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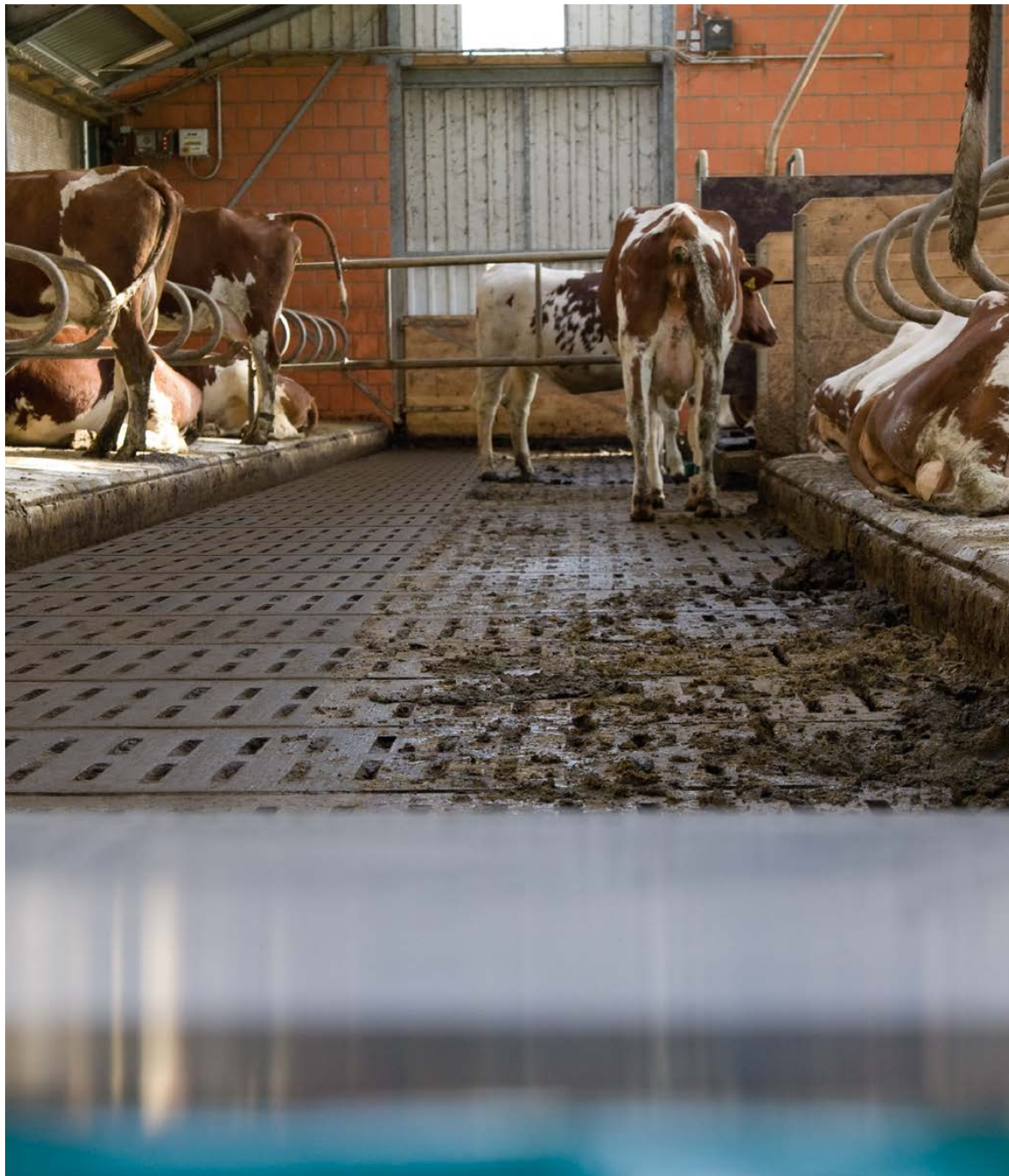
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# СИСТЕМЫ УПРАВЛЕНИЯ НАВОЗОМ SRONE, SRONE+ Технические характеристики

### Keeping your boots clean

If you're honest, haven't you always secretly hoped to find someone you could give all that „dirty work“ to? Now you can, and with a clear conscience! We have two cleaners that will be happy to take care of that for you: the SRone and SRone+.

They are made for the job: robots that can keep scraping and scraping without ever tiring.



The GEA SRone and SRone + can clean slatted floors and connecting paths, corners and edges. Keep your floors clean and improve barn hygiene to keep your animals clean and healthy.



### The GEA SRone series keep you and your animals happy

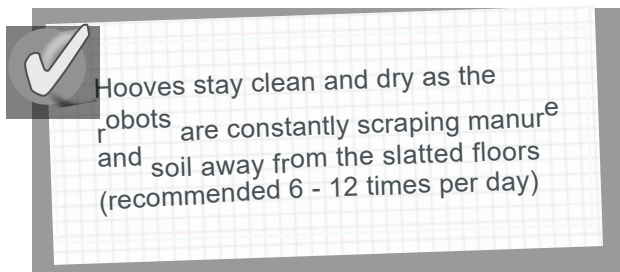
A successful milk production starts with barn hygiene:

Good barn hygiene standards lower the risk of infection, prevent hoof disease and mastitis, and keep your animals healthy. With fresh, clean, slatted floors you can ensure that pathogens, bacteria and insects have nowhere to hide.

The bottom line: Healthy animals produce more milk and require less costly veterinary treatment.

