

LELY DISCOVERY

Mobile barn cleaner



Cutting edge barn hygiene technology



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innovators in agriculture

The Lely Discovery mobile barn cleaner: the most flexible and complete solution for cow housing hygiene

By offering the Discovery mobile barn cleaner, Lely provides an intelligent solution, which meets the growing need of dairy farmers for optimum hygiene in their cow housings. The mobile barn cleaner features robot technology and is used with flexibility and thoroughness to ensure that the cow housing floor is kept as clean as possible to guarantee the walking comfort of the cows as well as hygiene. The Discovery mobile barn cleaner moves across the barn without disturbing the cows. Usually there is no need for additional facilities or modifications to the barn. All in all, the Discovery is an easy-to-install and animal-friendly system, and only requires a minimum of maintenance.





E-link remote control.



Charging station.



Cow housing hygiene and financial results

The well-being of milking cows, their health and milk quality are major factors for the financial results of your dairy business. You ensure, in addition to providing sufficient water and high quality feed, an optimum climate for your cows. A quick disposal of manure may help greatly in achieving this objective. Moisture and manure on slatted barn floors are quite often a major source of infection for serious hoof ailments. Cows that are suffering from a hoof ailment produce less milk, encounter problems when walking and are not readily identified when in heat. In addition, moist accumulations of manure on slatted floors, especially when situated near the stalls, are sources of contamination that affect milk quality directly. Clean udders and stalls are primary conditions to avoid problems in terms of milk quality.

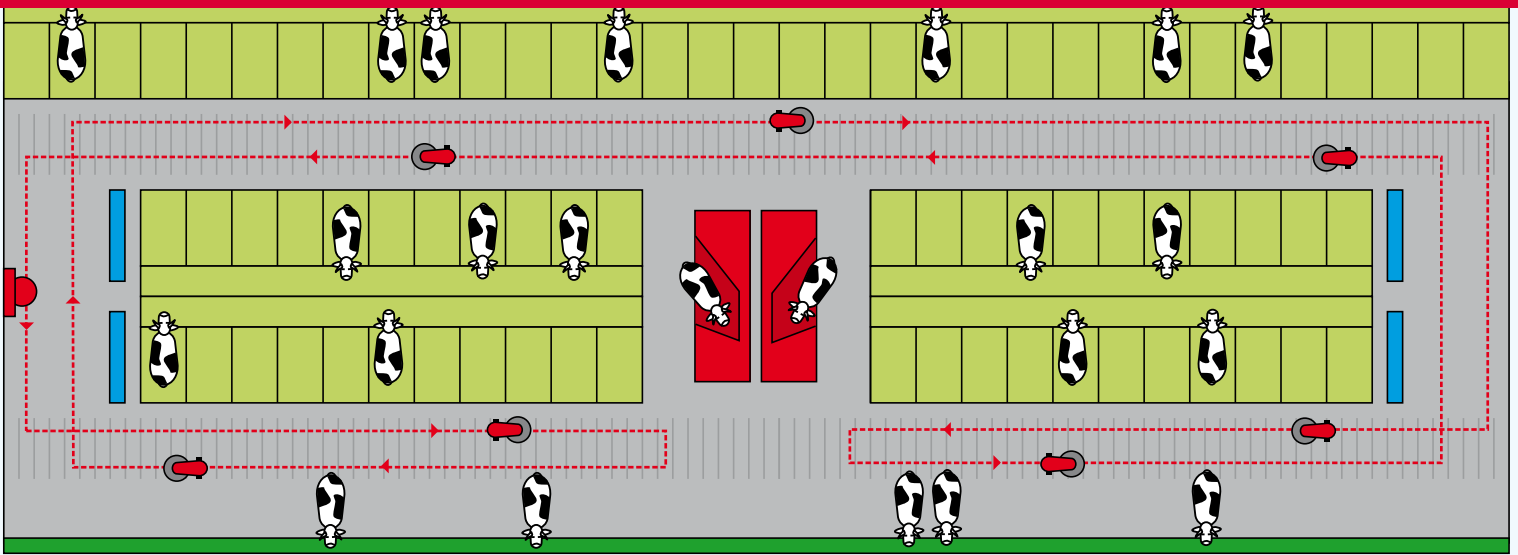
Avoiding contamination is of primary interest. One of the ways to avoid contamination of cows and stalls is frequent cleaning of the manure alley. Manual cleaning is an intensive and none too pleasant job, which keeps the floor dry and clean for just a short time. Conventional systems are an obstacle, they require extensive maintenance and do not clean the passage ways.

