



INDUSTRY & FUNCTIONALITY

The gadget is for surgical use. It is a surgical device used to hold, seal and cut tissue and vessels.

REQUIREMENTS & CAPABILITIES

- Requirement management (ISO, FDA, customer and country specific)
- Interface management
- Qualified equipment and proven processes
- Consideration of scale up from project initiation onwards
- Global footprint production
- Production in grey room
- High precision multicomponent overmolding
- Total management of global supplier base

DIFFERENT CHALLENGES

- Sealing and cutting in a single unit became possible
- The material behavior of the metal parts is strongly influenced by the coating temperatures
- Tight flatness specification
- The jaws have to be perfectly parallel under standard pressure
- Different overmolding steps with tight tolerances

TECHNOLOGY & PROCESS

- Co-development of multi component overmolding jaws
- Stamping, bending and calibration of steel grades typically used in aeronautics
- Multi layer metal etching
- Brushing
- Precipitation hardening
- Low temperature PVD coating
- Mounting of ceramic stops
- Laser welding
- Cable preparation
- 2k overmolding of two metal components as insulation layer
- High potential test

Surgical DEVICE

PRODUCT DESCRIPTION

Surgical device made of multi-part metal and plastic jaws designed for use with vessel sealants in the surgical field.