

MRAZ3

FIREFIGHTING INTERVENTION

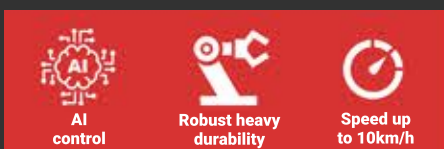
DATA SHEET



Firefighting robot assists fire brigade in reducing heat, cooling pressure tanks, preventing the spread of large fire outbreaks or completely extinguishing fires. The robot significantly reducing the risk of firefighter injuries and equipment damage. Designed for intervention and fighting fires in high risk and dangerous areas.



- firefighting relay
- connected hose type C
- MRAZ3 robot platform
- front camera



ROBOTIC WATER CANNON
 Movement along the horizontal axis: **+180°, -180°**
 Movement along the vertical axis: **+90°, -45°**
 Thermal camera: **temperature range 20-400°C**

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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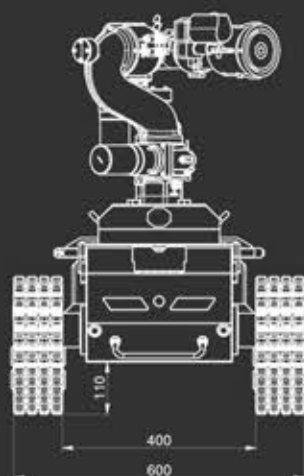
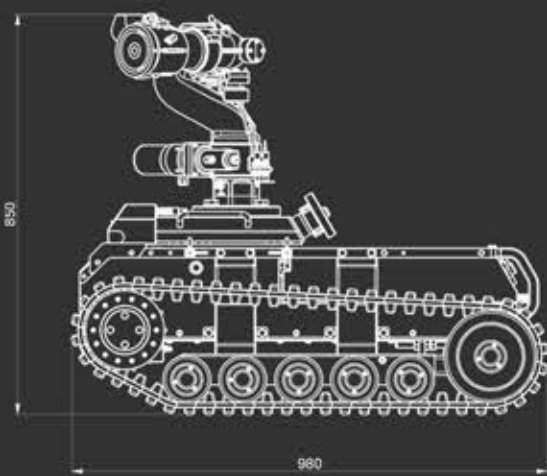
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The robot has a streamline that allows the connection of hose type C which enables extinguishing in the maximum range of 1600 liters per minute. The streamer is fully adjustable in two axes and allows setting the type of stream: 1. Contact stream, 2. Diffuse stream, 3. Wall stream.

DIMENSIONS OF MRAZ3 FFI



USE CASES

- deployable in all environments
- firefighting in narrow places and tunnels
- cooling overheated materials
- intervention in contaminated, toxic or overheated environment

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PARAMETERS

Material	stainless steel
Material of crawler	rubber
Maximum speed	10 km/h
Battery capacity	77Ah at 48V
Battery life	8 - 12 hours (depends on climatic and terrain conditions)
Payload	400 kg
Pulling	300 kg
Replacing battery	10 sec
IP	67
Climbing	up to 40 degrees
Stairs climbing	Yes
Over-obstacle capacity	Max 250 mm (height)
Weight	120 kg
Control	Manual or autonomous (optional)
Manual remote-control distance	Max 2 km (without obstacles)
Number of cameras	2 x 1080p 2Mpx - front and rear
Thermal camera	Yes
GPS	Yes - F9P and RTK
GPS precision	1-100 mm
Number of streams	Adjustable stream - 3 types
Water jet range	Max 65m (compact jet)
Max. water pressure	1MPa, 10bar
Side tilt	Max. 20°
Increased durability	Yes
Explosion resistance	Limited
Controller	16 channel with 6" color display

Award-winning exhibit of Golden IDET 2023 - The Honorable Mention for Innovation Golden IDET 2023.



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