

**Product Name:** Maqueen Mechanic

**SKU :** ROB0163-EN



### **Introduction**

Maqueen Mechanic includes a set of mechanical parts that can turn Maqueen into a loader, forklift, bulldozer and beetle. This kit contains all the spare parts, such as, metal servo, mechanical parts, screws, etc. Just a simple installation, then your Maqueen Plus Car is ready to go!

This play-and-learn kit comes with rich mechanical knowledge, which could allow students to benefit a lot from hands-on practices! Come and find more fun and interesting ways to play with Maqueen Plus in this kit.

Note: Maqueen, micro:bit board and battery are not included.

### **Features**

- Support for Maqueen 4.0 and later
- Support for MaqueenPlus
- Metal gear servo, reliable quality
- Metal servo connection plate for easy installation
- 0 ~ 180 deg control angle
- Aluminum alloy material, sand blasting oxidation process, excellent quality.

### **Specification**

- Servo Weight: 12g  $\pm$  1g
- Control Angle: 0 ~ 180 deg
- Metal gear servo, Metal servo connection plate.
- Control Ports: S1, S2, S3 (MaqueenPlus).
- Standby Current: <45mA

## Parts list

| Serial number | Name                      | Number | Material  |
|---------------|---------------------------|--------|---|
| 1             | Loader Servo Panel        | 1      | Sand blasting oxidation process of aluminum alloy |
| 2             | Loader Bucket             | 1      | Sand blasting oxidation process of aluminum alloy |
| 3             | Pan-tilt-zoom Mount Plate | 2      | Sand blasting oxidation process of aluminum alloy |
| 4             | Trolley Plate             | 1      | Sand blasting oxidation process of aluminum alloy |
| 5             | Ultrasonic Mount Holder   | 1      | Sand blasting oxidation process of aluminum alloy |
| 6             | Arm Servo Base            | 1      | Sand blasting oxidation process of aluminum alloy |
| 7             | Arm Baseplate             | 1      | Sand blasting oxidation process of aluminum alloy |
| 8             | Arm Linkage               | 3      | Sand blasting oxidation process of aluminum alloy |
| 9             | Arm Plate                 | 1      | Sand blasting oxidation process of aluminum alloy |
| 10            | Servo Arm Linkage         | 1      | Sand blasting oxidation process of aluminum alloy |
| 11            | Forklift Plate            | 1      | Sand blasting oxidation process of aluminum alloy |
| 12            | Gripper Upper Arm         | 2      | Sand blasting oxidation process of aluminum alloy |
| 13            | Gripper Driven Forearm    | 1      | Sand blasting oxidation process of aluminum alloy |
| 14            | Gripper Servo Forearm     | 1      | Sand blasting oxidation process of aluminum alloy |
| 15            | Gripper Panel             | 1      | Sand blasting oxidation process of aluminum alloy |
| 16            | M3*35mm Copper Bolt       | 2      | brass   |
| 17            | M3*25mm Copper Bolt       | 2      | brass   |

|    |                     |    |   |
|----|---------------------|----|---|
| 18 | M3*15mm Copper Bolt | 6  | brass                                     |
| 19 | M3*17mm Copper Bolt | 3  | brass                                     |
| 20 | 9g servo            | 2  | Metal gear,metal port,<br>plastic housing |
| 21 | M2.5*5mm nut        | 12 | Stainless steel                           |
| 22 | M3*5mm nut          | 45 | Stainless steel                           |