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		Free	Premium Sintering	Premium	Ultimate	
Import and Repair	Import common file formats	✓	✓	✓	✓	
	Import CAD file formats		✓	✓	✓	
	Create primitives	✓	✓	✓	✓	
	Automatic mesh repair	✓	✓	✓	✓	
	Semi-automatic mesh repair	✓	✓	✓	✓	
	Manual mesh repair	✓	✓	✓	✓	
Model Editing	Cutting tools	✓	✓	✓	✓	
	Pins and holes cutting		✓	✓	✓	
	Lap joint cutting		✓	✓	✓	
	Mirror, scale and duplicate	✓	✓	✓	✓	
	Merge and Split		✓	✓	✓	
	Boolean	✓	✓	✓	✓	
	Labelling	✓	✓	✓	✓	
	Part hollowing	✓	✓	✓	✓	
	Mesh subdivision and reduction	✓	✓	✓	✓	
	Remesh	✓	✓	✓	✓	
	Prop		✓	✓	✓	
	Extrude		✓	✓	✓	
	Orientation and Packing	Orientation optimizer	✓	✓	✓	✓
		Orientation comparator		✓	✓	✓
Minimize bounding-box		✓	✓	✓	✓	
Move, rotate and align		✓	✓	✓	✓	
2D Nesting		✓	✓	✓	✓	
3D Nesting			✓	✓	✓	
Analysis Tools	Create sinter box		✓	✓	✓	
	Measurement	✓	✓	✓	✓	
	Live collision detection	✓	✓	✓	✓	
	Wall thickness analysis		✓	✓	✓	
	Trapped volume analysis		✓	✓	✓	
Support Generation	Volume, cost, build time estimation		✓	✓	✓	
	Volume, Line, Point support			✓	✓	
	Bar support	✓		✓	✓	
	Automatic support scripts			✓	✓	
	Manual support creation			✓	✓	
	No-support zones definition			✓	✓	
	Angled volume supports			✓	✓	
Smart Support	Support area preview			✓	✓	
	Smart support				✓	
Lattice and Optimization	Lattice structures				✓	
	Perforation		✓	✓	✓	
	Z-compensation		✓	✓	✓	
Slicing Tools	Slicing	✓	✓	✓	✓	
	Slice visualization	✓	✓	✓	✓	
	Slice edit		✓	✓	✓	
	Hatches		✓	✓	✓	
	Slice based Z compensation		✓	✓	✓	

Contact Us

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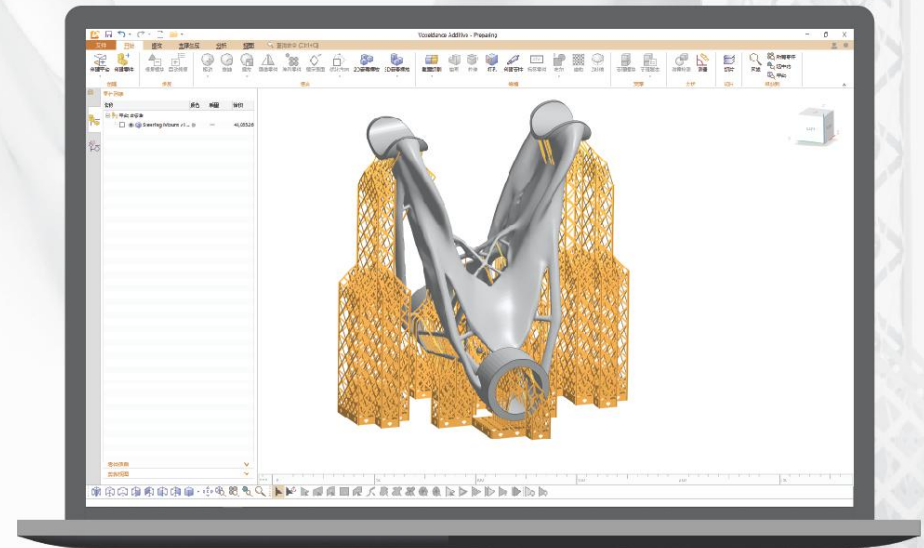
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Voxeldance Additive

Powerful Additive Software of Data Preparation



About

Voxeldance Additive?

Voxeldance Additive is a powerful data preparation software for additive manufacturing. It could be used in DLP, SLS, SLA and SLM technology. It has all the functions you need in 3d printing data preparation, including CAD model import, STL file repair, smart 2D/3D nesting, support generation, slice and adding hatches. It helps the users save time and improve printing efficiency.



Tips

What is 3D printing data preparation ?

From CAD model to printer, a CAD data can't be used directly for 3d printing. It should be convert to STL, processed according to different printing technology and exported to a file which could recognized by the 3D printer.

Why

Voxeldance Additive?

- Well-designed 3D printing data preparation workflow.
- Integrate all the modules on one platform. Users can complete the whole data preparation with one software.
- Smart modules design. With our highly optimized algorithm kernel, complicated data process can be done instantly.

