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Ff Geomagic Freeform

3D Design Software for Organic Models

The industry's most comprehensive
hybrid design software for organic models.



Intuitive. Engineered. Done.

Redefining the boundaries of organic 3D design.

Geomagic Freeform empowers designers to create complex, handcrafted-style sculptural and organic forms that are often too complex for traditional CAD systems.

By eliminating the need for costly, time-consuming physical-to-digital conversion workflows and reducing reliance on multiple software tools, Geomagic Freeform streamlines your entire modelling process. It bridges the gap between artisanal design and modern digital manufacturing, making it the go-to solution for some of the world's most recognised brands.



Design With A Different Approach

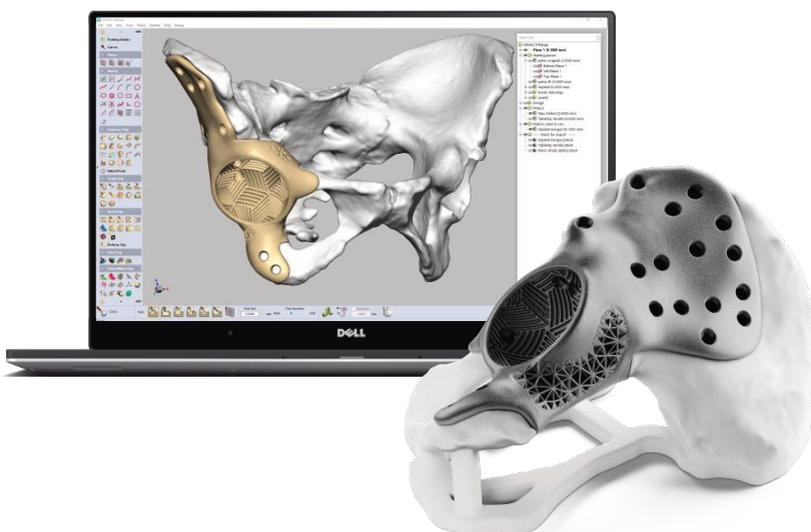
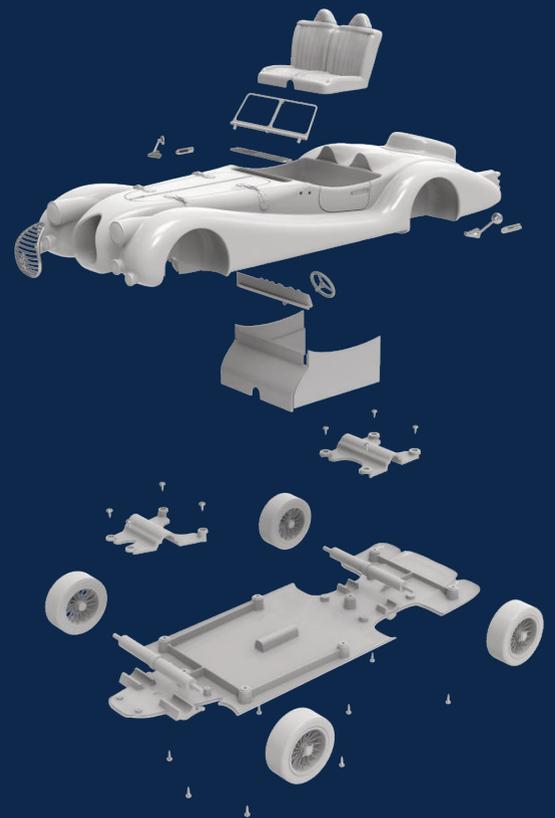
Break through the limitations of traditional CAD design and bring your visions to reality. Geomagic Freeform offers a comprehensive design and sculpting toolset allowing you to sculpt, detail and deform virtual clay models into any form you desire. Take your designs to the next level with the advanced toolsets in Geomagic Freeform Plus. Design for manufacturability is made easy by employing hybrid based conversions, surfacing, CAD editing tools, and mold prep tools, giving you the best of organic and digital design.

Add Organic Design to Traditional CAD

Geomagic Freeform is purpose-built to get your design into production, including its robust interoperability tools to handle import and export of 3D file formats including STL, OBJ, PLY, IGES, STEP and other neutral formats. Combine CAD files with sculpted features to create accurate organic solids that are defined by explicit dimensions.

Design Anything with Built-in Precision

Geomagic Freeform picks up where traditional CAD software stops. This hybrid modeling system has the flexibility and benefits of many different modeling paradigms incorporating Surfaces, Solids, Mesh, SubD, and Clay. Make smooth surfaces and razor sharp edges with SubD, model precisely defined CAD shapes with NURBS and Solids or deform and emboss shapes with Clay.





Use 3D Tools for 3D Tasks

Geomagic Freeform delivers ultimate expressive freedom with seamless support for haptic devices from 3D Systems and Haply Robotics. These devices provide natural hands-on interaction, offering true freedom of motion and the tactile sensation of sculpting in a virtual environment. This intuitive approach accelerates modeling, improves control, shortens learning curves, and enables the creation of complex, production-ready organic designs.



