



We are everywhere

to serve.

Cobra-1

Portable Fire & Rescue Robot



HENAN SISANLIN INDUSTRIES CO., LTD.

100 East, Dongting River and Ruhe River Cross Road,
Pubei Industrial Zone, Changyuan City, Xinxiang,
Henan-453400, ChinaT: +86-373-8877430

T: +86-373-8877430

M: +86-15993043057

E: sales@fourrobot.com

www.fourrobot.com

All copyrights reserved by Sisanlin Industries. (SSLBN-011)

Subscribe "FOUROBOT" @ YouTube

Robot Fire Fighter

1. Exposable to lethal environment
2. Remote control from a safe distance
3. Save hands of human fire fighters
4. Increase fire fighting efficiency & safety
5. Endurable to all tough tasks
6. Robot can protect itself
7. Affordable to loss

V S

Human Fire Fighter

1. NOT exposable to lethal environment
2. Have to be close to fire scene
3. Need more hands to hold steady of monitor
4. Efficiency depends on human physical strength
5. Need to rest and refreshment
6. Need to wear PPE to get protected
7. NOT affordable to loss



Safer



Danger

NOT *let human fire fighters do what robots already can.*

Easy to Transport

The mini size of robot allows it to be easily fit into a fire truck cabinet, making it easier to transport.



Faster to Deploy and Retrieve

The light weight robot (60Kg) allows 2 human fire fighters to carry to fire scenes such as higher floors of buildings, tanker truck fire on highways, forests, and etc, making it faster to deploy to a fire site and faster to retrieve later from the scene.



Cobra-1

Portable Fire & Rescue Robot

*Small but
Tough*



Cobra-1

Portable Fire & Rescue Robot

*Ready to
fight...*



Cobra-1

Portable Fire & Rescue Robot

*... in
real
battles.*



About us

fourrobot® is a brand name of SISANLIN INDUSTRIES, an ISO9001, ISO14001, OHSAS18001 and CE certified manufacturer of special robots, such as fire robots, rescue robots, patrol robots, police robots, military robots, fire fighting ATVs, and police ATVs.

With dedicated efforts into special robot industry, we have developed more than 30 patent rights in the area of industrial design, electrical engineering, wireless control and software. With our years of experience and knowledge, we give assurance to our customers with products of good performance and quality. With our world-wide distribution network, we guarantee the consistence of services and spare parts.

