

Take control of farm biosecurity with a Sanigene

washing and vehicle disinfection system



Whitepaper
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Proactively managing farm biosecurity is key to preventing the spread of infectious diseases, and the farm gate is the threshold for harmful micro-organisms entering the farm. Vehicles travelling from farm to farm can easily carry in avian flu, salmonella and other pathogens which can devastate a flock, leading to

mass culls and severe financial losses. Having a vehicle disinfection protocol at the farm entrance is easy enough, but if it relies on a hose and reel/pressure washer set-up, ensuring that it is applied consistently during busy times and in poor weather can be quite challenging, as well as being a drain on manpower.



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Sanigene: an effective barrier to potential disease

The Sanigene vehicle disinfection system is a robust automated system which provides unrivalled cleaning power, giving you peace of mind that your biosecurity is not being breached at the farm gate. The system uses a two-stage process, first cleaning and then disinfecting the vehicle, and is built on a clever modular concept that can be tailored to the needs of the farm. Trucks entering the farm can be

cleaned and disinfected within 45-60 seconds, with consistent results every time. As the threat of avian flu continues to loom large, many farms are investing in their biosecurity by installing a Sanigene vehicle disinfection system to protect their flocks and their livelihood. We recently installed a comprehensive system for Duncan Farms Limited at their Newton of Fortrie Packing Centre.

Consistent disinfection for busy farms

Duncan Farms Limited has a number of sites across Aberdeenshire, including a packing centre and 150,000 colony of birds based based at Newton of Fortrie, Turiff. Duncan farms has 450,000 free range commercial egg layers and 250,000 rearing birds. The busy packing centre receives up to 30 trucks a day, often from other farms in the region. Duncan Farms takes biosecurity very seriously, and the combination of high vehicle traffic, avian flu having occurred in

the area, and the fact that they are housing and rearing very young birds, encouraged them to think about further tightening biosecurity measures at the farm gate. Their existing vehicle disinfection system was a manned pressure hose system at the entrance, but they had recently been very impressed by a Sanigene HydroForce 4130 and a Sanigene HydroSan 360T disinfection system that Interhatch had installed at a nearby packing centre for Farmlay.