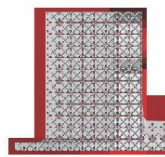
Data Preparation Workflow in Voxeldance Additive



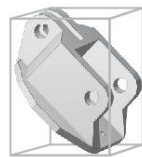
Import



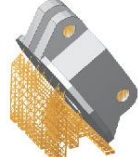
Repair



Edit

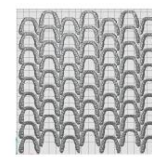


Optimize
Orientation

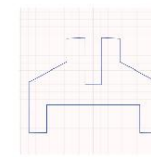


Generate
Support

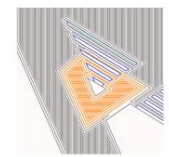
For DLP, SLA, SLM



Automatic
Placement



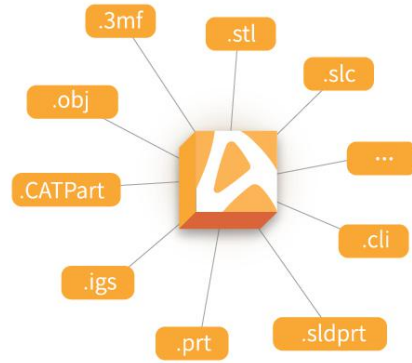
Slice



Add Hatches

Import Module

Voxeldance Additive supports nearly all the file formats, bridges the gap between CAD files and 3d printers. Import formats include: CLI Files(*.cli), SLC Files(*.slc), STL(*.stl), 3D Manufacturing Format(*.3mf), WaveFront OBJ Files(*.obj), 3DExperience (*.CATPart), AUTOCAD (*.dxf, *.dwg), IGES (*.igs, *.iges), Pro/E/Cro Files (*.prt, *.asm), Rhino Files(*.3dm), SolidWorks Files (*.sldprt, *.sldasm, *.slddrw), STEP Files (*.stp, *.step) etc.



Fix Module

Voxeldance Additive provides you powerful fix tools to create water-tight data and achieve perfect printing.

- Help you identify file errors.
- Automatically repair files just with one click.
- Fix model with semi-automatic tools, including fix normals, stitch triangles, close holes, remove noise shells, remove intersections and wrap outer faces.
- You also can repair files manually with various tools.



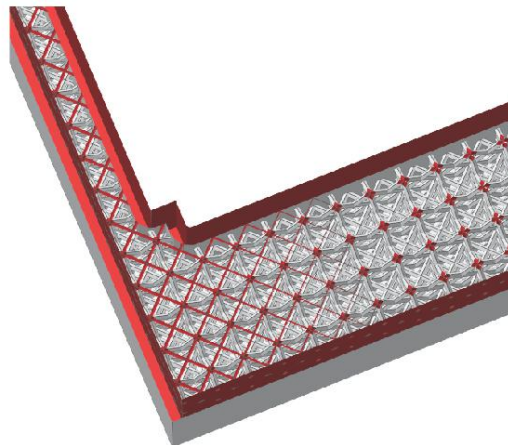
Edit module

Voxeldance Additive enhances your file by creating lattice structure, cutting models, hollow, holes, label, boolean operations and Z compensation.

Lattice Structure

Generate lattice structure with a few quick clicks to help you reduce weight and save materials.

- Provide 9 types of structures and you can setup all the parameters according to your needs.
- Hollow a part and fill it with lightweight structures.
- Add a hole on the part to remove excess powder.



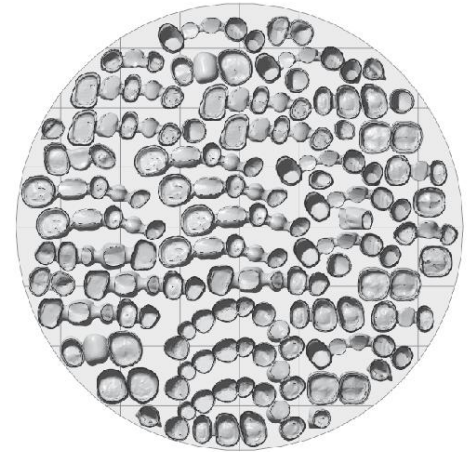
Automatic Placement

No matter your printing technology is DLP, SLS, SLA or SLM, no matter a single part or multiple parts placement, Voxeldance Additive provides you optimized placement solutions, helps you save time and cost and makes your printing business grow.

