



FIRE FIGHTING ROBOT MRX



The MRX is a Mini Firefighting Robot whose size allows it to fit in the locker of a van! Ultra light (75 K) but powerful and easy to control, it is quickly operational on a fire, whether it is an underground car park or the 20th floor of a high-rise building!

Composed of a motorized tracked platform, a lithium battery, a remote control and a motorized water cannon, the compactness of the MRX allows rapid access to a limited space for extinguishing operations with optimal safety for the firefighters. The water flow of the water cannon is 1100 Lp/m with a range of more than 30 m under a pressure of 8 bars.

Traction force: > 400 N (or 40 m of full hose Ø 70)
 Battery life while moving: 2 hours.
 Operating time: 16 hours.

Operators can control the robot in real time from 200 meters away, protected from heat, toxic gases and the risk of explosions or collapse.

Two sprinklers provide a curtain of water to protect all thermal radiation. Side lighting details the environment and signals the location of the robot to responders.

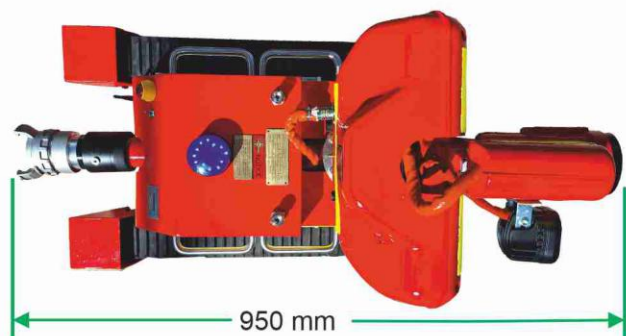
Optional thermal & visual camera with 4/5G or WIFI transmission

Monitor 1100 L/min. Orientation angles: -70° horizontally -120°



ROBOT MRX TECHNICAL SHEET

ROBOT	
Dimensions	L950 X W490 X H620 mm (including horizontal water cannon and hose connection)
Weight	< 75 Kg (without option)
Tracks	All terrain flame retardant rubber
Power supply	Lithium ion battery, 24V 34 Ah
Motors	2,3 KW electric driven servo motors
Travelling Speed	1,0 m/s
Crossing Height	70/100 mm
Climbing Angle	>30° (slope, stairs)
Traction Force	> 400 N (30 m of full diam.70 hose)
Rotation radius	Rotation in place
Control Mode	Remote Control
Continuous Travel Duration	2 hours
Continuous Work Duration	16 hours
Continuous Travel Duration	2 hours
Continuous Work Duration	16 hours
Charging period	2 hours to go from 20% to 100%
Lighting	Side LED strips and projector fixed to the monitor, operated by remote control.
Protection Grade	IP65, water-proof
Self-cooling	By 2 sprinklers from the start of watering.
REMOTE	
Dimensions and weight	L230*W140*H40mm, 1,6Kg
Protection Grade	IP65, water-proof
Power supply	Lithium ion battery. 4,2V. 500 Cycles.
Working period	72 hours
Charging period	2 hours
Control Distance	200 m
WATER CANNON (Detachable)	
Material	Body: 304 stainless steel, Head: hard aluminum alloy
Work Pressure	6 to 8 bars
Maximum Work Pressure	10 bars
Spray Mode	Waterspout / Water mist (Switchable during work)
Rated Water Flow	1100 L/min
Shoot Range	40m (8 bars)
Rotation Angle	Horizontally 70°, Vertically ≥70°
Automatic oscillation	Remote controlled (90°)
Hose Connector & Size	DN65 x 1, with 1.5 inch or 2.5 inch hose
Solenoid valve	Remote controlled
OPTIONS	
Thermal and visual camera	Foam tube
Accessory support basket	Fan support



If operating in puddles or submerged areas, the water level must not exceed the tracks and the immersion must not last more than 90 minutes.

The sprinklers allow the MRX to be exposed to high temperatures.

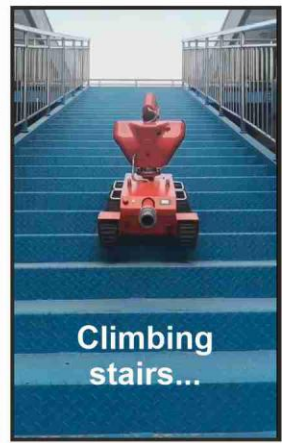
2 years warranty. After-sales service at JCM distribution.

Fiche technique MRX - SEPTEMBRE 2023



FIREFIGHTING ROBOT MRX

Below progressive transition from
straight jet (30 m range) to
diffused jet (8 m diameter)



Climbing
stairs...

Below, for an
apartment fire ,
the fire fighters
placed the MRX
in a basket to
finalize an
extinction
upstairs...



The MRX can tow 40 m
of full hose in diam. 70
and much more with our
roller supports.



Pilot training in a fire
container.



Two MRXs on factory fire.
Operators remain protected
from toxic gases, heat and the
risk of collapse or explosion...



TESTS in a tunnel:
piloting at a
distance of more
than 200 m.

