Instructions for use

Function description:

The YG2003 is an electric vacuum suction cup for the handling and installation of objects such as tiles, paving stones, stone panels, glass and furniture. YG2003 designed an adaptive working mode, which can set different pressure start-stop ranges (maximum stop negative pressure is -65Kpa) according to different materials of the adsorbed objects. YG2003 built-in electronic pressure sensor can reach the maximum negative pressure of -82 kpa, built-in electronic pressure sensor can always detect the vacuum negative pressure value inside its sucker, with automatic start/stop function.

The YG2003 is designed for dry, rough and slightly porous materials.YG0100 is not intended for climbing or immobilizing the human body, is not designed for climbing (rock), and use of this product for climbing or any other unintended purpose may result in injury or death.

Note: It is not recommended to use objects consisting of dense porous, soft/flexible and fragile materials when handling, moving or placing them, such as simple cardboard boxes, styrofoam boxes, dry poured pavement bricks, compressed sand or poor quality concrete.

- Host*1
- Foam ring *2
- Compatible charger*1
- Filter pad *4
- Tool box *1

Specification ：

Size（L*W*H）	282*190*188
NW	1.8kg
Battery Voltage	12VDC 4500mAh Li-ion
Battery Capacity	4500mAh
Rated power	15w
Input voltage	100-240VAC 50/60Hz 12.6VDC2A
Working hours (after starting work)	No less than 24 hours
Operating temperature	0℃-60℃（30℉-140℉）
Maximum load (horizontal adsorption)	200kg
Maximum load (side adsorption)	100kg
Charging port	DC

Pressure value adjusting reference

the following values are for reference only, the specific use is subject to the actual situation

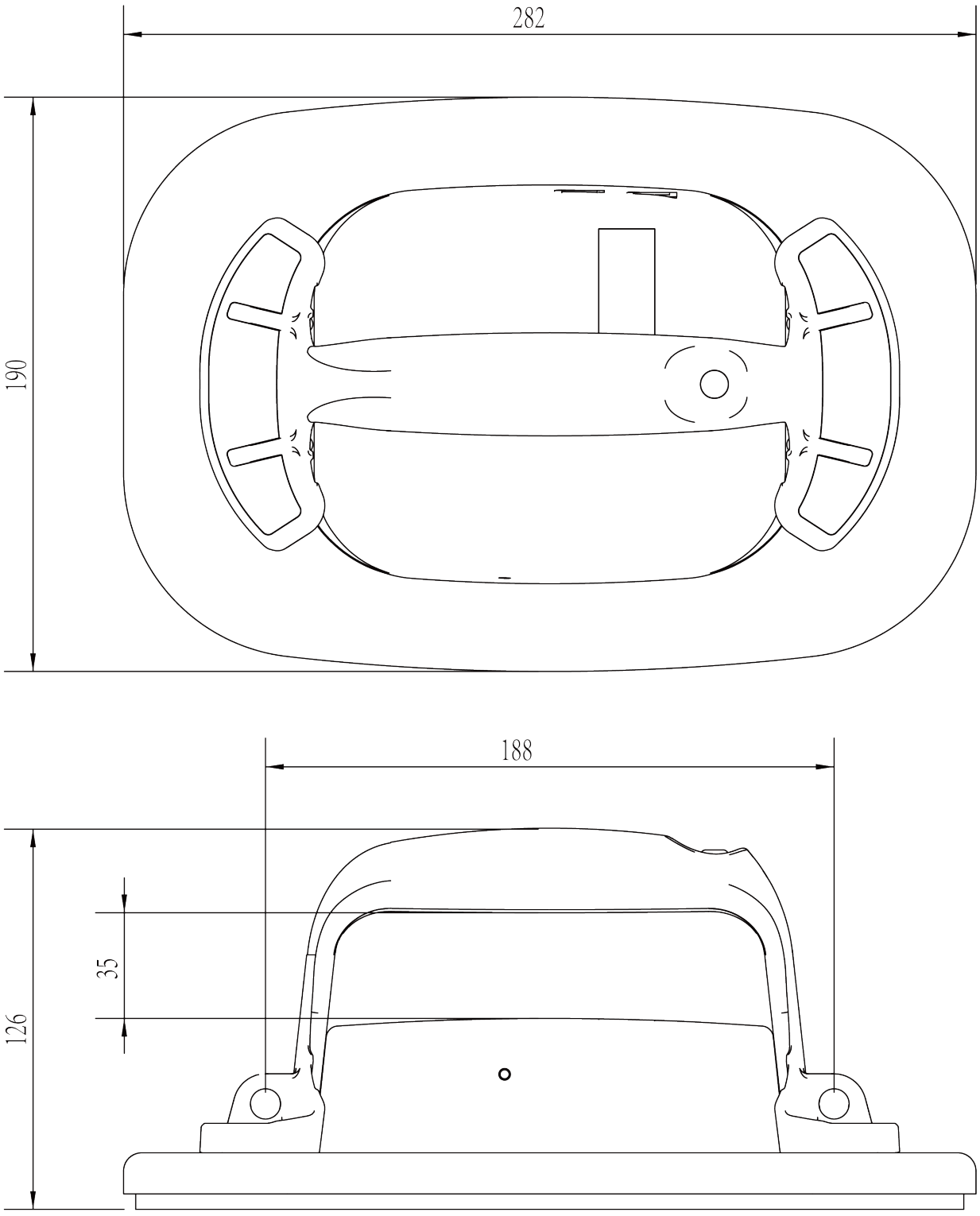
Material	Pressure value adjustment setting range
Smooth surface glass/non-porous stone/metal materials	-65Kpa— -80Kpa
The surface roughness is ≤ to 5mm non-porous stone/concrete materials/metal	-55Kpa— -70Kpa
Slightly porous stone/wood with a smooth surface	-35Kpa— -50Kpa
The surface roughness is ≤ to 5mm slightly porous stone/wood/drywall, etc	-20Kpa— -40Kpa

