systems have outstanding reliability. When support is needed, Titanium assists fast, efficient response from the RPS support team.

System Alerts

In the event the Neo has a problem mid-build, users will receive a system alert email.

Job Diagnostic Packs

To help identify an issue, users can easily export a Job Diagnostic Pack specific to an individual build via email or USB drive. This data can be used to assist with remote diagnosis and to be used to assist RPS service engineers when on site.
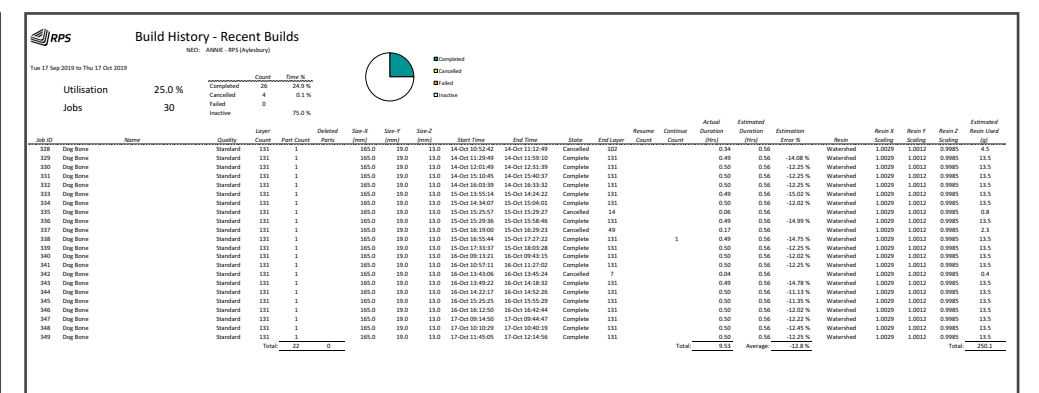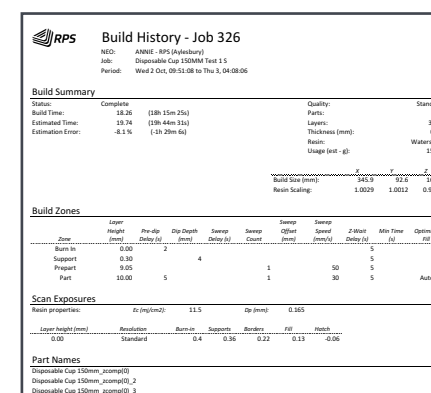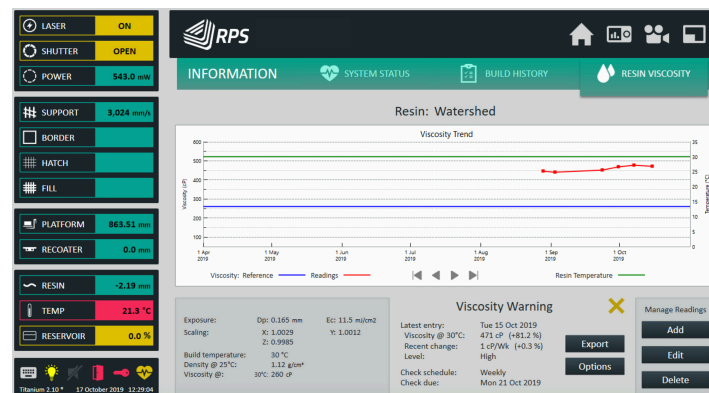
Laser Monitoring and Calibration

Titanium software constantly monitors the laser output and will alert users if recalibration is necessary. Recalibration of the laser can be performed by the users with a simple one-click operation.
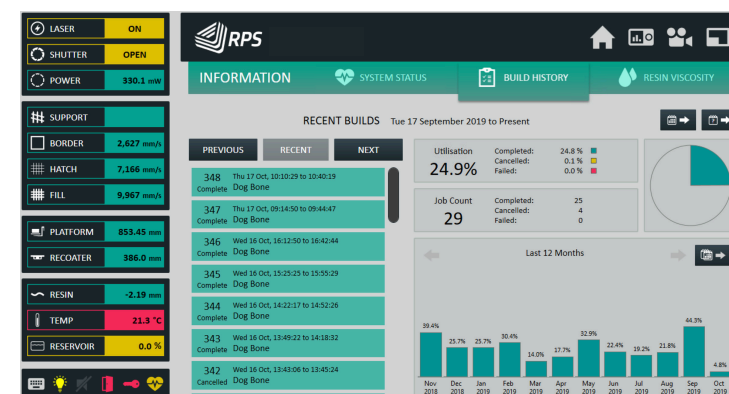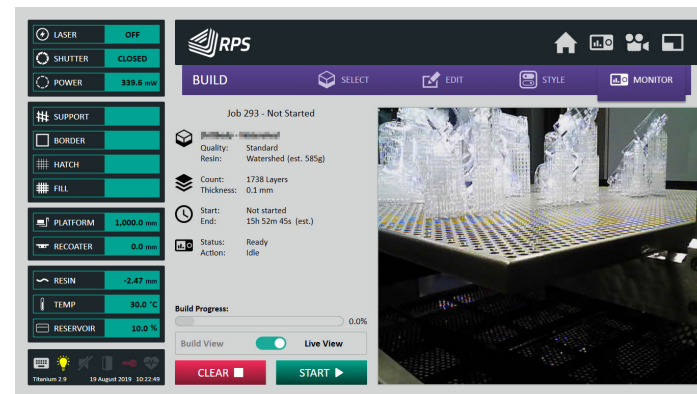
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Each NEO system is installed with a built in camera, offering users the potential to keep track of builds remotely, at any stage.

Intuitive Titanium software is developed for simplified daily operation or more functionality for detailed builds when required.

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