

# MEDICAL DEVICE MANUFACTURING **S E R V I C E S**

Safeway Technologies provides manufacturing services for medical devices components by the use of laser micro machining, heat treatment and Electro-polishing processes with excellent quality product with highly precision product for medical device industries. Since 1999, we are in medical device industries and we know the current requirement of this industries, by giving very cost effective solution with excellent quality.



**Laser Micro Machining, Passivation, Heat Treatment, Electro Polishing, Inspection**



## What we offer:

- 1 LASER MICRO MACHINING:** Medical device component like stent requires very high precision and tight tolerance; we can make these components from Stainless steel, Cobalt Chromium alloys, Magnesium Alloys and Nitinol Alloy. Tube diameter range: 1mm to 10mm Part Length: 1mm to 100mm.
- 2 PASSIVATION:** This involves creation of an outer layer of shield material that is applied as a micro coating, created by chemical reaction with the base material, or allowed to build from spontaneous oxidation in the air. As a technique, passivation is the use of a light coat of a protective material, such as metal oxide, to create a shell against corrosion. Safeway Technologies has developed its own process for accurate and precise results for this process.
- 3 HEAT TREATMENT:** The annealing process is an important key step in the manufacture of high quality and reliable medical devices, Heat treatment affects the material properties of metals and metal alloys by heating them to a predetermined temperature and pressure, Heat treatment improves material ductility, fatigue strength and corrosion resistance while reducing brittleness. These material enhancements enable medical devices to accommodate concentrations of stress without fracturing and improve their biocompatibility. Safeway Technologies uses furnaces of world leading company of Europe and has developed its own process for setting of material properties and its grain size.
- 4 ELECTRO POLISHING:** is electro-chemical process which removes micro burrs produced during laser cutting, sharp corners, it also helps to remove scratches, heat effected zones, electropolishing results in smooth, uniform and reflective and bright surface. Safeway Technologies has developed sophisticated electropolishing machine its own use.
- 5 INSPECTION:** Safeway Technologies uses strict quality controls to verify both product and process. Quality control is very important in medical device industries, Safeway performs 100% visual inspection for all products and components before shipping. Safeway has stereo microscope with measuring facility from Vision Engineering, UK, also developing its own automatic inspection system with high accuracy.

**Contact us for your sample requirements at:**

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