Adsorption weight

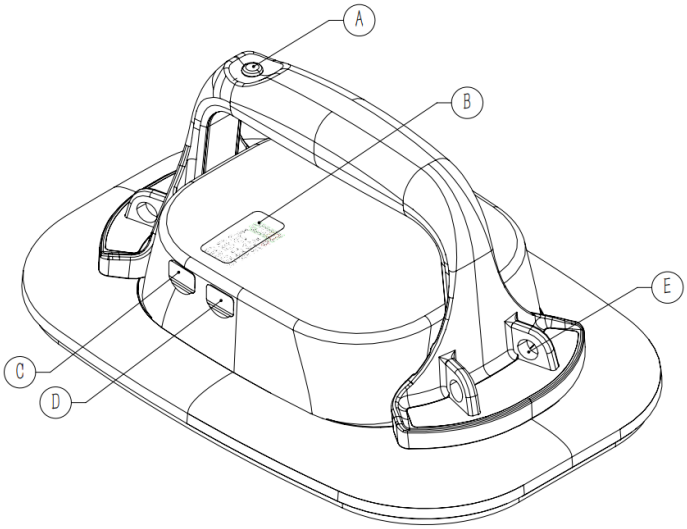
the following materials are non-porous materials, laboratory data is for reference only

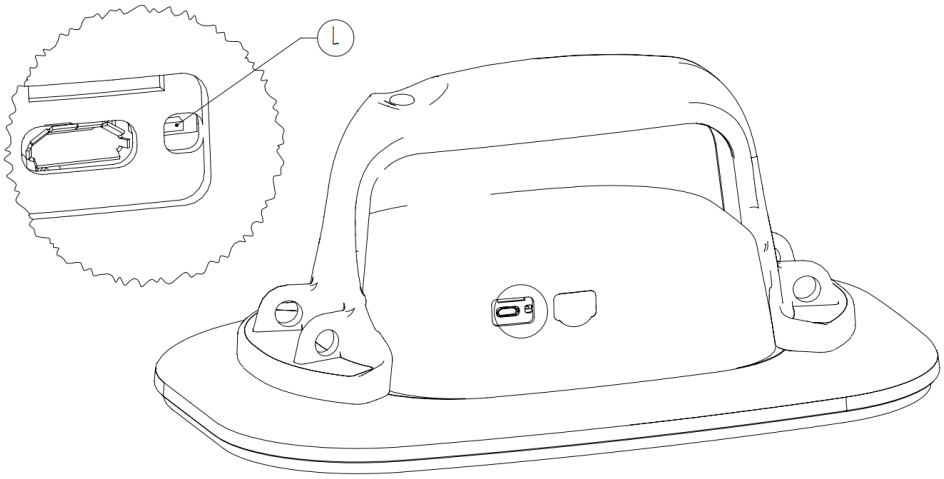
Material	Horizontal adsorption（kg）	Pressure value	Side adsorption （kg）	Pressure value
Glass	200	-80Kpa	120	-80Kpa
Tile	200	-80Kpa	120	-80Kpa
Metal	150	-80Kpa	120	-80Kpa
Stone with rough surface	150	-80Kpa	100	-80Kpa
Wood	120	-80Kpa	100	-80Kpa

