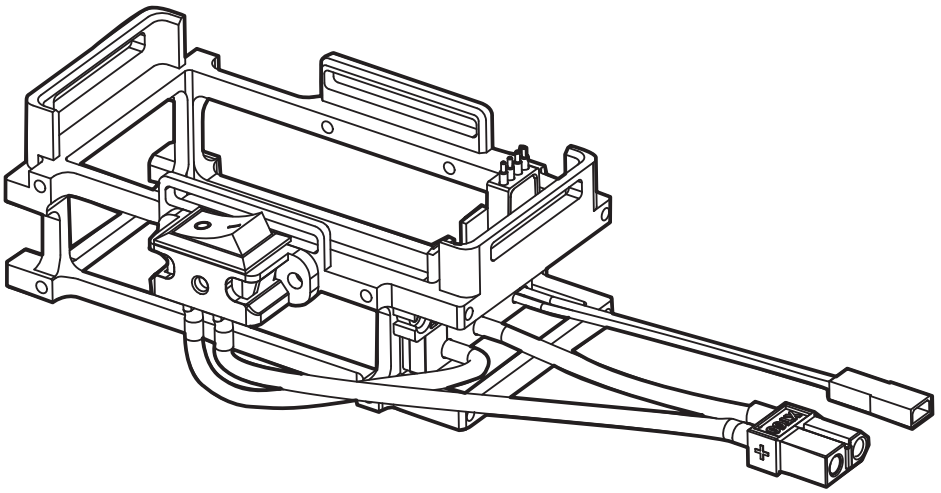
RoboMaster

Battery Rack
电池架(兼容型)

User Guide
使用说明

v1.2 2020.05



ROBOMASTER

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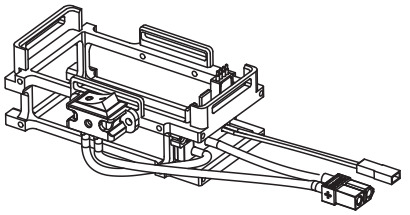
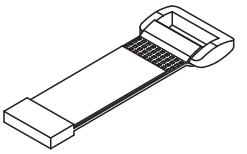
In the Box

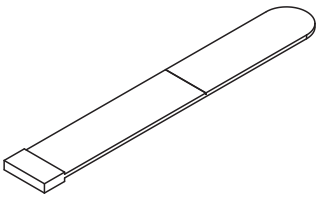
Battery Rack × 1



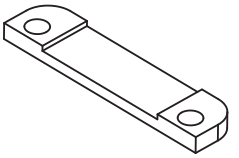
Magic Buckle × 1



Magic Cable Tie × 1



Metal Fixing Plate × 1



Screws × 3

(M3×6)

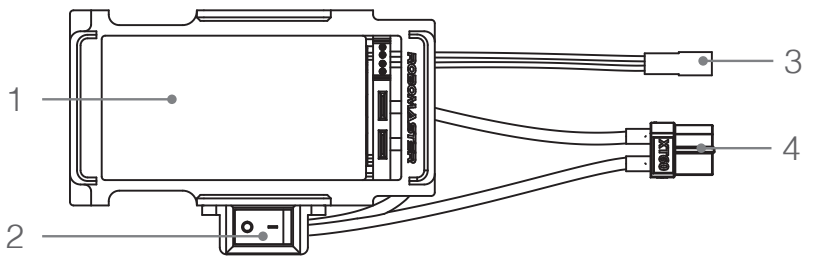
Introduction

The RoboMaster Battery Rack is a device used to fix and power a battery and can be fixed to surfaces such as the ground, a wall, or a robot. The Battery Rack is compatible with batteries such as the DJI TB47 and TB48 series. The power switch is used to power the battery on or off and the battery information port monitors data such as the current

battery level.

The magic cable tie in the package helps to secure the battery and prevents it from falling off when impacted or used in environments prone to vibration.

Overview



1. Battery Shelf
   Used to place a battery.
2. Power Switch
   Power a battery on or off.
3. Battery Information Port
   Used to monitor data such as the current battery level.
4. Power Output Port
   Connect to a robot or the Referee System.