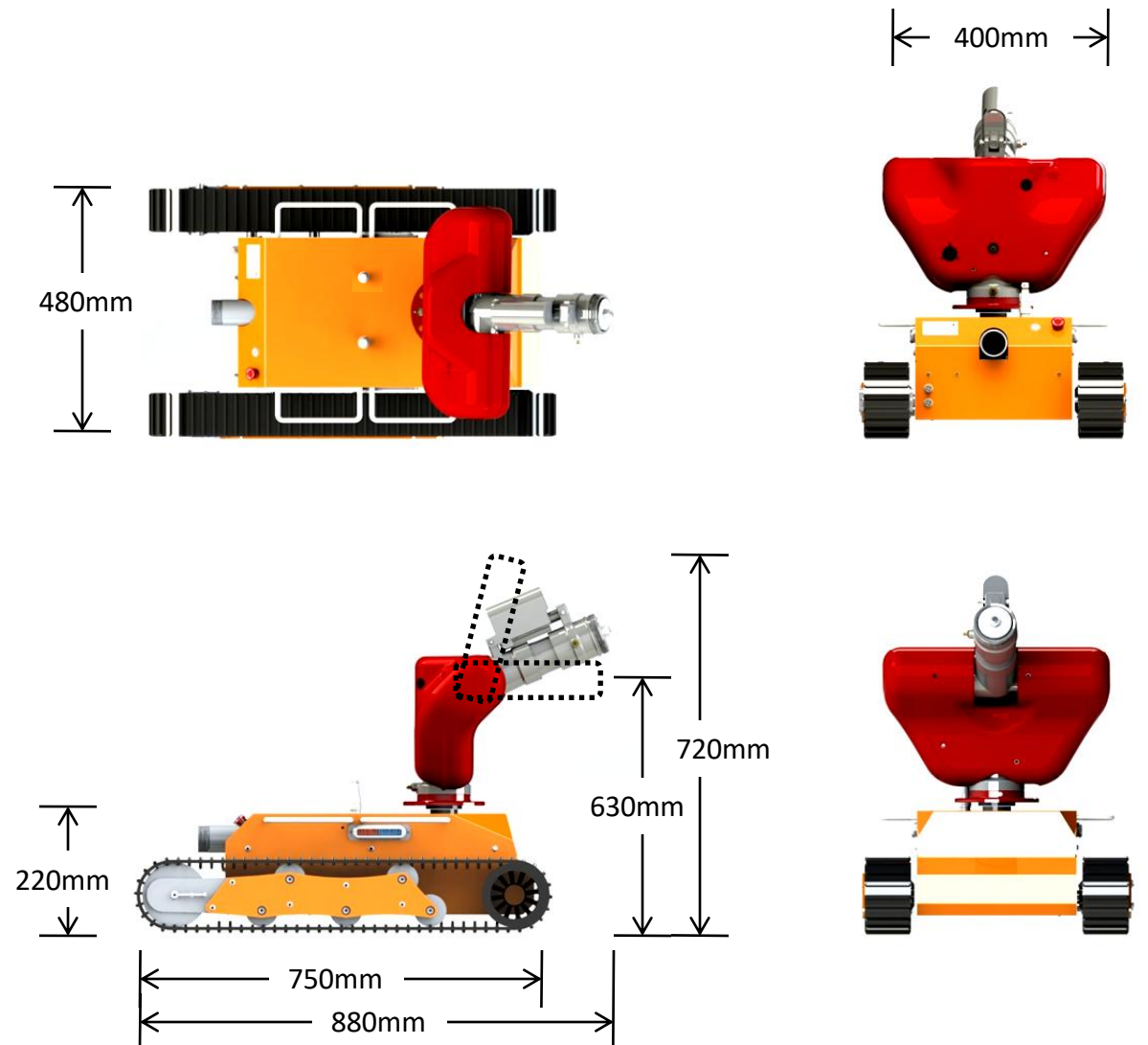


RXR-MC10400D-30

Portable Fire & Rescue Robot

This mini robot consists of robot platform, power pack, remote control, and water cannon. The mini size of the robot makes it quicker to deploy, easier to access to a limited space of a fire scene and handier to keep the robot in a fire truck cabinet after use. This robot is mainly used for fire fighting and rescue missions in cities, chemical industries, tunnels, airports, seaports, steel plants, and factory workshops. It has an important significance in improving the rescue security and reducing human fire-fighter casualties.

Product Appearance



Functions

FIRE FIGHTING

The rated water flow of the Water Cannon is 30L/s, with water spout shoot range over 40m under 0.8MPa water pressure. Real-time communication technology ensures transmission of data. The human fire-fighters can operate the robot at 200 meters distance away from the explosive and extremely hazardous fire scene while get the job done.

SELF-COOLING

The additional two sprayers can provide water curtain to protect the robot itself from heat radiation.

LIGHT ALARM

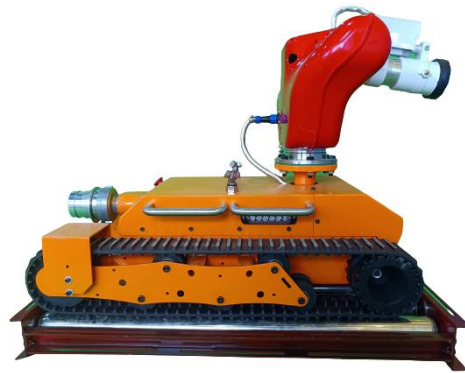
The light alarm system at both sides of the robot can give warning to its surroundings to ensure the safety when moving or when starting to move. And also can indicate robot location to operators.

COMMUNICATIONA SUPPORT (Optional)

Repeaters can be mounted on the robot increasing the wireless transmission distance to ensure the communication signals among fire fighters or between fire squad and the command center in case of an emergency.

ROLLER TRAY (Optional)

The fire truck compartment can be equipped with a roller tray, which is convenient for firefighters to put in or take out the robot from the fire truck compartment by sliding the robot on the roller tray.



WHEELED STRETCHER (Optional)

The robot can be equipped with a wheeled stretcher to carry the wounded personnel or materials such as oxygen cylinders, fire-fighting hatchets, break-in tools, water, foods, and other materials to save human fire fighters' energy.

