



Quick start guide - Guía rápida



Robobo 

**The next generation of educational**

## Index:

Robobo base user guide	5
Instruction icons	5
Copyright	5
Robobo base elements	5
Battery charge	8
Smartphone insertion in the Robobo base	9
Switching the Robobo base on and off	9
Security information	11
Specific Robobo base warnings	11
Electrical warnings	11
Battery warnings	12
General warnings	12
Correct disposal of this product	13
Declaration of Conformity	13
Manufacturer	13
Model	13

### Robobo base user guide:

This robotic base offers entertainment services under the high standards and technological experience of Manufactura de Ingenios Tecnológicos S.L.

The content may differ from the final product or software provided by the service providers, and it is subject to change without notice.

The items that come with the robotic base and any available accessories may vary by region or service provider.

The supplied items are designed only for this robotic base and may not be compatible with others.

### Instruction icons:

-  **Warning:** Situations that may cause injury to you or others.
-  **Caution:** Situations that may cause damage to the robotic base or other equipment.
-  **Note:** Suggestions for use or additional information.

### Copyright:

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### Robotic base elements:

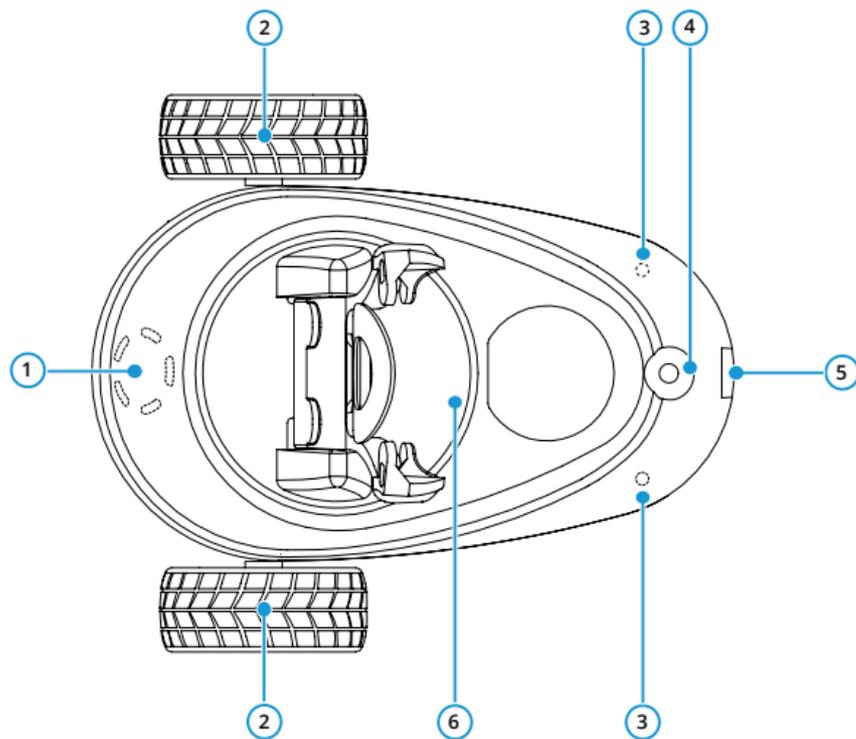
The robotic base contains the following basic elements, shown in the following images:

- 2 wheel drives
- 1 Pan-Tilt unit, where the Smartphone is attached
- 5 frontal leds
- 2 rear leds
- 5 front infrared sensors
- 3 rear infrared sensors
- 1 micro USB connector (type B)
- 1 power button

The LEDs are illuminated depending on the base state. Their meaning can be checked in [user-guide.theroboboproject.com](http://user-guide.theroboboproject.com)