### A calm atmosphere in all areas of the barn

The SRone and SRone+ move quietly between the animals without disturbing them. In fact it is quite the opposite: The cows accept these robots right from the start. Flat and compact, they move smoothly under gates and carry out their work without any supervision. The safety rail ensures that your animals are never at risk; if the robot's are blocked, it stops moving forward and starts an obstacle avoidance maneuver.



The SRone and SRone + – a real benefit for animals and humans alike

From the start: Robotic scrapers clean your barn floor as often as you want and require. You'll soon see the benefit: Healthy hooves and clean udders simplify overall herd management.



# SRone : independent, through and through

The SRone has been on the market for more than 5 years and has proven to be very reliable: with simple, pioneering technology, guaranteed to keep your animals safe. With a running time of up to 18 hours and a working speed of up to 5 m per minute, it can clean between 6,000 and 8,000 square meters of slatted floors every day. The agile scraper robot gets into every corner, and runs along the fixed edges which are part of your facility.

**Optimized energy management at charging station** The SRone manages its power levels itself. A minimum charge time of 6 hours, preferably overnight, completely recharges the batteries and makes sure the SRone is ready to start again the next day.

Over 500 kg unladen weight ensures a secure grip

## The SRone cleans up thoroughly

The scraper robot from GEA is the ideal technology for cleaning main and connecting walkways, and especially the corners and edges of your barn.



## SRone Overview

- Optimized barn hygiene in all walkways with slatted floor
- Basic unit for simple barn layouts
- Driving along fixed edges
- Reliable lateral guidance system keeps the SRone on the right track at all times
- For barns with up to 8,000 square meters of slatted floor
- Running time up to 18 hours per day;  
Recharging within 6 hours
- Low maintenance costs per working hour
- Saves time and effort



# SRone+: high-tech barn cleaning for small and large barn layouts

Intelligent barn cleaning on a grand scale: That's what this premium version of the popular SRone does reliably every day. Adjusted to suit the barn layout and hygiene requirements. With up to five programmable routes per day, clockwise or counter-clockwise and 12 possible start times, it always precisely follows the routes you tell it to. For the fully-automated SRone +, even challenging walkways with solid floors with a regular manure drop off, or areas with tricky edges, corners and crevices are no problem at all. It can even run along the center of a walkway without any lateral guidance. This is ensured by its range of high

tech fittings including a gyroscope, RFID/tag sensor technology and solid polyurethane wheels. You can configure its speed to suit different cleaning tasks and, of course, your cows: 5 m/min to

8 m/min in automatic mode and 14 m/min in manual mode.

This combination of high speeds and large scraper widths (max. 1.7 meters) enable you to clean up to 12,000 square meters of barn with slatted floor every single day. However, with smaller scraper widths down to 1.2 m available, it is also the perfect choice for smaller barns with tighter walkways.

Optionally the SRone + can be provided with a spray system to prevent slippery floors.



## SRone + Overview

- For larger barns with up to 12,000 square meters of slatted floor
- Can be used in more complex barn layouts
- Can be allowed to run without guides in wider walkways (optional)
- Several routes possible
- Data can be recorded for error analysis
- Runtime up to 19 hours per day; Recharging within 5 hours
- Low maintenance costs per working hour
- Saves time and effort
- Optional with a water spray system

### Always finds its way home

When the SRone+ finds a tag, it activates a chain of commands, telling the direction to go. All these chains of commands guide the SRone+ through the barn.

So when a cow pushes the SRone+ off the normal route it recovers the way home again at the moment the SRone+ encounters a tag somewhere in the barn. Smart and very effective. This makes the SRone+ the most secure robot scraper in the market.

# The clean solution for any barn size – choose the right version for you

The popular SRone with lateral guidance can clean up to 8,000 square meters slatted floor per day, making it the optimum solution for efficiently cleaning out smaller barns with simple, standard walkways and few obstacles. For larger barns with up to 12,000 square meters of slatted flooring to clean

each day, or if you wish to design more challenging, personalized route plans, the programmable SRone + with multifunctional control technology is the ideal choice for reliable, intelligent hygiene management.

The SRone and SRone+ – for excellent hygiene standards, clean cows and optimum yields

Need help to find the right solution? Our dealers can help you. Based on their experience and years of research we developed a selector tool to ensure the chosen SRone will perform well in your barn.

Technical specifications	SRone	SRone+
Speed – automatic	3, 4, 5 m/min	5, 6, 7, 8 m/min
Speed – manual	6 m/min	14 m/min
Scraper width	1,4 - 1,7 - 2,0 m	1,2 - 1,4 - 1,7 m
Motors	2 x 24V, 100W	2 x 24V, 250W
Adjustable bumper sensitivity	No	Yes
Rotation sensor for lateral guidance along an edge	Yes	Yes, with improved functionality
Gyroscope	No	Yes
Magnetic sensor	Yes	Yes, (with additional functions)
RFID technology	No	Yes
Proximity sensor	No	Optional
Wheel	Rubber	Solid polyurethane mixed with sand
Charging management for batteries	Yes	Yes
Backup program	No	Yes, can be retrofitted
Historical data backup	No	Yes
Programmable routes	No	Yes, 5 routes
Direction programmable at start	Yes	Yes
Number of routes programmable	None	5 x 2
Number of start times	6	12
Adjustable inner curve	No	Yes, through teaching, adjustable for each curve
Adjustable outer curve	No	Yes, through teaching, adjustable for each curve

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