

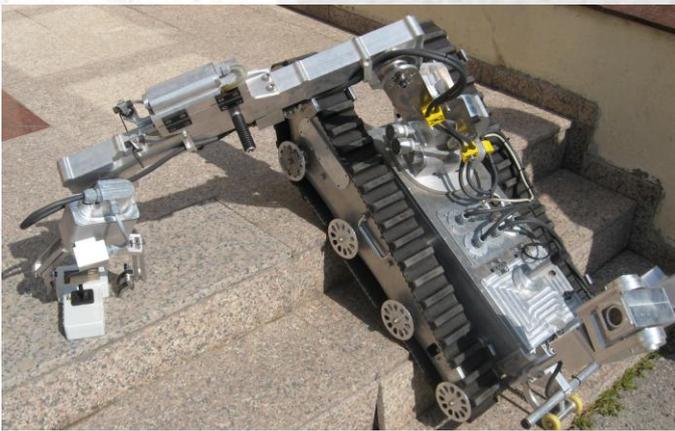
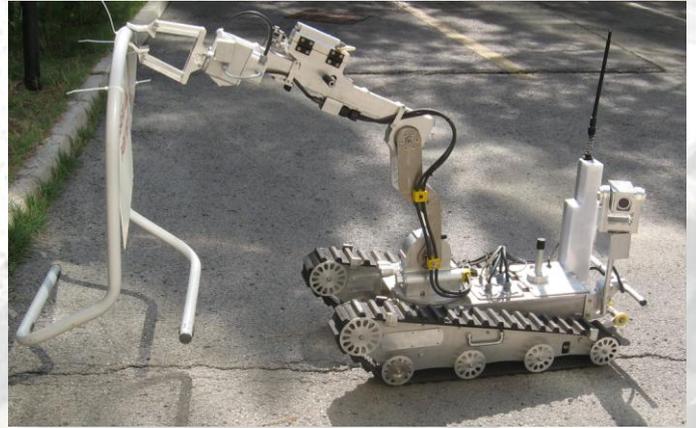
BOMBA İMHA ROBOTU – TANITIM BROŞÜRÜ

1.0 GENERAL FEATURES

ESR-EOD-1701-P Bomb Disposal Robot is an effective and safe solution that can be used to prevent loss of life or property in many different dangerous conditions.

- Bomb disposal
- Surveillance
- Search and rescue
- Taking images
- Unmanned reconnaissance

It can be used in different tasks such as:



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2.0 PHYSICAL PROPERTIES

***Weight :**

70.8 kg (weight without accessories)

***Dimensions:**

53cm width x 50cm height x 100cm length

Maximum height 150cm

Maximum length 185cm

***Maximum Speed:**

1.8 km/h (track) – 3 km/h (wheel)

***Capacity :**

5 kg (arm open) – 10 kg (arm closed)

***Working conditions :**

In all climatic conditions, between -10 – +50 Co

***Climbing Ability:**

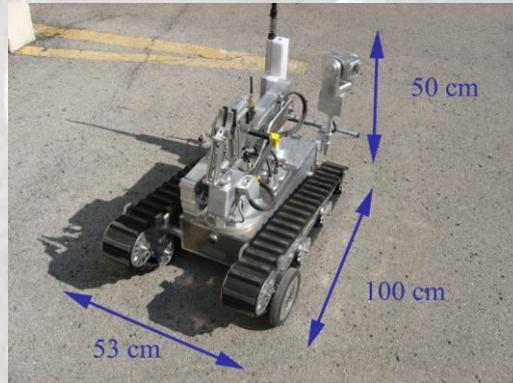
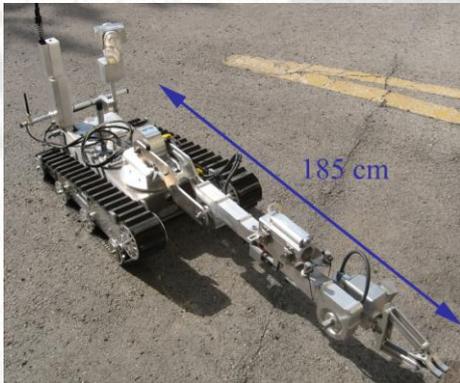
40 o inclined path and stair steps

***Maneuverability:**

It can rotate 360 degrees around its center (in a circle with a radius of 35 cm)

***Control distance:**

300 m (RF Communication), 150 m (Wired communication)



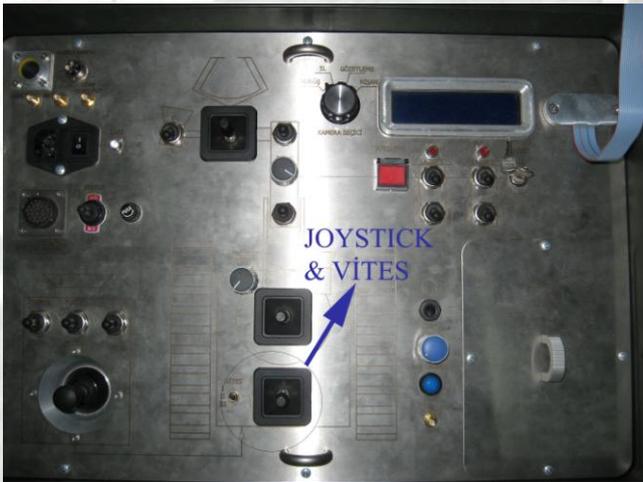
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3. 3.0 GENERAL STRUCTURE

3.1 MOTION SYSTEM

The movement of the Bomb Disposal Robot is provided by a double pallet system located symmetrically on both sides of the body.

