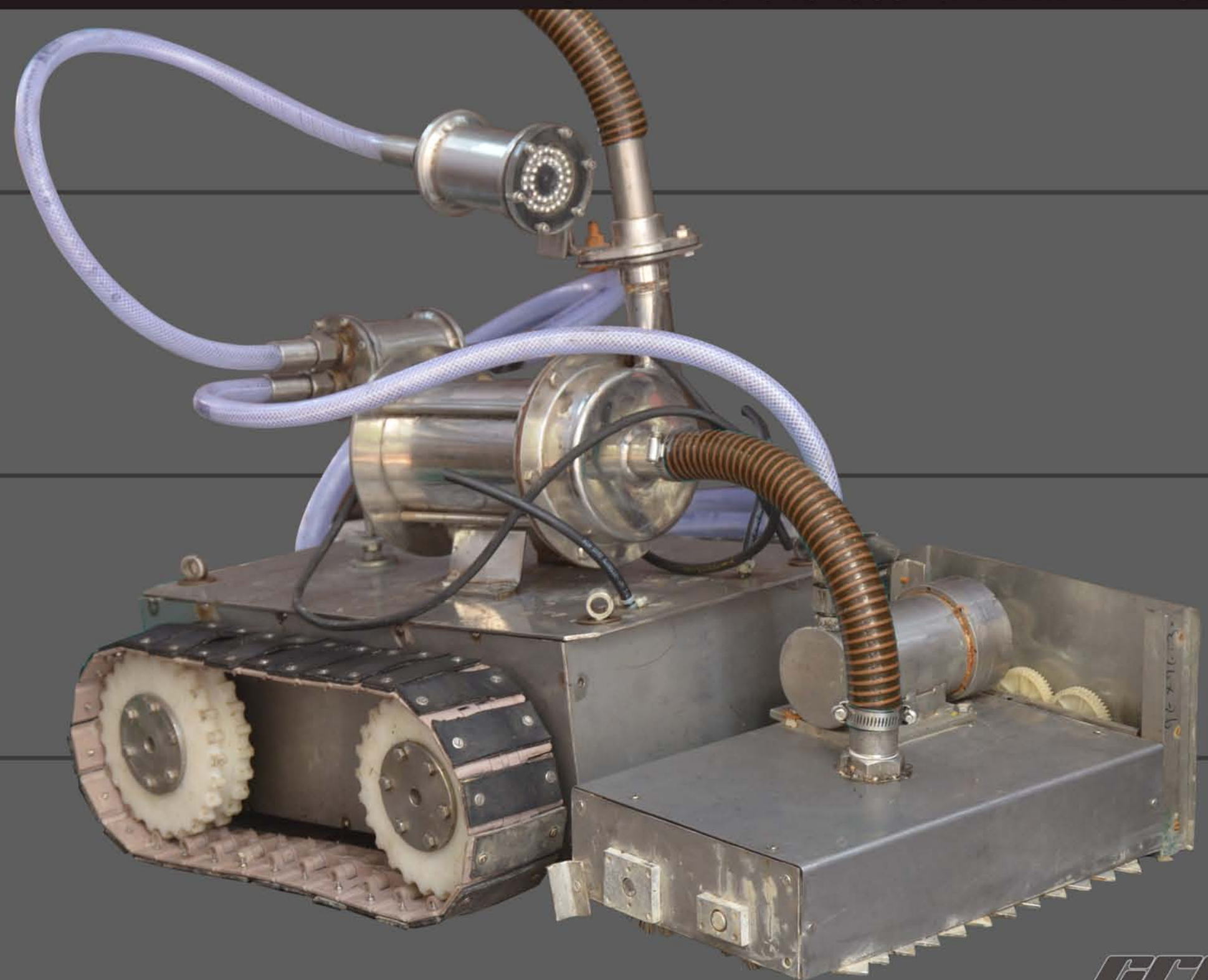
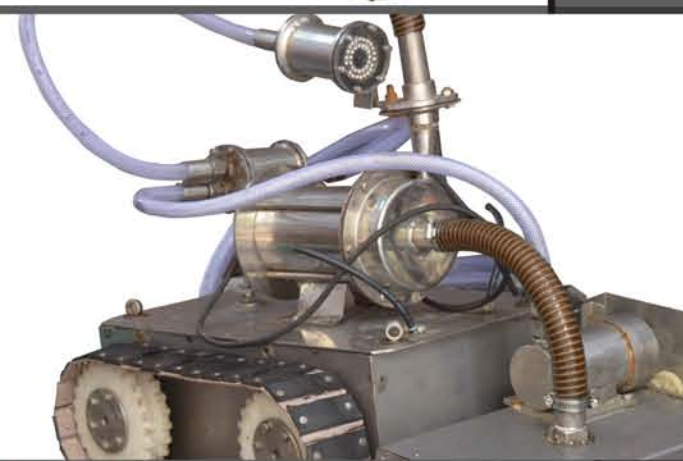
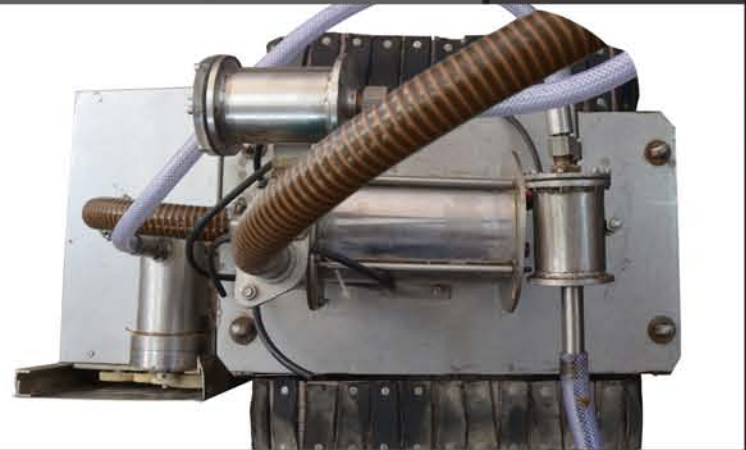




