

## Automated Marking of Hand Drivers & Other Tubular Medical Devices

### Challenge

Manufacturers of hand drivers, cannulas, syringe bodies, and other tube-shaped medical devices need a simple, reliable method to accurately deliver permanent identification and tracking (UDI) marks, as well as functional gradations and fiducials. To minimize time and overall costs for volume production, a high level of automated alignment and screening as well as unattended operation are all key requirements.

### Solution

The AutoTube Marker from Coherent is a completely standalone tool, optimized for tube/cylinder shaped devices and components, that automatically handles all aspects of marking. The user simply places a batch of parts into the input hopper. The operator scans the data code, and the AutoTube Marker takes over and does the rest. Each part is automatically positioned under the laser scanner. It is moved and rotated according to the particular marking routine stored in the machine. Afterwards, it is screened for user-defined pass/fail criteria including dimensional tolerances and mark contrast. The part is then automatically placed into either the "pass" or "fail" output hopper. The machine then marks the next part and so on, until the entire job batch is marked and screened. All while completely unattended.

The mark designs can be created, loaded and stored via the easy-to-use Visual Laser Marker (VLM) software. Plus the AutoTube Marker is available with a wide choice of marking lasers including infrared, visible and ultraviolet wavelengths matched to virtually any metal alloy or plastic. Alternatively, an ultrashort pulse (USP) laser option enables the latest corrosion-resistant black marking for stainless steel re-usables.

### Benefit

All medical devices need some type of marking. The AutoTube Marker reduces this critical task to the simplest possible level, minimizing the cost per mark. The user loads parts in a hopper bin, and pushes a button. The machine then delivers a hopper of marked and screened parts.



Figure 1. The AutoTube Marker accurately creates precision marks on metals and plastics.



Figure 2. The AutoTube Marker is a completely self-contained and automated system.

## Application Field

Marking hand drivers, cannula and other tube-shaped medical devices and tools.

## Contact

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