



BOP-L SMART AND LIGHTWEIGHT COUNTERMEASURES DISPENSER

BOP-L is the new range of light-weight, intelligent and high performance countermeasure dispensers, specifically designed for helicopters, where weight and space must be considered, and for transport aircraft.

Extended experience in EW and Countermeasures Dispenser design and manufacture, together with our aircraft design and manufacture capabilities, enable Saab to provide yet another innovative, safe and reliable dispenser. BOP-L offers smart dispensing techniques.

The BOP-L family of advanced countermeasures dispensers offers superior system integration and levels of protection for helicopters and transport aircraft.

Flexible configuration, low weight in conjunction with high performance makes BOP-L the preferred choice in new and retrofit installations.

Design patent pending.

BOP-L Dispenser System Description

The BOP-L dispensers are controlled via a fully integrated Chaff and Flare Dispenser Controller PCB that resides in an Electronic Warfare Controller (EWC). This allows for automatic dispensing under the control of the EWC upon threat identification. Semi-automatic and manual firing capability is also provided.

User-defined dispensing techniques are selected by the EWC per identified threat. The dispensing techniques can be defined in the Threat Library for the EWC and uploaded to the system on the flight-line.

System Functional Description

Automatic, Semi-Automatic, Manual, Standby or Back-Up modes are selected via the Control Panel.

Safety interlock signals must be provided to the EWC and the dispensers to enable dispensing. The status of the safety interlocks are continuously monitored by the system.

Optimal dispense programs are selected, initiated and controlled by the EWC in Automatic mode.

Once a dispensing program has been selected, the EWC calculates the most suitable dispenser (based on aircraft dynamics and threat direction) to perform the dispense sequence.

Dispense parameters are sent to the dispenser and activated by a discrete dispense signal.

The jettison of all payloads is possible in all modes of operation under emergency conditions.



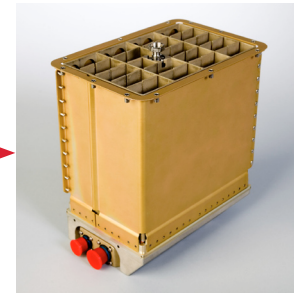
CONTROL PANEL
- Mode and programme ordering



SAFETY SIGNALS
- Safety pin
- MASS, WOW etc.



ELECTRONIC WARFARE CONTROLLER
- Control management
- System interface
- DAC interface via CFDC
- Dispenser management



Up to 32 dispensers via CFDC in EWC

BOP-L DISPENSER
- Houses electronics/ power supply
- Control, BIT, safety
- Misfire compensation
- Smart cartridge interface
- 16 payload types

BOP-L FAMILY

- BOP-L 23 with a capacity of 23 1"x1" or 11 1"x2" payloads.
- BOP-L 29 with a capacity of 29 1"x1" or 14 1"x2" payloads.
- BOP-L 31 with a capacity of 31 1"x1" or 15 1"x2" payloads.
- BOP-L 39 with a capacity of 39 1"x1" or 19 1"x2" payloads.

KEY FEATURES

- Numerous safety features inherent in design (functional and personal safety).
- Modular and compact design.
- Flight-Line programmable dispensing sequences.
- Low weight.
- Fully integrated with EW Controller.
- Quick reloading of dispensers by unique built-in locking mechanism.
- Payload misfire detection and compensation.
- Programmable Back-up mode in the event of system degradation.
- Intelligent payload and magazine identification.
- Easy installation and removal.



Specifications subject to change without notice