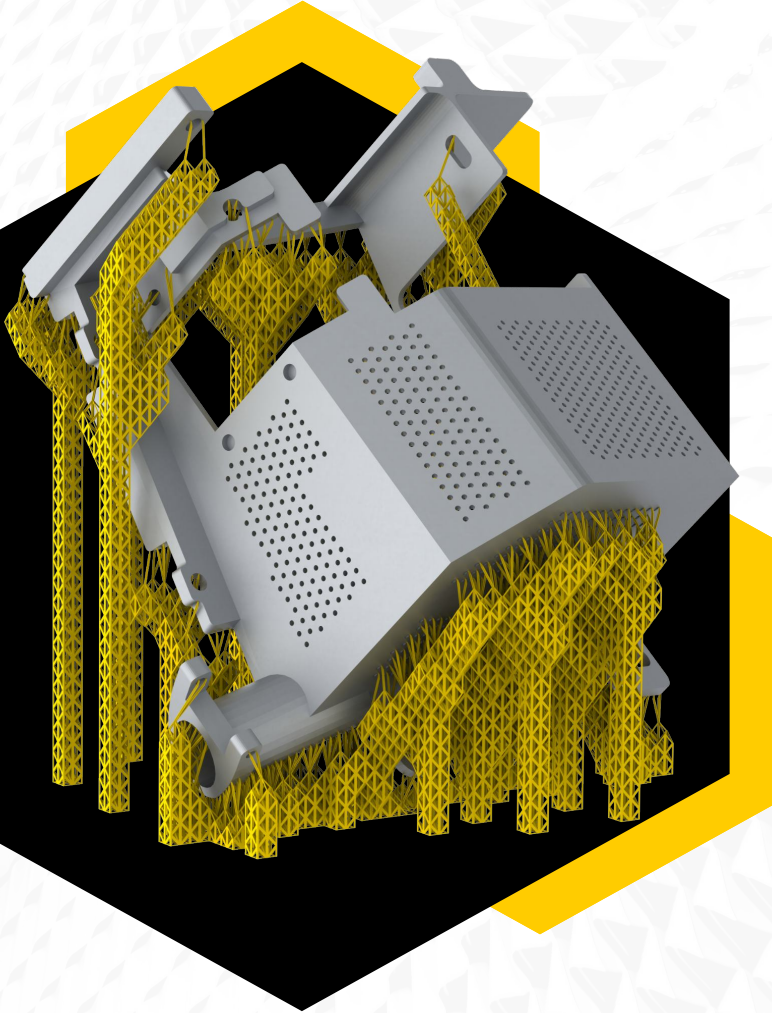




WIRA_{3D}



WE MAKE 3D PRINTING EASIER

About

WIRA^{3D}

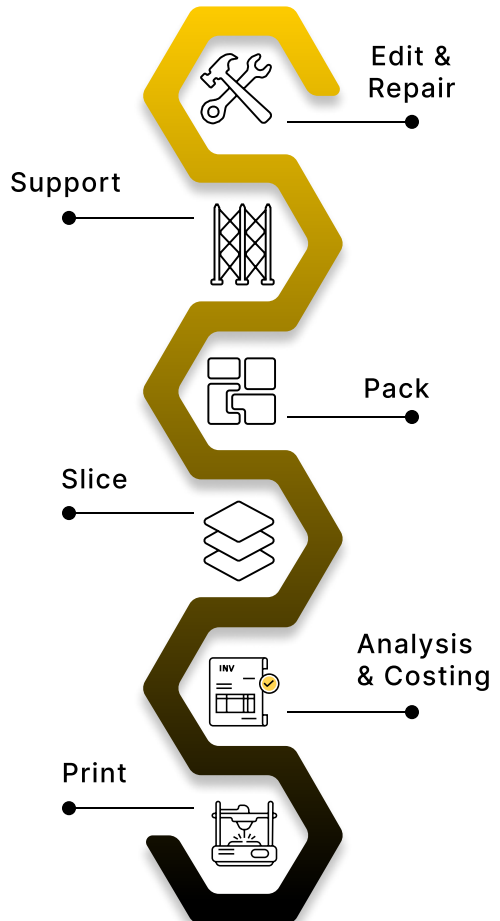
Cutting-edge build preparation software for Additive Manufacturing.

