# STORM

BY AM ROBOTS

STORM ROBOT | 800 – 6.500m²




**NO** RTK • **NO** WIRES • **NO** LIMITATIONS

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# Who We Are

## AM ROBOTS Dealer network

We have been working with more than **4.000 professional dealers** across the world, supplying and developing products since 2017. We support all brands with our solutions and offer one of the widest selections of robotic lawn mower accessories, built on strong industry experience and close partnerships with professionals.

## Robot Startup

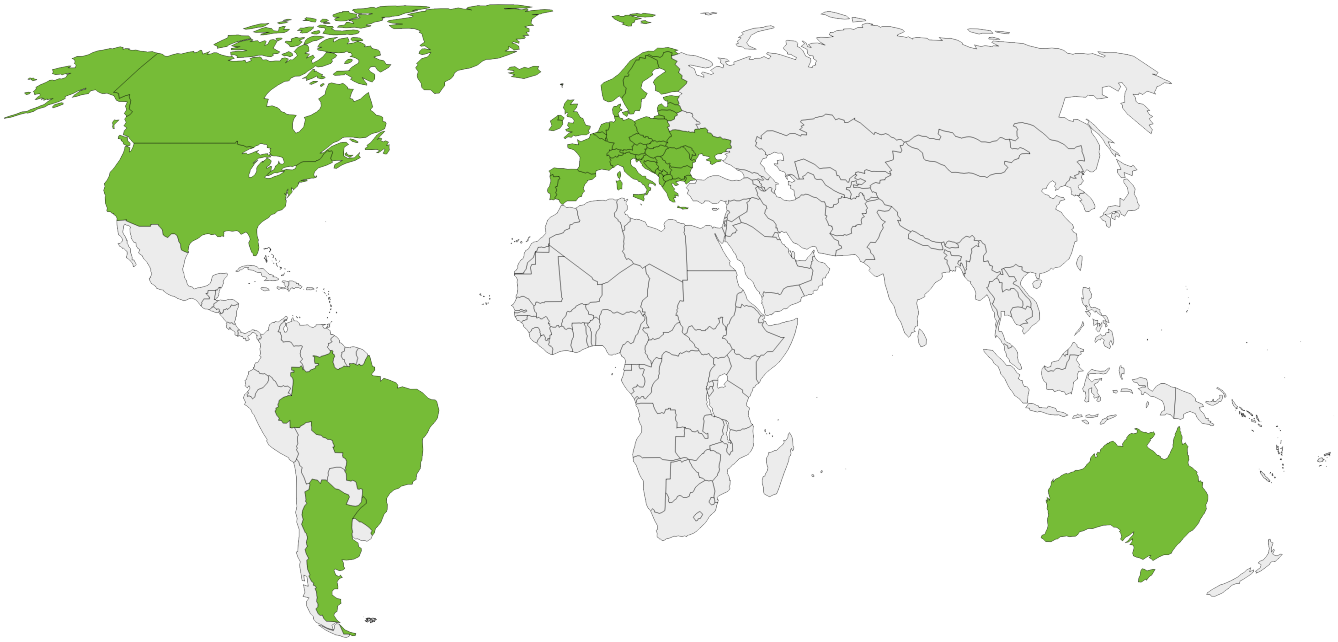
In 2019 we began developing our own robot. Our goal was clear: to create a robotic lawn mower without wires in the ground. Even though we produced close to 40 million meters of cable per year, we saw early that wire-free solutions are the **future of robotic lawn care**, offering greater flexibility, easier installation, and improved user experience.

## Initial Focus

RTK was our first focus area. However, we quickly experienced too many dropouts and inconsistencies. We realized that a much more stable and intelligent solution was required to avoid unsatisfied clients, especially within the professional segment, where reliability is essential.

## Final Step

In 2022, we took our first step into **LiDAR technology**.
This provided a strong foundation for fully autonomous operation without external signals such as RTK/GPS, WiFi, or 4G SIM cards. While the technology was not yet mature, we tested and developed it over two years. By early 2025, we were ready for our first full test season.



STORM®

# First Robot With LDI Technology

No wires, no signal dependency, and no limitations from trees, buildings, or shadows. **STORM** simply understands its environment and works autonomously—delivering a smarter, more reliable, and truly next generation mowing experience.



