



# The compact manure robot for narrow manure alleys

Meet Nano, the manure robot

Nano



# Clean floor, clean animals

Every farmer shares a common goal: to keep their barn floor scrupulously clean with minimal effort. Manure robots can help achieve this by automatically cleaning barn floors, ensuring your animals' environment is as comfortable as possible.

Our manure robot, the Nano, is the ideal solution for almost any cubicle barn. Its compact design and agility allow it to effortlessly clean narrow manure alleys as well as waiting areas. The result? A clean floor and cleaner hooves and udders.



Made in Holland

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# Circular Farming

The futur



Nano

Compact, agile manure  
robot





Effortless manure management with the

# Nano

The Nano barn-cleaning robot is a fully automatic manure robot for dairy barns. A high capacity and jet nozzles in the front and rear ensure that your barn floor is always clean. And this has positive benefits for the well-being of your cows.

## Robot type

The Nano is suitable for barns with slatted floors, and when used regularly, it can also clean up to 20 metres of solid floor. The robot can even handle the food residue and cubicle bedding that ends up in the manure alley, delivering optimal cleaning results.

## Operation and capacity

Like our other manure robots, the Nano uses JOZ's transponder technology, which allows the robot to navigate independently without wall guidance.

The Nano has an impressive capacity and can effortlessly handle barns housing up to 250 cows. With a speed of 6.5 metres per minute and a scraping width of up to 185 cm, it takes the work out of maintaining a clean barn.

We also have several alternative width options for those who require a smaller scraper:

- > 120 cm
- > 140 cm
- > 160 cm
- > 185 cm

Jet sprayers and a lift function (at any width) can also be added as optional extras. The lift function is particularly useful if the robot needs to traverse a feed alley as it prevents contamination of the feed.

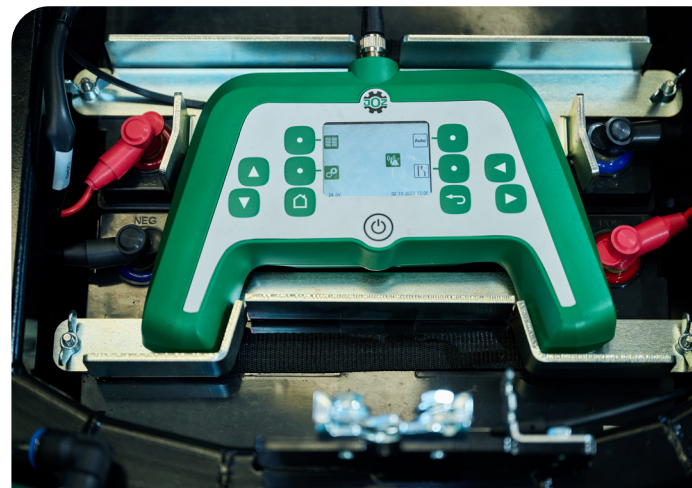
### Jet nozzles

The jet nozzle feature makes light work of shovelling dry manure. Rather than spraying a mist, these nozzles use jets, five at the front and five at the rear, to ensure that 100% of the liquid reaches the floor. This guarantees the best results, even in the summer months.

The Nano can hold up to 110 litres of liquid for spraying, and the dosage can be adjusted to deliver the perfect amount for each route.

### Charging

Both the robot itself and its stand-alone stainless steel charging station are compact. The charging station can be installed anywhere in the barn, and there is no need for a separate shed or cubicle to







park the robot. An internet connection is required in order to control the robot effectively. If you opt for jet nozzles, you will also need a water connection at the charging station.

## Route

The Nano moves through the barn independently, guided by transponders embedded in the floor. The location of each transponder is determined by JOZ's special SAM & Sketch software.

The Nano offers the ability to design custom routes aligned with the needs and routines of you and your cows. For example, you can account for peaks in cow traffic and seasonal changes in barn conditions. The robot can learn up to 22 different routes, offering flexibility and convenience.

The route programme allows you to configure where spraying and lifting are permitted or restricted, giving you perfect control over how much is sprayed. Additionally, you can make on-the-fly adjustments to the routes with ease.

## Routing schedules

In addition to routes, you can also create route schedules to dictate when each route is executed. You can easily modify these route schedules yourself. If the robot stops unexpectedly, you will receive an SMS notification to let you know that it did not complete its route. So you'll always be kept informed about the Nano's status.

## Animal-friendly

With the safety of both cows and farmers in mind, the Nano has been designed to allow you to easily adjust the traction yourself. For example, you may want to adjust it according to the type and quantity of bedding material you use or to adapt to seasonal changes in the barn.

Because of its compact size, the Nano is very agile, and its gentle, rounded shapes make it exceptionally animal-friendly. Like the Barn-E, the Nano moves almost silently through the barn and intelligently maintains a safe distance from cubicles and resting cows.



### In brief

- > Compact & agile
- > Cow friendly
- > Jet nozzles front and rear
- > Adjustable traction
- > 110-litre capacity
- > Quiet operation





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**Home of the clean stable**