Laser marking in the aircraft industry
Marking of plastic and metal parts

Case Studies

The Schiebel Group

The Schiebel Group was founded in 1951 and is concerned with the development, and production of the latest mine detectors and the innovative CAMCOPTER®, an unmanned helicopter drone with the latest navigation technology.

The application

Schiebel marks a variety of materials in various forms and geometries: plastics and metals (steel, aluminum). The applications range from plastic housings for mine detectors to gearbox casings out of waste-wax casted aluminum and titanium parts.

The challenge

To solve the marking problem, Schiebel was looking for a product that will label a large variety of materials quickly and permanently. It must be possible for both the smallest plastic parts as well as large objects made of waste-wax casted aluminum to be placed in the machine. A further challenge was to carry out the marking of a large variety of small numbers of units quickly and efficiently.

The Trotec solution

From the start, it was clear that only an **Nd:YAG laser** represented an ideal solution. The diode pumped Nd:YAG flat bed laser from Trotec—**the Finemarker**— fulfilled the requirements perfectly. Both small and large objects (up to 160 mm in height) can be marked on the treatment surface of **726 x 432 mm** without problem.

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laser engraving technology

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