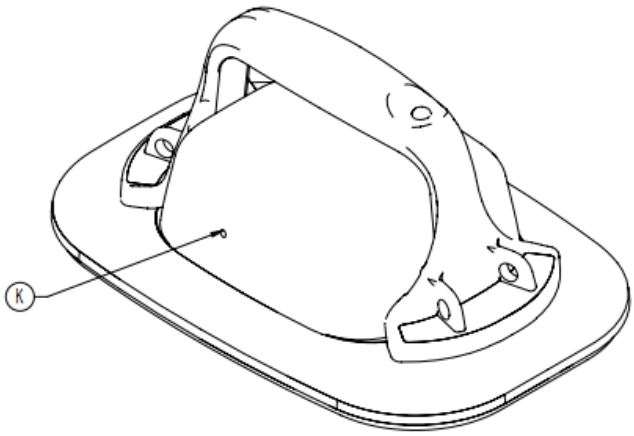
Exterior dimensional drawing：



Functional diagram ：





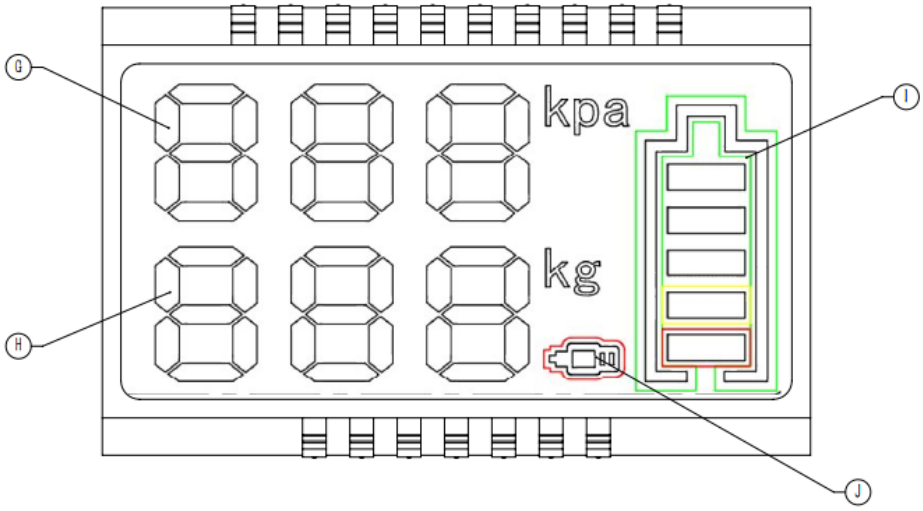


A: Start switch; B: Digital display ; C: Charging port ;

D: Extend the switch port; E: Hook ring; L: pressure adjustment button;