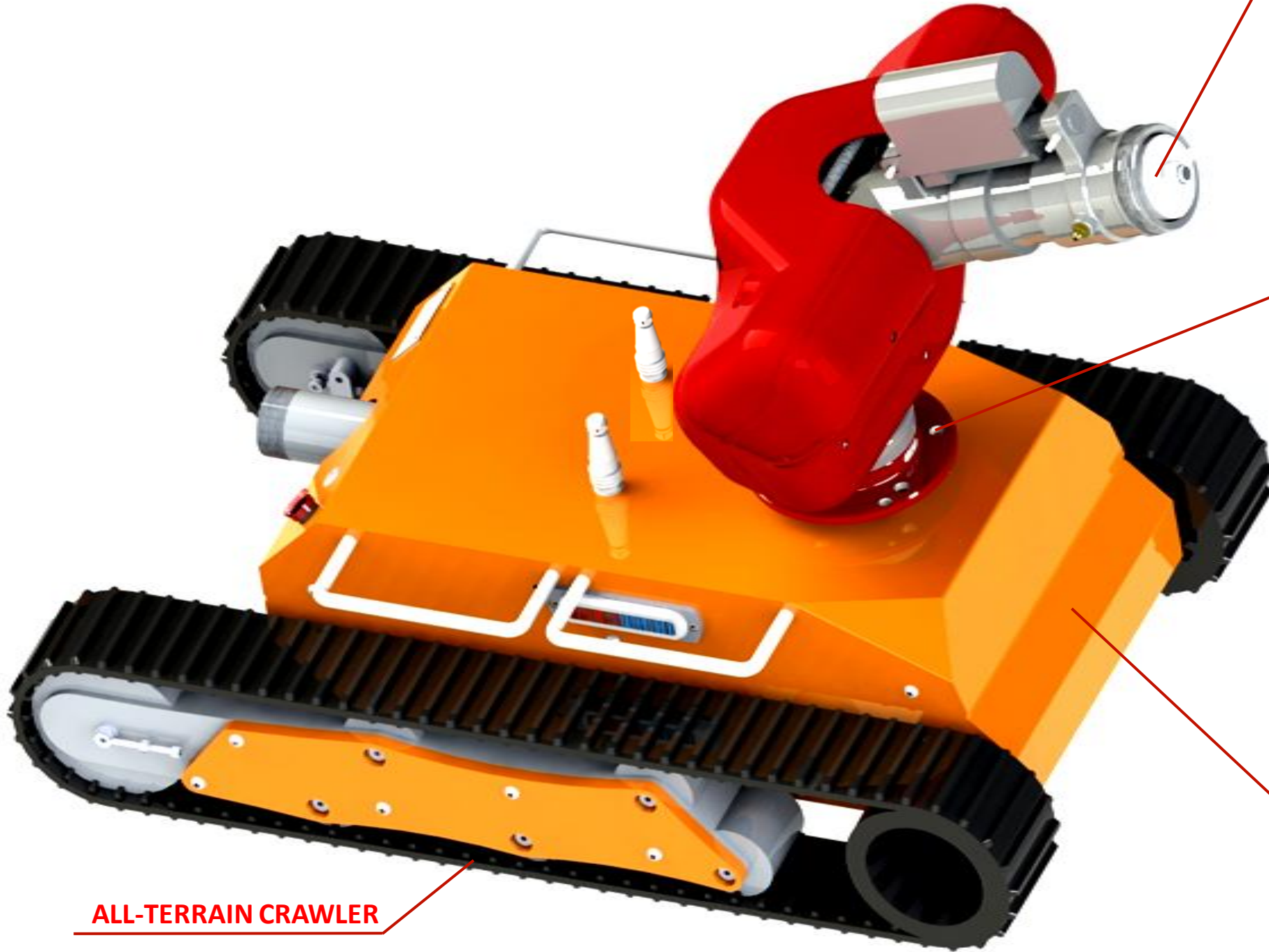


HOSE CARRIER(Optional)

The hose carrier can be used alone or in conjunction with the robot to reduce the contact area between the hose and the ground, thereby reducing the friction between the hose and the ground, and improving the hose arrangement and fire extinguishing efficiency.

Technical Specifications

RXR-MC10400D-30 / Portable Fire & Rescue Robot			
BASIC DATA			
Color (Optional)	Dark Grey / Dessert Yellow / Red / Blue / White		
Dimension	L750xW480xH720mm(including water cannon at 70° tilt angle & hose accessories)		
Weight	≤60kg(with all accessories)		
Crawler	All-terrain flame-resistant rubber crawler		
Power	Battery Pack, 24V 34AH		
Motor	2.3KW x 2 Electric Driven Servo Motor		
Travelling Speed	1.0m/s		
Crossing Height	70mm(without slope),100mm(with slope)		
Climbing Angle	≥30° (Slope)		
Traction Force	≥400N		
Turning Radius	Turning in place		
Control Mode	Remote Control		
Continuous Travel Duration	2 Hours		
Continuous Work Duration	16 Hours (without load)		
Control Distance	≥200m		
Protection Grade	IP65, water-proof		
WATER CANNON (Detachable)			
Extinguisher Types	Water		
Material	Body: 304 stainless steel, Head: hard aluminum alloy		
Work Pressure	0.8 Mpa (8kg/cm ²)		
Work Pressure Range	0.6~0.8 MPa		
Spray Mode	Waterspout / Water mist (Switchable during work)		
Rated Water Flow	30L/s (1800 L/min)		
Shoot Range	40m (@0.8MPa) (8kg/cm ²)		
Rotation Angle	Horizontally 70°, Vertically ≥70°		
Hose Connector & Size	DN40 x 1, with 1.5 inch or 2.5 inch hose connector		
CONFIGURATION			
Self-Cooling	Standard	Light Alarm	Standard
Charger	Standard	Roller Tray	Optional
Wheeled Stretcher	Optional	Hose Carrier	Optional



WATER CANNON

Rated Water Flow: 30L/s (1800 L/min)
Rated Pressure: 0.8 Mpa (8kg/cm²)
Horizontally ≥70°
Vertically ≥70°

WATER CANNON DETACHER

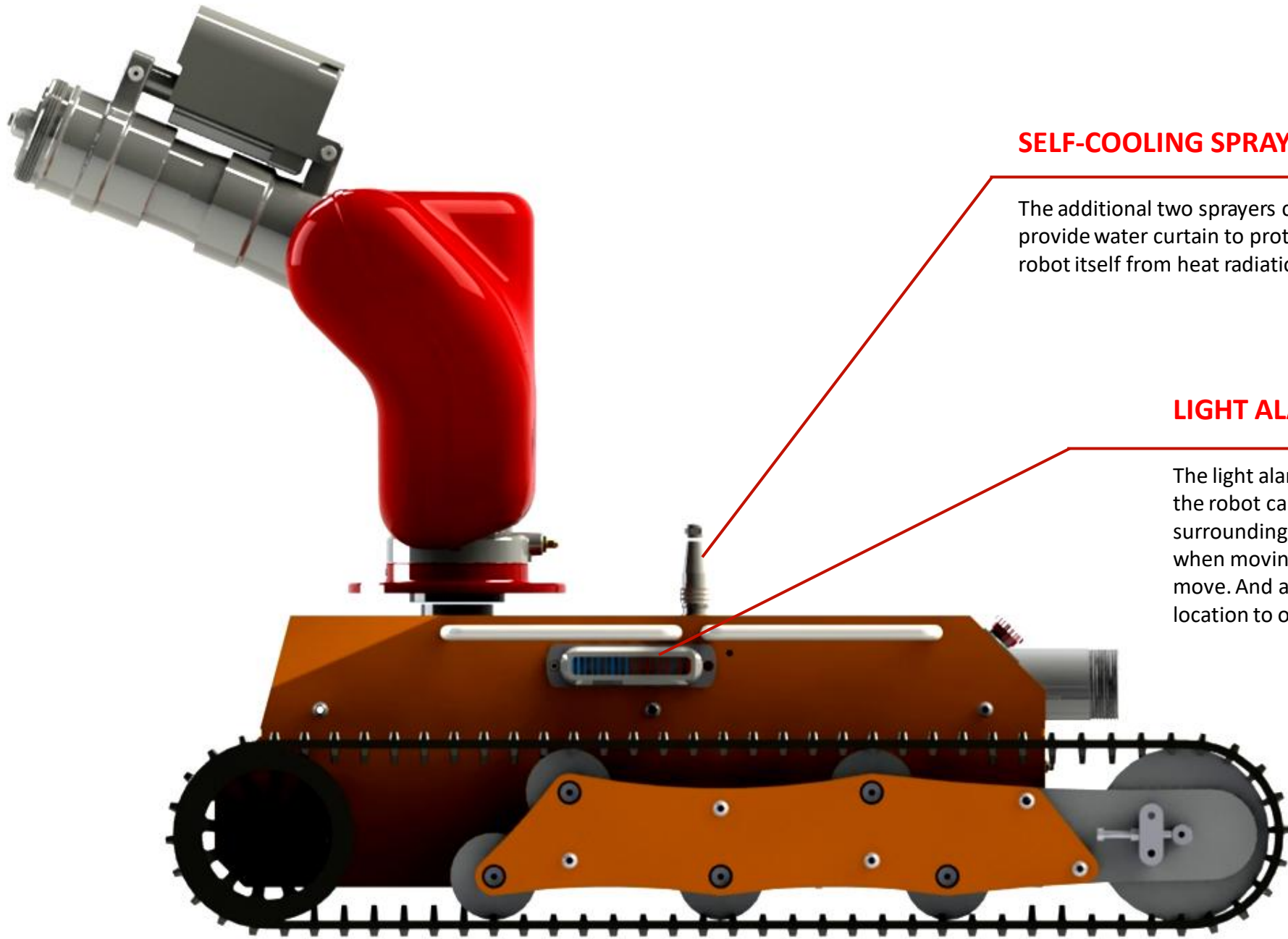
The water cannon can be manually bolted on & off in order to amount other module equipment such as Multi-function Bucket.

