

## Finmeccanica onboard of the Cavour aircraft carrier

Finmeccanica, through its companies AgustaWestland, OTO Melara, Selex ES, WASS, Telespazio, Thales Alenia Space and MBDA, takes part in the Campaign promoted by the Navy Unit Cavour, en route from Italy to the Persian Gulf Countries and the African continent. The Group's range of products will be showcased in a stand set up on board and on the flight deck.

**AgustaWestland** takes part in the Gruppo Navale Cavour Campaign by leveraging on its consolidated presence in the aeronautical sector, in which Finmeccanica's helicopter company vaunts significant design and development capabilities for dedicated solutions. The Italian Navy Unit will carry the NH90 NFH and AW101 helicopters, two of AgustaWestland's range of cutting edge navy helicopters, the most advanced now available on global markets. The AW101 is a 16 ton helicopter operated by the Navy units of Italy, the United Kingdom and Japan, as well as by all search and rescue operations at sea in Canada, Denmark and Portugal. The NH90 helicopter is the result of a European-wide collaboration which has sold 529 units to numerous customers and whose Navy-dedicated version received the fundamental contribution of AgustaWestland.

**OTO Melara** presents its 127/64 Lightweight (LW) Vulcano naval gun mount featuring rapid fire capacity of up to 35 rounds a minute, a 56-round automatic reloading system using the new Vulcano long range guided munition. Vulcano ammunition is available with GPS, IMU (Inertial Measurement Unit) and IR (Infra-Red) guidance systems guaranteeing high precision at a range of over 100 km. The family of Vulcano guided ammunition was broadened over time to include 3 different calibres: 155, 127 and, more recently, 76. The most advanced naval gun system is the 76mm STRALES, a naval artillery piece comprising a 76/62 gun, DART guided ammunition and a homing system combining radio frequencies and electronics. The DART sub-calibre projectile's optimised aerodynamics reduces wind resistance and time of flight. The DART projectile is particularly effective in engaging manoeuvring missiles and small-sized and fast moving naval targets typically used in modern-day asymmetric warfare, with small and low-cost explosive boats capable of threatening the safety of costly large-sized naval units.

**Selex ES** has been leader in the naval defence sector for over 50 years, supplying and integrating radar and combat management systems. The Company has supplied sensor systems to over 100 Navy units and to more than 40 customers worldwide. More specifically, the Finmeccanica company has supplied the Italian aircraft carrier Cavour's Command and Control Centre, the ship's control centre fitted with 32 multi-function consoles to operate the Combat Management System (CMS), also developed and integrated by Selex ES. This system operates the numerous devices installed on the aircraft carrier, most of which are provided by Selex ES, such as the RASS surface search radar, the RAN 40L Long Range Early Warning Radar, the EMPAR multi-function phased array radar, the Fire Control System (FCS) and the SASS infra-red silent acquisition and surveillance system. In addition, Selex ES provides the navigation system and the integrated internal and external communications system. Finmeccanica's stand on the Cavour aircraft carrier displays a model of Selex ES's Kronos multi-functional radar and videos of the Falco tactical unmanned system and of the systems installed on board of the FREMM - European Multi Mission Frigates, one of which, the Bergamini Frigate, takes part in the Campaign.

**Finmeccanica** è il principale gruppo industriale italiano, leader nel campo delle alte tecnologie, e si posiziona tra i primi dieci gruppi al mondo nel settore dell'Aerospazio, Difesa e Sicurezza. Quotato alla Borsa di Milano (FNC IM; SIFI.MI), con ricavi pari a circa 17 miliardi di euro, oltre 68.000 dipendenti, 150 sedi operative e commerciali e 345 siti produttivi in 50 paesi del mondo, Finmeccanica è un Gruppo internazionale e multiculturale con una presenza significativa nei suoi quattro mercati domestici: Italia, Gran Bretagna, Stati Uniti e Polonia. Finmeccanica basa il suo successo sull'eccellenza tecnologica, che scaturisce da cospicui investimenti in Ricerca & Sviluppo (pari al 12% del fatturato), e sull'impegno costante teso a sviluppare e integrare le capacità, il know-how e i valori delle proprie società operative. Finmeccanica è attiva nei settori degli Elicotteri (AgustaWestland), dell'Elettronica per la Difesa e Sicurezza (Selex ES, DRS) e dell'Aeronautica (Alenia Aermacchi) – che ne rappresentano il core business – e vanta un posizionamento significativo nello Spazio (Telespazio, Thales Alenia Space), nei Sistemi di Difesa (Oto Melara, WASS, MBDA), nell'Energia (Ansaldo Energia) e nei Trasporti (Ansaldo STS, AnsaldoBreda, BredaMenarinibus).

