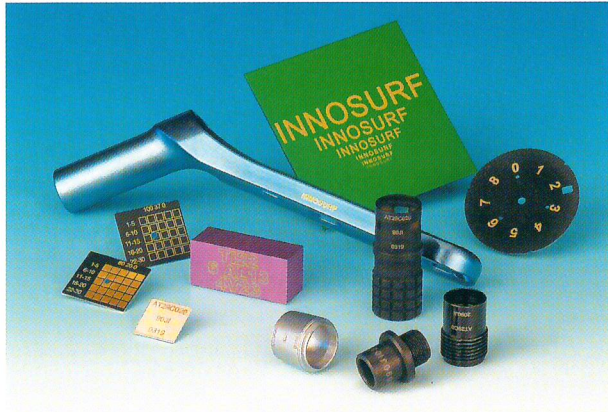


Laser marking – Final washing – Clean room packaging



Various laser marked mechanical parts.



Clean room facility for packaging; ISO class 7 (10'000 ppm).

Besides surface treatments we offer complementary services associated with medical products: laser marking, final washing and clean room packaging.

Laser marking

Laser marking is realized with a Nd YAG 60W pumped diodes laser source allowing to reach extremely high marking speeds. The marking unit is equipped with a rotating multi-indexing table, a pre-positioning visualization system and a divider for diameter marking. The video camera pre-positioning system ensures a high positioning precision which is mandatory for very fine marking on tiny parts. Thanks to this system parts placement isn't an issue any more as each part is individually adjusted.

Final washing

Based on an ultrasonic detergent/surfactant treatment the final washing is carried on an automated line. Then follow a set of rinsing steps using osmotic deionized water and ultrasonic treatment. The final rinsing is driven into clean room under anti-bacteriological UV radiations using ultra-high purity water showing a conductivity of less than 1 μ s. Charges traceability is ensured by the establishment of specific protocols resuming each step parameters.

Clean room packaging

The freshly washed parts are directly collected in an ISO7 clean room (max 10'000 ppm of dust). After a careful control parts are then packaged according to the customer's wishes and the kind of subsequent sterilization step. Packaging operations are done under vacuum or at normal atmosphere pressure using a thermo-welding unit equipped with a printer for traceability purpose. Labelling is also carried out following customers' wishes.

Logistic simplification

The complete set of services covering every surface treatment steps including clean room packaging offers a significant logistic simplification for our customers. This close partnership with our clients takes part of our primary objectives.

Laser marking – Final washing – Clean room packaging are services from the INNOSURF department, the innovation centre for the Estoppey-Reber group.