FRONT FACE DESIGN

Front face design applies armored vehicle, to ensure its off-road performance by minimizing the effects of resistance when crossing obstacles and when travelling over water.

ALL-TERRAIN CRAWLER

All-terrain flame-resistant rubber crawler



SELF-COOLING SPRAYER

The additional two sprayers can provide water curtain to protect the robot itself from heat radiation.

LIGHT ALARM

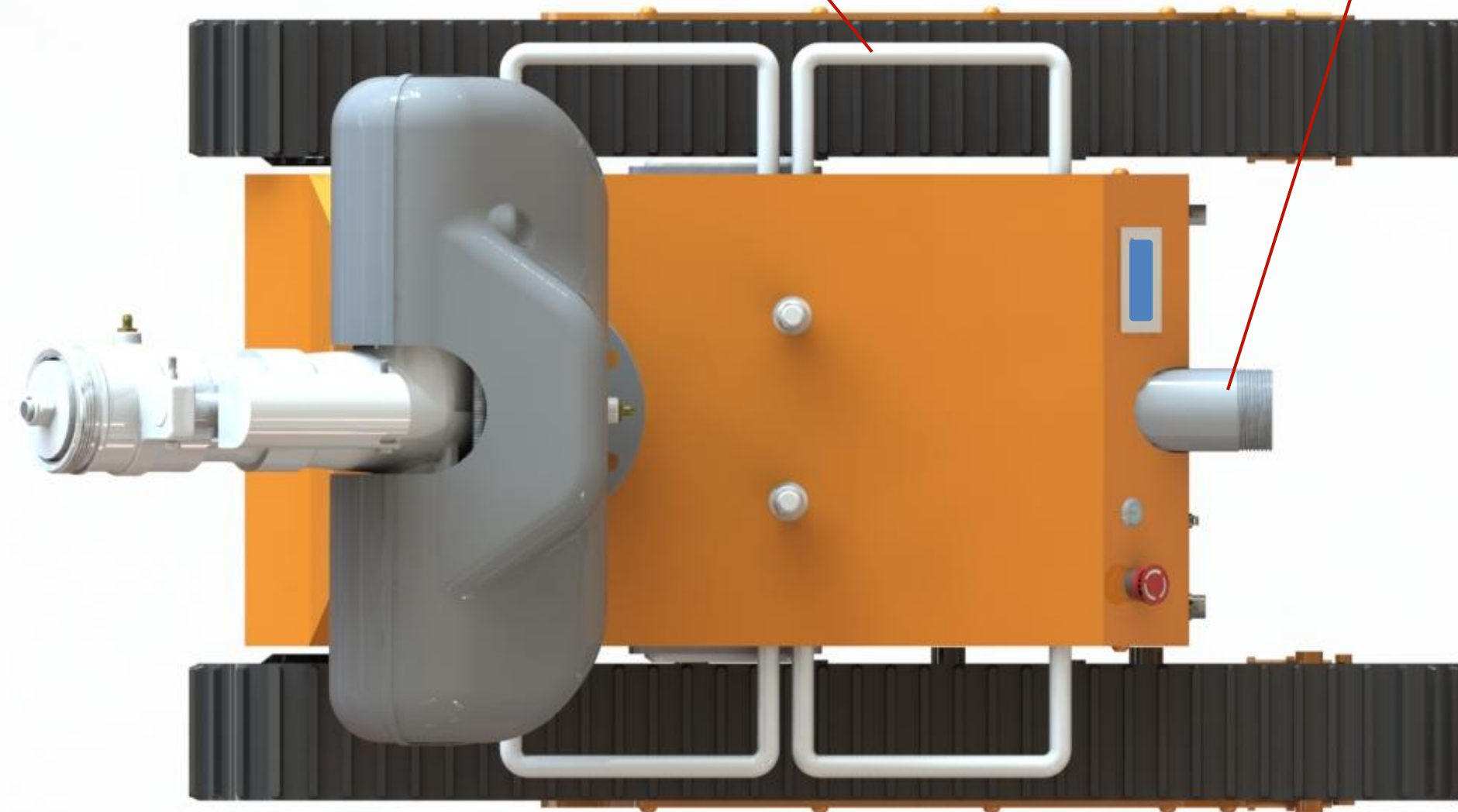
The light alarm system at both sides of the robot can give warning to its surroundings to ensure the safety when moving or when starting to move. And also can indicate robot location to operators.

