



# Spring Clamp Products

## Instructions For Use

- *This product is to be used by authorised industry trained personnel only.*
- *The use of this product must adhere to appropriate work practises and or industry standards ensuring compliance to all Workplace Health and Safety Regulations.*
- *This product may only be installed onto an asset when the asset owner has approved of such installation.*
- *Failure to follow appropriate work practices and operational instructions or modifications to this equipment can result in product damage and or serious injury.*
- *These instructions are to be read in conjunction with the Balmoral Engineering terms and conditions published on our website.*

### BIRDFLAPPA™



### LINEZEBRA



### FLAGMARKA



## 1. General Spacing Recommendations

- 1) **BIRDFLAPPA™** and **LINEZEBRA** are recommended to space 15ft to 30ft or 5meters to 10metres apart. \*
- 2) The recommended space of **FLAGMARKA** is 30ft to 50ft or 10 meters to 15 metres apart. \*
- 3) Minimum of 1-2 Markers per span. \*

*\*May vary depending on environmental conditions, plus any particular application and engineering considerations.*

## 2. Installation Options

The **BIRDFLAPPA™**, **LINEZEBRA** and **FLAGMARKA** products can be installed in a variety of ways:

Install by hand	Install with the Balmoral standard install tool (LLCR-S*) on a Telescopic Stick
Install with the Balmoral quick release tool (LLCR-K**) on a Telescopic Stick	Install by drone using special drone attachment*** (Coming Soon)

*All installation options are suitable for both BIRDFLAPPA™, LINEZEBRA and FLAGMARKA products.*

*\* Speciality tools recommended for installation options pictured refer to LLCR-S Spring Clamp Product Screw Install Tool instructions.*

*\*\* Speciality tools recommended for installation options refer to LLCR-K Spring Clamp Product Quick Release Tool instructions.*

*\*\*\* More information please contact with Drone supplier and Balmoral to check the attachment solutions.*

*\*\*\*\* Installation also possible via Shotgun Stick, please inquire for further details.*

### 3. In-Service Care

It is recommended that the BIRDFLAPPA™, LINEZEBRA and FLAGMARKA Spring Clamp Products should be cared for in the following manner:

#### Storage:

- Store BIRDFLAPPA™, LINEZEBRA and FLAGMARKA products in the original packaging before installing to provide suitable protection of the products.
- Ensure the trigger of the Spring Clamp is not bent or deformed which may affect the installation process.
- Store all products in a stable, room temperature environment, away from sharp objects, direct sunlight, ozone, and steam.
- Ensure the products are kept away from oil-based products and hydrocarbon derivatives.
- It is advisable to use appropriate storage devices that maintain these conditions.

#### Use:

- Before each use, visually inspect all BIRDFLAPPA™, LINEZEBRA and FLAGMARKA products for any signs of defects.
- Any product showing signs of damage or defect should be removed from service immediately.

#### Periodic Visual Inspection and Care:

- Where practical, all BIRDFLAPPA™, LINEZEBRA and FLAGMARKA products should undergo periodic inspection and cleaning to prolong service life.
- To assist with visual inspection, ensure materials are:
  - Cleaned to remove dirt and grime that could obscure defects.
  - We recommend using a mild detergent or Polywater® Rubber Goods Cleaner.
  - Remove any defective products from service.

#### Inspection Checklist:

- Inspect for defects such as cracks, loose components, or missing parts.
- Check the following:
  - The whole device is free from cracks or distortion and in good operational condition.
  - Soft jaws are intact.
  - Clamps open and close smoothly.
  - The trigger should be carefully repositioned by the operator before installing if it is deformed.
  - Reflectors are securely attached to the Flappers of BIRDFLAPPA™, Streamers of LINEZEBRA and Flags of FLAGMARKA.
  - Metal components are free from rust, distortion, or chemical damage.
  - The Flappers, Streamers and Flags swing freely.



**For more product information please visit our website:** [www.balmoralengineering.com](http://www.balmoralengineering.com)

**For video instructions and instillation demonstration:** <https://www.youtube.com/shorts/SurHmCG6qrE>