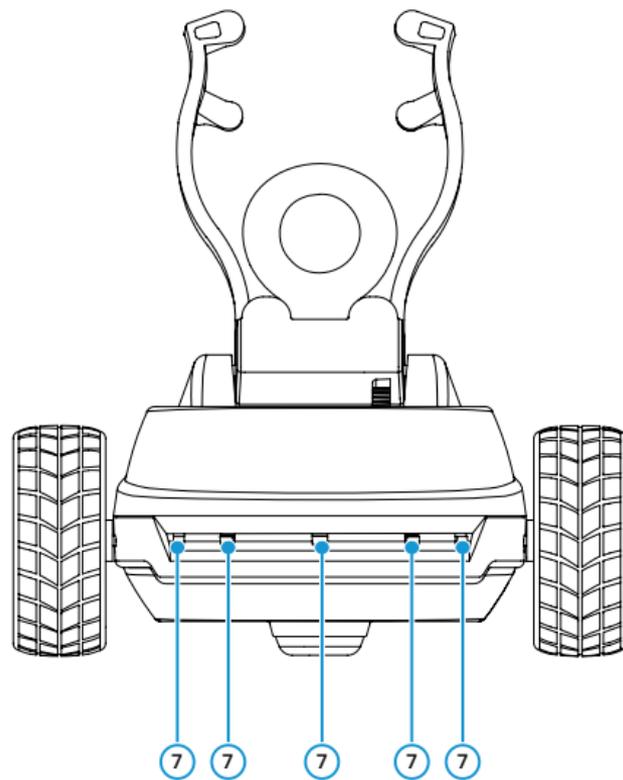
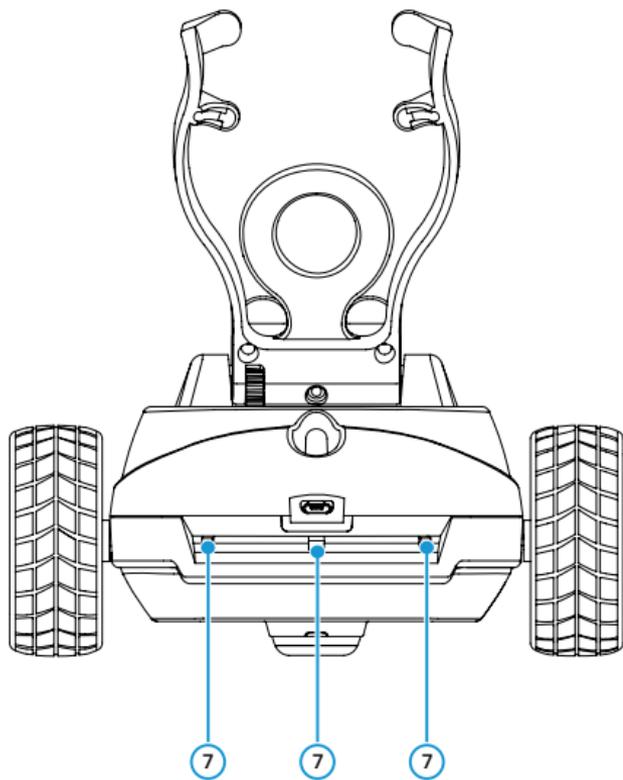


The images may not exactly match the original model of the Robobo base. The images are for guidance only.



### Robotic base elements:

1. Front leds
2. Wheel
3. Led
4. Power button
5. USB connector
6. Pan-Tilt unit
7. Infrared sensors



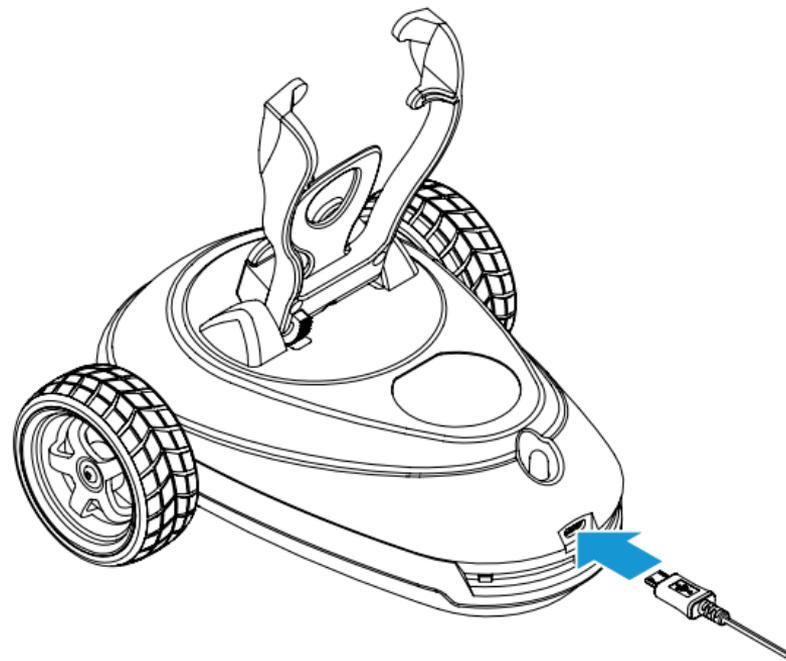
### Battery charge:

Before using the robotic base for the first time, or if you have not used it for a long time, the battery should be charged.

