

Rome, 19 March 2009



Finmeccanica participates at SAT EXPO 2009

Finmeccanica is a leading exhibitor at SAT EXPO 2009, the international exhibition for space and advanced telecommunications, which will be held for the second year running at the new Fiera di Roma (Rome's exhibition centre) from 19 to 21 March. The Finmeccanica Group has an area at the exhibition where some of the Group's companies will show innovative products and services in sectors such as earth observation, security, telecommunications, exploration, navigation and mobile information, and intermedia.

The two joint ventures in which Finmeccanica has a stake and which created the Space Alliance with Thales will be present at the exhibition. These are Telespazio (67% Finmeccanica and 33% Thales), one of the world's biggest operators in satellite management and Earth observation, satellite navigation, and integrated communications networks, and Thales Alenia Space (67% Thales and 33% Finmeccanica), a leading company in satellite systems and at the forefront of orbiting infrastructure.

Telespazio will demonstrate its role in the Galileo programme, in which it has built one of the control centres for the satellite constellation at the Fucino space centre. The company is also playing a leading role in running the Galileo Test Range (GTR), the laboratory set up within Tecnopolo Tiburtino in Rome, which will support the development of the Galileo system, apparatus, and applications. In the Earth observation sector, Telespazio will exhibit satellite applications, based on COSMO-SkyMed radar data, in the field of the monitoring and management of natural risks. The COSMO-SkyMed system, a constellation of four satellites (the fourth due to be launched at the beginning of 2010), is controlled from Telespazio's Fucino control centre, while the data acquired by the satellites, for civilian use, is received and processed at the Matera space centre. Finally, Telespazio will demonstrate the applications developed in the field of telemedicine, e-learning, e-government, homeland security, and on-board mobile information systems for trains.

Thales Alenia Space, which has played a leading role in recent developments in the global space industry and has always had a presence in the Rome area, will bring to SAT EXPO its expertise as a leading company in satellite systems. The company will exhibit at the Rome exhibition centre, among other things, a scale model of a satellite of the Galileo constellation. The second experimental satellite in the constellation, Giove-B, launched in April 2008, was integrated and tested by Thales Alenia Space's satellite integration centre in Rome. The Company will also show its most recent projects, such as the satellites of the COSMO-SkyMed Italian Earth observation constellation, and the satellites of the SICRAL programme, used for Italian defence communications. Also, Thales Alenia Space will exhibit its work in the ExoMars European mission.

Alenia Aeronautica is Italy's main aeronautics company, which designs and builds civilian and military aircraft, unmanned aircraft, and aerostructures. Through its subsidiaries, the company also produces training aircraft and it also converts, maintains, and refurbishes civilian and military aircraft. Alenia Aeronautica will exhibit specific solutions for surveillance based on both manned and unmanned platforms. Among the former is ATR42MP, a version of the ATR42 regional transport aircraft, which is used for marine patrolling, search and rescue, natural disaster monitoring and operations, and protection of national waters. Alenia will also exhibit the unmanned platform SKY-Y,

developed as a technical demonstrator for unmanned aerial vehicles (UAVs) of the MALE (Medium Altitude, Long Endurance) class. The aim of the demonstrator is to develop technologies that can enhance the performance of aircraft, such as their range and their capacity to gather and disseminate data. Sky-Y is built entirely from composite materials, is equipped with electrical systems, and has a diesel engine, originally developed for cars, that gives it a range of up to 12 hours.

Also exhibiting at SAT EXPO will be **SELEX Galileo**, a leading company in the field of international defence electronics. SELEX Galileo produces surveillance, protection, detection, and artillery control systems, as well as electro-optical systems. In the field of space, the company develops and manufactures sensors, payloads, and equipment for the main space programmes. SELEX Galileo built the first MASER atomic space clock, a basic instrument on board all Galileo constellation satellites (the first MASER was put into orbit on board the Giove-B satellite). SELEX Galileo boasts an excellent position in the world's space market with its attitude sensors, solar generators, power and radio frequency units, and drilling and sampling systems for on-site analysis of planets, asteroids, and comets. These are in use on the Rosetta and EXOMARS missions.

SELEX Galileo will exhibit some of its sensors in use on the main ASI, ESA, and NASA missions. These include VENUS Express, METOP at Cassini, NASA's DAWN mission, which seeks to discover the origins of the universe, and the forthcoming Earth observation missions 'PRISMA', run by ASI, with a new hyperspectral payload, and the ESA's GMES Sentinel 3, which features the sea and land surface temperature radiometer. The company will also exhibit its capability in unmanned aerial vehicles (UAVs), an area in which it has more than 70 years' experience, as well as future applications in advanced Earth monitoring and observation.

In the security area of the Finmeccanica stand is **SELEX Communications**, a leading company in the supply of advanced communication, navigation, and identification systems for the protection of communities, territory, and critical infrastructure. In satellite telecommunications SELEX Communications is an international leader in the research and development, design, and manufacture of ground segment apparatus and systems – that is, the terrestrial part of satellite communications. At SAT EXPO the company will show its SOTM (Satellite On The Move) communication system. SELEX Communications' satellite solutions provide reliable long-range connectivity in the absence of terrestrial infrastructure, and therefore effectively meet the demands of defence and professional users. The company, which is involved in programmes of national and international importance, has left its mark on the Argo, Italsat, Helios, Sesnet, Globalstar, SICRAL, and MSDAS systems, and other high-tech programmes such as Armasat and COSMO-SkyMed, where SELEX Communications is playing a major role.

In the space sector, **Elsag Datamat** boasts many years' experience in fields such as on-board software, control centres, ground segments, simulation, and infrastructure for multi-mission data management. At SAT EXPO Elsag Datamat will show its COSMO-SkyMed constellation simulator, which can simulate the behaviour of the four satellites in a synchronised manner, showing each independently through the models of the various on-board sub-systems interfaced with real flight software. Elsag Datamat possesses solid experience in the field of satellite simulation and has built simulators for the main domestic and international programmes such as SAX, SICRAL1 and 1B, ATV, and Galileo.

Elsag Datamat also makes systems and products for digital terrestrial television both under its own brand name and as an OEM. At SAT EXPO the company will show its high-definition (HD) and interactive (MHP) hybrid decoder for the transmission of free and premium television content for the digital terrestrial platform, and for internet navigation, thanks to the browser that is integrated in the decoder. In the security field, Elsag Datamat will also show its SAS secure access systems, as well as its Cripto Call and De-Fence UTM communications solutions.