# SAUSR ALPHA

SMART AUTONOMOUS UNDERWATER SERVICE ROBOT



# SAUSR ALPHA SMART AUTONOMOUS UNDERWATER SERVICE ROBOT



## About

This is a rugged Underwater Service Robot which can be operated remotely using the Remote Control and can be used inside water tanks, Ponds, River Beds for removing the silt or mud deposited on the base. The Robot has Two pairs of Twin - Counter Rotating Brushes which will enable it to scrap all kinds of deposits and then subsequently throw out all that with a powerful onboard pump or an optional onboard replaceable filters. The complete Robot is made from Special grade Stainless Steel which makes it 100% rust proof - even during prolonged use and even in acidic mediums.

## Features

- > Autonomous Operation
- > Automatic / Manual Control
- > Operable Depth : 50 M
- > Drive Type : Chain Tracks
- > Power Supply : Single Phase A.C
- > Underwater Vision : Pan Tilt Camera
- > Payload Capacity : 50 Kg
- > Control Unit : Onboard 32 Bit
- > Onboard Light : LED Flood Lights
- > Power brush cleaning system
- > Remotely Replaceable - Sludge collection cases
- > Linear Speed : 5 Cm/Sec
- > Continuous Operation upto 300 hrs.
- > Onboard Powerful pump Unit

## Items Provided/ Optional Items

- > SAUSR
- > Controller
- > Removable Brushes
- > Onboard Filters
- > Remote Filter Replacement System
- > Filter Locking System
- > Off Board Filters
- > Power Supply Unit

## Technical Overview

### Robot Dimensions

- > Height : 15 Inches
- > Length : 36 Inches
- > Breadth : 20 Inches

### Weight

- > System Weight : 150 Kg
- > Filters Weight : 10 Kgs
- > Controller Weight : 15 Kgs

### Monitoring System

- > Onboard Camera : 520 TVL [IR ]
- > IR Flood Lights : 200 Light Elements
- > Secondary Camera : Color/520 TVL
- > Digital Video Recorder - 2 TB Space

## Operation Description

The Robot once lowered in the water tank using a chain block can be started remotely to move inside the tank/pond.

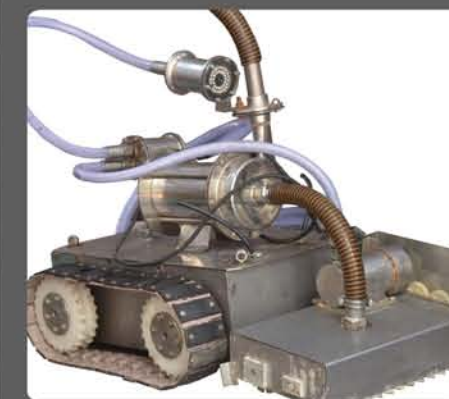
The view of the inside can be directly seen on the provided remote control panel's video console.