To do this, connect the micro USB connector (type B) to the multifunction plug or charging port of the robotic base (see figure below), and then connect the USB end (type A) to an USB current adapter (maximum 2A).

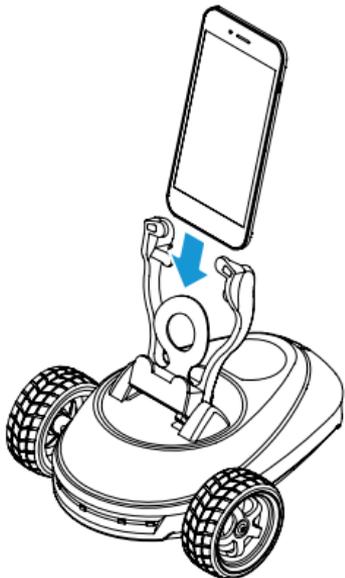
-  To visualize the charge voltage of the battery it is necessary to connect a Smartphone to the robotic base and follow the instructions shown in [user-guide.theroboboproject.com](http://user-guide.theroboboproject.com)
-  If you connect the cable incorrectly, it could cause serious damage to the base. The warranty does not cover any damage caused by misuse.

After fully charging the robotic base, disconnect it from the power supply. First disconnect the micro USB cable from the base, and then from the electrical outlet.



### Smartphone insertion in the Robobo base:

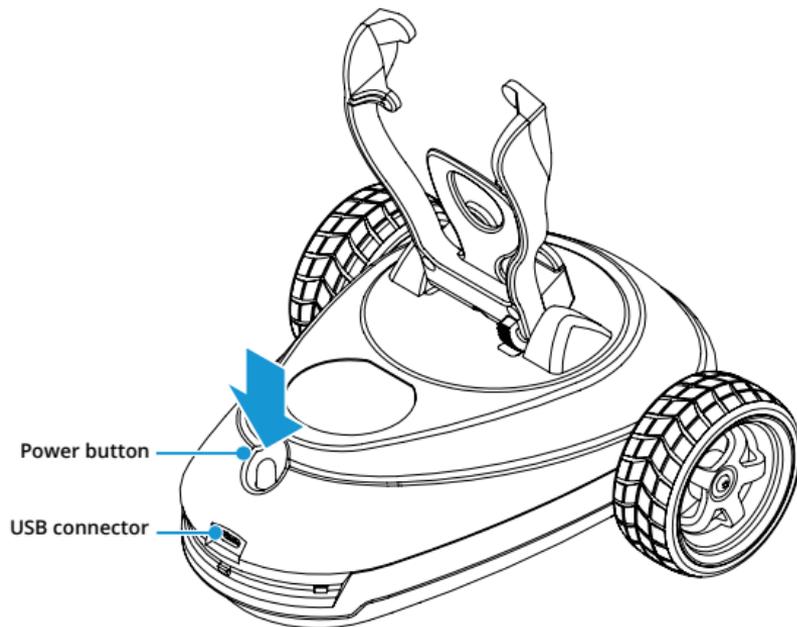
To attach the smartphone to the Robobo base holder, you must insert it softly between the two levers of the holder, separating them with your fingers if necessary (\*), and slide it down until it is fixed in its lower part.