# LDI Technology

## What is LDI Technology?

LDI stands for Laser Direct Imaging—an advanced navigation technology that combines high-speed LiDAR (Laser+Camera), Direct AI processor, which is transferred into a complete navigational Image (3D Mapping) for the robotic lawn mower to work 100% autonomously.

**The LDI technology** handles all the data completely from inside the robot, which eliminates the need for external references such as GPS, RTK or boundary wires. It also allows the robot to be installed at almost any location.

**Other industries:** LDI technology is already widely used in industries such as self-driving cars, logistics, and construction, and now AM ROBOTS is bringing it into Robotic Lawn mower industry.

## Laser:

STORM uses a **360° rotating LiDAR sensor** that sends more than **200.000 laser pulses per second.** The pulses are stored as a reference point, and will be used as a triangular positioning system to navigate the robot in the garden.

## Direct AI processor:

The collected data is transformed **directly** into a highly detailed 3D map, built from millions of measurement points. This gives the robot a centimeter-level understanding of the garden.

## Image:

To further enhance performance, **LDI integrates with an AI-powered camera system**, which works alongside the LiDAR to detect, recognize, and classify objects such as pets, toys, and garden furniture.



# LDI Technology

## Why Choose LDI Technology?

### Wire Free

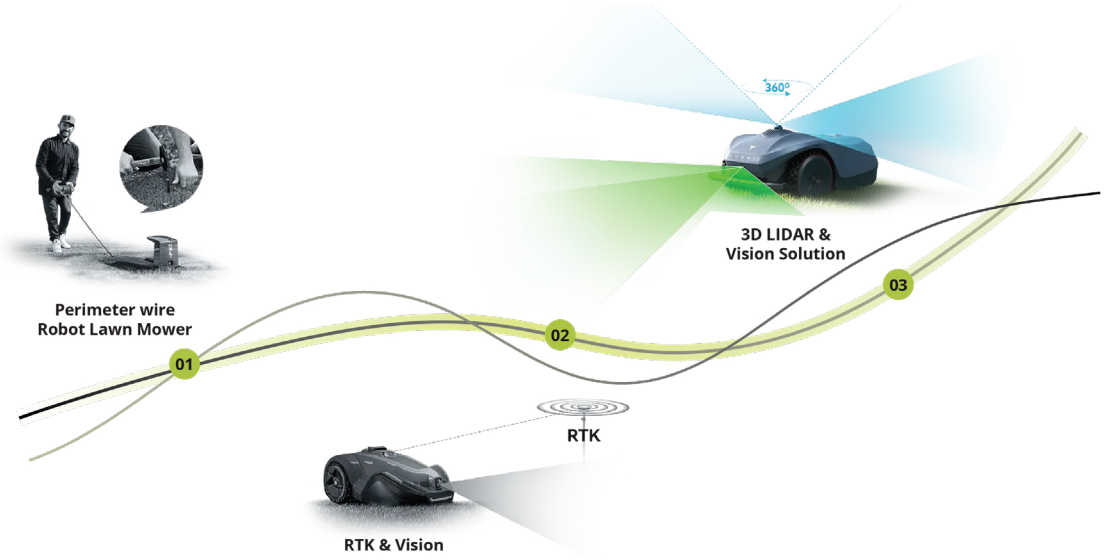
The robot requires no perimeter wires or other external installations. The only requirement is a connection to a power source.

### Independent Navigation

The robot does not rely on Wi-Fi, 4G, GPS, or other external signals for navigation. Cellular or Wi-Fi connectivity is only needed during installation. Once installed, the robot can operate independently, even when disconnected from the internet or GPS signals, allowing it to mow continuously day and night, all year round.

### Reliable Performance Without Signal Interference

Because the map and navigation system are stored directly on the robot, it can operate in areas where external signals may be blocked or unreliable. This allows installation under trees, beside buildings, beneath terraces, or in other challenging environments without being affected by walls, structures, or surrounding obstacles.




### Third Generation

3rd Generation STORM LDI is the newest generation of robotic lawn mowers, that offers a reliable mowing result without the risk of damaging the boundary wire (1st generation robots) or losing signal from the GPS (2nd generations robots).

### Future

The third generation robot with LiDAR and camera will not change a lot over the next decades. However, the software control, AI control, obstacles avoidance and general navigation will continuously becoming more and more advanced.




# Designed to Stay Cool

## Advanced Cool Pigment Technology

The **STORM 2026** robot mower uses infrared (IR) reflective pigments, also known as cool pigments, in its outer housing. These specialized pigments reflect a large portion of the sun's near-infrared (NIR) energy, reducing heat absorption compared to conventional black plastics.