By using the Lely Discovery mobile barn cleaner you clean the manure alleys in your cow housing as often as you please, which creates a consistent clean and dry environment for your cows. The results of the use of the Discovery are immediately noticeable: less manure in the stalls, cleaner hoofs, tails and udders. All of this while maintaining peace and quiet in the herd.

A justified investment

Good animal health is essential for overall cow performance, and optimum cow housing hygiene is an absolute must for maintaining good animal health. From this point of view, the Discovery mobile barn cleaner is a valuable and easily economically justified investment.





Routing of the Lely Discovery.

How does the Lely Discovery mobile barn cleaner work?

The Discovery mobile barn cleaner is a battery-driven vehicle, which cleans the floors of a barn to ensure that the cows can walk on a clean and dry floor. The dairy farmer uses the E-link remote control to pre-program the routing to be followed by the Discovery. Routings are flexible so that the dairy farmer has the option to ensure more intensive cleaning of some areas in the barn during certain hours of the day. The Discovery is battery-operated and after each cleaning it returns to the charging station, which is installed at a convenient point in the barn. The charging station also functions as the starting point of each cleaning route.

A flexible strip mounted underneath the Discovery pushes the manure through the openings of the slatted floor. The Discovery is propelled and steered by two

independently driven wheels. The built-in gyroscope and ultrasound sensors ensure that the Discovery follows a straight line or the walls at a pre-determined distance.

A special element of the design of the Discovery barn cleaner is the freely-moving ring in the front. This feature prevents the Discovery from getting stuck in a corner. In addition, the ring ensures proper following of walls as well as steering clear of obstacles, such as posts or a cow's legs.

The Discovery mobile barn cleaner can be used on all even-slatted floors. In addition, the Discovery can also be used — up to a maximum of 15 feet — to keep solid floors clean. The Discovery mobile barn cleaner is very compact and its low height allows it to pass easily underneath segregation gates.

Manure is pushed through the openings of the slatted floors.



An outstanding design element: the highly functional ring.



Summary of the major advantages of the Lely Discovery mobile barn cleaner

Intelligent and animal-friendly

The operator sets the routing to be followed by the Discovery mobile barn cleaner and you have the option to clean certain heavily used barn areas even more frequently. The large horizontal wheel ensures that the vehicle follows the walls and avoids obstacles, such as posts or a cow's leg.