Haply Robotics



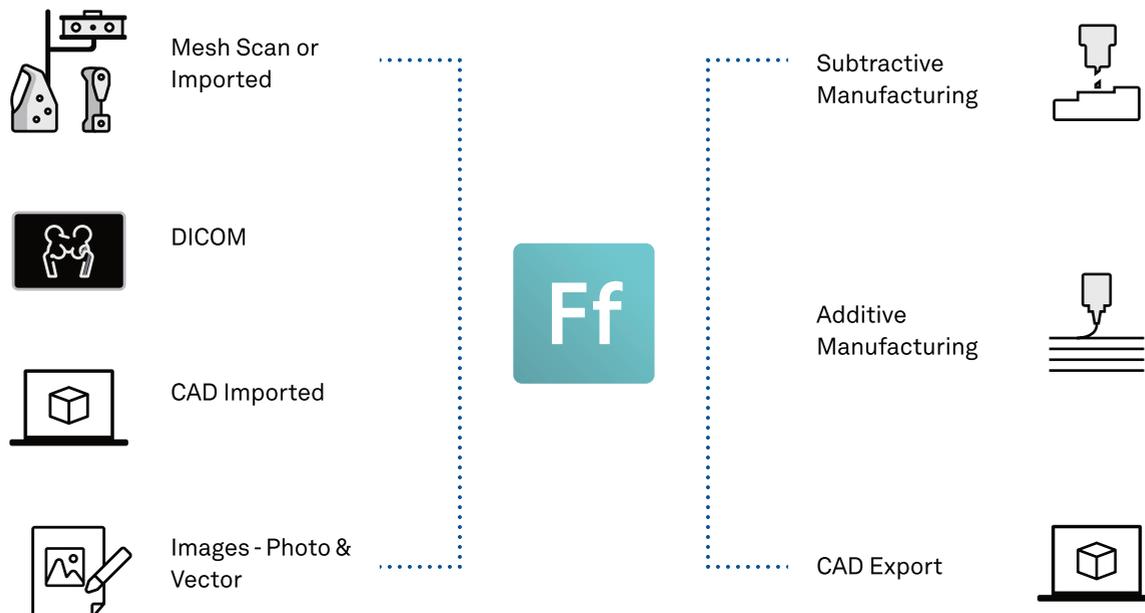
3D Systems

Unlock complete design flexibility

Geomagic Freeform is the world's most powerful Hybrid modeler. Choose, and move freely between the right representation for the task at hand:

- Mesh
- SubD
- Voxels
- CAD surfaces and solids

Unlock complete flexibility, with model representation and export for any existing workflow. Whether you're 3D Printing, machining or combining the two, Geomagic Freeform enables Designers to concentrate on what's important.



Manufacture Directly from Your Designs

Geomagic Freeform Plus allows you to identify and remedy potential manufacturing issues early in the design process so you can retain artistic control while avoiding production surprises and costly oversights. Confidently 3D print your designs with pre-printing analysis tools to ensure the part prints right the first time. You can also use Geomagic Freeform data to quickly 3D print casting patterns for fast, accurate creation of investment casts. Powerful voxel technology exports water-tight models requiring no additional costly model repair software.

Quickly Import and Repair 3D Data

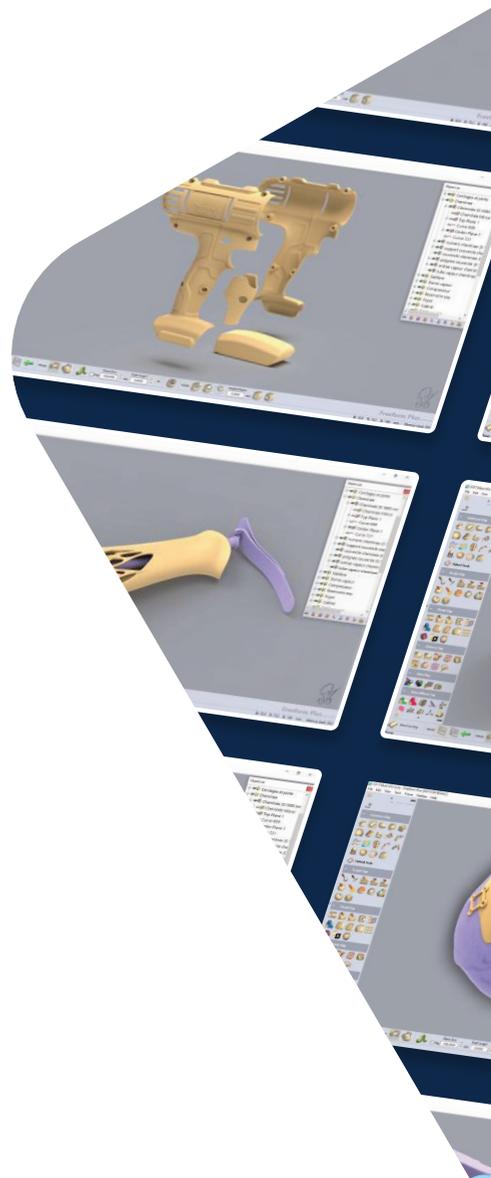
Easily import mesh, CAD, scan and other 3D data from any source and instantly use them in your designs. Quickly repair faulty and low-grade 3D data into smooth workable models.

