

July 25, 2023

Customized Radar Signature Management Solutions for Any Kind of Platforms

Recent and rapid developments in radar technologies, especially in the field of early warning AESA radars having longer and precise detection against low Radar Cross Section (RCS) targets, make platform invisibility more vital than ever. ASELSAN, as an internationally well-known and recognized company in radar and electronic warfare domains, offers cutting-edge and cost-effective Radar Signature Management (RSM) solutions as well as supporting the development techniques of next generation stealth designs with the expertise gained from RCS reduction development programs.

Currently, ASELSAN has been collaboratively working on the 4th, 5th and 6th generation contracted stealth aircraft programs in order to achieve indigenous very low observable (VLO) characteristics.

Based on long lasting experiences, ASELSAN, inherited unique field proven RSM solutions for ground, surface, submarine and airborne platforms using in-house developed RCS reduction simulation software (RAPID) for the optimal utilization of indigenous state-of-the-art Radar Absorbing Materials (RAM), Radar Absorbing Structures (RAS) and Frequency Selective Surfaces (FSS).

Within this scope, the company can provide high radar absorption capability for ground, airborne, submarine and naval platforms with field proven radar signature management solutions. Products are continuously improved with platform level RCS analysis, scattering center localization, mitigation and optimization by using RAPID software.

In addition to several field trials in various environmental conditions with dense electromagnetic difficulties, ASELSAN engineering processes, verification methods, infrastructures and radar absorbing materials have been benchmarked and verified by internationally recognized and renowned world class institutes. With the help of complete characterization of the whole development cycle starting from the design activities on material level, engineering teams can address the parametric requirements for RAM/RAS directly from the intended RCS reduction requirements on the platform level.

ASELSAN, with a strong historical heritage from material level to systems of system integration level, is ready to provide customized RSM products according to the specific requirements of various platform's constraints, client priorities which need to be applied a better fit with the units or platforms from the radar stealth point of view for any kind of platforms.

About ASELSAN:

As a global technology leader, we have established an organization that delivers new experiences to our users all across the world. By investing into our highly diversified human asset, we keep growing in a sustainable and inspiring fashion.

A journey began with a radio communication device today took us to more than 500 various products and solutions that changed "status quo ante" in defense and security arena. Our ambitious global expansion strategy made us embracing investment opportunities in promising markets.

With the inspiration of our clients in more than 80 countries, we start every new day with new ideas and dreams that encourages us to challenge technology boundaries. Striving for a better planet is our endless motivation.

Note: For more information regarding the products please visit our booth at the IDEF 2023.

MEDIA CONTACTS:

Esra DOGU, esradogu@aselsan.com.tr

Evrin Aysen ATAKAN, eaatakan@aselsan.com.tr