Traditional black pigments absorb solar energy and convert it into heat, causing higher surface temperatures in direct sunlight. Cool pigment technology reflects much of this heat-producing radiation while preserving the desired color and appearance.

## Cooler Operation. Greater Reliability.

By incorporating IR-reflective pigments, **STORM 2026** stays noticeably cooler on hot summer days. Lower surface temperatures help protect key components, including:

- Electronics
- Battery systems
- Drive motors
- Internal mechanical components

This improved thermal management supports reliable performance and helps extend component lifespan.

## The Black Mower Customers Want

Black is the preferred color choice for **approximately 55%** of robot mower users, valued for its premium and modern appearance.

With **STORM's** cool pigment technology, customers no longer need to compromise between aesthetics and performance. The black housing maintains significantly lower temperatures than traditional black plastic products, allowing users to enjoy their preferred color while benefiting from optimal cooling and durability.



# Introducing STORM® Residential Series

## Built for Modern Homes and Smarter Lawn Care

The **STORM Residential Series** is designed for homeowners who want professional results with zero complexity. Engineered for modern gardens, compact urban lawns, and midsized properties, **STORM** delivers precise, consistent mowing across areas ranging from **800 to 1.200 m².**

The lineup includes three models tailored to different lawn sizes:

- **STORM R1**
- **STORM R2**

At its core is our advanced **LDI technology**, combining **3D LiDAR** and a **camera** vision system for intelligent navigation.

Using over **200.000 LiDAR reference points per second** alongside real-time camera data, **STORM** creates an accurate 3D map of its surroundings.

This enables smooth navigation, precise obstacle avoidance, and completely wire-free operation, without RTK, GPS, or network-dependent positioning.

Built for real-world conditions, STORM handles slope up to **50%,** operates quietly at **55 dB,** and features an **IPX6 waterproof** design for reliable performance in changing weather.

With **multi-zone** management, app control, and connectivity via **WiFi, 4G, and Bluetooth, STORM** offers complete control while working efficiently in the background.

## What this means for you

Enjoy a perfectly maintained lawn without cables or complex installation. Save time each week while **STORM** mows automatically, performs reliably in challenging conditions, and gives you full control through an intuitive app. Simply set it up once and let **STORM** take care of the rest.

# Residential Spec





| TECHNICAL SPECIFICATIONS | | |
|---|---|---|
| **Specifications** | **STORM R1** | **STORM R2** |
| **Area** | 800 m² | 1200 m² |
| **Navigation** | LDI (3D LiDAR + AI Vision) | LDI (3D LiDAR + AI Vision) |
| **Drive** | RWD | RWD |
| **Max slope** | 27° (50%) | 27° (50%) |
| **Cutting height** | 3-8 cm | 3-8 cm |
| **Cutting width** | 22 cm | 22 cm |
| **Cutting blades** | 5 blades | 5 blades |
| **Waterproof** | IPX6 | IPX6 |
| **Noise level** | 55dB | 55dB |
| **Robot dimensions** | 640*446*315 mm | 640*446*315 mm |
| **Robot Weight** | ≈13 kg | ≈13 kg |
| **Obstacle avoidance** | Laser + Camera + Bumper | Laser + Camera + Bumper |
| **Multi zone** | 20 | 40 |
| **Connectivity** | 4G/Wi-Fi/Bluetooth | 4G/Wi-Fi/Bluetooth |
| **Auto Mapping** | No | No |
| **Laser range** | ≥ 20 m | ≥ 40 m |
| **Map Backup** | No | Yes |
| **Dual Map** | No | Yes |
| **Battery** | Lithium 22V, 4,4Ah | Lithium 22V, 9,6Ah |
| **Mowing area per charge** | 400 m² | 800 m² |



# Introducing STORM® Pro Series

## Built for Larger Lawns and Professional Demands

The **STORM Pro Series** is engineered for environments where reliability, efficiency, and minimal downtime are nonnegotiable.

Designed for **private estates, commercial properties, sports facilities, and professional landscaping, STORM** delivers precise, consistent mowing across areas ranging from **2.000 to 6.500 m².**

The lineup includes three models tailored to different property sizes:

- **STORM 2000**
- **STORM 5000**
- **STORM 6500**

But what truly sets STORM apart is not only its mowing performance — it's the **connected platform** behind every unit.