For multiple models

2D Nesting

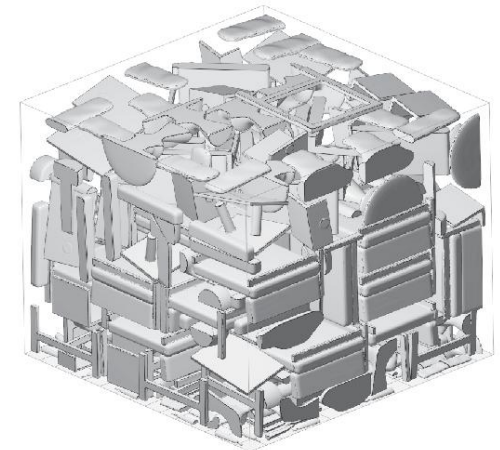
For multiple models, especially dental application, Voxeldance Additive could automatically place your teeth on the platform in a high density with all the cups of crowns facing up and parts' main direction aligning to X-axis, which will reduce manual work and post processing time.



For SLS

3D Nesting

- Automatically arrange your parts in the printing volume as many as possible. With our highly optimized algorithm kernel, the nesting can be finished in a few seconds.
- With the sinter box function, you can protect the small and fragile parts by building a cage around them. It also would help you to retrieve them easily.



Support Module (For SLM, SLA and DLP)

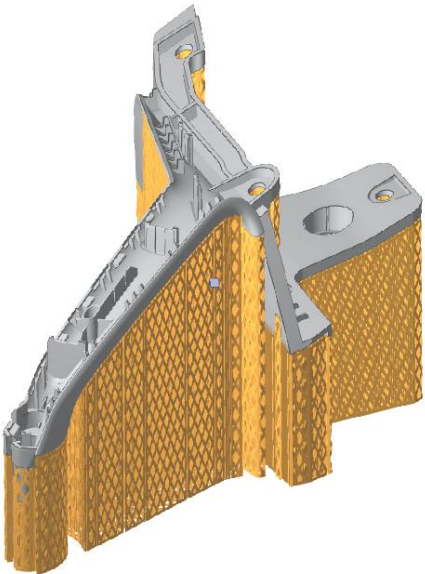
Voxeldance Additive offers you multiple support types for different printing technology and application, including bar support, volume, line, point support and smart support.

- One click to generate support, reduce human errors, improve work efficiency.
- With support module, you could add and edit support manually.
- Select and delete support.
- Preview and customize support areas.
- Stay in control of all of your parameters. Set optimized support parameters for different printers, materials and applications.
- Save and import support scripts for your next print.

Volume, line, point support

Save building time with non-solid, single-line support. You also could set perforation parameters to reduce printing material.

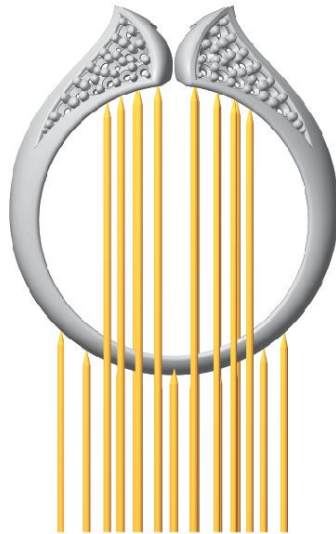
With angle support function, avoid the intersection of support and the part, reduce post processing time.



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Bar support

Bar support is designed especially for the delicate printing parts. Its pointy contact point could improve the surface quality of the parts.



Smart support

Smart support is a more advanced support generation tool, which will help you reduce human error, save material and post processing time.

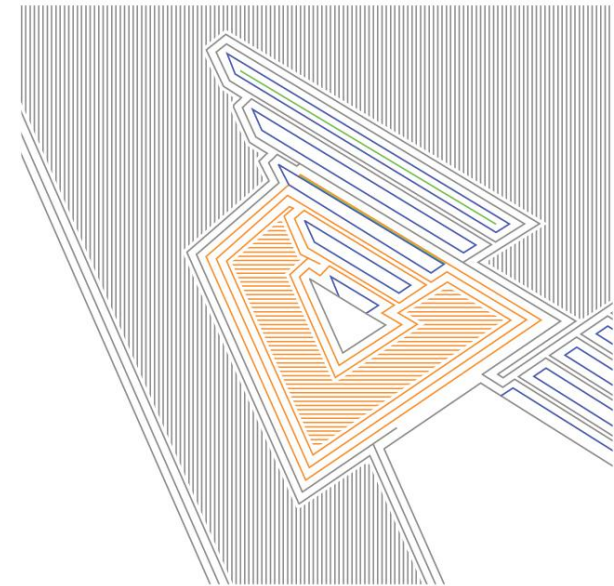
- Smart support adopts truss structure design, which could make full use of the strength of the material and save material.
- Only generates support where it's needed, save material and reduce support removing time.
- Tiny support contact point is easy to break off, and improve surface quality of your part.



Slice

Voxeldance Additive could generate slice and add hatches with one click. Export slice file as multiple format, including CLI, SLC, PNG, SVG etc.

- Visualize slice and scanning paths.
- Identify feature areas of the part automatically and mark them with different colors.
- Stay in full control of the parameters of the contours and scanning paths.
- Save optimized parameters for your next printing.



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