

ROBO-DUSTINATOR

TECHNICAL SPECIFICATION

TECHNICAL INSPECTION:

- Robots must pass a technical inspection by the Referee and/or assigned Staff prior to being permitted to compete. The Referee would check whether the size of the robot is matching the criteria, any loosen component etc.
- Robots that fail technical inspection may not compete until the Team rectifies identified problems and passes a re-inspection. There are no limits on the number of re-inspections; however, as soon as a team fails, **inspecting Staff members will move to the next robot to be inspected. This rule does not extend any time limits during the Competition.**

SIZE & WEIGHT CONSTRAINTS:

- The robots must fit in a box with dimension **50cm × 50cm × 50cm** (L× B× H) at the beginning of a game.
- The maximum weight allowed is **5 kg** excluding batteries. Weight will be measured at the time of inspection before starting the competition.

RADIO CONTROL REQUIREMENTS:

Radio systems **MUST NOT** cause interference to other frequency users. Only the 2.4Ghz DSS (Digital Spread Spectrum) frequencies are allowed. Radio telemetry is permitted on 433MHz and 2.4GHz. (Maximum range is 15meter).

ELECTRICAL POWER:

The robot must be powered electrically only. **Use of an IC engine in any form is not allowed.** Voltage must not exceed 36V DC. Note that batteries may have a higher voltage during charging and care must be taken not to exceed these limits. **Change of battery will not be allowed during the match.**

THE FIELD ARENA

- The size of arena will be 250cm ×210 cm covered with green carpet.
- The arena surface is generally smooth but may have small irregularities.