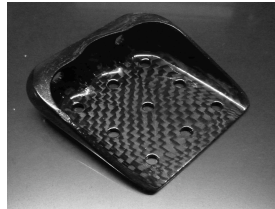


NEW GENERATION COMPOSITE BRACKETS BY SKF AF

SKF AF FITTING CONTROL OF CARBON PARTS

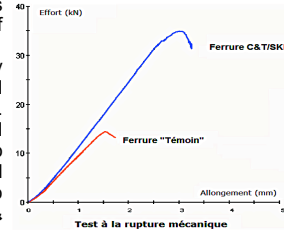
Well renowned in structure rods fields, SKF AF will bring its industrial know-how for carbon parts manufacturing. The diversification offered by these structure parts is of a very high added value.



Manufactured and tested parts **present resistances double** of the actual carbon brackets.

The developed know-how by **CONSEIL & TECHNIQUE** and **SKF AF** is industrially protected. Both companies have decided to extend their collaboration to other aerospace technical needs. **SKF AF** has decided to work with **CONSEIL &**

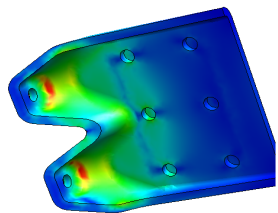
TECHNIQUE in order to prepare for the future and to be able to propose true innovations including technological breakthroughs which will make the difference.



NEW GENERATION AIRCRAFT COMPOSITE BRACKETS THE STAKE

Weight optimization has become an unavoidable subject to aircraft manufacturers. In order to resolve this issue, industrials are using tested technologies. On today's competitive market only a breakthrough would make the difference. Transiting to more electrical systems and composite is only the first strategic battle between aircraft manufacturers.

To meets the aerospace market evolving needs **SKF AF** has decided to lead a dynamic policy research on new technologies.



For these different functions, we have decided to take a whole new approach on the composite processes which **SKF AF** uses on its different range of rods. Why ?

Aerospace industry manufacturers are more ambitious. In order to preserve their commercial positions and to be more competitive on their respective markets, they do not hesitate to raise the bar i.e.: fuselage or part fuselage all in composite. These choices lead to new technical problems such as junctions or connections parts. Connections parts called "**BRACKETS**" (or "FERRURES"), because they were and are still manufactured in metallic raw material) in technical slang, represent a significant weight in an aircraft. For composite

structure, assembly is one of the main challenge.

In addition to that, we note that these technical challenges are not only reserved for new programs. As a matter of fact, some aircraft manufacturers are on the way to modernize their standards others are studying possible retrofits of aircrafts already online to take advantage of the composite materials success.

SKF AF proposes an innovative technical solutions. Today, success is on the way thanks to a privileged relation between our team and **CONSEIL & TECHNIQUE**. By meeting market demands as well as **SKF AF** directives, **C&T** met the par. We are now finalizing an industrial solution with the goal to manufacture 3D composite parts such as: fasteners, squares, brackets...with high mechanical characteristic. These different parts families are used in consequent quantities all around the primary aircraft structures.

CONSEIL & TECHNIQUE innovative ideas allowed us to unconventionally approach the problem. Why? Exploring new possibilities was often restricted by established technique. **C&T** simply proposed a technological breakthrough.

Today, the object of this collaboration between our two companies is in the final stage, as well as the first proposition made initially by **CONSEIL & TECHNIQUE**.

CONSEIL & TECHNIQUE INNOVATION FULL AHEAD

C&T has developed a unique know-how in the conception of that kind of pieces. Its approach is very simple, never replace an existing metallic part by the same in composite but thinking it directly in «Composite» thus integrating it upstream of the conception phases.

Since 1995, this small company based in Toulouse(FRANCE), specialized in the control of movement and composite parts, has been recognised in the aerospace and space industry. They count today more than 130 patents all around the world and is able to propose a new approach to technical problem resolution.

By taking advantages on a complete network suppliers, laboratories and well known industrial properties cabinets/companies, **CONSEIL & TECHNIQUE** brings from its small structure a very high reactivity and technical dynamism supported by **Guy VALEMOIS**.

M. MAHEO - TECHNICAL DIRECTOR, SKF AF (FRANCE)
M. TARKHANI - SALE DIRECTOR, CONSEIL & TECHNIQUE(FRANCE)