Capabilities:

- CAD File Import
- Diagnostics & Repair
- Advanced Editing Tools
- Boolean
- Thickness Map
- Lattice Infill
- DLP Supports
- OPF Supports
- Setter Supports
- Packing
- Slicing
- Quote Generation

ROBUST & AFFORDABLE SOFTWARE

Workflow:



ONE STOP SOLUTION FOR AM

File Import

Import a variety of 3D file formats including STL, OBJ, 3MF, STEP, IGES, SLC, VRML and PLY.

Large STL data (upto 1.5GB) can be loaded with ease. Slice data (SLC) can also be converted back to STL for support addition.



Diagnostics & Repair

Check any mesh for holes, non-manifold/ naked edges, noise shells and self-intersections using our shell repair console.

Automatically repair mesh with a single click or use manual repair to fix inversions, fill holes, unify, extrude surfaces and stitch shells.

Reduce the number of triangles in a mesh using the Fast/ Accurate Triangle Reduction tool or improve the surface using Smoothen and Remesh Tools.

Advanced Editing Tools

Planar Cut

Cut your model into multiple sections along the cartesian plane.

Polyline Cut

Define custom cutting paths for easier joining post-printing.

Lasso Split

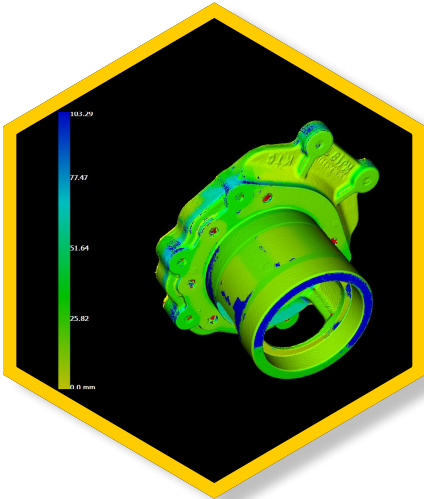
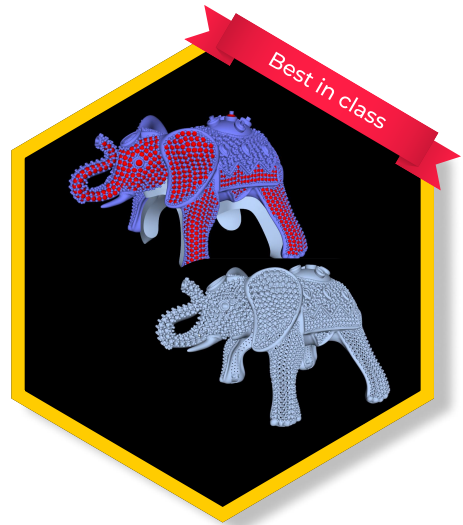
Isolate and separate specific parts in a multi-shell mesh file using Lasso selection.



Boolean

Subtract, Unify & Intersect

Our Boolean tool can unify, subtract or compute intersection regions between any two or multiple STL files with minimal clicks. It is highly robust and is designed to handle complex files of large size without any crashes.



Thickness Map

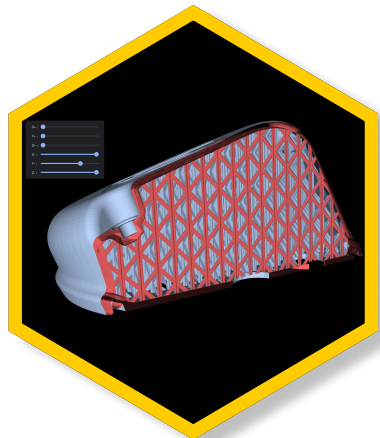
The thickness map employs a color gradient (red to blue) to depict thickness variations across the part. It effectively highlights conformal and internal channels within a part. It also aids in identifying regions of low wall thickness and evaluating printability.

The thickness at a given region gets displayed in real-time while hovering the cursor over the part.