K: exhaust/drainage hole

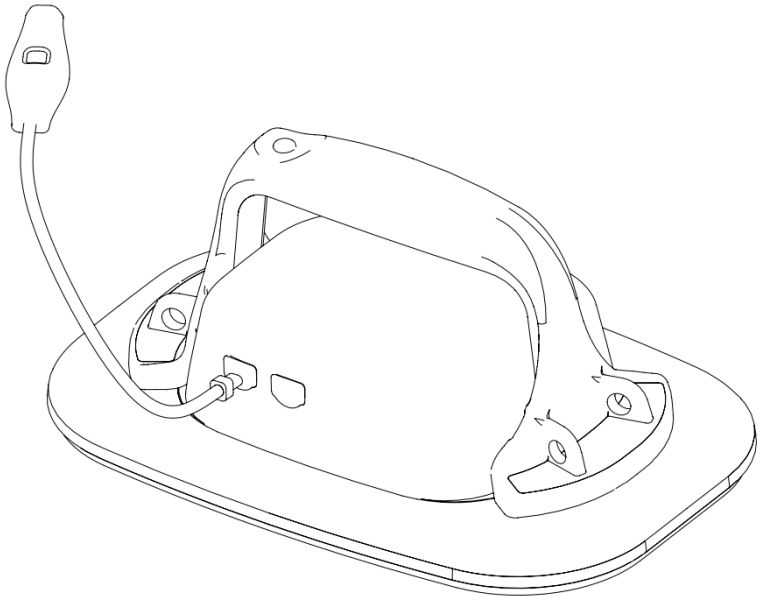
Explanatory drawing for Digital display ：



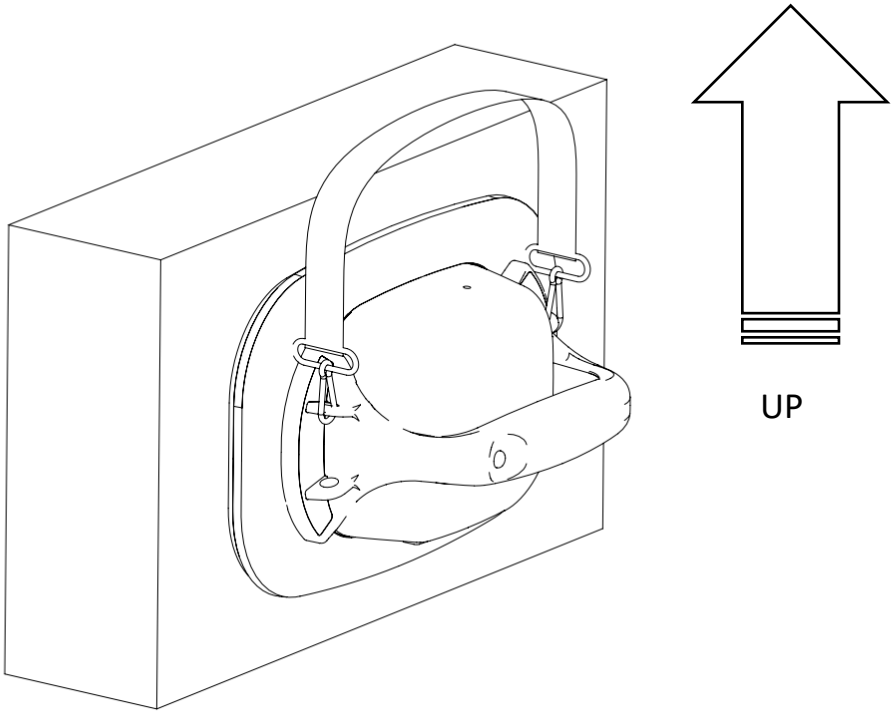
G: pressure display; H: Adsorption weight display;

I: power display; J: Charging instruction;

