

LASER CUTTING

Gestión de Compras are supplied by factories on the-state-of-art of laser cutting. They are able to work with any material and method of laser cutting to offer our costumers the most competitive products.

PROCESS:

The laser cutting process uses a laser light, which has a very high energy density, to cut the material. Materials employed in this method are sheet of carbon steel, aluminium, stainless steel, copper, magnesium, titanium... In areas covered by this light sheet material melts. Material is removed by applying a pressurized gas, usually argon, oxygen or nitrogen.

Laser cutting is a high accuracy operation helped by a computer numerical control system (CNC). It's especially recommended to cut low thickness sheet (under 2 mm) but it is capable to cut up to 1 inch (25 mm).

Laser cutting has several advantages. It allows creating a silhouette adjusted figures. This is an automated robotized procedure. During laser cutting, little material is lost. Moreover, a stylus or laser head itself can carry out different cuts of different sizes and shapes.

Among the disadvantages, highlights the large investment needed to acquire the necessary equipment for this process. We must also take into account the properties of the sheet material with which it will work. If it is a material with heat conducting capacity high, not work well as it will be very difficult to apply the cut.

PRODUCTION:

In **Gestión de Compras** we are supplied by factories on the state-of-art of laser cutting. We provide to our customers professional management and consulting to get more competitive products.



We work with the three main types of laser cutters:

- CO2 Laser
- Neodymium (Nd) Laser
- Neodymium yttrium-aluminium-garnet (Nd-YAG) Laser.

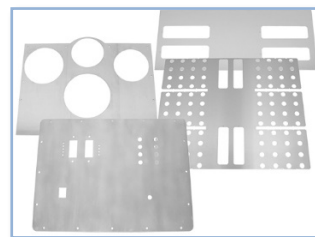
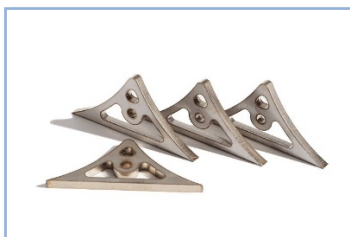
MATERIALS AND PRODUCTS:

Laser cutting is suitable for different types of material as metals, paper, fabric or wood.

Thought more used metals is:

- Carbon steel
- Aluminium
- Stainless steel
- Copper
- Magnesium
- Titanium

Parts made through laser cutting process are used in various fields and sectors such as automotive and household appliances, aviation, agro-machinery components, food machinery components, decorative elements, advertisement items, urban furniture or prototypes for engineering.



TOLERANCES:

Dimensional allowance for this process depends of thickness and material of the sheet. If greater accuracy is not required, we work usually within 0.05 mm for sheet thickness up to 2mm.

STANDARD AND CERTIFICATES:

Our companies have world reference quality and safety standards such as:

- ISO 9001
- ISO 14001
- TS 16949
- ISO 9013
- EN 60825
- OHSAS 18001



CONTACT:

In **Gestión de Compras** work with a wide range of customers from different sectors but have in common the search for products that suit your needs at the best Price and the guaranteed maximum quality. Check with us about any product. We have a qualified staff who will advise you.

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