Easily Communicate in 3D

The stand-alone Geomagic Freeform Viewer lets users view native Freeform files. Simple visualization, zoom, rotate, pan, measure and cutaway tools allow others to see a model without having to be proficient in the software.

Geomagic Freeform Industries

- | | |
|--|--|
|  Academic & Education |  Jewelry, Coins, Medals |
|  Automotive & Motorcycle |  Medical |
|  Ceramics |  Packaging |
|  Characters & Creatures |  Personal Products |
|  Collectibles & Giftware |  Sporting Goods |
|  Confectionery |  Tooling |
|  Consumer Products |  Toys & Promotional |
|  Dental | |
|  Engraving, Relief & Flatware | |
|  Film & Video | |
|  Fine Arts & Sculpture | |
|  Footwear | |
|  Home Decor & Housewares | |



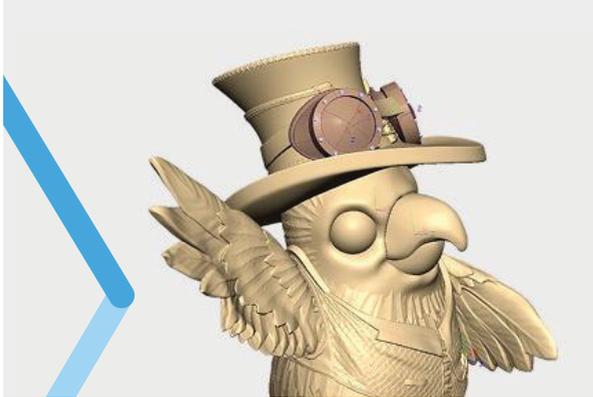
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When I am looking for talent, I do not even have to concern myself with what app they have expertise in. I do not even need to look for someone who has EVER used a 3D modelling (BE) app. I can just look at their portfolio and hire based upon their eye, because I know they will be productive in Geomagic Freeform within 2 weeks.

Christopher Pardell Co-Proprietor Pardell Designs

Choose your plan

The Freeform family offers three versions, each providing a different level of capability and flexibility.



Sculpt

Simple and fast organic design to 3D printing with the core sculpting and SubD toolset.

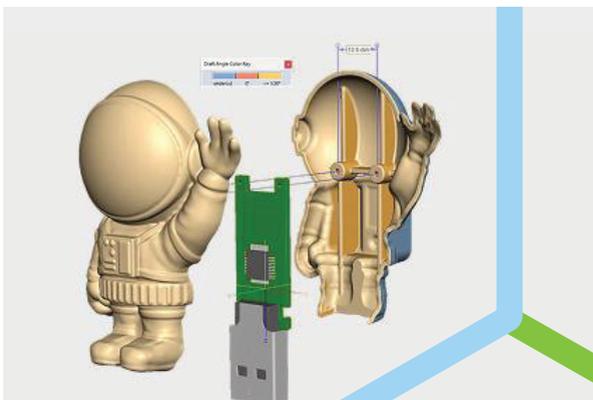
- Full sculpting toolset
- Voxel and SubD toolsets
- Mesh analysis and fixing tools
- Modeling with real world dimensions
- CAD style sketching
- Painting tools



Modeling

Enhanced toolset to take your designs to the next technical level. Use automation for more efficiency.

- Mesh modeling tools
- Enhanced curve toolset for more constructed workflows
- More deformation tools
- Alignment and registration tools
- Run automation scripts



Plus

Complete toolset for engineered organic product design. Hybrid capabilities for the most flexible and complex workflows.

- CAD style surfaces and solids
- Import/export IGES, STEP, XT
- Write and run automation scripts
- Prep models for molding
- Design mold tooling



Schedule a Demo with our specialists to see Geomagic Freeform in action and discover how it can enhance your design workflows today.

* Geomagic Freeform is not a medical device and Hexagon does not claim that it is intended for medical treatment, planning, or diagnosis. Images shown are intended to be representative of models created by Geomagic Freeform users. While many customers have successfully integrated Freeform into their workflows, it is essential for customers to comply with all applicable regulatory requirements.



Hexagon is the global leader in measurement technologies. We provide the confidence that vital industries rely on to build, navigate, and innovate. From microns to Mars, our solutions ensure productivity, quality, and sustainability in everything from manufacturing and construction to mining and autonomous systems.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,800 employees in 50 countries and net sales of approximately 5.4bn EUR.

Learn more at [hexagon.com](https://www.hexagon.com)