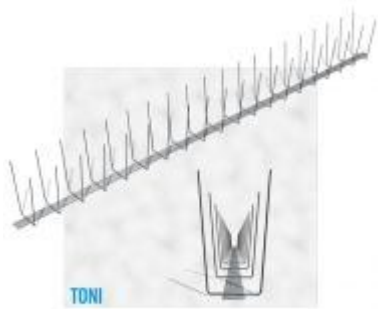


# TONI

## Bird Control Solutions



Specializing  
in pigeon and bird control

# WHY KEEP PIGEONS OFF BUILDINGS?

A pigeon produces up to 12 kg of droppings per year, which contaminates facades and monuments. Pigeon droppings are an ideal breeding ground for mold fungus. The fungus produces acids which can dissolve calcareous stone.

In the fine cavities dissolved in the stone, water freezes, leading to severe damage over time.



Pigeons also peck into limestone to meet their mineral needs. The resulting holes can be up to 20cm deep.

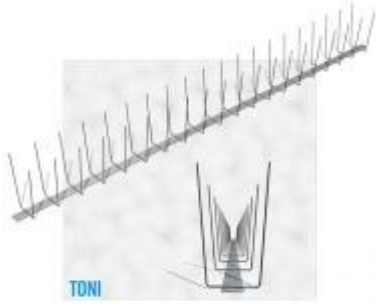
Pigeons carry diseases (salmonellosis, paratyphoid or ornithosis) and parasites (ticks, mites, fleas) that can infect humans.



pigeon droppings

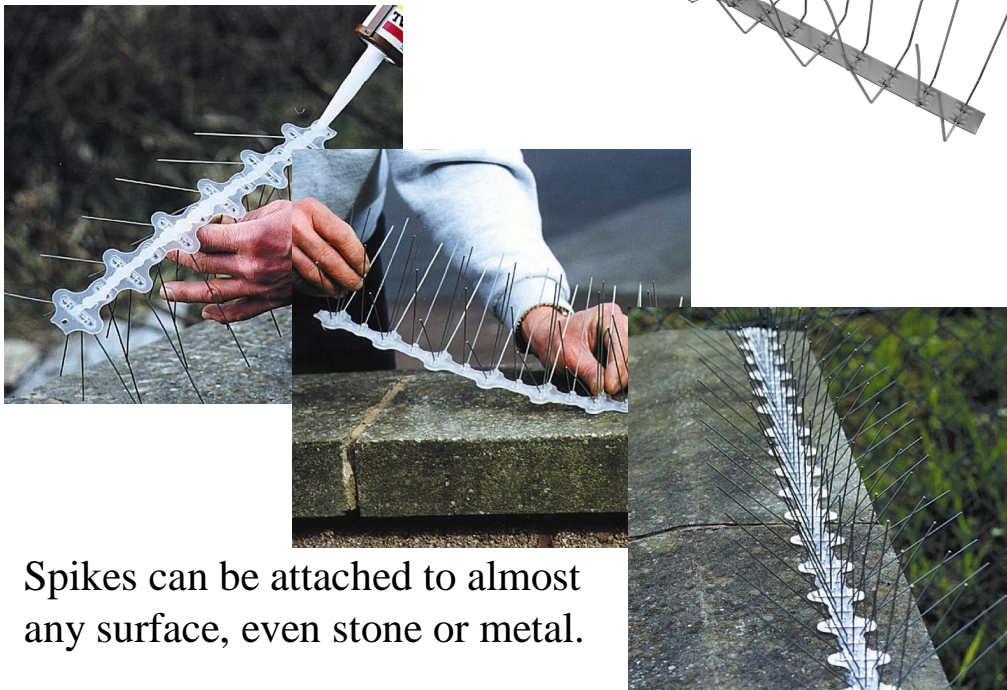
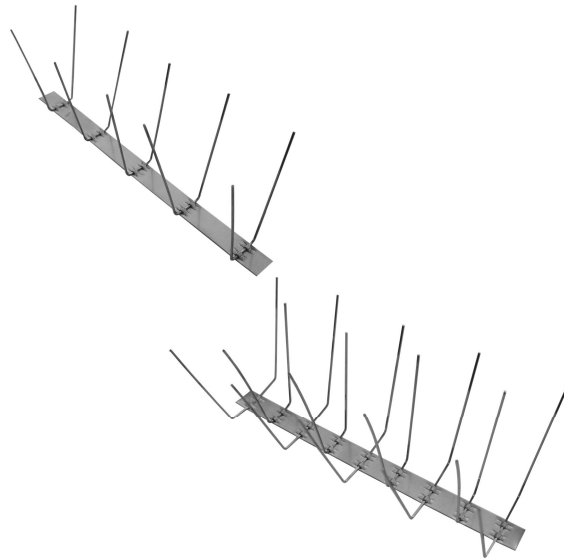
# BIRD CONTROL WITH SPIKES

Spikes are high quality stainless steel metal barbs that deter pigeons, but do not injure them.