HANDLE

2 handles at each side provide strong grabbing point for fire fighters to deploy or to retrieve. Extra space allows accessibility of hands in thick tactical gloves.

HOSE CONNECTOR

DN40 x 1 Hose
Plug-in type Hose Connector
Or French type, customizable
1.5 inch / 2.5 inch



On/Off Button

Robot will be power on/off when pushing this button.

EMERGENCY STOP

Robot will come to a full stop when pushing this button in case of an emergency.

DIGITAL ANTENNA

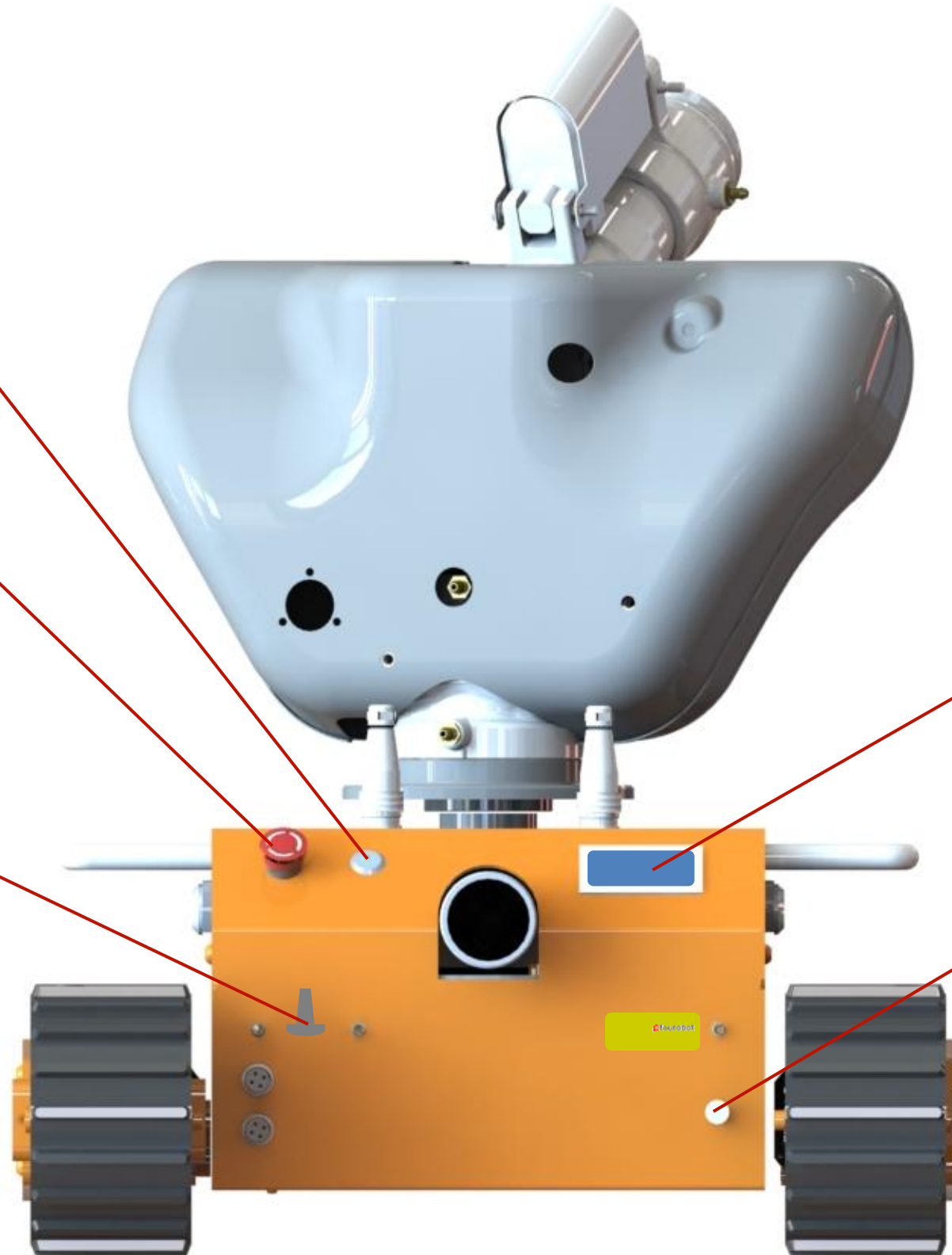
This digital antenna is designed to be more soft and flexible to protect itself from break when handling.
Transmission distance $\geq 200m$

POWER LEVEL INDICATOR

The power level indicator shows the real-time battery power level to remind operator when to recharge.

CHARGER PORT

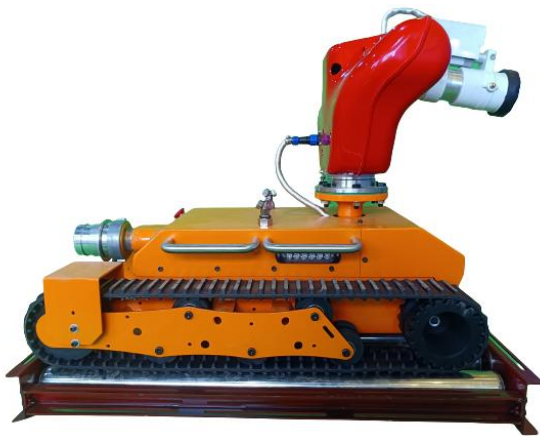
For robot recharging.