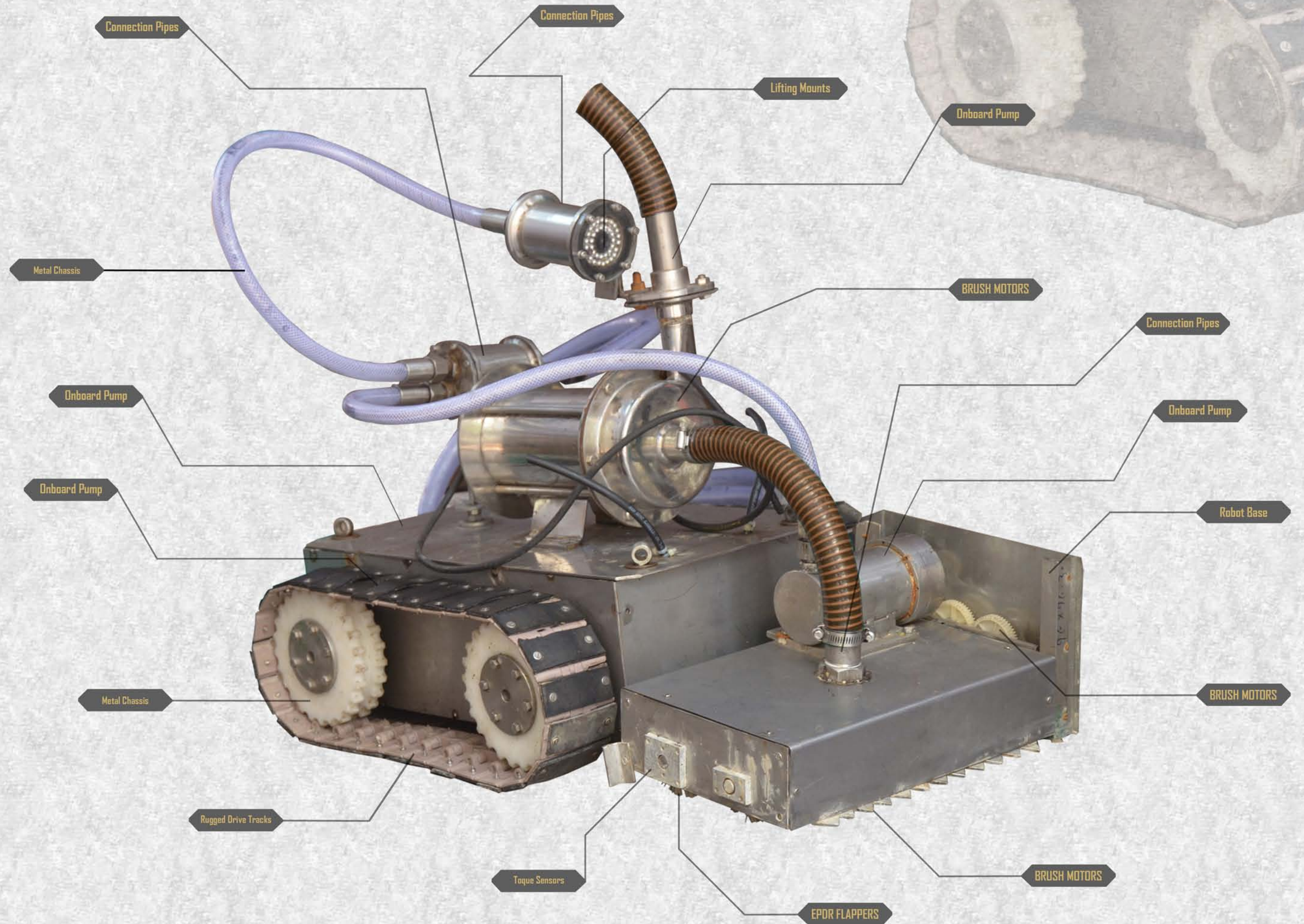
The Robot employs strong and rugged chain tracks with rubber pads which enables it to move on any uneven terrain.

The provided IR Illuminator can be controlled remotely and its intensity can be adjusted as per the internal light conditions.

The robot has bump sensors on its all sides to avoid any unnecessary collision and subsequent damage to the tank.

