



ARABEL

Fire Control System for
Medium Range Air Defence

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Description

New Medium Range Air Defence Systems are essential for future Air Defence as an answer to future threats such as air breathing missiles and TBMs, and for missions consisting in protection of troops & convoys on the battlefield, on national or external theatres, and protection of vital assets.

To address the most demanding requirements, Thales Air Defence has developed the ARABEL Fire Control System (FCS), core of the ground-based 'SAMP/T' Medium Range Air Defence System, in the framework of the FSAF programme conducted by EUROSAM.

The ARABEL FCS is composed of the ARABEL Multi-function Radar IFF, the power generation module and the Engagement and Command & Control module. Integrated with up to 6 vertical launcher modules, it provides unique operational capabilities against all current and future air breathing threats. Integrated in an ATBM defence architecture (including an early warning radar and a C3I), it ensures local area defence against TBM threats.

SAMP/T is developed for the French and Italian Forces to replace the HAWK System. The ARABEL FCS has been field validated by the French and Italian Forces, and is under production.

Features

HIGH FIREPOWER AND ENGAGEMENT CAPABILITY

- Omni-directional capability
- 6s reaction time from detection confirmation to missile departure
- Control up to 48 ready to fire missiles 6 launchers

INTEROPERABILITY

- Fully inter-operable with C3I network through ATDL1, L16, L11B3

STRATEGIC AND TACTICAL

MOBILITY – REDUCED MANPOWER

- Transportability : C160 – C130, roads (10 ton class trucks), railways and sea
- Operable by 2 operators when deployed

HIGH SURVIVABILITY

- Design features and specific techniques give ARABEL FCS its excellent ECCM capabilities

Specification

Surveillance & Detection

- X (I/J) phased-array Multi-function Radar
- 360° azimuth and -5° to + 90° elevation coverage
- Detection range : up to 80 km (local tracks)
- High ECCM performances (narrow beamwidth, frequency agility, EMCON, side lobe blanking, etc.)
- Self-adaptable radar features to environment: automatic mapping of clutter, bad weather and ECM sources

Engagement Capability

- 3D tracking of more than 130 targets
- Omni-directional ATBM acquisition from external cueing
- Simultaneous ATBM and omni-directional conventional threat engagement capability
- Multi-target engagement

Designed for Severe Environments

- Operating temperature : -31°C to 49°C, Tempest, NBC protection

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