

Spring Clamp Products

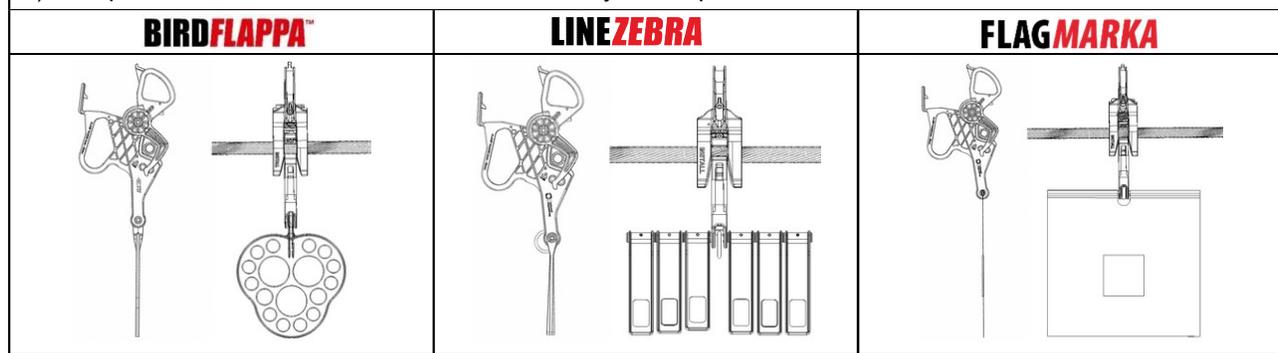
Instructions For Use

CAUTION:

- 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.

1. General Spacing and Orientation Recommendations

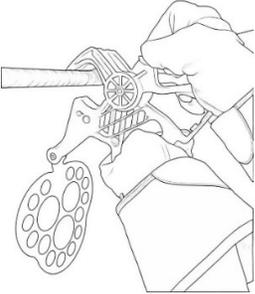
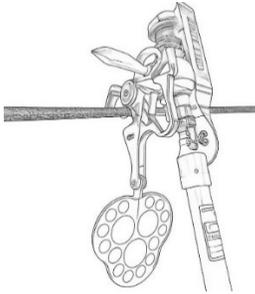
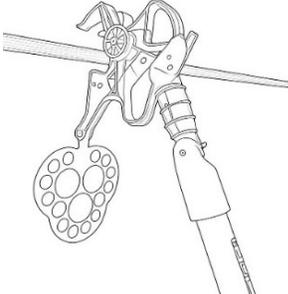
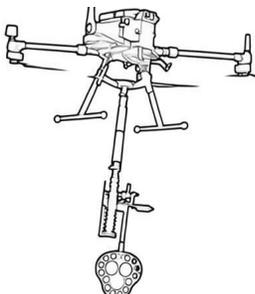
- 1) **BIRDFLAPPA™** and **LINEZEBRA** are recommended to space 15ft to 30ft or 5meters to 10metres apart. *
- 2) The recommended space of **FLAGMARKA** is 30ft to 50ft or 10 meters to 15 metres apart. *
- 3) Minimum of 1-2 Markers per span. *
- 4) The products are recommended to install vertically on the powerline. The final orientation shown below:



* May vary depending on environmental conditions and engineering considerations.

2. Installation Options

All **BIRDFLAPPA™**, **LINEZEBRA** and **FLAGMARKA** products can be installed and uninstalled in below ways:

Install and uninstall by hand	Install and uninstall with the Balmoral standard tool (LLCR-S*) on a Telescopic Stick
  <p>Scan the QR code Or Click here to watch video</p>	  <p>Scan the QR code Or Click here to watch video</p>
Install with the Balmoral quick release tool (LLCR-K**) on a Telescopic Stick	Install by drone ***
  <p>Scan the QR code Or Click here to watch video</p>	

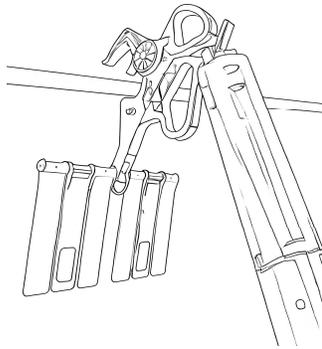
All installation options are suitable for both **BIRDFLAPPA™**, **LINEZEBRA** and **FLAGMARKA** products.

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

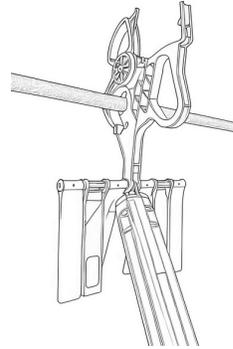
** Speciality tools recommended for installation options refer to LLCR-K Spring Clamp Product Quick Release Tool instructions.

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

The **LINEZEBRA** product can also be installed and uninstalled by using a standard Shotgun Stick****



Shotgun install



Shotgun uninstall



Scan the QR code
Or
Click here to watch video

**** Shotgun stick is also available for the BIRDFLAPPA™ and FLAGMARKA special version products, please contact with Balmoral to check.

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