### OTA Updates – Always Improving

With builtin **OverTheAir (OTA)** technology, software updates, performance enhancements, and new features are delivered remotely — no service visits, cables, or manual installations. As the platform evolves, **your STORM evolves with it,** continuously improving navigation, functionality, and user experience to keep the robot up to date for years.

### Faster Support. Less Downtime.

For professional users, uptime matters. **STORM** monitors critical systems and communicates key information through its connected platform, enabling dealers and support teams to identify and resolve many issues remotely before they affect daily operation. Remote diagnostics reduce unnecessary service visits, speed up troubleshooting, and help keep the robot productive when it matters most.

# Pro Spec



| SPECIFICATIONS | | | |
|---|---|---|---|
| **Model** | **STORM 2000** | **STORM 5000** | **STORM 6500** |
| **Area** | 2000 m² | 5000 m² | 6500 m² |
| **Navigation** | LDI (3D LiDAR + AI Vision) | LDI (3D LiDAR + AI Vision) | LDI (3D LiDAR + AI Tripple Vision) |
| **Drive** | FWD | FWD | FWD |
| **Max slope** | 24° (45%) | 24° (45%) | 24° (45%) |
| **Cutting height** | 3-8,5 cm | 3-8,5 cm | 3-8,5 cm |
| **Cutting width** | 28 cm | 28 cm | 28 cm |
| **Cutting blades** | 5 blades | 5 blades | 5 blades |
| **Waterproof** | IPX6 | IPX6 | IPX6 |
| **Noise level** | 58dB | 58dB | 58dB |
| **Robot dimensions** | 730*508*338 mm | 730*508*338 mm | 730*508*338 mm |
| **Robot Weight** | 17 kg | 17 kg | 18 kg |
| **Obstacle avoidance** | Laser + Camera + Bumper | Laser + Camera + Bumper | Laser + Camera + Bumper |
| **Multi zone** | No limit | No limit | No Limit |
| **Connectivity** | 4G/Wi-Fi/Bluetooth | 4G/Wi-Fi/Bluetooth | 4G/Wi-Fi/Bluetooth |
| **Auto Mapping** | No | No | Yes |
| **Laser range** | ≥ 30 m | ≥ 40 m | ≥ 40 m |
| **Map Backup** | No | Yes | Yes |
| **Dual Map** | No | Yes | Yes |
| **Battery** | Lithium 18V, 13Ah | Lithium 18V, 13Ah | Lithium 18V, 17,5Ah |
| **Mowing pr. charge** | 600 m² | 700 m² | 1000 m² |



# Over-The-Air Support

## Built to Support Dealers

Over-the-Air (OTA) Support will become the future of fault finding and diagnostics. With this technology, AM ROBOTS support teams can connect directly to a robot, diagnose issues remotely, and either resolve the problem immediately or provide the dealer with precise repair instructions.

### Benefits for Users

- **Reduced downtime**
- **Faster support response**
- **Continuous software improvements**
- **Lower service requirements**

### Benefits for Dealers

- **Faster customer assistance**
- **Reduced travel time**
- **Improved service efficiency**
- **Easier fleet management**

### Invest Once - Keep Improving.

A STORM Pro mower is more than a robotic mower—it is a connected platform designed for long-term ownership. The AI processor and image recognition software is constantly improving, and we also made it possible to diagnose your robot now in just a few clicks.

With OTA updates, remote diagnostics, and dealer-assisted support, users benefit from a STORM robot that continuously improves while requiring less maintenance and experiencing fewer service interruptions.

