

## Medical instruments traceability in hospital



### Customer need

- Improve the **internal traceability** by following-up each unit instrument
- **Identify and read** each instrument all along the sterilization process
- Have a **Marking + Reading turnkey solution** : Easy to use system for operators

### Requirements

- Ability to mark many different parts:
  - Large variety of shapes
  - Different material characteristics (hardness, brightness...)
- Permanent & resistant marking to harsh sterilization processing
- Compact, flexible and versatile solution

### Technifor's solution

- **Marking** : Technifor CN312CSm Micro-Percussion machine with protection bellow + MOCs short stylus
- **Reading** : 2 Dataman 7550 & 7500 Hand-held readers

### End-user benefits

*Technifor offers a solution :*

- *standard*
- *easy to use & to define parameters*
- *user-friendly*
- *ergonomic marking station*



A MARK WHICH DEFIES TIME

*Technifor is the world's first manufacturer of Direct Part Marking machines for automatic identification and permanent traceability, with 31,000 machines installed worldwide and a network of 11 subsidiaries and 200 distributors in 50 countries.*

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**Mark'n Read**  
by technifor

## Identification on titanium and stainless steel medical prostheses



### Customer need

- **Install 2 Laser marking stations** at the exits of 4 machining stations
- **Mark** a reference and logo on the prosthesis based on **data retrieved from a data base** dedicated to handling work orders

### Requirements

- Cycle time under 1 minute
- 600 different product references for prostheses in a variety of shapes and materials
- Adaptation of marking parameters according to the material without the need for operator intervention on the marking file
- High-contrast, non-destructive marking: laboratory controls and validates

### Technifor's solution

- **Marking: 2 Technifor LaserTop410** marking machines with Z axis which is programmable from the marking file
- **Software: Technifor T700W** linked to the customer data base for automatic management of file parameters
- **Customized operator interface:** The marking file model is automatically filled in with data contained in the customer data base and linked to each product reference

### End-user benefits

*"Two ergonomic Class I Laser marking stations with an innovative design"*

Ergonomics and versatility of the standard offer easily adapted to the needs of the application:

- Data acquisition from the customer base directly to the **T700W** software
- Once the bar code is read, the operator is able to mark the part quickly using the correct parameters (height, material) and without the risk of error

## Identification & traceability of individual biofluid storage containers



### Customer need

- **Read a bar code label** already glued on the part
- **Eject duplicate** parts automatically
- **Mark a unique identifier** on each of the 48 wells in the container: 10 alphanumeric characters (OCR readable) + DataMatrix™
- **Reread markings** in order to **validate the cycle**
- Record identifiers in a traceability data base

### Requirements

- Total cycle time: 1 minute
- Zero risk of non-conform parts: 100% mark verification rate
- Small marking surface: well  $\varnothing = 8.5$  mm
- Customized work station installed in clean room environment

### Technifor's solution

- **Marking:** *Technifor TL400* Laser marking machine
- **Vision:** *Cognex Insight 1010* camera + *Red LED ring light*
- **Software :** *Technifor T700W* linked to control PLC

### End-user benefits

All areas of expertise from our "customized machines" department were put to use to analyze and create this automatic identification solution for a complex product:

- *Precision mechanical guiding for positioning the marked products in a matrix.*
- *Complete control over the choice of tool settings for reading and verification of the identifiers marked on an extremely small surface.*
- *Computer system adapted to the information circuit and automatic data collection*

Distributed by:  
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