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Introduction to Primetake

- Founded in 1991 as a manufacturer of 12G Bird Scaring Cartridges
- Based near the city of Lincoln, Lincolnshire in the United Kingdom
- Purpose built, flexible facility with the capability to Design, Develop,
 Manufacture & Test products
- Certified to ISO 9001, ISO 14001 & ISO 45001
- Currently manufacture circa 500,000 Bird Scaring Cartridges per year



Primetake - Bird Scaring Cartridges (BSC)

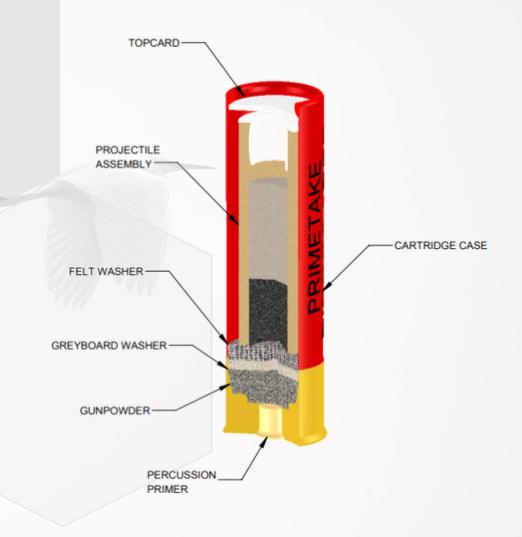
- Primetake Ltd currently supply 8 different types of 12 Gauge BSC
- In service worldwide with both Military and Civilian airports
- Also supply BSC pistols alongside training courses on all Primetake Ltd BSC Products





What is a Bird Scaring Cartridge (BSC)?

- 12 Gauge based Pyrotechnic, fired from a BSC Pistol or 12 Gauge firing platform
- Designed to be used in Aerodromes to produce various effects (stimuli)
- Product Performance Range Capability to produce a range to detonation up to 120 metres, delay time up to 4.0 seconds and a decibel level up to 150dB
- Cost effective method





Why Use a Bird Scaring Cartridge?

- BSC give users the capability to engage and disperse birds in a variety of ways:
 - Height
 - Distance
 - Type of Sound
 - Speed / Regularity of deployment
- The variability in effects helps reduce the possibility of habituation
- "Habituation is a simple form of learning, in which an animal, after a period of exposure to a singular stimulus, stops responding" (CAP 772)

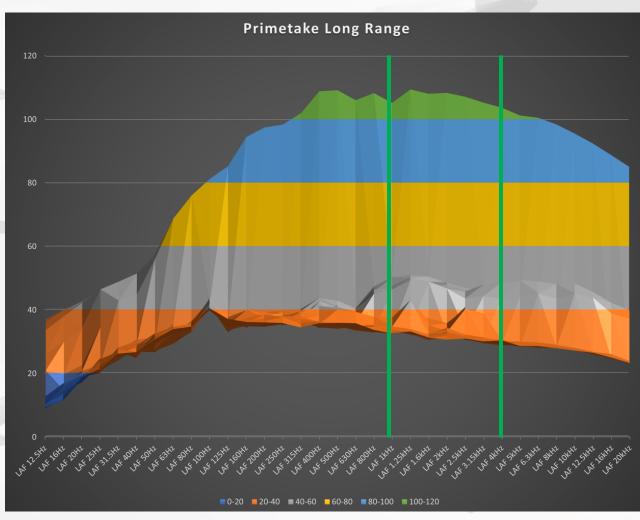


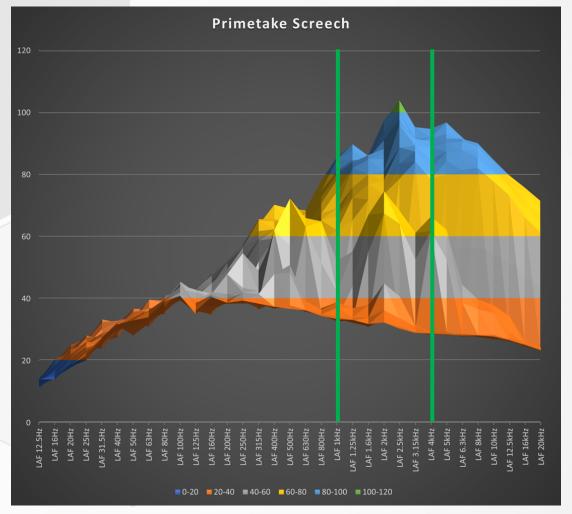
How effective are Bird Scaring Cartridges?

