AMIS Pro v2.5

Industrial software for successful Build Prep

FEATURES OVERVIEW

AMIS Pro is the premium tool for build preparation and 3D-RIP for SLS, MJF and binder (BJ) or material jetting (MJ). AMIS Pro is an off-cloud editor for Mac & Windows providing access to the technology.

The software solution enables rapid and sound preparation of parts, batches and the resulting slices for any build job, and allows for the parallel preparation of multiple batches. Features to improve part quality and Cost-per-Part are embedded in the solution.

For superior results, AMIS Pro is tailored to the machine, in cooperation with the printer manufacturer. The API-based architecture allows for seamless integration with MIS/MES systems and peripheral software, such as simulation solutions or CAD input.

Intended user & use

The intended user is the person or team preparing and/or executing the print.

Combining the user's own expertise on machine and process with the AMIS print control software, will enable them to make the most of the printer's potential. AMIS Pro provides a solution enabling "from part to drop" management of any 3D-print.

The User Interface is conceived in such a way that prior knowledge is not required. AMIS Pro facilitates production by suggesting parameters or settings, adapted to the Jetting process.

Guidance & Support

AMIS Pro users are supported throughout the software life cycle, through:

- Dedicated support platform
- Manual & Tutorials
- Direct support service contact

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Main features

General

- Workflow-based, user-oriented UI
- OpenGL view, with full interactive control
- Windows and Mac parallel development, cloud-connected
- Native 3mf
- Parallel preparation of multiple batches for multiple printers
- Full control of parts & print parameters
- Reiterations, adding/removing parts, renesting at any time during the process
- Easy repeat jobs by reloading existing batch
- API-based architecture
- “Unplaced” functionality to manage backlog
- “Recover” function to easily recover and renest remaining (unprinted) parts after a machine breakdown.

Adding parts

- Import multiple stl, 3mf and Step-files
- Continue adding parts at any time during batch preparation
- Automatic file repair / healing
- Speed up your import
- Adding parts to existing batch without renesting prior parts through “lock position” function
- Automated Phasio import

Part preparation

- Position, orient and scale parts
- Configurable Shell and Lattice generation
- Lock position, orientation and/or scaling prior to nesting
- Lock distance to other parts and to walls prior to nesting
- Multiply number of a specific part
- Full interactive control of parts (OpenGL view)
- Configurable boxing of (multiple) parts
- Allow rotation over all axis, per part or per batch

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Batch preparation/nesting

- Ultra High-speed voxel-based auto-nesting, without unintentionally interlocked or trapped parts (Q*Nest Technology)
- Nesting based on:
  - % fill or maximum fill
  - part distance, distance to walls
  - Maximum layer density (AKA "*slice density*" or "*area averaging*")
  - Gap distance between parts
  - Part prioritization
- Full interactive control of batch (OpenGL view)
- Layer density viewer and control
- (un-)Lock batch option to lock (partial) batches in place

Slicing / 3D-RIP

- High-quality slicing output in tiff or svg, or
- Export as a 3mf or stl
- Fast slicing
- Full progress reporting
- Export part lists
- Control slicing parameters, incl. layer height, size and resolution
- Export part list (incl. volumes, surface)
- MetPrint®-ready, including patented technology for Additive Manufacturing, securing full compatibility with most AM-printheads

Configuration options

- Add and control printer settings, batch size, DPI and nozzle count
- Distance from build box
- Nesting gap
- Part manipulation / rotation step
- Shell thickness
- Lattice configuration