Before



After

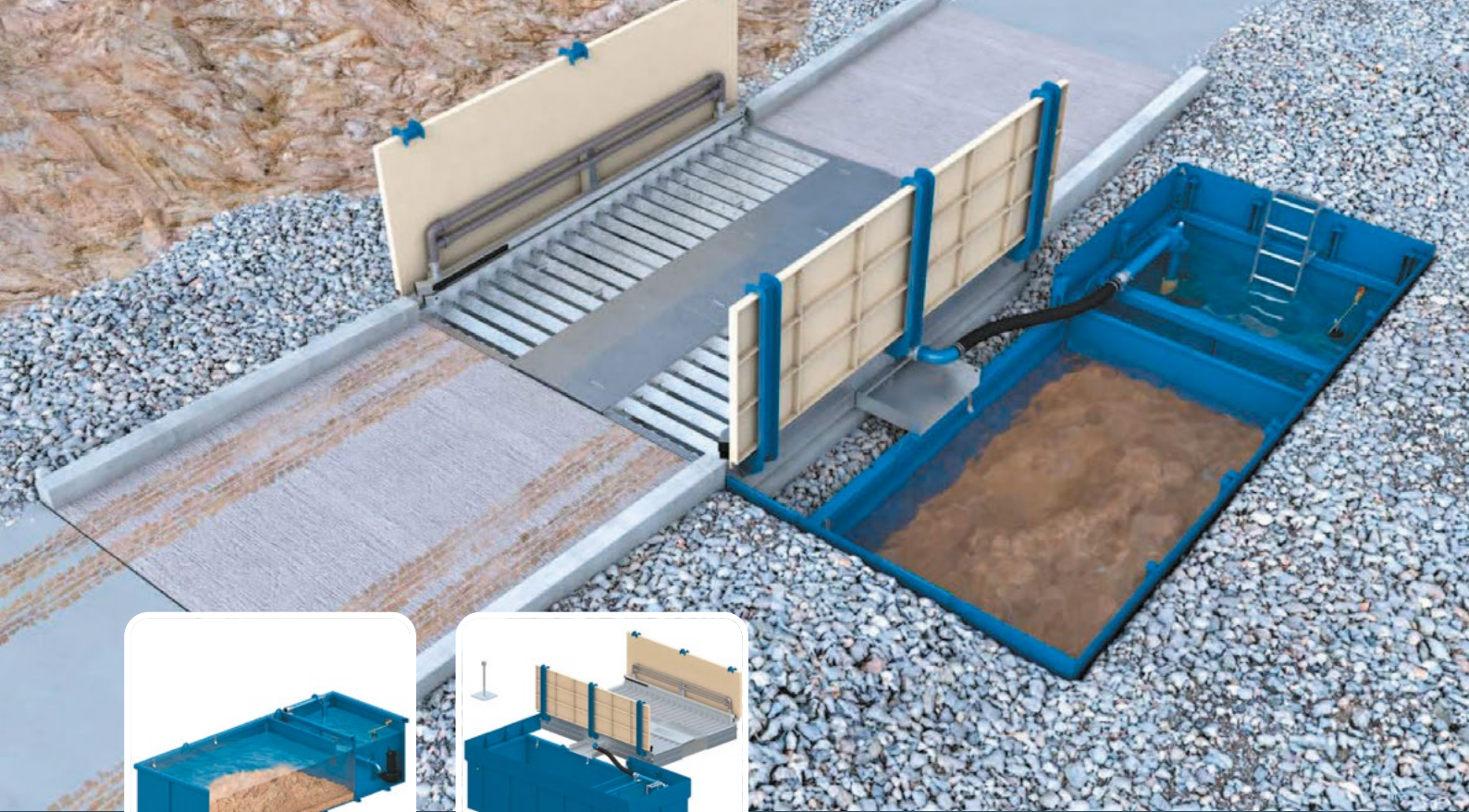


Free site survey

Our free site survey enabled us to assess the power and water supply at the packing centre, as well as other factors such as high winds which might inform how we build the system. This was all factored into a bespoke design to suit the site. We recommended the Sanigene

HydroForce 4130 wheel washing system with recycling tank to provide a 4m long washing unit, followed by the Sanigene HydroSan 180° disinfection gate to ensure thorough disinfection of the wheels and chassis of trucks entering the packing centre.





How does Sanigene HydroForce 4130 work?

As the truck drives slowly into the wheel washing system, an optical sensor automatically triggers the washing process and two HydroForce immersion pumps feed water to the nozzle system. The large number of angled bottom and side nozzles ensure an

intensive clean of all tyres and the entire chassis in one wheel rotation. Removal of dirt from underneath the truck is a vital stage before any disinfection can take place – we all know that you can't disinfect mud! The truck moves through the unit and onto the disinfection stage.



Disinfect at the gate with the Sanigene HydroSan system

We recommended our half-height 180° gate as high winds at the Newton of Fortrie site might have provided challenging conditions for our top-of-the-range 360° tunnel. The 180° gate is a great cost-effective solution for reducing the risk of disease entering the farm, ensuring the wheels and chassis

are thoroughly disinfected. The built-in dosing system allows for variable dilution levels and heated coils ensure that disinfection continues, even when temperatures are below freezing. Trucks pass through the system effortlessly, allowing the driver to remain in the cabin.



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Fully recyclable water system

Another bonus of the system is that the water used in the wheelwash system is recycled in a closed circuit, so no water is wasted or left to make the site waterlogged. The waste water runs via the return channel from the wash unit to the side recycling tank, where the washed-off solids settle out.



The water is fed under a surge wall and over the partition wall (with sieve insert) into the pump chamber, where it is re-used. An excavator or suction vehicle removes the settled solids from the recycling tank. The system can be topped up every six months, or as needed.

Speedy installation and thorough aftercare

The whole system took only a week to install at Newton of Fortrie Packing Centre, minimising any disruption to everyday farm operations. Product specialist Lorenzo Ingram from Interhatch was

on-site with our engineers for the duration of the project, ensuring that all went smoothly. The system was thoroughly tested after installation and comes with 12 months' warranty.



Benefits of a Sanigene vehicle disinfection system



Free site survey and CAD drawings to show system on site



Efficient use of disinfectant and recycled water



Hassle-free installation



Fully operational below 0°



Automatic vehicle sensors



Outstanding performance with minimal maintenance



Built in variable dosing system



Thorough system testing upon installation



Variable duration of the washing process



Follow-up visit and aftercare service available



Wash and disinfect vehicles within 45-60 secs



Free 12 months' warranty



Consistent results every time

Get expert advice from Interhatch

The spread of disease is the biggest single threat in the poultry industry, and vehicles travelling from farm to farm represent one of the main entry points for contamination. Protect your business by taking control of biosecurity at the farm gate with a Sanigene vehicle cleaning and disinfection system.

If you'd like to chat through different options or book a site visit, please contact us at sales@interhatch.com