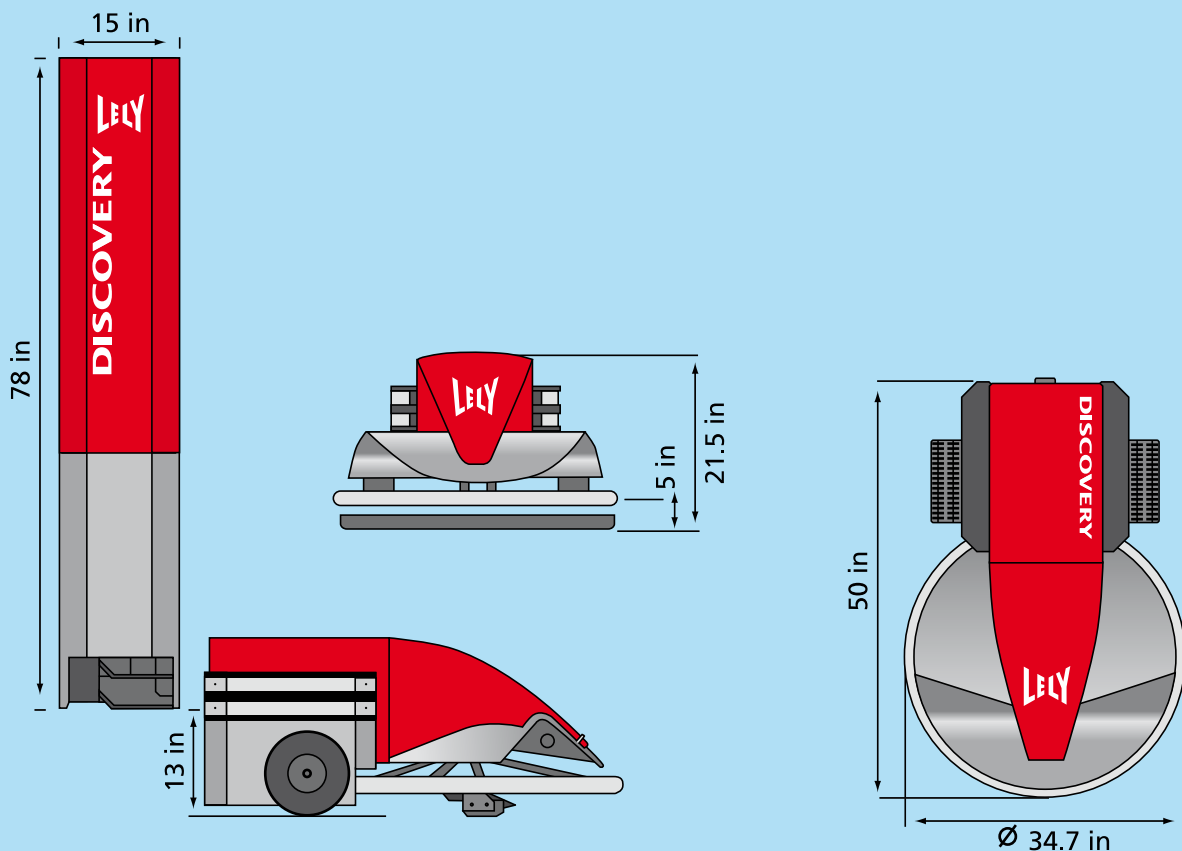
Easy to install and maintain

Installing the charging station is all that is required to install the Discovery mobile barn cleaner. With the easy-to-use E-link remote control you simply program the routing to be followed by the Discovery. The Discovery keeps the alleys free from obstacles such as scrapers, chains and corner wheels. Changing the flexible plastic strip can be done quickly and easily by yourself.

Economically cost-effective

The Discovery mobile barn cleaner is the ultimate answer to clean cross-overs and alleys. Low operating costs is a characteristic of all Lely products, and most certainly for the Discovery mobile barn cleaner.

All in all: with the Discovery mobile barn cleaner, Lely provides a flexible and competitive solution for keeping your barn clean — 24 hours a day / 7 days a week.





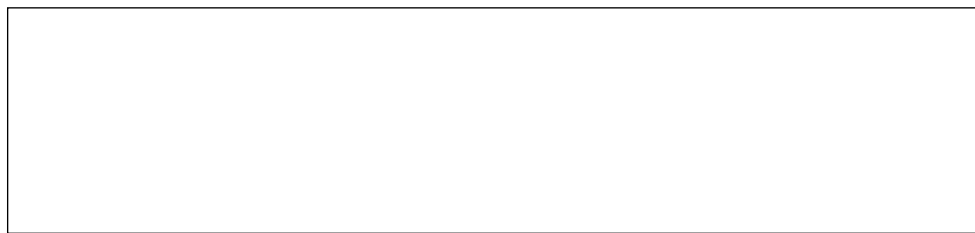


Live Life Lely

Since its founding, Lely has always been committed to improving the quality of life of farmers as well as the future of the agriculture industry. In addition, the company is innovative in its products as well as its concepts for marketing and distribution.

- Lely is committed to helping farmers anticipate ahead of market developments
- Lely always supplies the most innovative products to farmers and ag-contractors
- Lely provides customers with optimum service
- Everything Lely invents will always serve to the benefit of both man and animal as well as providing joy to all our employees

In short: we at Lely are working in order to offer farmers solutions which help make their lives as enjoyable as possible. From grassland machinery to the revolutionary automatic milking system, Lely has offered farmers innovative solutions for the past 60 years.



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