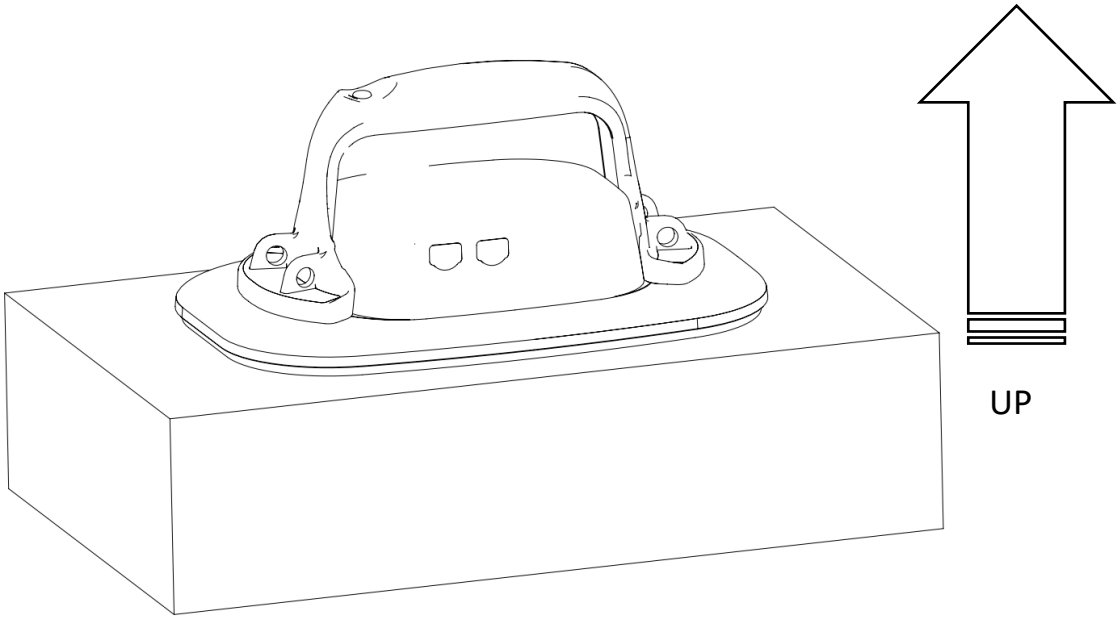
Extended switch function



Side adsorption ：



Horizontal adsorption：

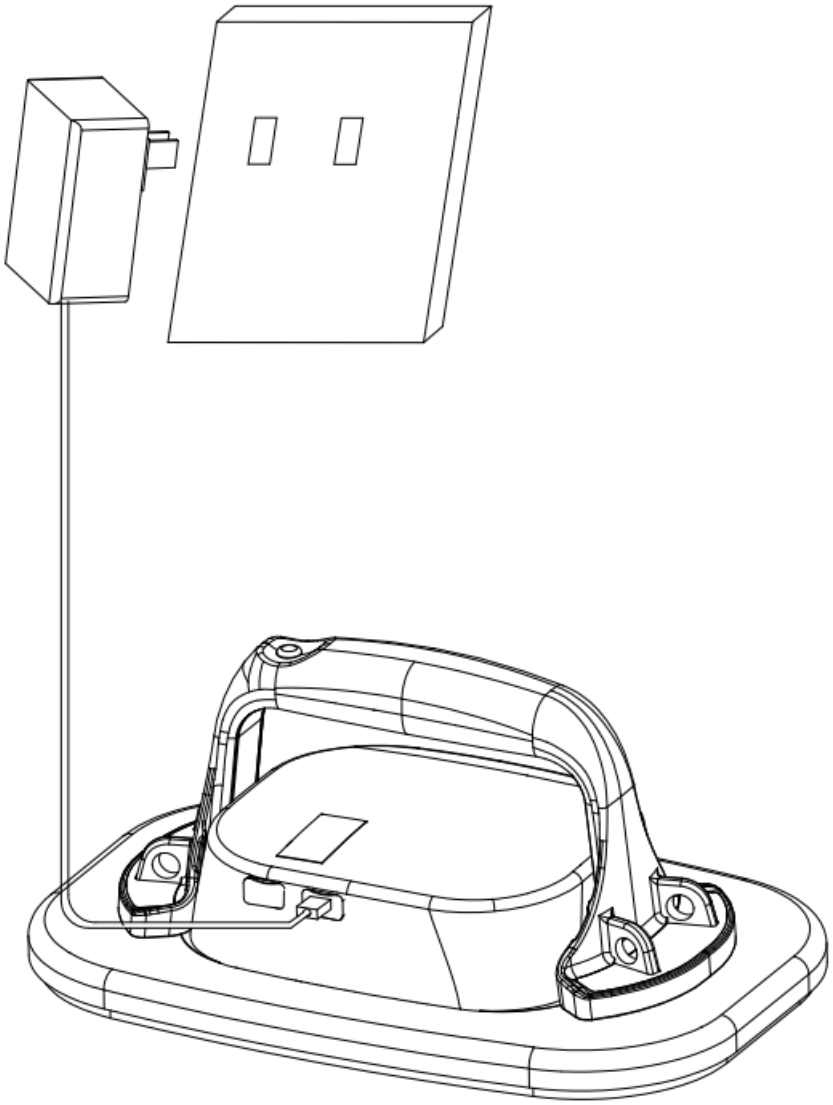


Function instruction：

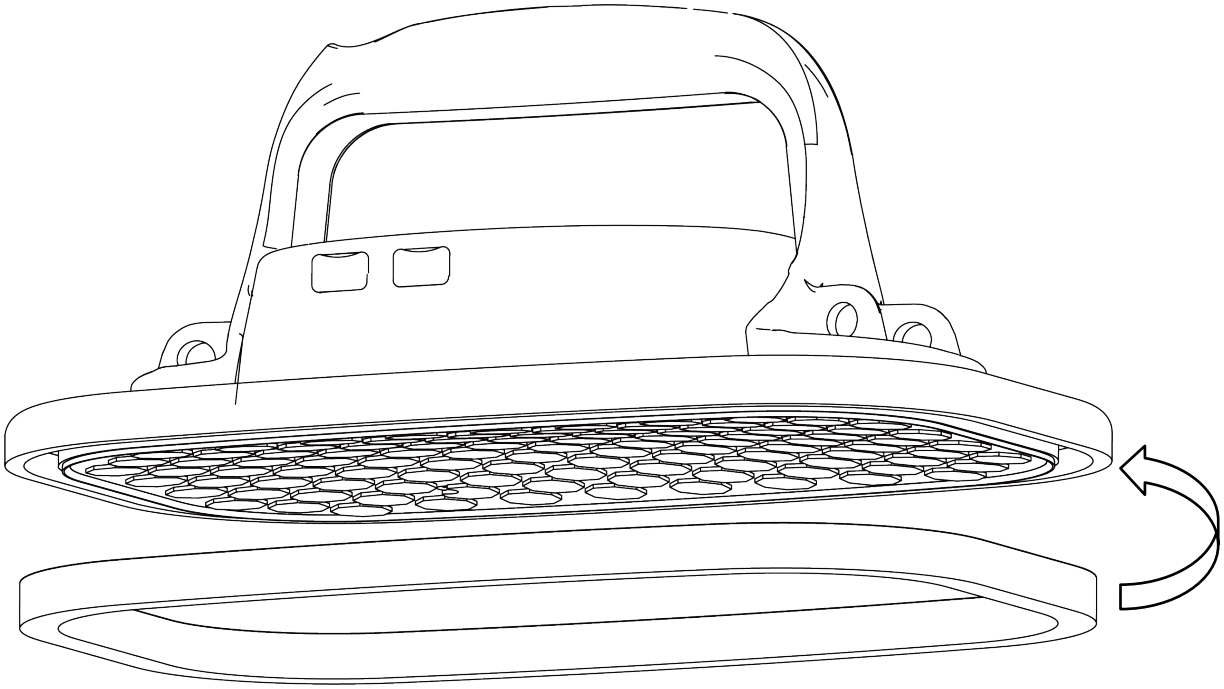
- The vacuum on the adsorption surface is extracted by the battery driven vacuum pump to achieve the effect of grabbing heavy objects, which is commonly used for absorbing marble, steel, wood, glass and other smooth surface materials. On the contact surface of the suction cup, we use a high-strength wear-resistant material as a seal, which can absorb rough cement surface and irregular surface planes.
- The product design can adjust the pressure value by the user itself, the user can adjust the pressure value of the vacuum sucker according to different adsorption materials, especially for rough surface, slight porous materials and other common uneven materials on the daily construction site, which can save power consumption and improve the service life of the whole product.
- Adds visual power display, pressure display and intelligent adsorption weight display on the digital display , and allows users to intuitively judge through the digital display during use.
- The product has a drainage function. Once the product encounters water or other liquid on the adsorbed object, it will be discharged through the exhaust/drainage hole (K) on the side of the sucker to protect the product and extend the service life of the product, and make the product more widely used.
- Press and hold the start switch (A) for 3 seconds to start the machine. After the machine is started, click the start switch (A) to start the adsorption work. The vacuum sucker will automatically stop when the set pressure is reached.
- Hold down the charging port button (C) for about 3 seconds and wait for the

pressure display cursor (G) on the digital display screen (B) to blink. Press the start switch (A) again to adjust the pressure range, set the required parameters, and wait for the pressure display cursor (G) to stop blinking (3-5 seconds) for automatic saving. Then the charging port can be used normally.