Spikes are flexible and can be adapted for any application. By using glue as an adhesive, damage to the building is prevented.

Spikes come in two versions: stainless steel and polycarbonate. Stainless steel spikes are highly recommended, owing to their durability.



Spikes can be attached to almost any surface, even stone or metal.

# BIRD CONTROL WITH NETTING

The netting of buildings provides secure protection against the approach of birds.

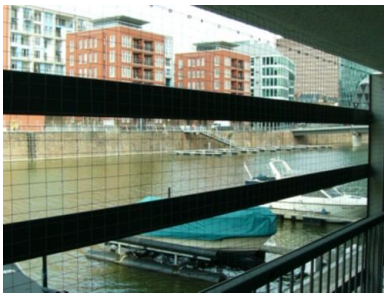


Bird nets can be installed (almost) anywhere. Fastening with adhesive prevents the need to drill holes into the façade.

We use only UV- and moisture-resistant nets which are also flame-retardant to the B1 standard.



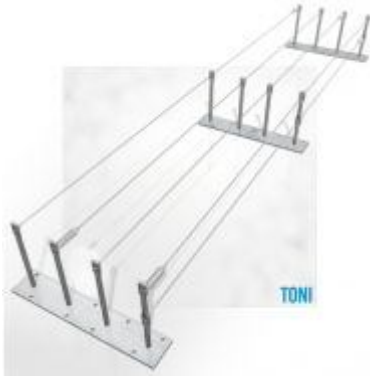
Nets come in a variety of colors; they can be matched to any façade.



Nets with stainless steel supports are more stable and last longer.



# BIRD CONTROL WITH WIRE SYSTEMS



Wire systems span across parapets and eaves. Pigeons and other birds cannot land on the thin wires, so they are dispersed without injury.



- Pins are drilled at ca. 1.5m apart along the facade.
- The wire is held taut by springs, which are attached to the pins.



- Wire systems are unobtrusive, effective, and above all, safe.
- The only drawbacks of the system arise from gradual loss in wire tension, and the necessity to drill holes in the facade.

# BIRD CONTROL WITH ELECTRICAL SYSTEMS



In electrical systems, pigeons receive an unpleasant shock, but are not hurt.

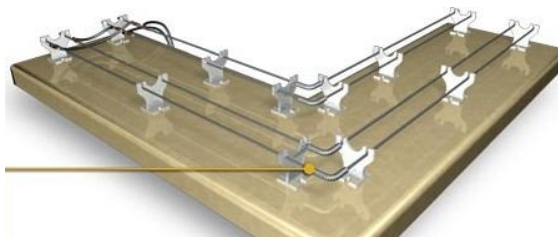
Electrical systems are glued along edges. They consist of a power source and two separated conducting wires.

Electric systems are available as profile and as pole-based systems

Profile electrical systems are better protected against short circuits.



Considering installation costs, electrical systems are best suited to installations of over 50m.



## **Electrical systems are:**

- valuable: best conductivity up to 30,000 m
- inconspicuous: just 15mm high and 25mm wide
- effective and safe: strongly deterrent, but not dangerous

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# ACOUSTIC SOLUTIONS

Several bird deterrent systems take advantage of birds' reaction to auditory stimuli:



Audible bird repelling devices mimic attack cries of raptors, and the cries of their prey. This imitates an immediate danger.



Acoustic devices are often employed in agriculture or marinas.



Timers and motion detectors have begun to make these devices useful in protection of buildings.



Acoustic pressure devices work with ultrasound, which is released continuously. The noise level disperses birds at low population densities. Professional systems also use infrasound.

# VISUAL SOLUTIONS

Because birds are highly visual creatures, visual deterrents are particularly effective. Recent research has shown that birds can see light with a wavelength of 430 - 680nm. This is used in several optical devices for bird control:



The portable laser OP 1.0 is completely harmless to humans and birds. When birds see the laser, they flee. There are also automatic laser systems for large halls and airports.

The "Eagle Eye" is a rotating mirror that reflects sunlight down to prevent flying birds settling on areas beneath the mirror. A specific spectrum of sunlight including infrared and ultraviolet radiation is reflected back.



