



MOBILE ROBOTICS – TECHNICAL BRIEFING - 2 May 2012

Gripper

A gripper will be used in one of the tasks. Each finalist team must build the gripper such that it's able to:

- Grip an empty can with approximate dimensions (diameter 50+/-2mm, height 105+/-3mm) and weight of about 125+/-5g. (A sample can will be given)
- Pick and place the can
- Flip the can

Gripper assembly must not protrude beyond 250mm from the footprint.

External power, microcontroller, sensors, actuator and any other devices (except remote controller) are allowed for the gripper assembly.

Gripper control has to be self-contained and/or from the Robotino.

The can is placed on the floor in standing position.

Camera

Relocation of camera is allowed.

Software Version of Robotino

Notebook running Windows 7 will be provided together with 2.6.3 installed. If you prefer to use version 2.8.1 or any other version instead, please let us know by 30 Jun 2012, so we can install your preferred version for your group.

(Please note that version 2.8.1 and 2.6.3 cannot co-exist on the same PC.)