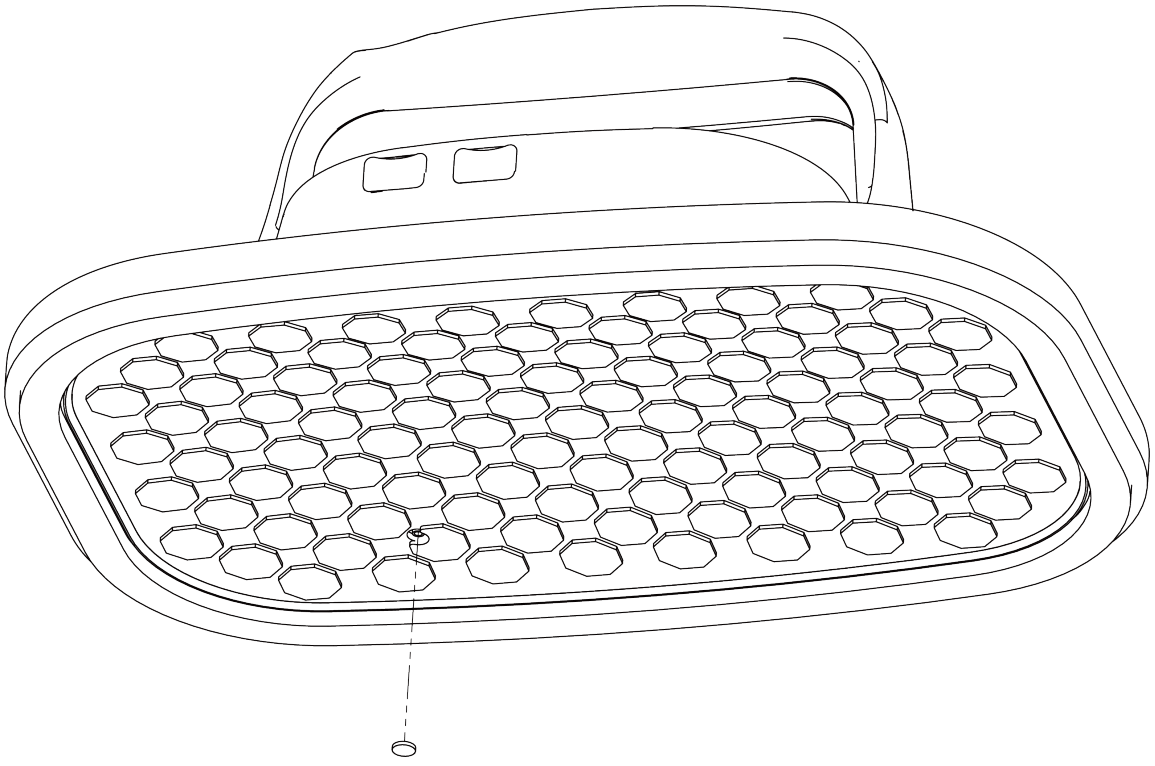
Charging



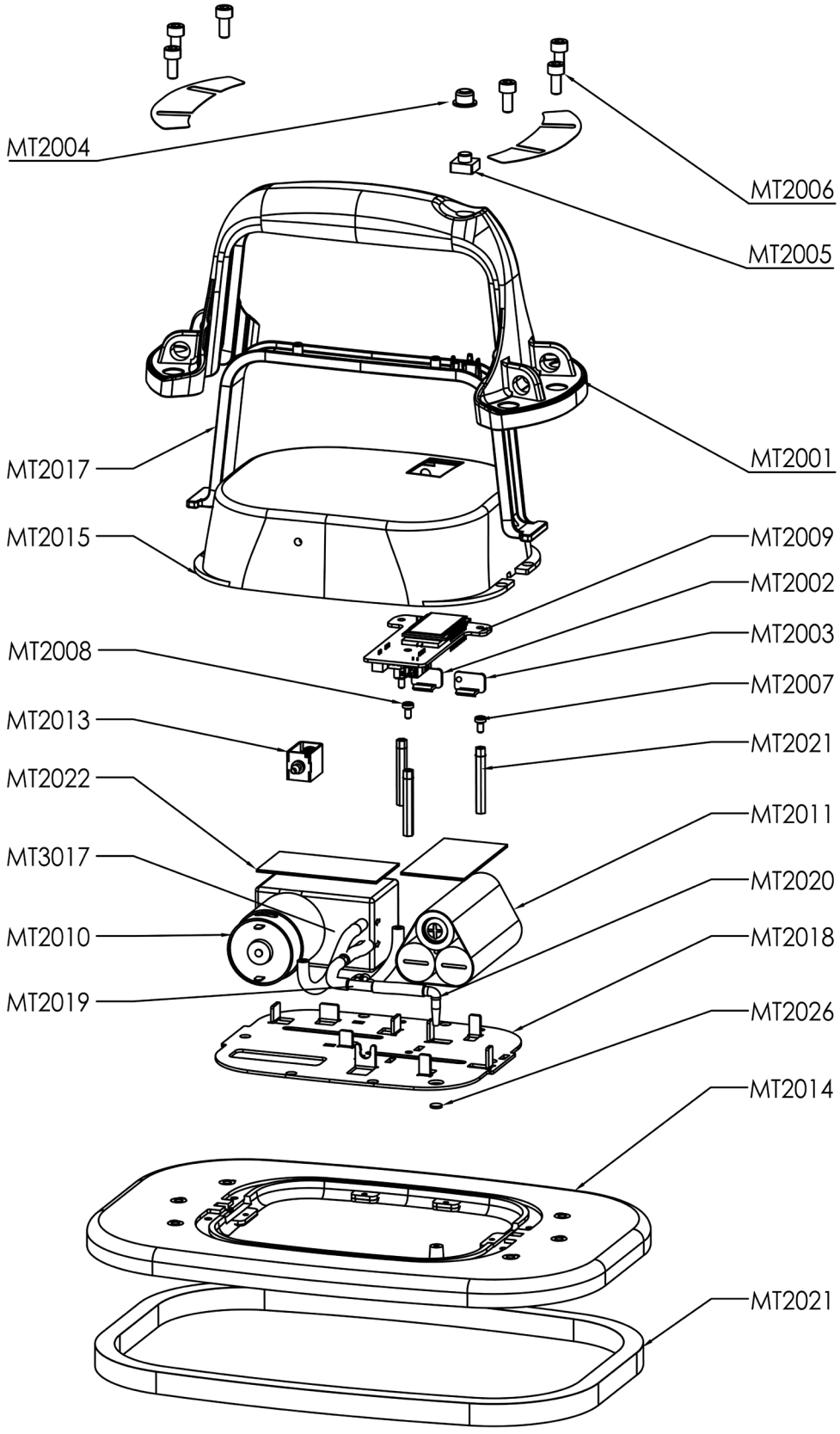
Foam ring replacement



Filter pad replacement



Explosion diagram


MT2004
MT2006
MT2005
MT2001
MT2017
MT2015
MT2009
MT2002
MT2003
MT2008
MT2007
MT2013
MT2021
MT2022
MT2011
MT3017
MT2020
MT2010
MT2018
MT2019
MT2026
MT2014
MT2021

BOM

No	Part name	BOM	No	Part name
MT2001	Handle		MT2015	Plastic case
MT2002	Silicone cap for extended switch		MT2016	Digital display
MT2003	Silicone cap for charging port		MT2017	Rubber pad
MT2004	Silicone cap for switch		MT2018	Plastic base
MT2005	Start-switch		MT2019	Plastic four-way pipe
MT2006	Screw M5*10		MT2020	Plastic square pipe
MT2007	Screw 3*5		MT2021	Shock-absorbing cotton for battery
MT2008	Screw 3*8		MT2022	Shock-absorbing cotton for pump
MT2009	Frame for sucker		MT2023	Foam ring
MT2010	Pump		MT2024	Sticker
MT2011	Circuit board		MT2025	Filter pad
MT2012	Battery			
MT2013	Solenoid valve）			
MT2014	Frame for switch			