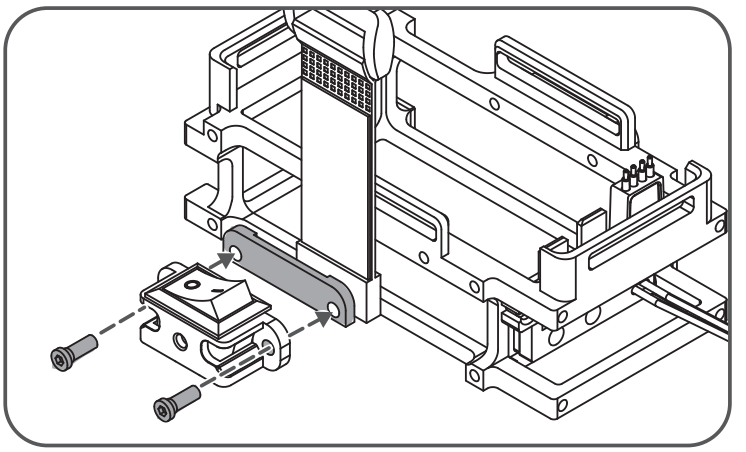
Installation

Fixing the Magic Cable Tie and Buckle (Optional)

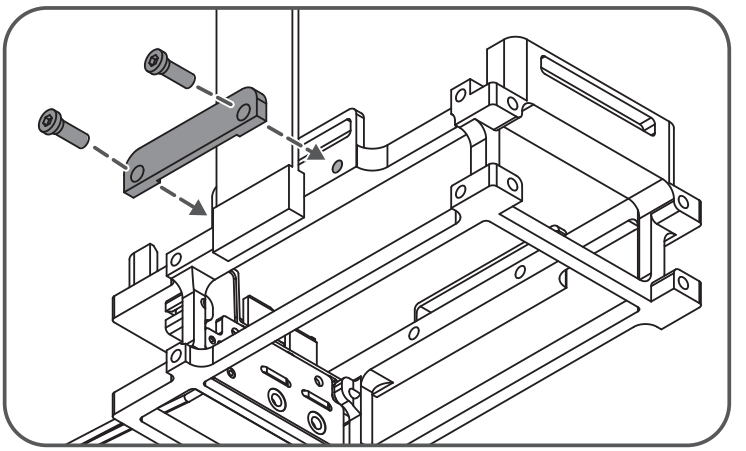
When used in environments prone to vibration or there is a risk of impact, it is recommended to fix the magic cable tie and buckle onto the Battery Rack before mounting the Battery Rack and battery. When attached to a static surface like a wall or the ground, there is no need to fix the magic

cable tie and buckle.

1. Unscrew and remove the power switch. Compress the magic cable tie with a metal fixing plate and use screws to fix the power switch, metal fixing plate, and magic cable tie to the same side you removed the power switch (the power cables have not been included in the illustration below for easy viewing).



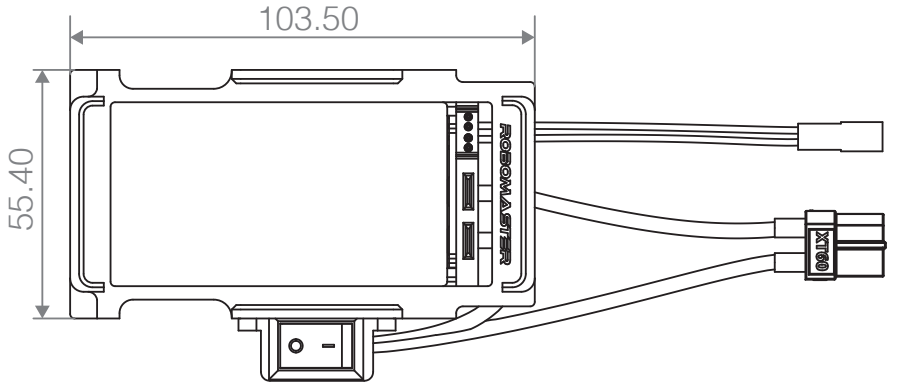
2. Use the metal fixing plate (hook side facing outwards) to fix the magic buckle to the opposite side of the power switch.



