

CHECK-LIST Homologation guide



Are my robots ready for the approval tests? Check it yourself!

Test these following points (non exhaustive list) before presenting your robots to the approval area.

Robot (controlled)

-  ≤ 120 cm: **non deployed perimeter** (in vertical projection)
-  ≤ 140 cm: **fully deployed perimeter** (in vertical projection)
-  ≤ 35 cm: **height** (beacon support and emergency stop button excluded)
-  ≥ 5 m: length of the **cable** control system - robot (optional if wireless controlled)
-  ≥ 2 m: length of the **cable** between the electrical socket and the power supply (optional if wireless controlled)
-  Cable voltage ≤ 13.8 V.
-  $\varnothing \geq 2$ cm, height ≤ 37.5 cm and **red coloured: emergency stop button (if batteries inside)**
-  Voltage embedded in the robot ≤ 48 V.
-  ≤ 4 bars at any point of non-commercial compressed air systems
-  **Lasers:** classes 1, 1M authorised; classes 2 accepted if the laser stays inside the playing area; higher classes forbidden. Provide the data-sheets.
-  All the **Lithium** batteries in safety bags (except LiFePO4 & Mindstorm); bring the chargers.
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas). File the projecting parts.
-  The robot must stand in the starting area.
-  The all SIMA(s) must stand in the starting area

SIMA (autonomous)

I do not have a SIMA (skip the following)

-  **fully deployed perimeter** ≤ 10 cm + **non deployed perimeter**
-  ≤ 15 cm: **height** (beacon support and emergency stop button excluded)
-  $\varnothing \geq 2$ cm, height ≤ 17.5 cm and red coloured: **emergency stop button (if batteries inside)**
-  Voltage embedded in the robot ≤ 48 V.
- Autonomy: during the match, there is no wired or wireless communication between the secondary robot and the main robot or control system.**
-  ≤ 4 bars at any point of non-commercial compressed air systems
-  **Lasers:** classes 1, 1M authorised; classes 2 accepted if the laser stays inside the playing area; higher classes forbidden. Provide the data-sheets.
-  All the **Lithium** batteries in safety bags (except LiFePO4 & Mindstorm); bring the chargers.
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas). File the projecting parts.
-  **Banner**
-  **Long** ≥ 50 cm and **height** ≥ 20 cm
-  ≤ 5 cm : **deep** inside the table
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas).
-  Emergency button (if batteries)
All the **Lithium** batteries in safety bags (except LiFePO4 & Mindstorm); bring the chargers
-  The score display is visible and easy to read. It is installed on the robot(s) or on the basket.

Good to know!

- I anticipate my passage to the approval area. I do not wait until the last minute!
- I do not hesitate to homologate my systems individually when they are ready.
- When a substantial material modification is done, I must re-homologate what is necessary.

