

WHAT IS LASER CUTTING?

Laser cutting is simply a process to cut an extensive variety of materials into precise shapes as required by the process. A focused laser beam is programmed to cut a diverse range of materials with varying levels of thickness into the desired shapes.

Laser cutting can be compared to a traditional saw, except for the fact that a fiber laser beam offers much higher levels of precision and accuracy and is a contact-free process, meaning there are no parts to be replaced, and no downtime experienced when machines are switched off to replace cutting blades. All aspects of the laser cutting process are contactless and can be programmatically controlled by the laser operator.

Scribing, engraving, and marking are all closely related to laser cutting.

INDUSTRIES THAT USE LASER CUTTING

Laser cutting is actively used in many industries, we summarise some of them below:

AEROSPACE



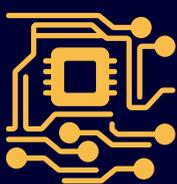
Laser cutting is used similarly to Automotive in the parts manufacturing process. Aerospace demands precision parts, which perform in extreme conditions with ultra-high reliability. Laser produced parts are commonly used in aviation as well as in outer-space applications.

AUTOMOTIVE



This industry has an array of manufacturers producing a vast selection of parts for a wide variety of vehicles. Precision laser cutting is often a key part of the manufacturing process and produces complex metal shapes and parts such as carriage components.

ELECTRONICS



Laser cutting is used to cut plastics, metals and other materials into shape within the electronics industry. Many parts are incredibly small and intricate. Precision cutting is used to produce electronic components in devices such as mobile phones, tablets, TVs, etc.

MEDICAL



Materials such as glass, metals, and plastic are frequently cut into shape in the production process of many medical parts. Laser cutting can be used to produce bone reamers, and flexible shafts, hones, stents, valve framers, and vascular clips.

SEMI-CONDUCTORS



With a ten-fold increase in recent production, semi-conductors have never been in more demand. Laser cutting is extensively used in semi-conductor production due to its contactless nature and ability to produce small and intricate parts.

Laser cutting is transforming many industrial processes; those listed above are just a few examples benefitting extensively from this innovative manufacturing tool.