



MRAZ
ROBOTICS

**AUTONOMOUS MOBILE
ROBOT MRAZ3**



FIRST ROBOT CAPABLE OF AUTONOMOUS
MEASUREMENT

AUTONOMOUS MOBILE ROBOT MRAZ3

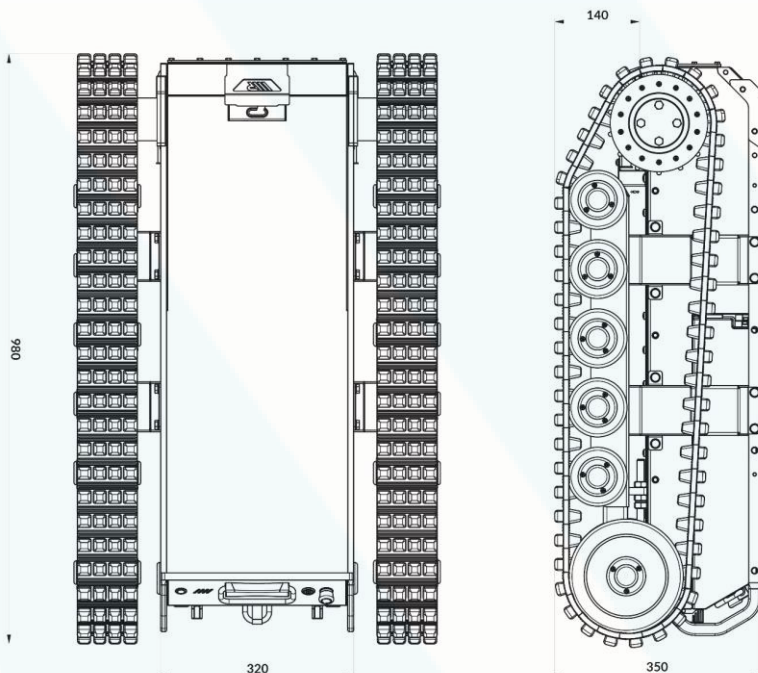


MRAZ3 robot performs difficult industrial tasks even in areas where people are not allowed. The robot is completely sealed and over pressured.

It's the first robot in the world capable of autonomous measurements in marked area-based projects or point to point-based projects.

Parameters

Material	stainless steel
Maximum speed	10 km/h
Battery capacity	77Ah at 48V
Battery life	12 hours
Scanning speed	5000m ² /h
Payload	400 kg
Replacing battery time	10 s
IP	67
Climbing	up to 40 degrees



MRAZ3 robot uses an artificial intelligence to navigate and postprocess measured data. Also, the robot is able to **create its own map** based on **neural network video analysis**.

Notifications are transmitted to any distance and to any platform. Operation can be even watched **online** by several users. **All data is stored in the cloud**, which means they are always accessible.

APPLICATION AREAS OF MRAZ3



SECURITY GUARD



**GEORADAR
MEASUREMENTS**



**TOXIC WATER
NEUTRALISATION**



**FIREFIGHTING
INTERVENTION**



FOG DISINFECTION



APPLICATION SECURITY GUARD

A fully autonomous mobile diagnostic robot increases the efficiency and quality of routine train parts inspection.

Scanning is processed by multiple sensors and multiple cameras (infrared, thermal).



Current inspection methods rely on repetitive and sometimes demanding tasks, defects can be hidden, undiscovered that can lead to components failure and infrastructure limitations.

Our device helps with standardizing inspection protocols, shorten the time, improving data quality and consistency.