Bird-Free is a plastic-based emulsion of fats and oils (peppermint and cinnamon) that irritates birds' senses of scent and sight. It comes in pre-filled dishes and can last up to 5 years.



# DECOYS



Raptor decoys mimic natural predators and increase the perceived predation pressure in an affected area.

Raptor decoys are available as “passive” decoys, for hanging or placing, and as "active" decoys – flying robots and bird decoys with controllable movements.

**Scarecrow Kite set:** Raptors always attack from from above, which is why our Scarecrow Kite is so effective. It is attached to a rod and floats permanently at 8m height (starter set). The set is suitable as a complement to traditional decoys.



The decoy **Robop** is a semi-automatic raptor decoy, which automatically moves its wings and head while playing raptor calls. In tests gulls have even attacked the Robop, which speaks for its high efficacy.

# SPECIAL SOLUTIONS



**Bird cages** are man-sized pigeon lofts, which are set up specifically to attract the pigeons. They are used when a reasonable number of birds colonized the area in question.

**Pigeon houses** are used to limit pigeon populations in large areas. Pigeons are attracted and encouraged to breed inside. By replacing the eggs with plaster models, the population is managed in the long term.



**Predator settlement** reintroduces natural enemy pressure in a certain area. The raptors (usually falcons) are introduced as juveniles and managed thereafter. This provides a constant predation pressure to local birds.

## SERVICE:

Installation, maintenance, cleaning, disinfection, sales, consultation

### Installation Service

Our staff are certified pest exterminators and experienced in the installation of bird control systems.. To do these, we must get “high up.” Nonetheless, our industrial climbers handle it in almost no time at all!



Long-term maintenance contracts ensure the success of any measures.



### Sales

All systems are available on request either from us or by self-installation.

### Guano Removal and Disinfection

We offer cleaning services, the identification and control of bird parasites and pests, as well as disinfection.

### Advice and Planning

We support architects and planners in selecting appropriate bird control measures.

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# SPECIAL SOLUTIONS FOR BRIDGE STRUCTURES

The protection of bridges from bird droppings is not an easy task, and requires much know-how and expertise. Not only the installation of different protection systems, but also cleaning and disinfection, make enormous demands on workers.



**Glued Nets:** PE nets are affixed directly to the structure with the help of plastic holders.

**Stainless Steel Nets:** fastened with cable frame technology.

**Polycarbonate plates:** protect abutments and pylons against bird incursions.

**Gratings:** different gratings of GFK, stainless steel, or perforated plates are used to secure stable abutments and pier heads.

**Metal mesh** these are the most expensive, but also highest quality and most effective solution.

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# BIRD PROTECTION

Every year more than 100 million birds are killed worldwide by large glass surfaces found on office buildings, the walls of bridges, and highways.



The birds fail to see the glass separating them from what is beyond it – with often fatal results.



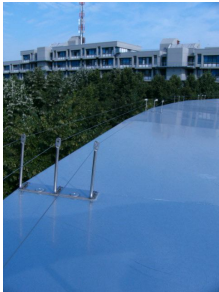
**Bird protection glass:** based on the „spiderweb effect,“ a special UV coating is put on the glass, so that birds can see it, but to humans it is invisible.

**Bird protection stickers:** until now, the only available bird of prey stickers were conspicuous and ugly. Therefore, bird silhouettes have been developed that are visible only in the UV. To human eyes they are invisible, but to birds they stand out – a real innovation, which you can order directly from our online shop!



# SELECTED REFERENCES

TONI has provided bird control solutions for a whole range of applications. Here are just a few:



Uni Düsseldorf:  
**Wire system**



E.On Düsseldorf:  
**Electrical system**



E.On Würzburg:  
**Electrical system**



DB Frankfurt:  
**Nets installed**



Egana Goldpfeil Offenbach:  
**TAPO electrical system**



HWK Bremen:  
**Columbox electrical system**



Messe Frankfurt:  
**Stainless steel wire system**



KKW:  
**Stainless steel spikes**

## International Clients

E.On, BMW, Daimler AG, Volkswagen AG, Arcelor Mittal, ALDI, HypoBank, DIBAG, AREVA, Kuraray, BilfingerBerger, Kirchner, Akzo Nobel, Deutsche Bahn  
various airports, real estate businesses

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# FEEDBACK

Please complete and fax to: +49 69 4800 9778

Please call me back. My telephone number is:

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I would like to request a site inspection. Please call me back.  
The on-site situation is as follows:

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My telephone number:

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I would like to request a quotation. The on-site situation is as follows:

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We will be in touch with you as soon as possible.

# CONTACT US:

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