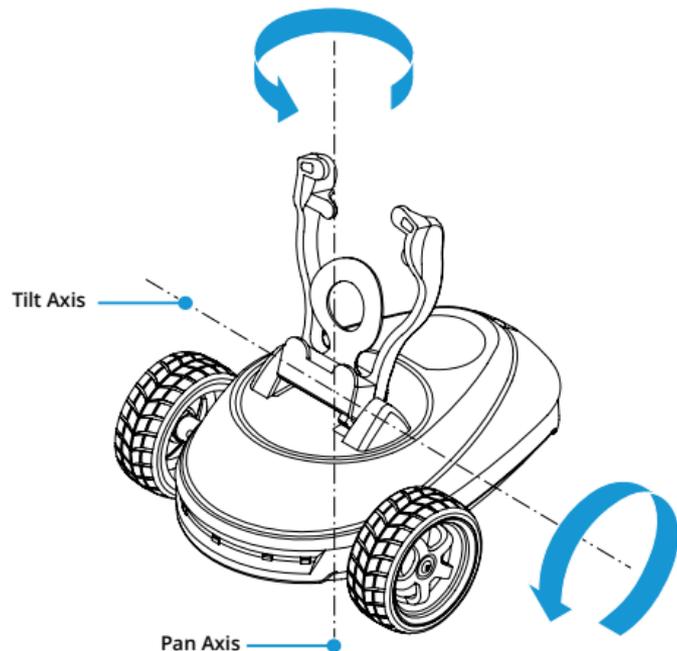
(\*) Supported dimensions are between 160x78x9.5 mm and 134x67x6.5 mm approximately depending on the specific smartphone's geometry.

### Switching the Robobo base on and off:

To turn the robotic base on, place it on a flat surface free of obstacles. Press the button located on the back, as shown in the following image:



During start up, the robotic base can perform a calibration movement of the pan-tilt unit, which will rotate around its axis as indicated in the following image. **Do not obstruct or touch the pan-tilt unit until this movement is completed.**



Once the pan-tilt calibration movement has been completed, the robotic base will be ready for use.

Information on how to connect the Smartphone to the base and on how to use both can be found at [user-guide.theroboboproject.com](http://user-guide.theroboboproject.com).

Once you have finished using Robobo, remember to turn off the robotic base by pressing the on/off button again. This will increase the duration of both the battery and the base itself.

## Security information:

This section contains information on security. In order to avoid injury to yourself and others, or damage to the robotic base, read the safety information before using this product.

**In case of not complying with these safety regulations and warnings, the user could suffer serious injuries.**

## Specific Robobo warnings:

**Robobo is not indicated for children under 8 years old.**

It must be used under the supervision of an adult.

### Choking hazard.

This device contains small parts that could cause asphyxia in the case of being ingested by a child. The packaging is not part of the robotic base, do not leave it within reach of children. Keep it away from children under 3 years old.

**The use of the robotic base may not be allowed in public places.**

Check that its use is allowed in the place where it will be used.

**It is recommended to use Robobo indoors or in clean and low exposed outdoor environments.**

Subjecting the robotic base to dust, sand, water, sun or other elements present outdoor can damage it irreversibly.

**Do not allow the robotic base to fall or subject it to strong impacts.**

The base may be damaged or malfunction.

If it bends or deforms, the robotic base may be damaged and its parts may malfunction.

The use of the robotic base to perform movements on a table or on any other raised surface that lacks protections at its edges is not recommended to prevent it from falling off. In case it is used this way, extreme precautions should be taken so

that the robotic base cannot fall off from any of the edges of the surface.

**Any damage suffered by the Smartphone coupled to the robotic base due to improper use will not be the responsibility of Manufactura de Ingenios Tecnológicos S.L.**

Avoid, therefore, excessive speeds, shocks and the use in heights or over irregular surfaces that may cause falls that damage the Smartphone.

**Do not use the robotic base if it is broken.**

Take the base to Manufactura de Ingenios Tecnológicos S.L. service center for its repair.

**If you notice that the robotic base emits odd smells or sounds, or if you see smoke or liquids coming out of the robotic base, stop using it immediately and take it to Manufactura de Ingenios Tecnológicos S.L. service center.**

If you do not do it, it could cause a fire or an explosion.

**Do not disassemble, modify or repair the robotic base.**

Any change or modification to the robotic base may void the manufacturer's warranty.

If you need to repair the robotic base and take it to a Manufactura de Ingenios Tecnológicos S.L. official service center.

Do not disassemble or puncture the battery, this may cause an explosion or fire.

## Electrical warnings:

**Do not use damaged power cords or connectors or loose plugs.**

Unsafe connections can cause an electric shock or fire.

