

FROM CONCEPT TO FORM

# 3D PRINTERS BRING IDEAS TO LIFE

## How does a 3D printer work?

3D printers make things by building them up, a layer at a time, from a particular material, rather than removing it by cutting, drilling or machining—which is why the process is also called additive manufacturing.



## So what's the benefit?

**Customization** - 3D printing allows for on-demand manufacturing with rapid prototyping and product visualization. The additive process requires less raw material and, because software drives 3D printers, each item can be made differently without costly retooling.

**Sustainability** - 3D printing is an energy-efficient technology that can provide environmental efficiencies in terms of both the manufacturing process itself, utilizing up to 90% of standard materials and by providing stronger designs that impose a reduced carbon footprint compared with traditionally manufactured products.

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Engineers and designers have been using 3D printers for more than a decade, but as this technology becomes less expensive and more mainstream, it is readily available for many applications!

## SO WHAT CAN YOU PRINT?

### EVERYDAY PRINTING

On Demand Parts - replacement parts for appliances and machinery  
Custom Products - phone cases, jewelry, shoes, kitchen utensils  
Prototypes - bring inventive ideas to life



### PRO PRINTING

Architects - tangible renderings for custom designs  
Contractors - replicate building nuts, bolts and fixtures  
Medicinal - prosthetic parts, medical equipment, synthetic organ attachments  
Aerospace - low weight exhaust, structural and compressor parts  
Education - students can touch and hold learning tools

Ready to bring your printing ideas to life?  
We have entry level models to get you started.