

# Laser cladding technology at Trio OilTec Services



- Repair of worn parts and production of new ones
- Great flexibility and short lead times
- Your partner that understands your tools and needs

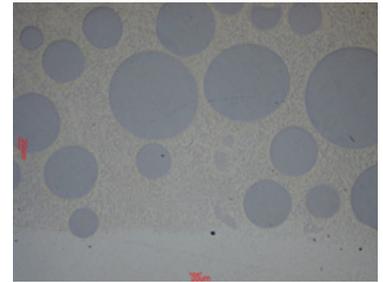


**TRIO OILTEC SERVICES**



## Why using laser cladding?

Laser cladding is state of the art for surface protection; high precision is often cited as an advantage offered by this system but many others can be mentioned, in particular for the oil industry. First of all, the low heat input keeps the dilution to the minimum; **the alloy maintains its optimum wear-resistant properties**. Then, the heat affected zone is very thin under the surface; **part distortion is avoided**, thin walled components are not damaged and mechanical properties are not significantly modified. Finally, highly automated laser equipment ensures reproducible process, a homogeneous coating deposition and eventually a **constant and controlled quality**, which is critical in high demanding environments. Consequently, critical mag and non-mag components can carefully be protected with optimal coatings.



## At Trio OilTec Services, we understand your daily business

After more than 15 years' experience in the Oil industry and downhole tools, we, at Trio OilTec Services, perfectly understand your daily requirements. We know that short lead-times may even not be acceptable in case of urgent needs and sometime parts must be repaired straightaway. For these reasons, **we are located close to you in Stavanger area**. Each part can be transported directly from your premises to our workshop within fifteen minutes for any immediate repair.



In addition to be Achilles and ISO certified, we are regularly audited by our customers. Strict production procedures defined by our engineers ensure a perfect manufacturing quality while the **OEM's parts we produced are always documented**.

## Trio's laser cladding equipment

Complete laser equipment will be available in our premises before year end. This equipment does not only include a laser cladding machine; it has also been designed to be closely linked to your engineering department. A three dimensional CAD software will allow us **tailoring the best hardfacing-pattern with you** before any production. The fully automated 6 axes CNC machine will then guarantee that **parts up to 15m** will be cladded with the highest quality standards within a very **short lead-time**.



## Full range of coating solutions

Being part of Castolin world, we benefit from R&D a thorough understanding of materials and coatings performance. **Exclusive laser powders** are developed and produced internally for your needs.

With the laser equipment available soon, we will have in one unique workshop the most complete and unrivalled range of technologies for protecting tools in the oil industry. Our PTA, HVOF, arc-spray, powder fuse and electroplating systems are all available in our premises and are used according to your needs.



These advantages make Trio OilTec Services your unique one-stop repair workshop for repair and coating services.



## Trio OilTec Services

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