**Do not touch the power cord with wet hands or pull the cord to disconnect it.**

Doing this may cause electrocution.

**Do not bend or damage the power cord.**

Doing so could cause an electric shock or fire.

**Do not use the robotic base while it is charging or touch it with wet hands.**

Doing so could cause an electric shock.

**Do not short-circuit the robotic base.**

Doing so may cause an electric shock or fire, or the battery may malfunction or explode.

**Do not use the robotic base outdoors during a lightning storm.**

Doing so may cause an electric shock, or the robotic base may not work properly.

**Do not use the robotic base in a hospital, on an airplane or in a car that could suffer interference caused by radiofrequency.**

If possible, avoid using the robotic base at a distance of less than 15 cm from a pacemaker, as it may interfere with it.

To minimize possible interference with a pacemaker, use the robotic base only on the opposite side of the body from the position of the pacemaker.

If you use medical equipment, contact the manufacturer of the equipment before using the robotic base, in order to determine if the equipment will be affected by the radiofrequency emitted by the robotic base.

If electronic devices are used in an airplane, they can interfere with electronic flight instruments.

**Do not keep the robotic base near magnetic fields.**

It may start to malfunction and the battery may discharge.

**Battery warnings:****Use batteries, cables, accessories and supplies approved by the manufacturer.**

Use only batteries approved by Manufactura de Ingenios Tecnológicos S.L., specifically designed for the robotic base. Unsupported batteries and connectors can cause serious physical injury or damage to the base.

Manufactura de Ingenios Tecnológicos S.L. is not responsible for the user's safety in cases where accessories or supplies that are not approved by the brand are used.

**Guarantee maximum battery life.**

Avoid charging the base for more than a week, since overcharging can shorten battery

life.

Over time, the unused robotic base is discharged and it is necessary to recharge it for use.

Disconnect the robotic base from the power sources when not in use.

Follow all instructions in this guide to ensure the longest possible life of the base and battery. Damage or malfunction caused by failure to comply with these warnings and instructions could void the manufacturer's warranty.

Over time, the robotic base can wear out. Some parts and repairs are covered by the warranty within the period of validity, however, damage or deterioration caused by the use of non-approved accessories do not have coverage.

**Do not handle damaged lithium ion batteries or leaking batteries.**

To safely dispose of the Lithium-ion battery contact an authorized service center.

**General warnings:****Keep the robotic base dry.**

Moisture and liquids can damage electronic parts or circuits of the robotic base.

Do not turn on the robotic base if it is wet. If it is already on, turn it off.

Next, dry the robotic base with a soft towel or cloth and take it to the service center.

**Do not store the robotic base in hot or cold areas.**

It is recommended to use it in temperatures between 5° C and 35° C

**Consider the following information when cleaning the robotic base**

Use a towel or a soft, dry cloth to clean the robotic base.

Do not use chemicals or detergents. Doing so may cause discoloration or corrosion on the outside of the robotic base, or it may cause an electric shock or fire.

**Do not use it for any purpose other than that for which it was designed.**

The robotic base may not work correctly.

### Correct disposal of this product:



(Waste electrical and electronic equipment)  
(Applies in countries with separate collection systems)

The presence of this symbol on the product, accessories or accompanying information material indicates that neither the product nor its electronic accessories (such as the USB cable) should be disposed together with other household waste.

To avoid possible damage to the environment or human health from the uncontrolled disposal of waste, separate these products from other types of waste and recycle them correctly. This way, the sustainable reuse of material resources is promoted.

Private users can contact the establishment where they purchased the product or the relevant local authorities to find out how and where they can take it to be subjected to an ecological and safe recycling.

Commercial users can contact their supplier and check the conditions of the purchase contract. This product and its electronic accessories must not be disposed of together with other commercial waste.

### Declaration of Conformity:

Manufactura de Ingenios Tecnológicos S.L. declares, under its responsibility, that this device complies with the provisions of Directive 99/05/EC of the European Parliament and of the Council of March 9, 1999, transposed into Spanish legislation by Royal Decree 1890/2000, of November 20.

Printed in UE

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Spain

### Model:

RBE-X  
English. 03/2018. Rev. 1.0



<http://www.theroboboproject.com/>