- BSC deliver different types of effects (stimuli)
 - Light Green trace throughout its flight
 - "Trials have shown that green lasers may be a useful bird dispersal tool in bird control operations" (CAP 772)
 - Sound In flight (Screech)
 - Sound at initiation and detonation
- Common birds have a sensitive hearing frequency range between 1khz and 4khz.



Bird Scaring Cartridge – Frequency Range





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Customer Engagement & Feedback

- Positive Feedback received:
 - Good variety of products
 - Consistency
 - Effective
 - Good Technical support

- Ideas for improvement:
 - Environmentally Friendly / reduced FOD
 - Further variability
 - Different cartridge case colour
 - Increased shotgun compatibility



Product Range Enhancement

- Make the product range more Environmentally Friendly and reduce FOD
- Provide more technical information to aid users in selecting the most suitable BSC
- Introduce a new product (following customer feedback)
- Enhance the Shotgun range to match the versatility of our Pistol Range





Improved Product Range

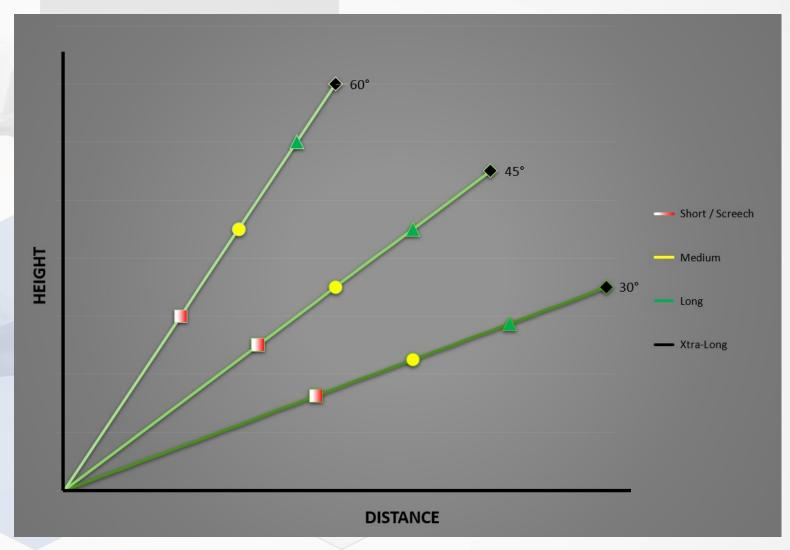
- 5 Products to be available in both Pistol and Shotgun compatible variants –
 - Short 40 to 60 metre average range
 - Medium 60 to 80 metre average range
 - Long 80 to 100 metre average range
 - Extra Long 100 metre + average range
 - Screech/Bang 40 to 60 metre average range (New Product)
- Bio-degradable Projectile
- Reduced FOD current plastic cap replaced by a bio-degradable alternative





Improved Technical Information

- Technical data provided will allow users to select a cartridge to scare a bird flying at a specific height and distance – and know the desired angle of fire to achieve this
- Supply sound level and frequency data for each product





New Product Introduction - Screech/Bang

- Replaces current Screech product
- Providing improvements such as reduced
 FOD and a detonation at the end of its flight
- Fully biodegradable projectile
- Available in both Pistol and Shotgun variants





New Product Introduction - Screech/Bang



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Shotgun Range Enhancement

- All 5 product types to be available in Pistol and Shotgun compatible variants
- Gives users more flexibility
- Assists with challenges some users face with firearms licensing
- Deployment advantage increase speed and variability





Shotgun Range Enhancement





New Product Range Availability

- Samples Q1 2023
- Production Q2 2023
- Bird Scaring Pistols available
- Training Courses available
- Contact- Sales@Primetake.com

