

Robop



Introducing  
the smart-way to  
control pest birds

Version 2.1 July2005

# Robop

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.

# Robop



## Who uses Robop and why?

Robop is generally used for one of three reasons -

1. to eliminate mess which is accumulating and causing problems such as blocked gutters, damage to paintwork and fouling of products awaiting shipment
2. to stop attacks by gulls on school children, employees, maintenance staff and members of the public
3. to reduce production losses or the risk of disease in farms, grain stores, healthcare, food production and distribution

Birds cause a truly foul and disgusting mess on buildings. Moreover, where birds such as gulls start to defend their territory during the nesting season, they can be positively dangerous. Indeed, gulls have been known to peck through a workman's hard hat. Progressive companies and organisations don't want a foul smelling mess on their premises nor do they want customers, employees or the general public inconvenienced by bird droppings. While in the past there was little that could be done, this is no longer the case since Robop has proven time and again to significantly reduce and in most cases totally eliminate bird problems.

Customers include, shopping centres, oil and gas companies, local authorities, schools, car dealerships, financial services, aerospace and healthcare companies. There are reference customers in practically every sector, so call us if you require details.

In addition to the standard Robop designed for mounting on buildings we now have the new Robop trailer system complete with pneumatic pole. This is extremely versatile and easy to use on open sites such as garage forecourts or warehouse complexes where roof access is difficult.. It can be towed behind any vehicle from quad bike to tractor. 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.

# Robop

## 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 one hundred species are known to have been killed in the U.K. alone. Birds are normally killed while in flight. 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 gulls 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 them that a peregrine falcon has taken up residence in their territory, so it is unsafe to return.

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.

# Robop

## 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 are controlled by servos driven by the microprocessor control system.

Random sequences of wing and head movements have been pro-

grammed 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.

# Robop



## The Solution you've been looking for

The vast majority of people we speak to are rather fond of birds and are not in favour of harming them or defacing their property with wires, spikes and nets. However, birds can cause considerable damage to buildings are known to spread disease and of course are a considerable annoyance to employees.

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 Robop is now ready to go to work for you.

Robop has been extensively tested in the field and used by companies both in the U.K. and overseas. Indeed, Robop is in daily use in major cities 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.*

For more information visit our web site at [www.robop.co.uk](http://www.robop.co.uk) or to arrange a demonstration e-mail: [avril.anderson@robop.co.uk](mailto:avril.anderson@robop.co.uk) or call 01875 619 991  
Robop Limited. Peregrine House, 14b Haddington Road, Tranent, East Lothian EH33 1HW  
United Kingdom