ROLLER TRAY

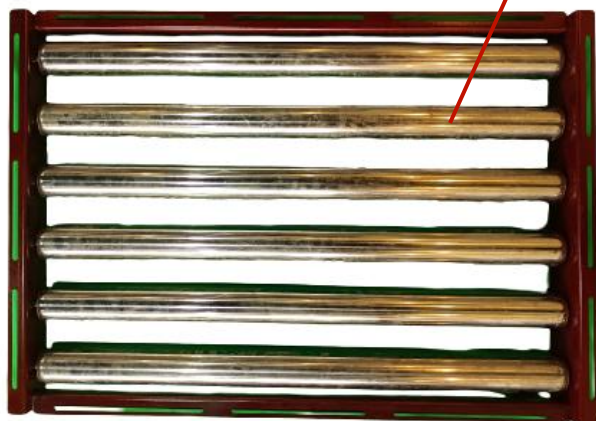
ROLLER TRAY (Optional)

The fire truck compartment can be equipped with a roller tray, which is convenient for firefighters to put in or take out the robot from the fire truck compartment by sliding the robot on the roller tray.



Roller Tray

Convenient for firefighters to put in or take out the robot from the fire truck compartment by sliding the robot on the roller tray.



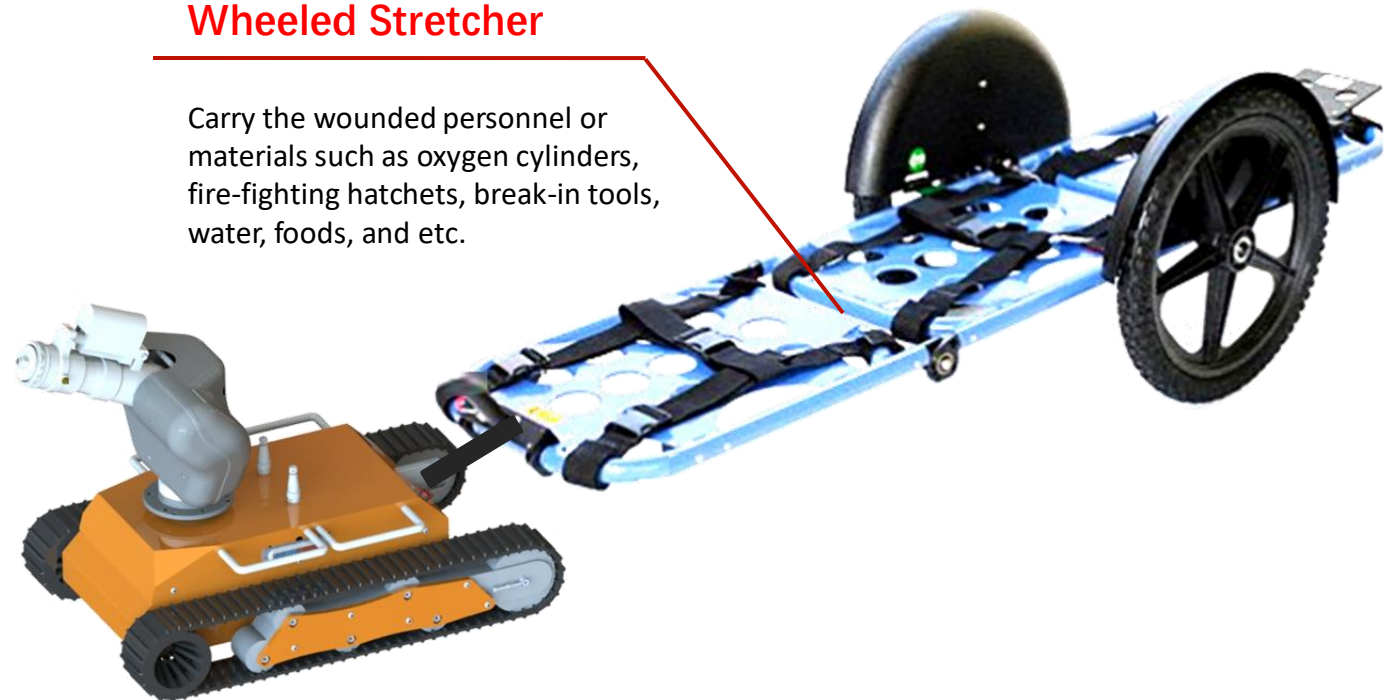
WHEELED STRETCHER

WHEELED STRETCHER (Optional)

The robot can be equipped with a wheeled stretcher to carry the wounded personnel or materials such as oxygen cylinders, fire-fighting hatchets, break-in tools, water, foods, and other materials to save human fire fighters' energy.

Wheeled Stretcher

Carry the wounded personnel or materials such as oxygen cylinders, fire-fighting hatchets, break-in tools, water, foods, and etc.



HOSE CARRIER

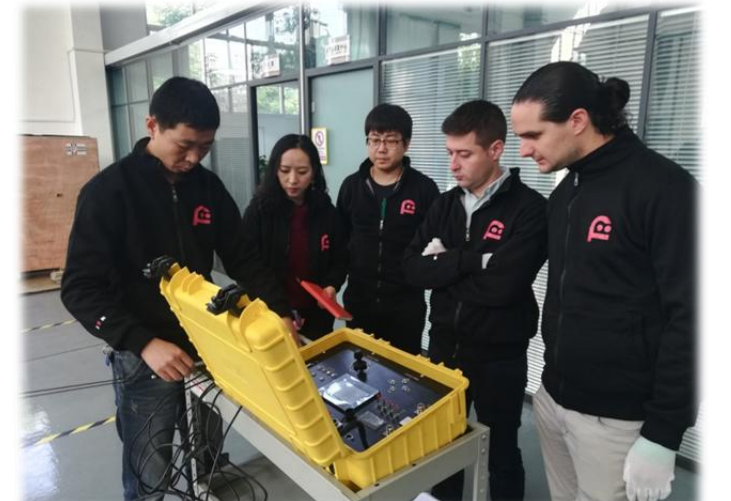
HOSE CARRIER(Optional)

