5 Uses of Laser Cut Parts

Laser cutting is trusted for its accurate cutting by many industries over the past few years. Laser cutting can:

- Cut or engrave precise lines through a thin plate of steel
- Mark different materials with varying degrees of thickness And everything in between.

You can use laser cutting on a variety of materials by advancement in technology. Using good quality laser cut parts like Trumpf laser parts can increase the longevity of the final product.

Several industries like:

- Construction
- Industrial fabrication/manufacturing
- Military and Defense
- Recreational Vehicles
- OEM
- Agricultural
- Furniture
- Communications/telecom
- Alternative Energy uses the Laser cutting method

Apart from these industries and cutting metal bodies, there are many other uses of laser cut parts to like:

1. In Jewelry Making

How come jewelry? Well, think of those small gears in a wristwatch or those tiny headphone gears. This precision of laser cutting lends itself to the jewelry-making process. With the impeccable accuracy of the laser cutting process, you can make gears with less waste and less production time.

While talking about uses in the jewelry industry, we should not forget about the engraving capabilities of laser cuts. It can engrave designs and inscriptions onto the interior or exterior

surface of the piece. Lasers can cut precise shapes and give desired thickness. And all this makes it reliable to use in the jewelry-making process.

Creating a ring or an anklet of an exact width, depth, and diameter becomes easy with a laser. You can use laser cutting to engrave designs and inscriptions onto the interior or exterior surface of the piece.

2. In Medical Device Manufacturing

One of the most significant uses includes using it for laser surgery in the medical industry. This helps surgeons to make more precise cuts and patients heal much faster after laser surgery. Use Laser cut parts to create medical devices and improve the quality and reliance of the surgery.

Made by using laser cut parts includes Stents, vascular clips, flexible shafts, valve framers, injection molds, etc.

3. In Automotive Manufacturing

The automotive industry is always in a need of exact replicas of a part of different shapes and sizes. Applying cutting methods can reproduce those parts quickly and precisely.

The automotive industry uses cutting to cut down metals and plastics to form body pieces of vehicles, electronic components, interior covers, etc.

Laser cutting processes can cut hydro-formed parts too. These are usually strong tubes that provide support within the structure of the vehicles. Here, the quality ensures trust, thus opting for Trumpf consumables is one of the best choices for the automotive industry.

4. For Dye and Tools Manufacturing

With the laser's ability to cut a variety of depths into the metal, an accurate dye gets ready or stamping pieces. This will last through the repetitive process of dye-cutting. To increase the longevity of dyes, use Trumpf laser parts in the cutting process.

Within the tool manufacturing industry, cutters can be used for:

- Marking and engraving
- Manufacturing of simple hand tools
- Engraving company logo and tool information onto the rubberized handles of most tools.

The speed of cutters might even make it better than die-cutting on sturdy metals.

5. For Silicon and Ceramic Manufacturing

The laser cutting method allows accurate cutting to produce smaller silicone parts. These can be further used in computers and electronics, textiles, architecture, automobiles, etc.

Lasers cut ceramics in order to reduce processing time without compromising edge quality. Examples: Airplane jet engines, electric motors, headphones, power plant generators, electric cooktops, etc. Here, using Trumpf laser consumables proves to be reliable.

Laser cutting is one of the most versatile methods used by different industries all over the world. The advancement of technology brought new upgrades to this method. And due to this, the use of cut parts is increasing every day to sharpen or smoothen your manufacturing needs. If you have a cutter for manufacturing, or if you are thinking about investing in one, knowing its current uses might clear your head.