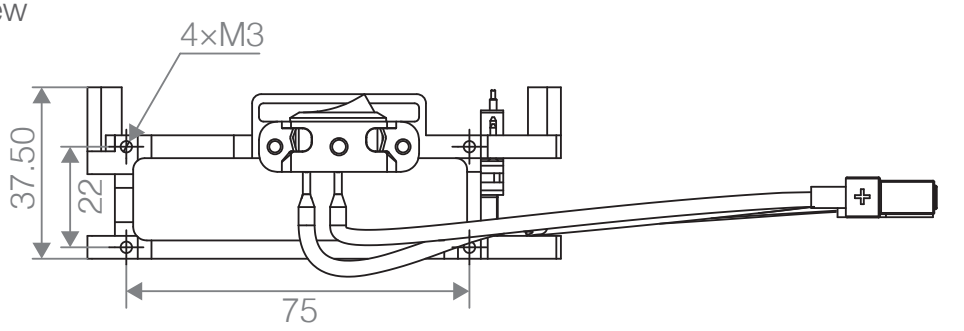
Mounting the Battery Rack

Refer to the dimensions in the illustration below when mounting the Battery Rack.

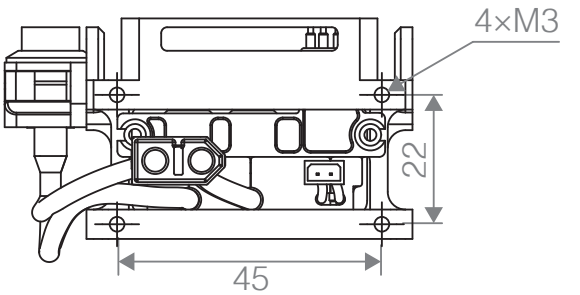
Top View



Front View



Side View



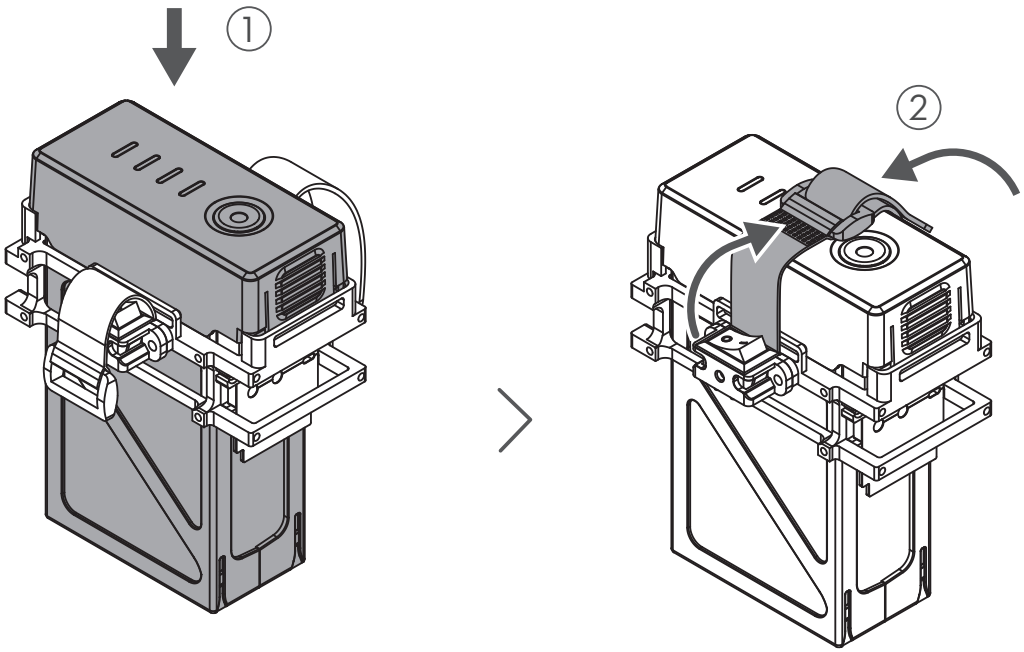
Unit: mm

⚠ • The Battery Rack has threaded M3 screw holes. A minimum of three M3 screws are required to mount the Battery Rack properly.

• The depth of the threaded holes is 6 mm. DO NOT use screws that are longer than this depth. Otherwise, the Battery Rack may be damaged.

Mounting a Battery

After mounting the Battery Rack, insert a battery into the Battery Rack in the same direction as shown below in illustration ①. Secure the magic cable tie as shown below in illustration ②.