### Faster Support > More Uptime

# STORM® - Mission 1

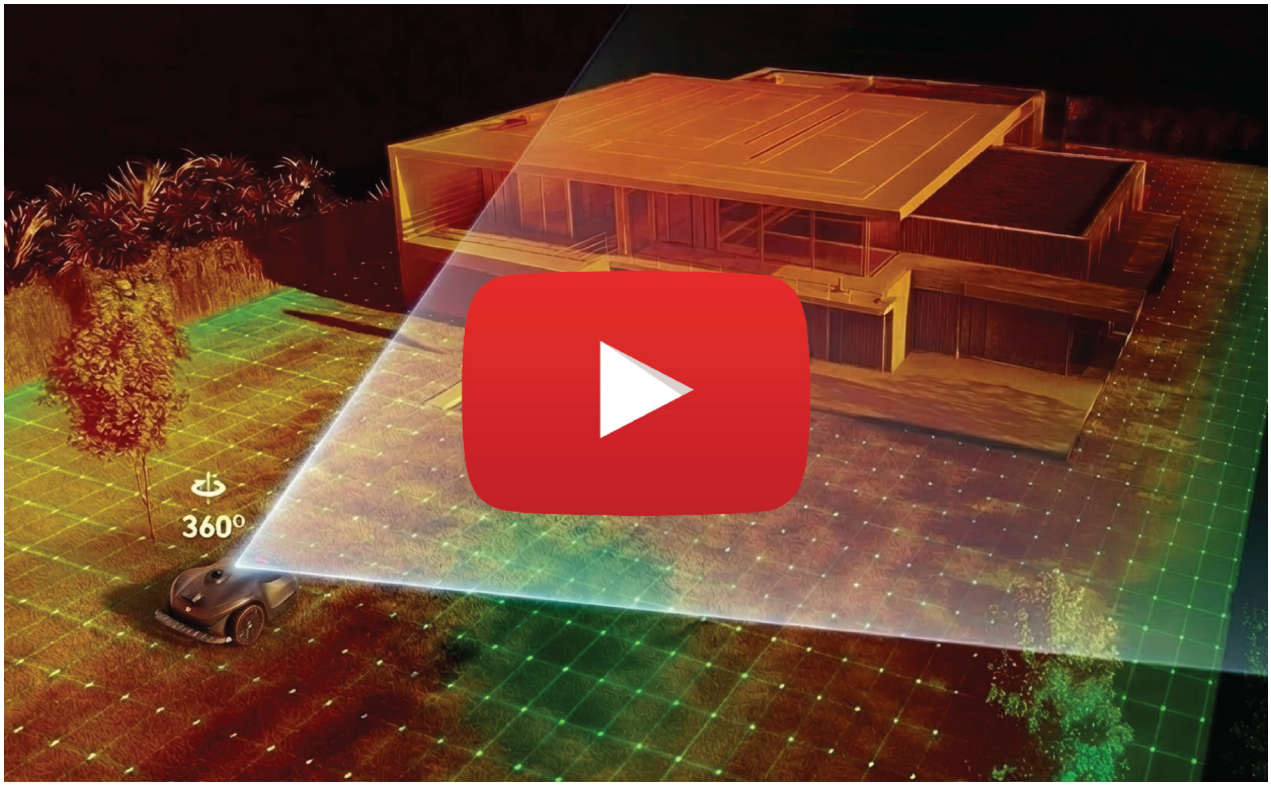
## Max. Distance between 2 mowing zones?

**The answer is surprisingly simple:** **There is no practical distance limitation.**

**LDI: Without Limitation -** Unlike systems that depend on GPS correction stations, signal coverage, or physical boundary wires, STORM uses LDI Technology, combining 3D LiDAR and AI vision to continuously scan, map, and recognize its surroundings. Once the robot has mapped an area and passage, it can identify and follow that route with remarkable precision, even without any 4G, Wi-Fi or GPS connections.
To demonstrate this capability, we decided to put it to the mission.

### The Mission

We wanted to find out how far the STORM 6500 could travel between two mowing zones while maintaining enough battery capacity to complete a mowing task and return home.




https://www.youtube.com/watch?v=Ni3RYVZLtvg

### The Result - The outcome exceeded expectations.

- **Driving more than 1.000 meters between zones**
- **Mowing over 300 m²**
- **Usage of battery power: 25%**

# Potential on One Charge

## Thinking Beyond Traditional Gardens

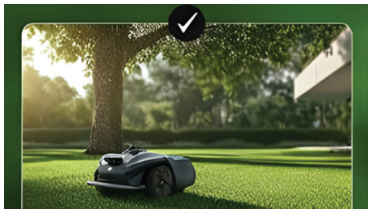
When you realize the robot can travel kilometers between work areas, entirely new installation possibilities become available.
During the mission, we discovered that the battery consumed only about 8% capacity per 1.000 meters of driving. If we add this number up with 10 times, then we would get the following result:

- **Up to 4 km passage distance**
- **8 km total driving (outbound and return)**
- **Plus approximately 200–300m² of mowing**

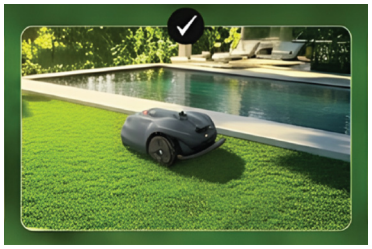
Of course, actual performance depends on terrain, slopes, grass conditions, and installation design, but the mission clearly demonstrates that passage routes can be dramatically longer than most users imagine.