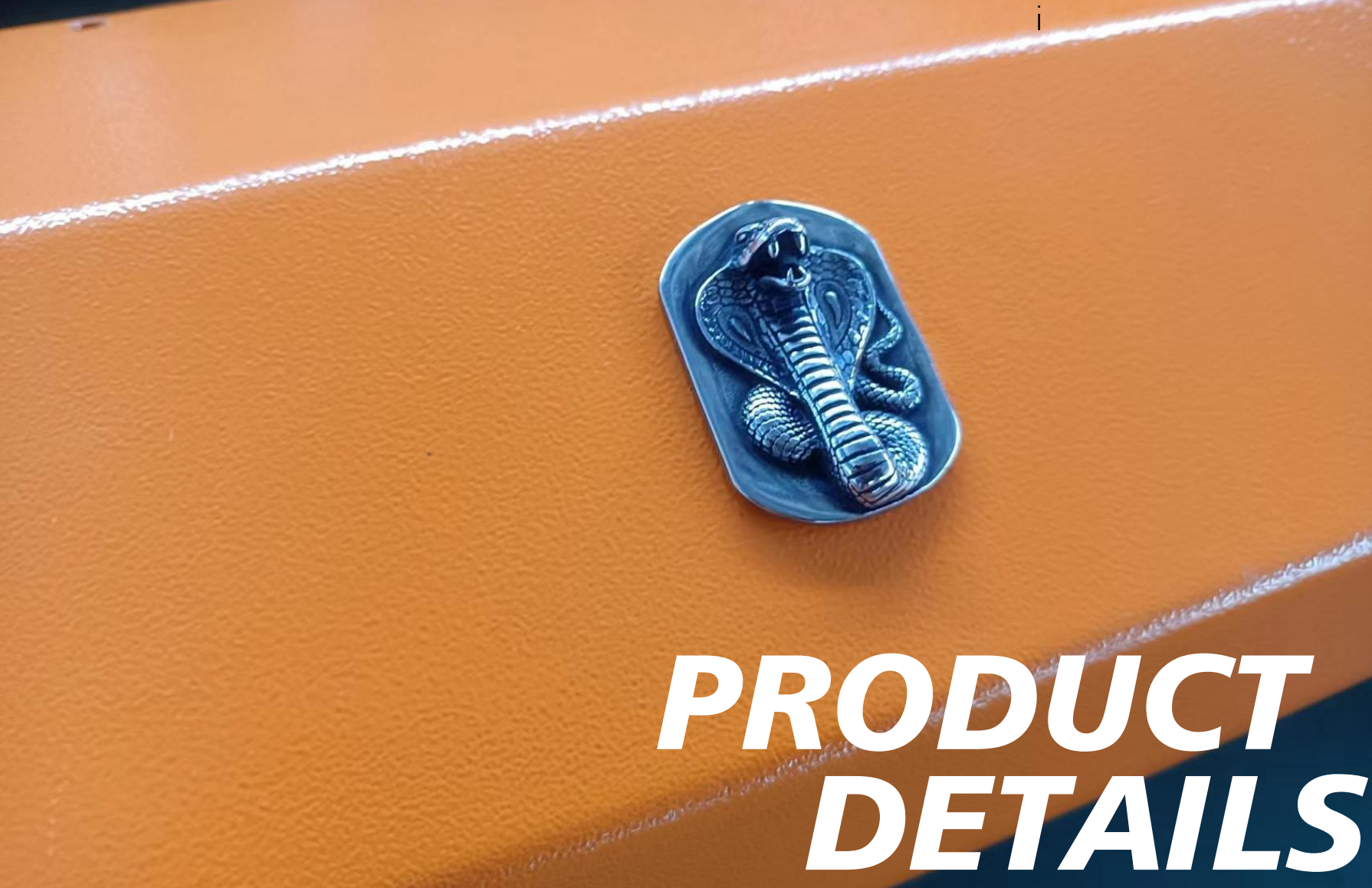
The hose carrier can be used alone or in conjunction with the robot to reduce the contact area between the hose and the ground, thereby reducing the friction between the hose and the ground, and improving the hose arrangement and fire extinguishing efficiency.



