Dyndrite LPBF Pro

ADDITIVE CAM

Dyndrite
Ignite your purpose.

Experience the evolution of build prep.

Dyndrite LPBF Pro was designed as an end-to-end Additive CAM solution capable of meeting the exacting needs of today's AM users in a research or production environment. It leverages the groundbreaking Dyndrite Engine to provide users with unprecedented performance and functionality unseen in today's legacy applications.

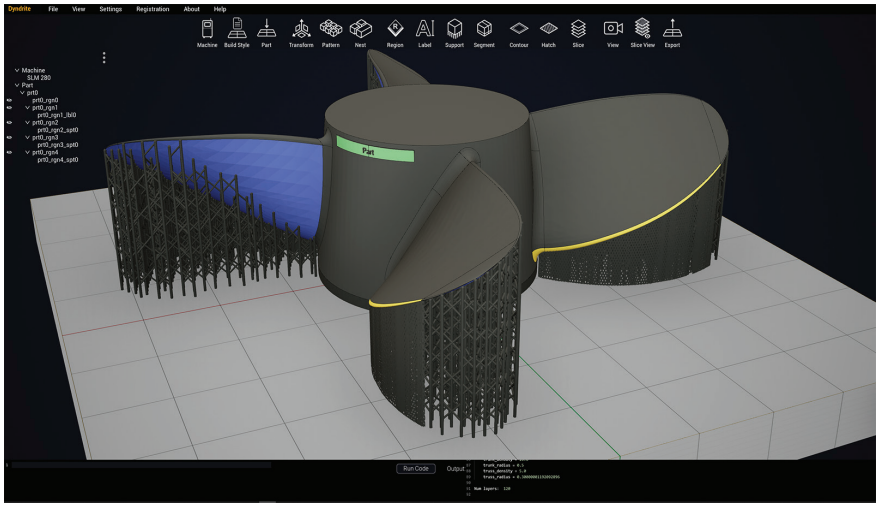
Dyndrite LPBF Pro easily handles multi-gigabyte mesh (STL) or native CAD files. Parts can be precisely patterned, nested, oriented and placed within your build space. Parameters and supports can be assigned by regions.

When you're ready to print, Dyndrite LPBF Pro offers a direct path to your machine, providing hyper-performant multi-threaded slicing, and bypassing the need for additional software modules or per machine build processors.

Dyndrite LPBF Pro provides the most flexible, controllable, and highest performing build preparation tool available for maximizing the throughput of your LPBF machine.

Dyndrite not only significantly enhances build preparation productivity but also serves as a catalyst for ongoing innovation in materials and process development. It functions as a valuable tool for streamlining process qualification and calibration, and provides a versatile foundation for designing and deploying headless automated production lines on both Windows and Linux platforms. This represents the evolution of build preparation.

Build Prep/Additive CAM Workflow



Dyndrite LPBF Pro is an all in one toolkit that enables rapid print preparation and iteration. Setup automated CAD-to-print workflows that eliminate the tedium of manual build preparation.

Built for Productivity

- ✓ Multi-Threaded CPU & GPU compute
- ✓ Fast and efficient 3D visualization
- ✓ Elegant User Interface
- ✓ Accessible APIs
- ✓ Built in Python scripting

A Direct Path to Your Machine

- ✓ Aconity3D
- ✓ EOS
- ✓ Renishaw
- ✓ SLM
- ✓ And more...

A complete build prep tool with notable features:

- ✓ Capacity to import and work with massive files or thousands of parts
- ✓ Ability to import native CAD files that use metadata such as color to automate build preparation
- ✓ Fast 3D visualization, part manipulation, and positioning
- ✓ Large multi-gigabyte files
- ✓ Advanced labeling functionality, including multiple labels, images, and database integrations
- ✓ Common supports specifically designed for the laser-based processes
- ✓ Slicing performance that reduces jobs that once took days and hours into minutes and seconds

With so many available build preparation tools, why choose Dyndrite LPBF Pro?

Dyndrite LPBF Pro is more than a "build preparation" tool. Dyndrite LPBF Pro provides performance and functionality that makes preparing builds fast and streamlined. It provides scripting tools and APIs that eliminate tedious, and error-prone manual operations.

Organizations use Dyndrite LPBF Pro to shorten development times, enable better part tracking, eliminate tribal knowledge, and lower their operating expense costs.

Schedule a Demonstration
See how **Dyndrite LPBF Pro** can unlock your LPBF-based parts, materials, and processes. Reach out to us at ***dyndrite.com/vip***

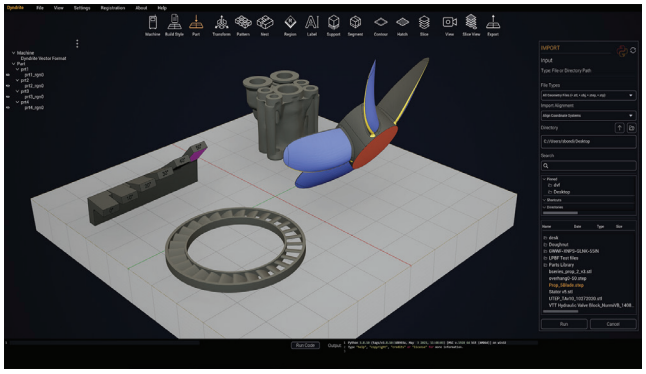
Drive your machines to the max.

