

The Reasons To Use A 3d Printing Service

3D printing services are expanding more rapidly than they have ever. This is because more and more people are considering 3D printing for their projects. Whether an individual enthusiast or a research group or even a production business there are many who aren't comfortable spending money on 3D printing equipment. Instead, they prefer to use a 3D printing service first.

Today, 3D printing services primarily focus on working with professionals. Although there is an opportunity for customized items for people, a significant segment of the business is B2B.

Sometimes, even if you have a 3D printer available it is possible that using a 3D printing service is a better choice. For example, you might require a component made of a material or color that you don't have and you would rather not purchase a whole spool, so it makes much more sense to buy the part instead of acquiring all the equipment and stock that you could not need outside of one project.

Supply Chain Management

[3d printing warping](#) technology has improved over time to be able to create prototypes as well as end-use parts. This is crucial for specific applications.

Due to the high expense of tools, it can be costly to design and make a piece. Since 3D printing is such an adaptable process, making a number of different parts and design variations isn't a major issue and it is a great solution to adapting designs.

A Variety of Materials

One of the most important selling points for a 3D printing company is the variety of materials (and techniques) it can offer. With continuous innovation within the industry and in the field, it's usually the companies that offer services that are able to utilize the latest technology, particularly the bigger companies.

Most 3D printing companies offer at least three of the well-known 3D printing techniques: FDM and resin printing (including materials jetting), or SLS. For FDM, some of the most common materials include ABS, PLA, PETG and PLA, while resin printing mostly makes use of photosensitive resin. The most popular material type for SLS is PA12 nylon powder. These materials are the most used in 3D printing, however there are many other options like stainless steel or gold.

A wide range of finishes and colors

With so many materials available 3D printing service users will be in for a treat in terms of the wide range of finishes and colors available. Finding the right match for an project has never been easier.

Colors

Filaments used in FDM like PLA, ABS, and PETG generally are available in a broad range of shades. The plastic pellets that make filament are dyeable.

Nylon and composite filaments, that are more sophisticated and more advanced, are difficult to dye. This is the reason they're not available in a variety of "wild" colors.

In terms of 3D printing with resin there are many kinds of colors that are available for resins, however not quite as numerous as the colors available for PLA. Technologies such as SLS use industrial-grade nylon powder which comes in black, white or someplace in between. Again, this is due to it not being the most straightforward to dye.

Larger & More Flexible Print Sizes

3D printing services usually use a number of 3D printers to meet both high demand and to ensure that lead times are acceptable and a wide range of demands. There are many benefits of this, such as the capability to print in various sizes.

Sometimes, splitting large parts into multiple parts is not the most efficient option. This is why an enormous build plate might be necessary. Chances are that, short of accessing printing facilities one or more people will not have the massive printer needed available, while a lot of companies do.