



Newsletter – November 2016

Turbine Centre Frame

GP7200



Effective Repairs Solutions



TCF GP7200 : CRMA Innovative Repairs Solutions

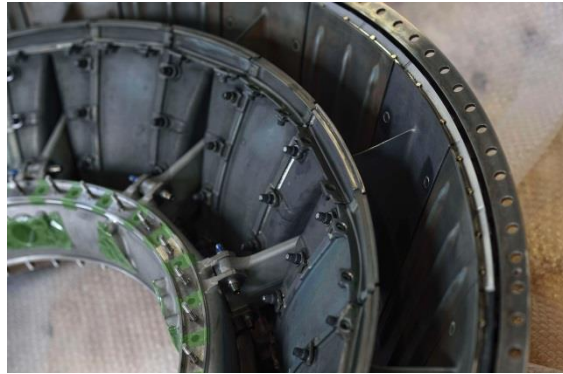
Key benefits:

- Cost reduction up to 1 250 000 USD per TCF
- 50% to 70% of panels repaired instead of being replaced
- Light workscope proposed to our customer
- OEM approved repairs



The adaptive solution developed by CRMA:

CRMA is **proactive in the repair development**: **11 repairs** have been developed for the GP7200 TCF over a period of 2 years. These salvage solutions are applied on the TCF most expensive parts: the 36 flowpath parts of the liner assembly, affected by fretting and corrosion due to vibrations and high temperature to which they are exposed during services. **Salvage repairs** are implemented to save between 50% and 70% of the liner assembly's panels.



To support industrialization of repairs, CRMA invested in machines such as **5-axis machines** for fast and efficient parts processing. Tools were also developed to be custom-designed for the fairings and other liner parts, and then made of **additive manufacturing**. CRMA is using advanced technology to offer the best value with highest quality for its customers' overhaul parts.



Implementation of light workscope has shortened the TCF's maintenance processing time and has reduced the exposure rate of the flowpath parts. As a result, the module can now be partially disassembled, only the most damaged parts of the liner are being repaired. Therefore, CRMA is able to offer more cost effective repair solutions to the customer as an alternative option to a classic full overhaul.

