

What Is 3D Printing?

3D printing is a process of making a three-dimensional solid object of virtually any shape from a CAD model.

The technology is used for both prototyping and distributed manufacturing in jewellery, footwear, industrial design, architecture, engineering and construction, automotive, aerospace, dental and medical industries, education, geographic information systems, civil engineering, and many other fields.

How does 3D Printing work?

A 3D CAD File is imported into the 3D Printing Software. The software slices the file into thin cross sectional slices which are then fed to the 3D printer.

3D Printing is an additive process growing parts layer by layer in different materials as required.

Materials offered are Powder Resin (like plaster of paris), ABS like Plastic, Castable Wax and Nylon.

How long does 3D Printing take to manufacture?

The time it takes to print something depends on its size — something the size of a small pedestal could take a whole day, while smaller trinkets would take a couple of hours

What can be printed?

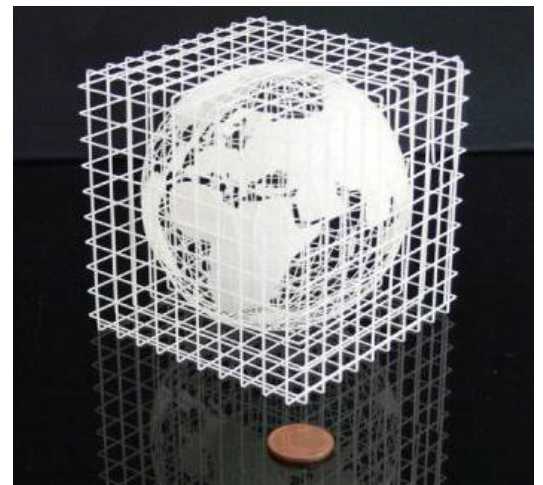
In short, just about anything can be 3D-printed (see images on following pages to get some ideas.) The technology enables previously impossible shapes, like intricate details to exist.

Advantages of 3D Printing

The most successful companies have adopted 3D printing as a critical part of the iterative design process to:

Increase Innovation

- Print prototypes in hours, obtain feedback, refine designs and repeat the cycle until designs are perfect



Improve Communication

- Hold a full colour, realistic 3D model in your hands to impart infinitely more information than a computer image
- Create physical 3D models quickly, easily and affordably for a wide variety of applications

Speed Time To Market

- Compress design cycles by 3D printing multiple prototypes on demand, right in your office

Reduce Development Costs

- Cut traditional prototyping and tooling costs
- Identify design errors earlier
- Reduce travel to production facilities



Win Business

- Bring realistic 3D models to prospective accounts, sponsors and focus groups