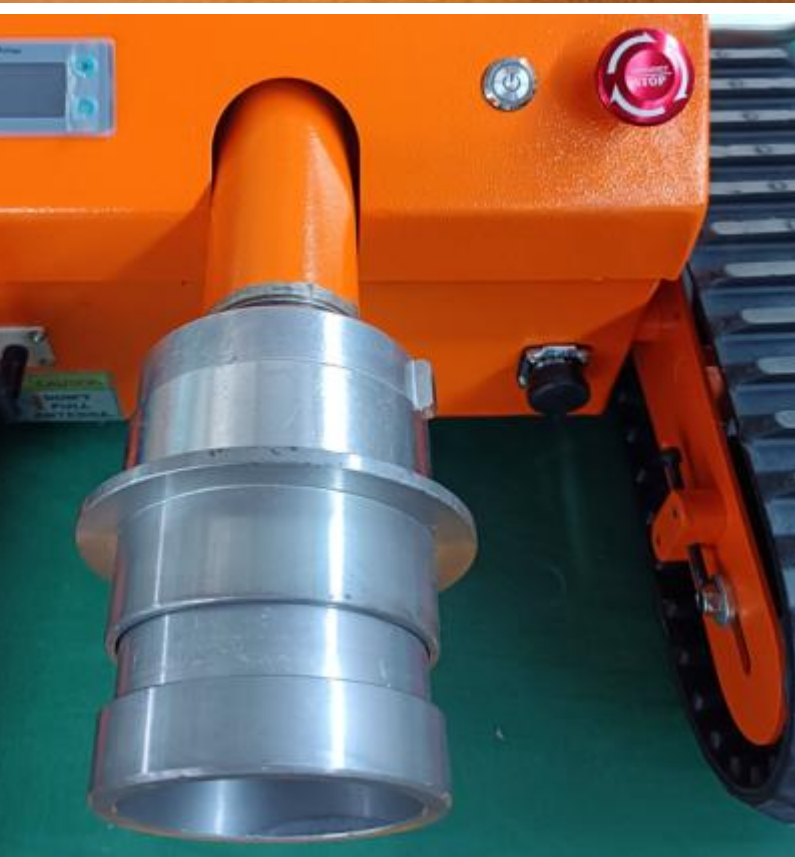
Factory

FOUROBOT was awarded the OHSAS 18001 which underscores our unwavering commitment towards achieving excellence throughout Sisanlin GROUP - particularly, in the way we improve our customer focus, our efforts to excel, to deliver quality throughout the FOUROBOT network, to encourage a culture of excellence in all of our people.





PRODUCT DETAILS





APPLICATION

fighting inside
High Building



fighting inside
Warehouse



APPLICATION

fighting inside
Public Building



fighting inside
Street Shop



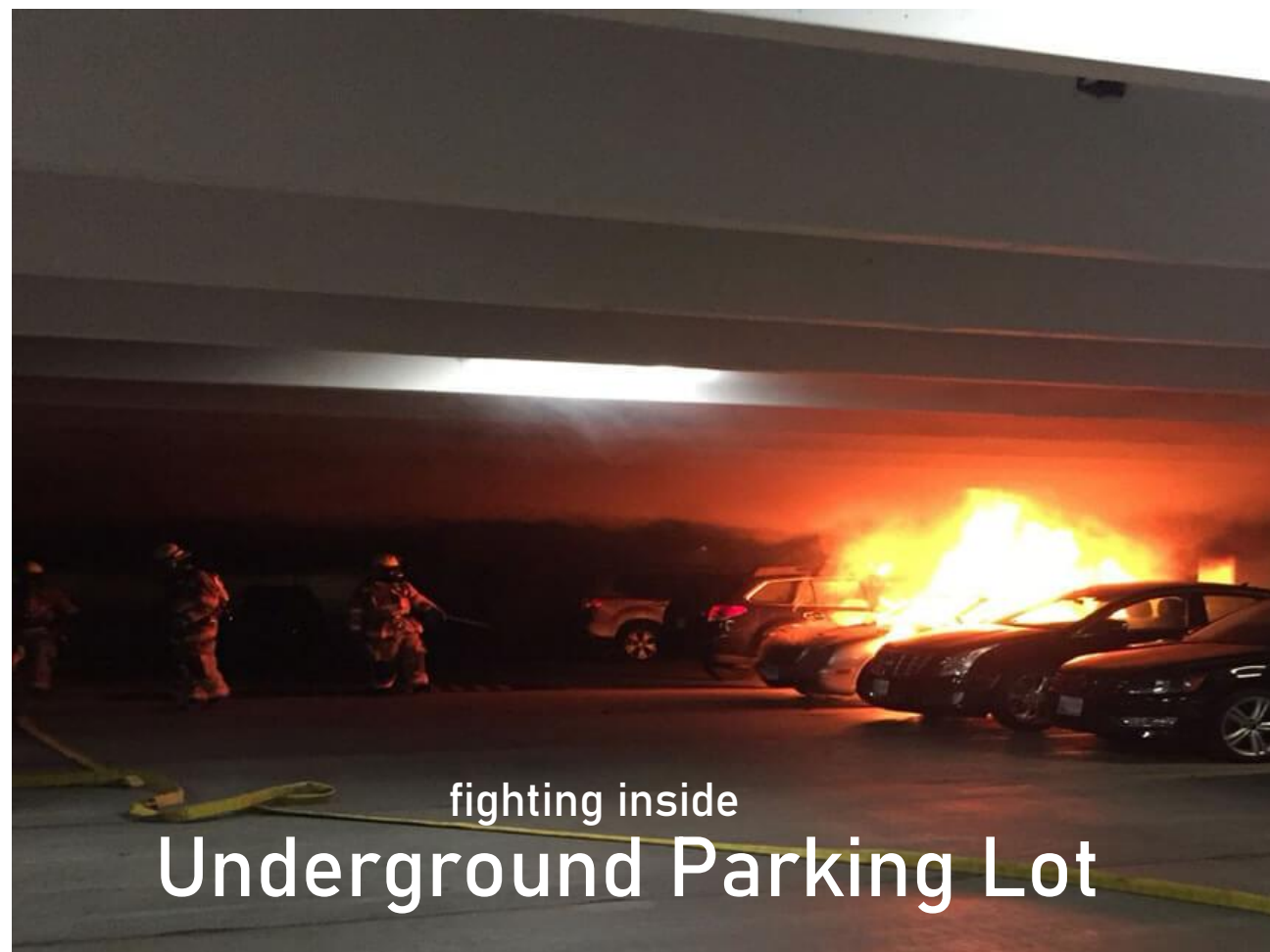
Transformer Substation



APPLICATION



fighting inside
Supermarket/Mall



fighting inside
Underground Parking Lot



Airplane



fighting inside
Ship



Chemical Plant



Oil Tanker Truck

APPLICATION