

# MRAZ3

## AGRICULTURAL ROBOT

### DATA SHEET



A mobile robot has been meticulously designed with the physical dimensions necessary for seamless maneuverability in orchards and vineyards. Its compact width allows it to navigate through narrow spaces between rows with a width of only 1 meter. This level of flexibility and adaptability empowers farmers and growers to optimize their spraying and fertilization processes.

- spray nozzles
- 2 containers for necessary fluids
- MRAZ3 robot platform
- front camera

Semi-autonomous control

Operates 24/7

Volume 50 liters

## CONTROL

The UGV MRAZ3 is controlled manually with 16 channel manual controller or autonomous control in marked area-based or point to point-based projects. All autonomous operations can be watched online and controlled by an operator from remote controller or a monitoring center. The autonomous UGV recognizes object based on the neural network library of predefined object. The objects can be customized according the requests of the client.

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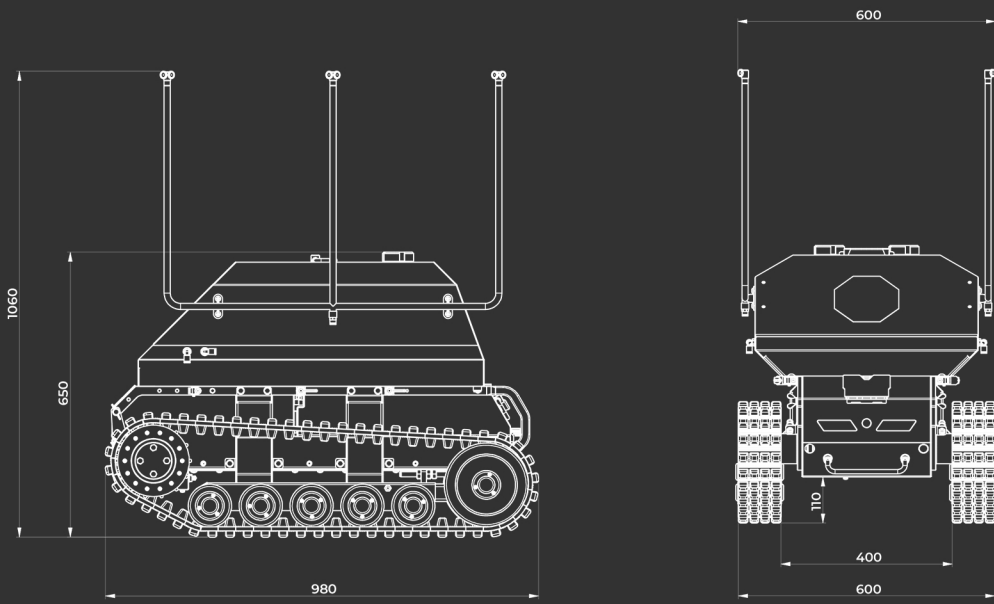
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Our robot is not just a labor-saving device. It is a comprehensive data-driven management system for orchards and vineyards. It significantly contributes to the protection of the health of farmers who are not exposed to the effects of applied substances.

## DIMENSIONS OF MRAZ3 AGR



## USE CASES

- deployable in all environments
- optimize spraying and fertilization processes
- application of pesticides, fungicides, herbicides, insecticides
- enhances overall efficiency and productivity

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### PARAMETERS

Material	<b>stainless steel</b>
Material of crawler	<b>rubber</b>
Maximum speed	<b>10 km/h</b>
Battery capacity	<b>77Ah at 48V</b>
Battery life	<b>8 - 12 hours (depends on climatic and terrain conditions)</b>
Payload	<b>400 kg</b>
Pulling	<b>300 kg</b>
Replacing battery	<b>10 sec</b>
IP	<b>67</b>
Climbing	<b>up to 40 degrees</b>
Stairs climbing	<b>Yes</b>
Over-obstacle capacity	<b>Max 250 mm (height)</b>
Weight	<b>120 kg</b>
Control	<b>Manual or autonomous (optional)</b>
Manual remote-control distance	<b>Max 2 km (without obstacles)</b>
Number of cameras	<b>2 x 1080p 2Mpx - front and rear</b>
Thermal camera	<b>Integrated (integrated on mechanical pole - optional)</b>
GPS	<b>Yes - F9P and RTK</b>
GPS precision	<b>1-100 mm</b>
Separate front and rear spray	<b>Yes</b>
Separate side spray	<b>Yes</b>
Side tilt	<b>Max. 20°</b>
Increased durability	<b>Yes</b>
Controller	<b>16 channel with 6" color display</b>



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