



## Marking in the aviation industry

### Marking of different materials with UID-codes

#### ■ Sikorsky Aircraft Corporation [www.sikorsky.com](http://www.sikorsky.com)

Sikorsky Aircraft Corporation took delivery of the first two FineMarker Hybrid lasers from Trotec to complete their marking tasks. The FineMarker Hybrid is the market's only laser system that combines a CO<sub>2</sub> and a Nd:YVO<sub>4</sub> laser source on one flatbed machine. Thanks to this technology the FineMarker Hybrid processes non-metal as well as metal objects on its large working area of 730 mm x 430 mm. The FineMarker Hybrid is extremely flexible and therefore highly productive for small as well as large lot sizes. The very fine laser beam makes the marking of 1-point text as well as the creation of micro-scripts possible. The contact-free marking mechanism ensures that expensive and delicate parts are not touched during processing and thus remain undamaged. The FineMarker Hybrid provides Sikorsky with excellent marking results at high processing speed and top flexibility.



#### Trotec Case Studies

#### ■ The challenge

The marking systems must be able to create marks that are 100% permanent and readable in order to guarantee full verification. The marking system has to realize excellent results not only on one special material, but on a large range of different materials, from aluminium to steel, from plastic to leather.



#### ■ The Trotec solution

Ensuring traceability of components for safety reasons is highly important in the aviation industry. Furthermore, UID specifications dictate that parts meeting certain criteria must be traceable by means of a unique identifying 2D code. To fulfill all these requirements, Sikorsky marks a large range of different sizes and materials with UID codes.