If the magic cable tie is not secure, insert a battery to the Battery Rack in the same direction as shown above in illustration ①.

Usage

After mounting the Battery Rack and inserting a battery, power on the battery as follows:

1. Connect the power output port to a robot or the Referee System.
2. Press the battery power button once to check the battery level, and then press and hold to turn on the battery.

3. Turn on the power switch of the Battery Rack to power on the battery.

Specifications

Weight: 85 g
Power Output Port Connector: XT60
Max Operating Current (Continuous): 35 A

免责声明

感谢您购买 RoboMaster™ 电池架（兼容型）（以下简称“电池架”）。使用本产品之前，请仔细阅读并遵循本文及大疆 ™ 创新（DJI™）提供的所有安全指引，否则可能会给您和周围的人带来伤害，损坏本产品或其它周围物品。一旦使用本产品，即视为您已经仔细阅读本文档，理解、认可和接受本文档及本产品所有相关文档的全部条款和内容。您承诺对使用本产品以及可能带来的后果负全部责任。

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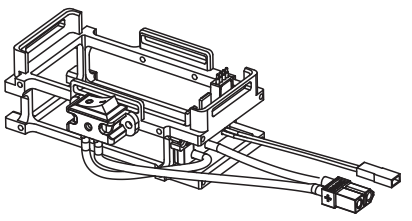
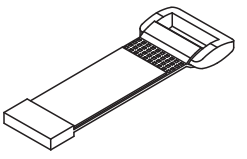
物品清单

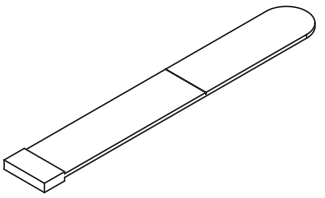
电池架 × 1



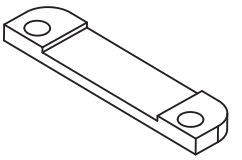
魔术扣带 × 1



魔术扎带 × 1



金属固定片 × 2



螺丝 × 3

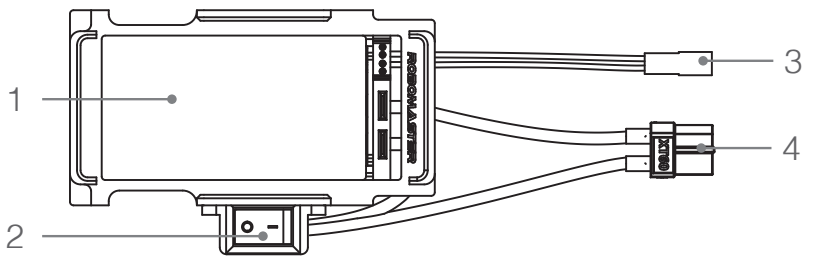
(M3×6)

简 介

RoboMaster 电池架（兼容型）是一款专为 RoboMaster 机器人设计的电池固定和供电器件。其安装方式灵活，可分别选择使用对应两侧进行固定。该款电池架兼容 DJI TB47 系列和 TB48 系列等电池。电池架上配有电源开关，可控制电池供电；配有电池信息接口，可用于监测当前电池电量等数据。

包装内所配的魔术扎带，可于震动、冲击等环境下有效防止因电池脱落而导致的断电，提升使用体验。

电池架部件名称



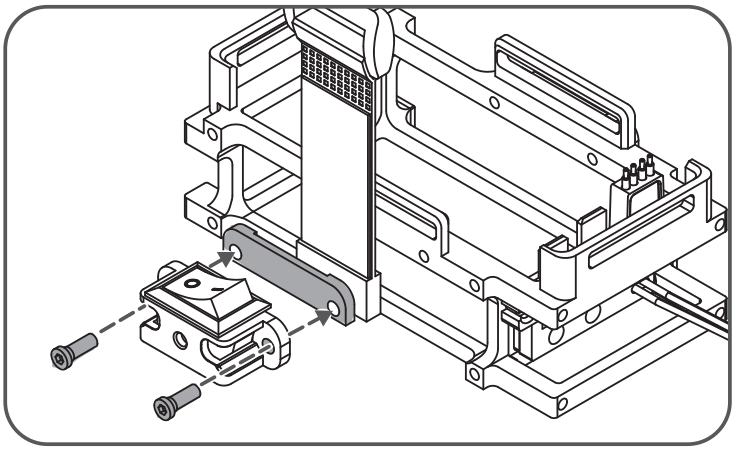
1. 电池置架
   用于安放电池。
2. 电源开关
   开启 / 断开电池供电。
3. 电池信息接口
   可用于监测当前电池电量等数据。
4. 电源输出口
   可连接至机器人或裁判系统。