- Special design that allows holding on inclined and stepped surfaces
- Tire structure that allows use on different surfaces such as asphalt, concrete, soil and grass
- Gear system with three different speed levels
- Easy to use with a single joystick
- Spring system that makes tire changing easier



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3.0 GENERAL STRUCTURE

3.2 Manipulator system

The manipulator system of the Bomb Disposal Robot consists of 3 parts: turret, arm and hand.

- The turret part can rotate 300 degrees on the body.
- The shoulder connection connecting the arm part to the turret can rotate 210 degrees.
- The elbow part of the arm has the ability to rotate 270o.
- The hand part can be rotated up to 350o around the arm connection point. It also has unlimited rotation around the wrist.
- The arm can reach up to 120 cm in its most open position.
- Thanks to the rubber tires in the hand system, it is possible to grasp many types of materials easily.
- There is overcurrent protection in the manipulator system. In this way, the possibility of damage to the system due to loads it cannot carry is reduced.



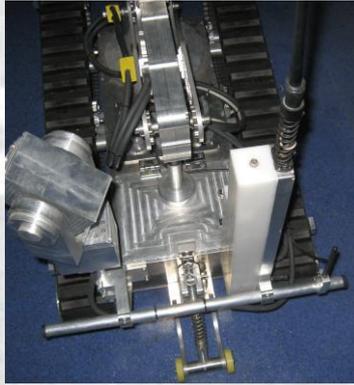
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3.0 GENERAL STRUCTURE

3.3 Control system

Remote control of the Bomb Disposal Robot can be done via wired or RF systems.

- The RF system works through the antennas on the robot and control panel.
- In the RF system, communication is possible up to 300 meters in open areas.
- A wired system should be used to ensure that the robot can work in environments where mixers may be present.
- The cable system consists of a 150 meter long cable and reel with sealed connectors on both sides.
- The cable reel weighs 23.4 kg and can be carried easily.



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3.0 GENERAL STRUCTURE

3.4 Image and Sound System

4 cameras were used to exchange images between the Bomb Disposal Robot and the control console.

- Surveillance camera

Unlimited pan and tilt movements, iris, zoom and focus features

- Driving camera

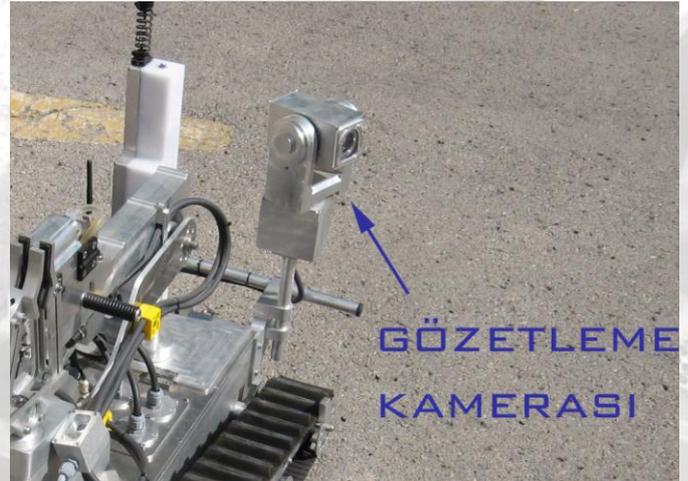
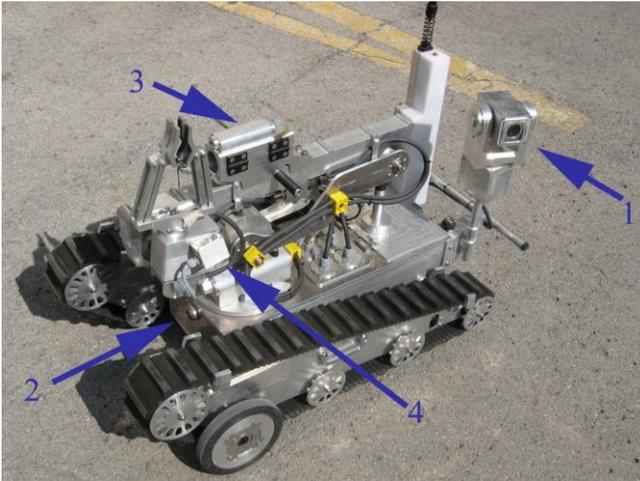
It has a wide-angle lens that provides great convenience while driving.

- Handheld camera

It helps in interventions that require precision by robot hands.

- Aiming camera

The Aker gun provides ease of use.



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