



The compact manure robot for every barn

Meet manure robot Nano

Nano





‘Thanks to its compact design, the Nano manure robot is perfect for our barn’



Curious how dairy farmers experience the Nano? Scan the QR code and watch Jan Covens' story



A clean floor with the

Nano

The latest and most compact manure robot from JOZ. With a machine width of just 70 cm, it effortlessly cleans even the narrowest manure alleys. Thanks to the flexible scraper widths, it is equally suitable for wider alleys. This keeps every barn floor optimally clean.



Compact and powerful

The Nano fully automates the cleaning of the barn floor. Thanks to its high capacity, smart spraying technology and compact, manoeuvrable design, the floor remains continuously clean. This has a positive effect on the welfare of your livestock.

Slatted floor and semi-solid floor

The Nano is suitable for slatted floors and can, with regular scraping, clean up to 20 metres of solid floor. Feed residues and bedding are also easily processed into the manure alley for an optimal scraping result.

Operation and capacity

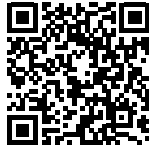
Like our other manure robots, the Nano uses JOZ's special transponder technology. This allows the robot to move freely without wall guidance.

The Nano has a high barn capacity. With a speed of 6.5 metres per minute and a scraper up to 185 cm, it cleans the barn effortlessly. Prefer a smaller scraper? That is also possible.

Scraper widths

The Nano is available in various scraper widths. The right width depends on your barn and routine. You can choose from **120 cm, 140 cm, 160 cm, or 185 cm**.

Scan the QR code to view all technical specifications.



Spray function and lift function

Optionally, the Nano can be equipped with jet nozzles and a lift function. The **lift function** is ideal in places where the robot needs to cross a feed alley, preventing dirt from entering it. The **spray function** is adjustable (jet or mist) and can be adapted to the barn situation.

The Nano has a tank capacity of 110 litres. The dosage is precisely adjustable, ensuring the correct amount of water is used per route.

Spray functions

- ✓ Makes dry manure easier to scrape
- ✓ Choice of jet or mist
- ✓ Spray setup with two nozzles at the front and one at the rear
- ✓ Optimal distribution across the entire scraping surface
- ✓ Also effective in summer on dry barn floors





Charging

Not only the robot itself, but also the standalone stainless steel charging station is compact. It can be placed anywhere in the barn. No separate room or cubicle is required. An internet connection is required to operate the robot. If you use spray nozzles, a water connection is also needed at the charging station.

The charging station is also equipped with a water filter and two inspection hatches for easy monitoring and access to the water valve.

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.

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Route 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

Because of its compact size, the Nano is very agile. 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. 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 short

- ✓ Compact & agile
- ✓ Cow-friendly
- ✓ Front and rear spray function (jet and mist)
- ✓ Adjustable traction
- ✓ 110-litre capacity
- ✓ Various scraper widths



About JOZ

Home of the clean stable. That is what JOZ stands for.

As the pioneer of modern barn cleaning, we have been developing manure and feed pushing systems for livestock farmers worldwide for over 75 years.



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