

# SAFRAN IN CHINA

2017



**SAFRAN IS AN INTERNATIONAL HIGH-TECHNOLOGY GROUP AND TIER-1 SUPPLIER OF SYSTEMS AND EQUIPMENT IN THE AEROSPACE AND DEFENSE MARKETS. OPERATING WORLDWIDE, THE GROUP HAS NEARLY 58,000 EMPLOYEES AND GENERATED SALES OF 15.8 BILLION EUROS IN 2016.**

**More than a century of relations with China**



## Long-standing presence

Building on more than a century of relations with China, Safran is a major player in the Chinese civil aviation market. Safran's relationship with the country started in 1910 with the first visit to France by a Chinese delegation which witnessed a demonstration flight by a Blériot XI. Three years later, China bought 12 Caudron aircrafts powered by Gamma engines from Gnome, one of Safran's predecessor companies. The two countries continued to work together in the following years, and Safran has built up a stronger presence in China over the past 40 years in all segments, from airplane and helicopter engines to aircraft landing and braking systems. To address the specific needs of its local partners and markets, Safran sets up different kind of partnerships, including subcontracting, co-development, co-production, joint ventures and factories. Today, Safran has 18 entities and over 2,000 people operating in China (including around 900 people at JVs and participation).

## OUR CORE MARKETS

### AEROSPACE

Safran is heavily involved in Chinese airline operations. From sales & marketing to customer support, MRO and engineering services, Safran provides broad local support to the Chinese civil aviation sector.

**More than 5,000 CFM engines in service or on order in Greater China. Over half of the fleet in Greater China is powered by CFM engines.** Furthermore, COMAC chose the new-generation LEAP engine, successor to the CFM56, to power its new C919 single-aisle

commercial jet. Safran provides also a wide range of systems and equipment for the single-aisle and widebody commercial jets operated by China's leading airlines, including engine nacelles and thrust reversers, landing gears and wiring, braking systems and aircraft condition monitoring systems (ACMS), etc. **Over 40% of China's commercial airplanes are equipped with Safran landing gears and braking systems. Most of Chinese Airlines fleets aircraft are equipped with FADEC, manufactured by**

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**1 of every 2 Chinese  
-registered helicopters  
is equipped with Safran  
engines or its licensed  
products.**

**the Safran Electronics & Defense/  
BAE Joint Venture.** Safran has worked closely with AVIC (China Aviation Industry Corporation) for some 40 years, through complete or partial production under license of the Safran's Arriel 1 and Arriel 2C helicopter engines and Safran autopilots for the Z9/H425 helicopter. Safran Helicopter Engines is co-developing the WZ16 turboshaft engine with Dong'an to power the new AC352 helicopter. **1 of every 2 Chinese-registered helicopters is equipped with Safran engines or its licensed products. Around 50 % of the Chinese helicopter fleet is equipped with Safran Electronics & Defense AP155 Autopilot manufactured under licence by AVIC.**

## A MAJOR ACTOR IN RESEARCH & DEVELOPMENT

### TRAINING

Back in 1996, Safran opened the Aero-Engine Maintenance Training Center in Guanghan (Chengdu) in partnership with CFM International, GE, China Aviation Supplies (CAS), the Civil Aviation Flying University of China (CAFUC) and the Civil Aviation Administration of China (CAAC). Over 13,000 mechanics from all over Asia have been trained in the maintenance and repair of CFM56® engines. Safran and AVIC also team up to actively develop training initiatives in both groups. In September 2011, they signed a Memorandum of Understanding (MoU) on training, extending the strategic partnership first created in 2010, which was designed to expand the scope of collaboration between the two groups to include all of their subsidiaries' business sectors.

### SUPPORTING UNIVERSITIES

Safran is involved in education and in-service training programs for engineers, reflecting its ongoing commitment to the development of the Chinese aviation industry. In 2005, Safran was the first industrial partner to join the project to create the Ecole Centrale of Beijing, part of Beihang University. Safran has also signed a partnership agreement with major French and Chinese aeronautical engineering schools to create the Sino-European Institute of Civil Aviation (SIAE) in Tianjin teaming up with the Civil Aviation Administration of China (CAAC). Safran is also one of the founding members of the SPEIT engineering school (partnership between ParisTech and Shanghai Jiaotong University) in Shanghai, created in 2013.



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