

Robop



Introducing  
the smart-way to  
control pest birds  
on farms

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Robop truly represents the dawn of a new era in the control of pest birds.

No longer is poisoning or shooting birds necessary nor letting off noisy gas guns.



The result of a lifetime spent in the country observing the behaviour of birds, combined with a lifetime spent developing state of the art electronic products. A blend of bird psychology and robotics in a practical product designed for long life and easy installation and low maintenance.

Robop is the humane practical and aesthetic solution you have been searching for.

Deploying Robop is the smart-way, the intelligent choice for bird control.

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## Five Reasons why you should consider Robop for all year round use on your farm

1. harvest more of what you plant
2. reduce the risk of disease in cattle and pig units
3. stop complaints about noise from gas guns
- 4 cut the time spent on bird control
5. protect silage bales and other assets from loss or damage



The Robop trailer system now in its 3rd major revision is extremely versatile any easy to use. It can be towed behind any vehicle from quad bike to tractor. Its wide wheelbase ensures that it is compatible with crop tramlines. When in position it can be erected in under one minute. This places Robop on top of a pole 21 feet above ground making it visible over a wide area. Birds approaching on their normal flight line will veer off away from the plantings you wish to protect. Farmers have reported not a single lost plant from the field they are protecting. After the critical period where plantings are most vulnerable, move Robop to the next crop or down to the cattle courts. In this way you get all year round use. As a capital investment you can right it off over many years. Running costs are practically zero so there is no impact on your working capital.

On farm trials Robop has been used to protect spring sowing of cereal crops, vegetables such as peas and brassica and laid cereals prior to harvest. Robop has also been used successfully in keeping corvids out of cattle courts reducing food loss and eliminating the risk of disease spread by birds. Farmers often have to work hard to stop silage bales rotting due to birds pecking holes in the plastic and allowing rain to penetrate. This can be eliminated by placing Robop on guard over the bales as proven by one Northumberland farmer. Come the autumn cereal and oilseed rape sowings can be protected and as the year progresses over winter damage to vegetables can be eliminated. Meanwhile over on the free range pig production unit Robop can be keeping corvids and gulls at bay, again eliminating the risk of disease. So, Robop is your all year round ally in the battle against birds that nibbling away at your livelihood.

## Theory of Operation

### Statistics

Relative percentages for birds killed by Peregrine Falcons based on a ten year study.

pigeons	39%
gulls	17%
waders	16%
duck	8%
game	5%
corvids	5%
passerines	5%
others	5%

Robop is designed to be an extremely effective method of moving pigeons and gulls because it utilises the birds inherent fear of falco Peregrinus, the Peregrine Falcon.

Peregrine falcons feed on a wide variety of birds. More than two hundred species are known to have been killed. Birds are normally killed while in flight but may also be attacked on the ground. A falcon kills by descending on the target bird at great speed. This is called a stoop.

During a stoop the falcon achieves a speed in excess of 100 miles per hour. Attacks occur with such speed and surprise that birds go on full alert as soon as a peregrine is spotted. Many species, such as seagulls have a specific alarm call to alert their fellows who will tend to flock together and fly off.

Typically birds do not hang around pondering whether the falcon is likely to attack or not, preferring to play safe and leave the area.

Since attacks usually come from above the strongest reaction occurs when the peregrine is seen overhead but birds will still be in a state of heightened alert even when this is not the case.

Robop has been designed to look, move and sound like a real peregrine falcon in order to cause the same reaction as the real bird.

Our objective is to firstly cause a panic reaction so that the pest birds will fly away. Secondly, we want to convey to birds that a peregrine falcon has taken up residence in their territory, so there is no point in returning.

Extensive tests in a wide variety of situations has proved conclusively that birds react to Robop exactly as they would when faced with a real peregrine falcon.

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## The Robotic Bird of Prey

Robop has been designed from the outset to look, move and sound like a real peregrine falcon.

The wings flap, the head moves from side to side and the whole body is designed to rock gently on its feet. When mounted on the standard base it is also capable of turning through 360 degrees, allowing the bird to head into the wind, again exactly like a real falcon would do.

While the rocking and rotating movements are purely mechanical, movement of the wings and head is controlled servos driven by the microprocessor control system.

Random sequences of wing and head movements have been programmed in, so that to

any observing pest bird robop's movements will appear totally natural.

Robop also sounds like a peregrine. To achieve this a real peregrine call has been digitised and stored within the bird.

Again Robop's call is under software control with the frequency and intensity of the call programmed into a random sequence.

In order to ensure a long operating life with the minimum of maintenance, the bird turns on and off automatically at dawn and dusk.

Sensors also detect abnormal loads on the wings caused by heavy snow or high winds and ensures Robop shuts down automatically.



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## The Solution you've been looking for



The vast majority of farmers we speak to are rather fond of birds and are not in favour of harming them or annoying their neighbours by blasting off gas guns. However, birds can cause terrific damage to crops and are known to spread disease in cattle courts and pig units.

Regrettably however, until Robop there was no other proven method of controlling birds that didn't involve loud bangs and a lot of manpower.



After an intense period of development the Robop trailer based system is now ready to go to work for you.

Robop has been extensively tested in the field and used by farms both in the U.K. and in Denmark. In addition Robop is in daily use in major cities throughout the world such as Edinburgh, London, Sydney, Vancouver, Hong Kong and New York.

The first production version of Robop was shipped in June 2002 and since then the product has gone through a process of continuous development and improvement to ensure Robop is not just a great idea but a great product.

*Robop is a UK Registered Design, designed and built in Scotland and protected by patents.*

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