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SKF unveils Black Design composite innovations at the Paris Air Show

SKF has chosen the Paris Air Show to showcase a disruptive technology in composite parts innovation for aerospace - SKF Black Design.

Gothenburg, Sweden, 20 June 2017: SKF's Black Design concept is a unique technology that enables lightweight, high performance composite structural parts to be designed and manufactured for a much wider variety of aerospace applications, including structural cleats and products such as hubs and carriers that integrate bearings within the composite part.

Black Design is a disruptive metal-replacement technology that makes a substantial contribution to the industry's goals of developing lighter weight structures that do not corrode and which are not susceptible to fatigue cracking.

The use of composite materials in the latest generation of commercial aircraft has seen weight reductions approaching 50 percent. But the use of composite materials in aircraft has reached something of a plateau in terms of the levels of structural performance that can be attained when applying traditional composites design techniques to the vast number of smaller, load-bearing structural interface parts that are to be found in a modern aircraft.

This situation is now poised for change, thanks to SKF Black Design, which is able to combine existing carbon fibre reinforced plastic parts construction methods with innovative design techniques, extending the scope of applications for composite solutions to structural parts that are strongly competitive against current metallic part solutions in terms of mass-versus-cost ratio. Moreover, SKF Black Design can avoid many of the issues that arise when combining metallic and composite elements within a single structural part.

SKF is exhibiting at the Paris Air Show, June 19-25, 2017, in hall 2A, Booth 254, and business Chalet 154. Strategically located in the main hall of the show, SKF's exhibit includes a range of innovations for the aerospace industry in addition to Black Design, including advanced hybrid bearings, spherical plain bearings, maintenance free rolling bearings and bearing condition monitoring systems.

Aktiebolaget SKF
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SKF is a leading global supplier of bearings, seals, mechatronics, lubrication systems, and services which include technical support, maintenance and reliability services, engineering consulting and training. SKF is represented in more than 130 countries and has around 17,000 distributor locations worldwide. Annual sales in 2016 were SEK 72 787 million and the number of employees was 44 868. www.skf.com

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