Dyndrite LPBF Pro provides blazing fast performance and comes with everything out-of-the-box for 3D metal printing.

Importing the Part

Satisfy the most use cases by supporting the widest variety of file formats, and do it in the most performant way.

- ✓ Work with multiple geometric representations and file types (native CAD/BREP, STL, etc.) at the same time.
- ✓ Handle massive multi-gigabyte STL files featuring billions of triangles on your local computer
- ✓ Use CAD-based color metadata to automate the build prep process, including specifying support types, orientation, and label placement

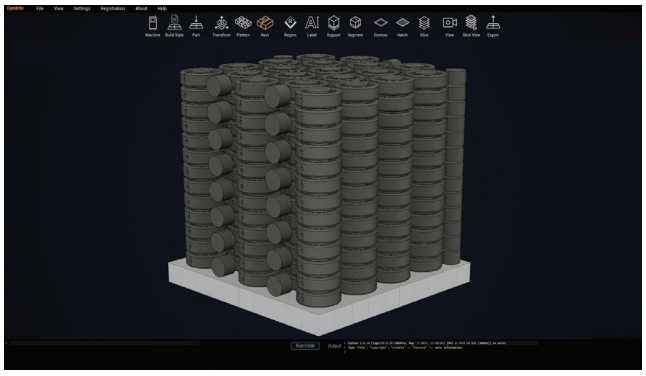


Import a variety of file types, including native CAD, and gigabyte STLs.

Positioning the Part

Direct part placement either manually or programmatically. Our dynamic rendering modes enable interactivity regardless of part complexity or part count, ensuring your workflow remains continuous.

- ✓ Translation, rotation, and scale patterning
- ✓ Dense 2D and multi-angle 3D nesting
- ✓ Orientation optimization
- ✓ Easily handle hundreds and thousands of parts in a single build

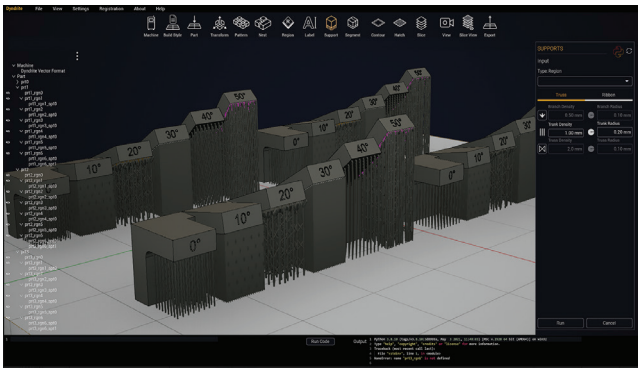


Control 2D and 3D nesting density, even with interlocking "C" shapes.

Supporting the Part

You need maximum automatability when building a recipe to support your part. Define support regions based on angles, colors or manual selection. Choose from a variety of supports including the following:

- ✓ Column
- ✓ Tree
- ✓ Truss
- ✓ Extrude/solid
- ✓ Ribbon
- ✓ Cone

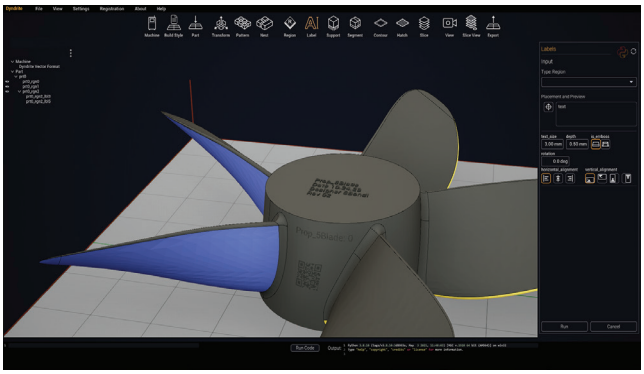


Support structures like ribbon, column with raft, tree, truss, and extruded supports are available as options.

Labeling the Part, the Dyndrite Way

Part traceability is critical in manufacturing. Dyndrite LPBF Pro was designed with production-level part labeling in mind.

- ✓ Multi-line text, images, QR codes
- ✓ Surface wrapping
- ✓ Region or color specified
- ✓ Multiple labels (easily handle 3+ labels on a part)
- ✓ CSV or database driven
- ✓ Automatable and dynamically generated



Apply multi-line text, images, QR codes, or a variety of automatic labels.

See how Dyndrite LPBF Pro can unlock your LPBF-based parts, material, and processes. Reach out to us via **www.dyndrite.com/vip** for a personalized demonstration.

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