**WASS**, a world leader in underwater surveillance systems, on board of the Cavour aircraft carrier presents its BLACK SHARK heavyweight torpedo, the lightweight A244/S Mod.3 torpedo, the C310 anti-torpedo countermeasure system for surface ships, the BLACK SNAKE sonar, the C303/S anti-torpedo countermeasure system for submarines and the V-FIDES system. The BLACK SHARK heavyweight stealth torpedo designed to be launched by submarines, surface ships or ground stations, was developed to counter the challenging threats posed by any type of surface or submarine target. The lightweight A244/S Mod.3 torpedo, the latest upgrade of the A244/S family developed to counter the threat of modern nuclear and conventional submarines, is in service with over 16 Navies around the world. A new and more powerful propulsion battery together with a new high-efficiency motor increase maximum run speed and ensure a 50% rise in the endurance of the weapon. The C310 is an anti-torpedo countermeasure system for surface ships designed to counter present and future generations of active and/or passive wire-guided or self-homing torpedoes fired in a single or multiple launch. The BLACK SNAKE is the smallest version of towable sonars and was developed to support the C310 anti-torpedo countermeasure system based on SURVIVAL, the latest, most lightweight and high-efficiency autonomous anti-torpedo system designed for any type of surface ship. The C303/S anti-torpedo countermeasure system for submarines was designed to counter active and/or passive lightweight or heavyweight sound-guided torpedoes, wire or non wire-guided, based on expendable low-cost and high-performance lightweight devices of the "Jammer" and "Mobile Target Emulator" type.

**Telespazio**, on the Cavour aircraft carrier, presents its integrated communications and geo-information systems. Telespazio operates in the fixed and mobile telecommunications sector with maritime-dedicated services and applications for emergency communications and television services. The Company also operates in the field of military satellite telecommunications (Milsatcom), especially in the SICRAL and Athena-Fidus programmes, by developing reliable ground segment systems and by operating part of the satellite capacity providing communications services to NATO Countries. On the Cavour aircraft carrier, Telespazio displays its COSMO-SkyMed radar satellite system, financed by the Italian Space Agency (ASI – Agenzia Spaziale Italiana), by the Defence Ministry and by the Ministry for Education, University and Research, MIUR. The system can operate its four-satellite constellation in any atmospheric condition, during the day and at night. Through its affiliate e-GEOS, the Company commercialises COSMO-SkyMed data, offering operation applications not only for the defence sector but also for emergency management, territorial surveillance, maritime surveillance and natural resource management. COSMO-SkyMed's principal contractor is the Thales (Thales/Finmeccanica) Alenia Space programme, for which it developed and implemented the system's ground and space segments. Telespazio is the programme's principal sub-contractor, in charge of developing civilian and military ground stations.

**MBDA**, global leader in missiles and missile systems sectors, is the only group capable of designing and producing missiles and missile systems to meet the whole range of current and future operational requirements for all armed forces. MBDA offers a range of 45 missile programmes and countermeasures are already in service and has more than 15 programmes under development. MBDA has three major shareholders, all operating in the defence and aerospace sectors: BAE Systems (37.5%), EADS (37.5%) and Finmeccanica (25%). It is the first truly integrated European defence company. On board of the Cavour aircraft carrier, MBDA will display its capabilities in naval air defence and anti-ship systems, presenting its Aspide 2000, Aster 15, Aster 30, Marte MK2/S and Teseo/Otomat missiles. MBDA will also present some models of missiles available for the Eurofighter Typhoon, including the ER (Extended Range) version of the Marte missile, as well as the Storm Shadow, Meteor and Brimstone DM (Dual Mode) missiles.