When you realise the robot can travel kilometres between work areas, entirely new installation possibilities become available.

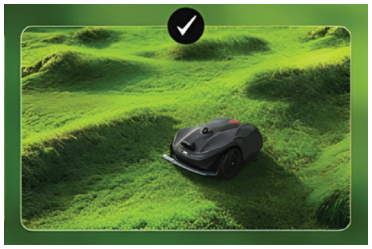
## STORM Passage — Practical Usage



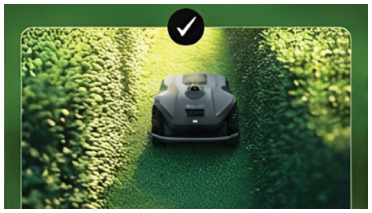
### Multiple Properties
A single STORM could potentially maintain several connected properties, provided the total mowing area remains within its mowing capacity.



### Large Garden Complexes
Complex landscapes with multiple separated lawn sections are no longer a challenge. Long connecting corridors and transport routes can link all mowing zones into one installation.



### Estate and Farm Environments
Many estates, parks, and farm complexes contain scattered grass areas connected by paths, roads, or access routes. These changing environments can be managed with a flexibility that was previously difficult to achieve.



### Narrow Access Routes
The robot can navigate long passages with 77cm and 65 cm height clearance and 1,1m min width of mowing zone, opening possibilities for installations where mowing areas are connected through narrow corridors or pathways.




# STORM®

## Rethinking What's Possible

Traditional robotic mowers often make users think in terms of limitations:

- ***How close must the zones be together?***
- ***Can the robot reach that area?***
- ***Will it lose signal?***
- ***Do I need additional equipment?***

**STORM** changes that mindset.
Instead of adapting the property to the robot, the robot adapts to the property.
The combination of intelligent mapping, LDI navigation, and exceptional battery efficiency allows **STORM** to connect mowing areas across distances that most people would never consider practical.

If you can imagine the route, **STORM** can most likely mow it.
One robot. Multiple zones. Virtually unlimited possibilities.



# Accessories

AM ROBOTS offers over 200 different spare parts and accessories for robotic lawnmowers, which can be found on our website.  Built for the topseller for STORM robot, we recommend:

## Reversible Blades



*https://am-robots.com/shop/blades/storm/storm-reversible-blades/*

## Garages




*https://am-robots.com/shop/garages/the-cube/*

## Cleaning kit and tool




*https://am-robots.com/product-category/others/cleaning-tool/*

## Hybrid grass



*https://am-robots.com/shop/hybrid-grass/am-hybrid-grass/*

# Accessories




Large, Black SKU: 38980299
Large, Nature SKU: 38980296
Medium, Black SKU: 38980298
Medium, Nature SKU: 38980295

## The Cube

**New roof access on all four models.**

- Great airflow
- Adjustable curtains - Shortened for better function
- Access to the robot from the top

| | |
|---|---|
| The Cube - Large black | Door size: 65cm x 40cm Length: 104cm |
| The Cube - Medium black | Door size: 56cm x 35cm Length: 93cm |
| The Cube - Large nature | Door size: 65cm x 40cm Length: 104cm |
| The Cube - Medium nature | Door size: 56cm x 35cm Length: 93cm |



Medium SKU: 38501696
Large SKU: 38501697

## AM Garage 1

**Tinted roof for extra sun protection.**

- With see through, black shaded roof
- Great value for money

| | |
|---|---|
| AM Garage 1 - Medium | Size: 60cm x 42cm x 80cm |
| AM Garage 1 - Large | Size: 77cm x 45,5cm x 103cm |




Plus - Red SKU: 38983397
Compact - Red SKU: 38943398

## My Robot Home Plus/Compact

**New and improved door mechanism.**

- Auto-mechanical door that opens and closes automatically
- Access the robot from the top
- 2025 news: Fewer parts, faster installation

| | |
|---|---|
| My Robot Home Plus - Red | Door size: 70cm x 37cm Length: 104cm |
| My Robot Home Compact - Red | Door size: 55cm x 31cm Length: 76cm |