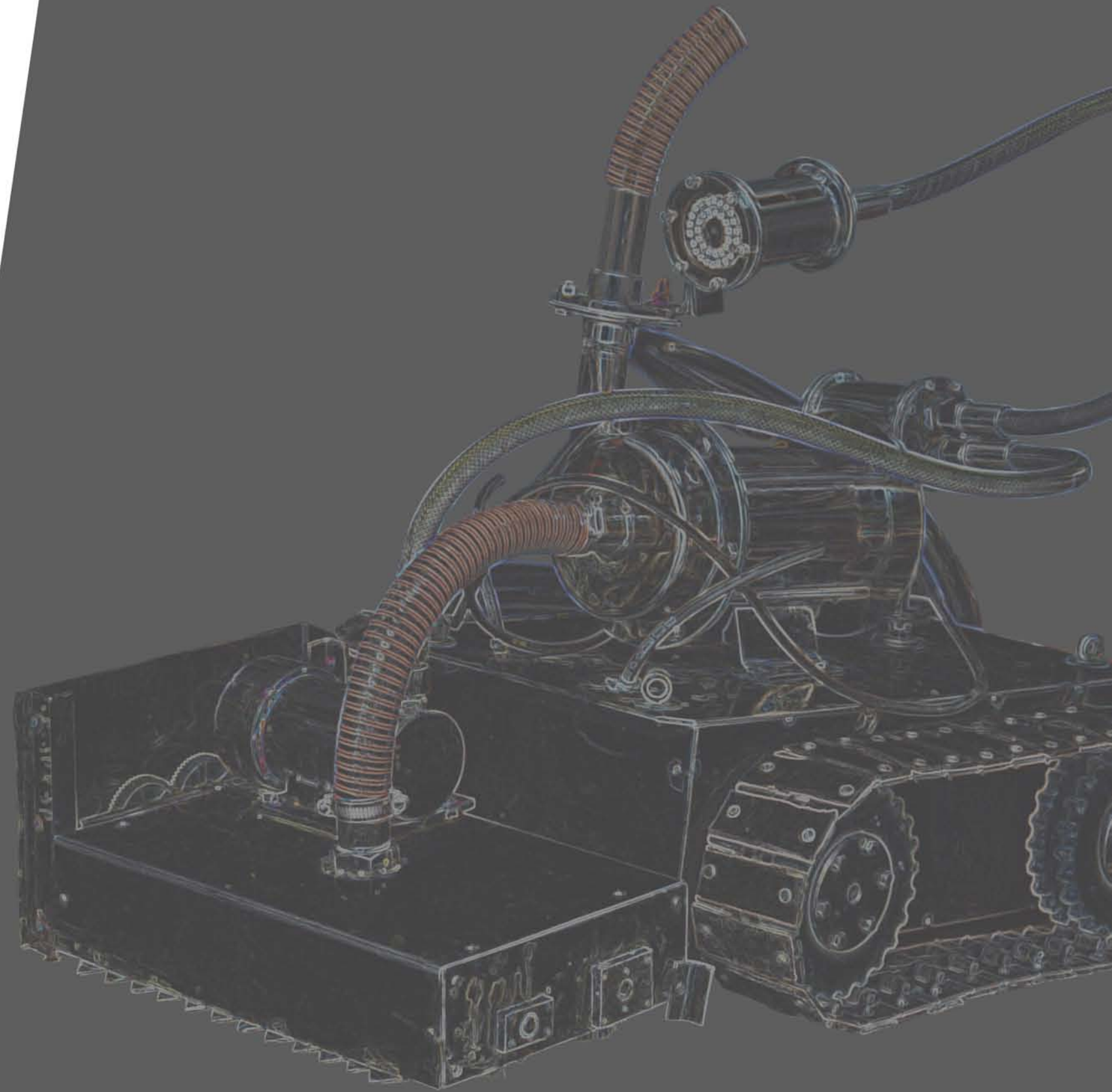
## Item Provided





## About

We are a young technology and Innovation - Private Limited company from India and work in the field of Robotics - Artificial Intelligence and Machine Vision. Founded in August 2007 by young and passionate innovator Mr. Pulkit Gaur [TED Fellow and MIT Young Innovator of the year]. We today are a team of more than 30 people - Head quartered in Ahmedabad we have a strong presence in more than 10 cities of India. Since inception the company has been growing exponentially both in terms of market share and technological capabilities day by day. Today we have more than 50 products and 10 patents to be filed for technological innovations. We envision making robotics a part of one's day to day life - building machines which are more intelligent - More efficient and can save time ! Apart from working in the high end technology - We are also trying to propagate robotics amongst young minds and making them understand this high end technology in a simple manner. To cater to this purpose - Gridbots has a dedicated division which serves to the needs of research and educational robotics called Edubotix Innovation Labs.



## Gridbots Technologies Pvt. Ltd.

Office : #306, Maharana Pratap Complex, Near V.S. Hospital - Ashram Road,  
Ahmedabad - 380006. [M] 96018 48681, PH. : 079 - 25620336, Web : [www.gridbots.com](http://www.gridbots.com)