



AMIS Pro v3.0.2

Industrial software for successful Build Prep

FEATURES OVERVIEW

AMIS Pro is the premium build preparation and 3D-RIP solution for SLS, MJF, Binder Jetting (BJ), and Material Jetting (MJ) technologies. Designed for industrial production environments, AMIS Pro combines speed, reliability, and automation-ready workflows to optimize Cost-per-Part, improve part quality, and reduce manual errors.

With off-cloud architecture for Windows and Mac, AMIS Pro ensures secure, high-performance processing. Its API-based design enables seamless integration with MIS/MES systems, simulation tools, and CAD workflows. Tailored to specific printer technologies in collaboration with OEMs, AMIS Pro delivers from part to drop management for additive manufacturing.

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.

Why Choose AMIS Pro?

- **Ultra-fast nesting & slicing** for maximum throughput
- **Cost-per-Part optimization** through intelligent packing and process control
- **Error reduction** with collision checks and recovery tools
- **Automation-ready** via API and CLI export
- **Integration** with Phasio, MetPrint®, and OEM workflows
- **Secure & flexible** off-cloud solution for Windows and Mac





Guidance & Support

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

- Dedicated [support platform](#)
- [Manual](#) & [Tutorials](#)
- Direct [support service](#) contact

Main features



General

- Workflow-based, user-oriented UI
- OpenGL view, with full interactive control
- Windows and Mac parallel development, cloud-connected
- Parallel preparation of multiple batches for multiple printers
- Full control of parts & print parameters
- adding/removing parts, renesting at any time during the process
- Easy repeat jobs by reloading existing batch
- API-based architecture for integration
- “Unplaced” backlog management
- Recover function for machine breakdown scenarios



Adding parts

- Import STL, 3MF, and STEP files
- Continue adding parts anytime during batch prep
- Automatic file repair/healing
- Lock position/orientation before nesting
- Multiply part instances
- Automated Phasio import for MES connectivity



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 (freeform) boxing of (multiple) parts
- Allow rotation over all axis, per part or per batch





Batch preparation/nesting

- **Q*Nest Technology:** Ultra High-speed voxel-based auto-nesting, without unintentionally interlocked or trapped parts
- 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, 3MF, SLI, CLI or SVG
- 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 and batch information (incl. volumes, surface, densities,...)
- 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