*https://am-robots.com/product-category/garages/*



# Only for Professional Dealers

## Your Benefits as an AM ROBOTS Dealer

- **Free STORM Trial**
  Try STORM hands-on before making your purchase decision.
- **Fast & Reliable Dealer Support**
  Professional support, answers and solutions within 36 working hours.
- **Attractive Payment Terms**
  Flexible payment conditions for approved dealers.
- **Early Product Access**
  Get early access and try our latest products and newest technology.
- **Exclusive B2B Sales**
  We sell exclusively through professional dealers – never directly to end customers.
- **Approved Dealer Network**
  A professional network of selected and approved dealers.

## Become a STORM Dealer

- **Training**
  Get to know STORM, its technology and USP's.
- **2–3 Week Trial**
  Try STORM hands-on and demonstrate it to your customers.
- **Approval & Dealer Access**
  Once established as an official dealer, you'll be listed on our "Find a Dealer" map, making your dealership visible to local customers.

**SIGN UP TODAY**

INTERNATIONAL EVALUATION OF AGRICULTURAL MECHANIZATION
AND EQUIPMENT

# AGRA

Pomurski sejem d.o.o
Gornja Radgona

M • E • D • N • A • R • O • D • N • I
K • M • E • T • I • J • S • K • O – Ž • I • V • I • L • S • K • I • • S • E • J • E • M

# 2025

# Gold Medal

*received by*

AM - Robots

Z • A

B/I AM-Robots STORM 4000




Predsednik
ocenjavalne komisije
doc. dr. Peter Vindiš

Pomurski sejem d/o.o
Predsednik uprave
Janez Erjavec

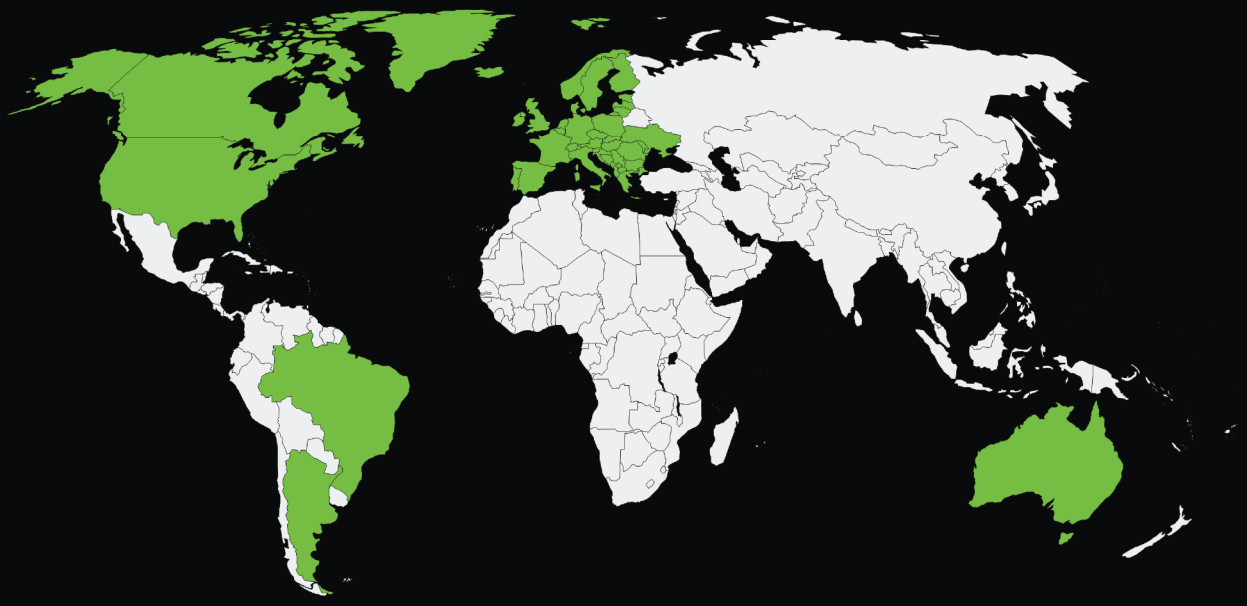
POMURSKI SEJEM

# STORM®

## BY AM ROBOTS

STORM ROBOT | 800 – 6.500m²

## INSTALLERS WORLDWIDE USE OUR PRODUCTS



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