安 装

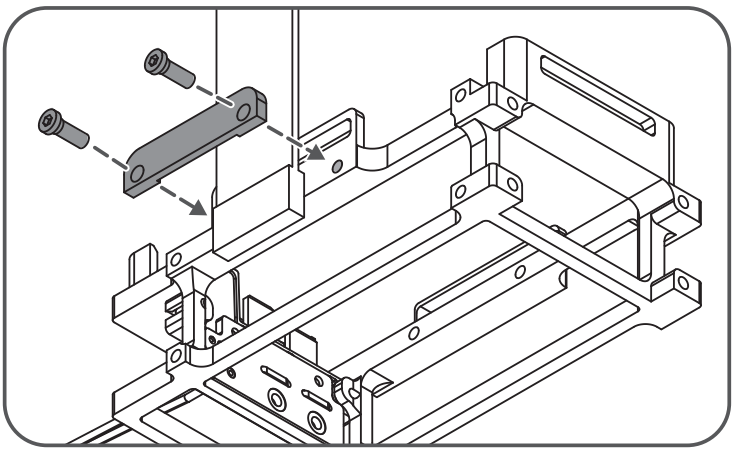
安装魔术扎带和扣带（可选）

当于震动、冲击等环境下使用时，建议用户将该魔术扎带和扣带安装于电池架上，然后再安装电池架和电池。当静态使用电池架时，则无需安装魔术扎带和扣带。

1. 松开电源开关模块侧螺丝，将整个电源开关模块取下。使用金属固定片压住魔术扣带，然后使用螺丝将电源开关模块、金属固定片以及魔术扣带固定于该侧。（为方便观察，图示中电源线已被隐藏）。



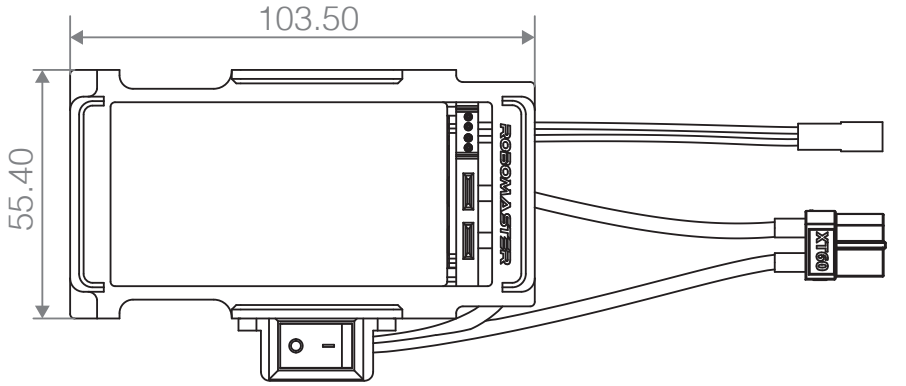
2. 使用金属固定片将魔术扎带（带钩织物一侧向外）固定于电池架无电源开关按钮的一侧，并使用两颗螺丝拧紧固定。