Lattice Infill

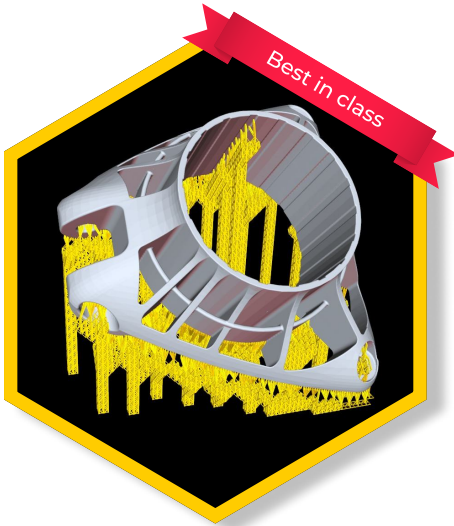
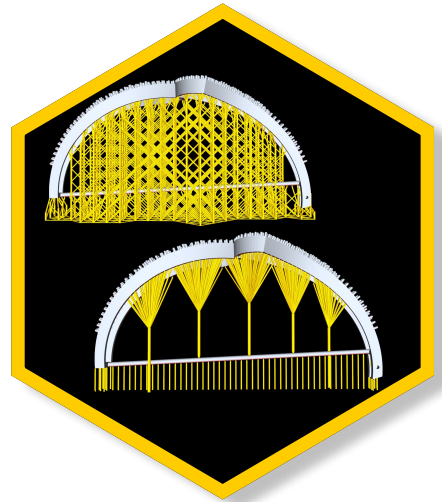
Lattice infill is a popular approach for light-weighting (minimizing mass while maximizing stiffness) of 3D Printed parts.

Our tool allows users to change the wall thickness, grid spacing and grid thickness. It has been designed to be fast and robust for complicated geometries. The generated lattice is also self supporting.



DLP Supports

DLP supports are ideal for desktop resin printers (DLP/ LCD/ SLA). Our supports are generated automatically based on over 20+ user-specified parameters for touchpoints and support structures such as FCC/ tree/ beam. Supports are fully draggable and editable.

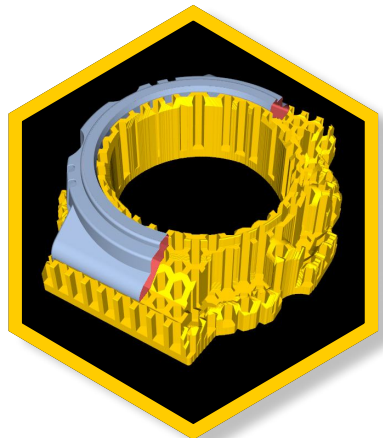


Setter Supports

Setter supports are a one-click solution for Metal Binder Jetting. Setters are designed to be easily detached vertically without causing any damage to the printed part. The offset between part and support is user-editable. A margin around the boundary can also be added to preserve shape while sintering.

OPF Supports

OPF (Optimized Path Finding) Supports are a breakthrough for industrial SLA (Stereolithography) and Metal Powder-Bed 3D Printers. Our one of a kind column-based lattice structure leads to huge material savings. A bonus is our proprietary path-finding algorithm that significantly eases the post-processing.





Samisan Tech Pvt. Ltd.

Our company, Samisan Tech Private Limited, is a Mumbai-based software development firm. Our core product, the MIRA3D Build Processing Software suite, includes MIRAPro (for jewellery/ dental industry), MIRAmix (for manufacturing sector), and MIRAanalyze (for part inspection). We specialize in Digital Manufacturing and Machine Vision applications. We are a team of mathematicians and software developers who can also build custom software for your specific use case.

For more details visit
www.mira3dp.com



Contact Us:

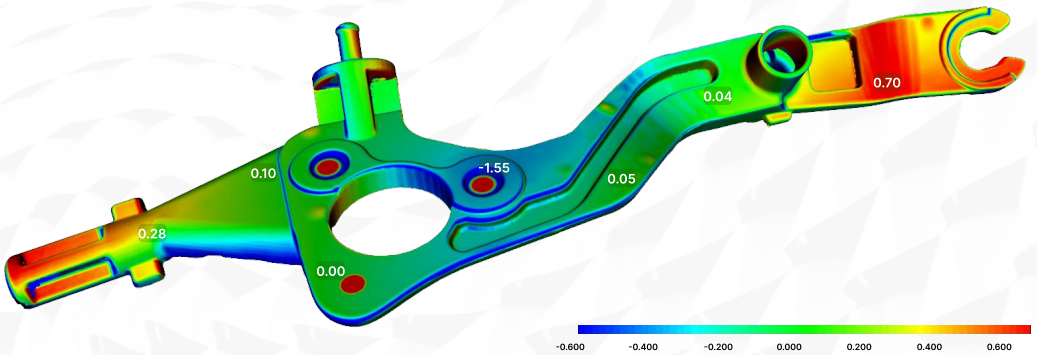
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New Launch



WIRAanalyze



- Easy to use 3D inspection software
- Deviation map report generation
- Automatic surface detection for quick tolerance checks