BOL COUNTERMEASURES DISPENSER WITH SUPERIOR ENDURANCE
The advantages of affordable and reliable physical off-board decoys have made chaff and flares a fundamental component of an effective aircraft integrated self-defence suite, helping pilots to fulfil mission goals and return safely to base.

The effectiveness of covert infrared decoys has been much improved thanks to the development of new IR materials and methods of tactical deployment. Break-lock from hostile tracking radars can be further facilitated by synchronizing chaff dispensing with aircraft manoeuvres and the use of jammers.

**HIGH CAPACITY AND RAPID DISPERSION**

The ingenious design of BOL has revolutionized dispensing of chaff and IR payloads. An elongated shape houses a long stack of payload packs. An electromechanical drive mechanism feeds the packs towards the aft of the dispenser where one pack at a time is separated from the stack and released into the airstream. The release mechanism forces initial dispersion of the payload (chaff or IR), which is then enhanced by the vortex fields behind the aircraft.

For aircraft lacking internal installation options, the dispenser can be supplied in a special housing to allow conformal mounting at suitable hard points, for example on the fuselage, pylons or wings. The low added drag makes this version suitable for fighters as well as transport aircraft and bombers.

**EASY TO INSTALL**

BOL offers numerous installation alternatives for new aircraft and for retrofit. The elongated shape of BOL lends itself to installation in elongated cavities in aircraft structure, missile launchers and pylons. Installation has been achieved without interfering with weapon load or flight performance.

BOL systems are thus usually mounted in a symmetrical twin or quadruple configuration on the wings.

BOL’s high payload-to-volume ratio, non-pyrotechnical release mechanism and effective dispersion gives the dispenser superior performance for both chaff and IR payloads.

The introduction of BOL will free-up all the original pyrotechnical dispensers for spot flares, thus as a minimum doubling the capacity of this payload.

**SEVERAL DISPENSER CONTROL OPTIONS**

The BOL interface includes MIL-STD-1553B or EIA-485 as well as 28 VDC discrete signals. Information sent over the data links include dispense commands, status and BIT information. The 28 VDC signals may be used for discrete dispense signals or as safety signals. A RS-232 data link is available for maintenance purposes.

BOL has been integrated with EW/Countermeasure controllers from several suppliers e.g. ALE-47 and the Saab IDAS/CIDAS self-protection system.

**ENSURING MISSION SUCCESS**

BOL IR.

BOL Chaff.
TECHNICAL DATA

Weight empty
- Conformal dispenser: 15.9 kg
- Dispenser only: 11.9 kg
- Internal dispenser: 9.0 kg

Payload weight
- Up to 9 kg depending on type

Payload capacity
- Up to 160 packs

Reloading time
- Less than 1 min

Control signals
- EIA-485 serial data link or MIL-1553B data bus.
- Up to three +28 V discrete signals.

Power supply
- 115 V, 400 Hz single phase

ACCESSORIES

The BOL Acceptance Test Station tests all functions of BOL dispensers.

The BOL loader speeds up the loading process as well as making it easy and safe to load in cold and/or BC environment.

MLV, Maintenance Loader Verifier, is a handheld device for Saab's dispenser products. Loads software and dispensing parameters, reads BIT-log, performs maintenance tasks.

BOLSIM is a simulator to be used in laboratory environments for system integration and advanced training.

REFERENCES

BOL is in use in the UK, the USA, Sweden, Australia, Finland etc on F-15 Eagle, Tornado ADV, F/A-18A/B/C/D, Gripen and in Europe on all EF-2000 Typhoon.

A joint cooperation by Saab (Sweden), BAE Systems (USA) and Chemring Countermeasures (UK) is formed to pursue worldwide opportunities for this innovative and unique dispenser system.

Specifications subject to change without notice.

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