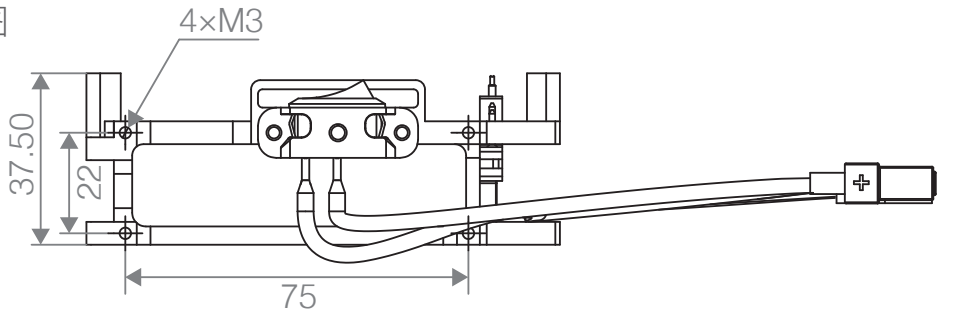
安装电池架

请参考电池架的尺寸将其安装至相应位置。

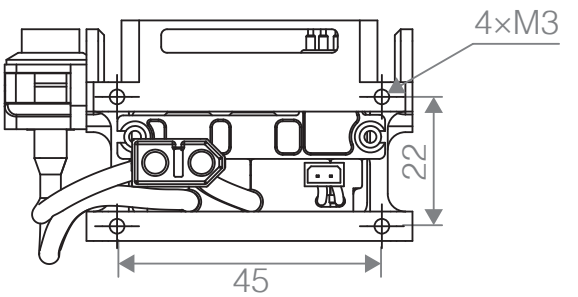
俯视图



正视图



侧视图



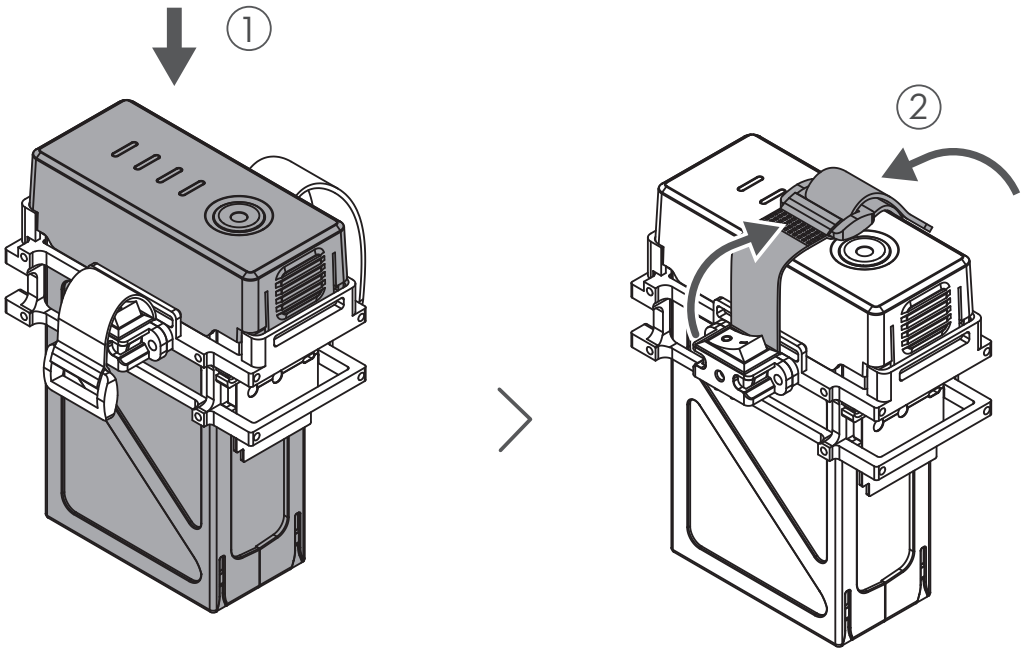
单位： mm

⚠ • 电池架上的螺纹孔为 M3，请选择至少三颗合适的螺丝安装电池架。

• 螺纹深度为 6mm，请勿使用过长的螺丝，否则可能会导致电池架损坏。

安装电池

电池架安装完毕后，请根据需要将电池按照箭头①方向插入电池架，然后再将魔术扎带绑好，如图示②。



若未安装魔术扎带，则直接将电池按照箭头①方向插入电池架即可。

使 用

安装完毕电池架并插入电池后，请按照如下步骤接通电池电源：

1. 将电源输出口插入机器人或裁判系统；
2. 先短按电池上方的电源开关一次检查电量，再长按以开启电池电源；
3. 将电池架上方的电源开关按到打开位置，以接通电池电源。

参 数

重量： 85 g

电源输出口接头：XT60

最大持续工作电流：35 A

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr^{+6})	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
线路板	×	○	○	○	○	○
外壳	×	○	○	○	○	○
金属部件（铜合金）	×	○	○	○	○	○
内部线材	×	○	○	○	○	○
其他配件	×	○	○	○	○	○

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