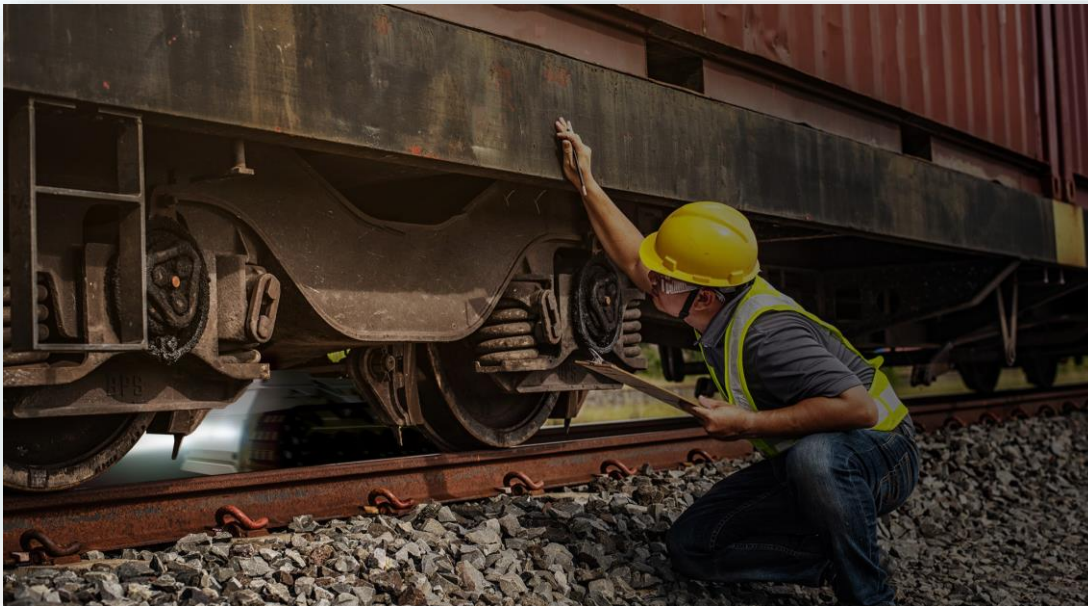
APPLICATION SECURITY GUARD

The device can reliably detect emerging damage, violation of material integrity, damaged cabling, loose connections and much more.

If the problem is detected, it marks it in the log and continues scanning. It displays all collected data in a consistent format with adequate indication of place, time and other parameters.

USE CASES

- train and truck chassis investigation
- regular infrastructure investigation
- energy system investigation
- security service
- gas investigation
- corrosion detection





APPLICATION GEORADAR MEASUREMENTS








A fully autonomous mobile robot with integrated GPR technology developed for on-line locating, 2D GPR profiling and 3D GPR projects for analyzing and mapping underground structures and objects.

MRAZ3 GPR allows locating underground structures and objects made of all types of materials. Measurement GPR data can be further processed, analyzed and attached to geodetic maps.

USE CASES

- locating of pipes and cables
- road cavities investigation
- investigation of ice and snow
- concrete construction
- military and civil investigation
- utility locating
- dam safety, tunnel inspection
- bedrock mapping
- archeological prospection
- mapping of waste deposit

MRAZ3	VS	OTHER SOLUTIONS
	OPERATOR <small>(big area)</small>	 
  	SPEED	
	OPERATING TIME PER DAY	 DURING DAYLIGHT
AUTOMATIC	PROFILES IN 3D PROJECT	MANUAL
AUTOMATIC	DATA ACQUISITION	MANUAL





APPLICATION FIREFIGHTING INTERVENTION

Firefighting robot assists fire brigade in reducing heat, cooling pressure tanks, preventing the spread of large fire outbreaks, or completely extinguishing fires.

Designed for intervention and fighting fires in high risk and dangerous areas.



USE CASES

- firefighting in tunnels, buildings
- cooling of overheated materials
- intervention in toxic or overheated environment

Part of the device is a type B flow line, which allows extinguishing in the maximum range of 1600 liters per minute. The streamer is fully adjustable in two axes and **allows setting the type of stream.**





APPLICATION FOG DESINFECTION











SAFE PUBLIC PLACES WITH NO EFFORT


A fully autonomous mobile robot with fog disinfection effectively disinfects outdoor areas, benches, tables in parks, terraces, playgrounds, climbing frames and other urban property.

The robot disinfects the interior and exterior, disinfection nozzles provide spraying at an angle of 360 degrees to a distance of 2 meters from the central axis of the robot.

It contains 2 separate containers for disinfectant in a liquid state in a total volume of 50 liters. The filling tank is located at the top of the tank. The massive construction of the crawler robotic platform ensures high stability and load-bearing capacity.



MRAZ3	VS	OTHER SOLUTIONS
	OPERATOR	
	SPEED	
	COST	
	OPERATING TIME PER DAY	 DURING DAYLIGHT
AUTOMATIC	TRAJECTORY GRID	MANUAL



COOPERATION

Order our service – Don't have the time, but need professional results? We will do your job for you with MRAZ3! Our specialists in robotics can present you ability of MRAZ3 technologies and deliver results way better than competitive technologies!

Early Adopter Program (EAP) – Get exclusive early access to our technologies before they are released to the public. Simply apply to become an EAP member and get exclusive access to edge robotic technology and privileges. Join strategic partnership today!

WHY BECOME AN EARLY ADOPTER?



Private Community group



Exclusive EAP Member Hub



Shape the product roadmap



Unique Webinars



Early access to new capabilities



Contribute feedback



Build and test new solutions



SAFETY AND TRAINING



Robot MRAZ3 fulfills **European industry standards** and holds **CE certificate**.
Mraz robotics recommends 3 days training of manipulation with MRAZ3 platform and one additional day of manipulation with a selected application.

ARE YOU INTERESTED IN OUR SOLUTIONS?

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