

Sumo – 10 cm

(version 20180404)

Robot Size limit : 10 cm x 10 cm
Robot Weight Limit : 500g
Robot Control : Autonomous
Arena : 106.7 cm diameter circle

Objective: In this competition two competing robots attempt to push their opponent out of a circular arena. Robots must meet specific weight and size limits.

Robot: The construction materials for the “10 cm” sumo class are unlimited. Competing robots must run autonomously.

General Rules: The rules used for this competition are outlined at <http://www.robotroom.com/SumoRules.html> with the exceptions noted in these rules. If a conflict between the rules at the link above and this document occurs, the rule will be interpreted per this document.

Arena: The arena for all sumo classes in the competition is approximately 106.7 cm diameter circle. The arena has a black surface except for a white ~1 inch wide white line along the circumference of the circle. The arenas surface will be made of either paper, construction foam, or painted wood. It may or may not be elevated above the floor. If the arena is elevated, it will be raised about 1 inch above the floor.

Scoring: Robots will compete with other robots in the competition in a double elimination tournament.

Judging: The contest will have one or more judges. They will ensure the rules are followed and impose scoring penalties or remove a robot from competition if the robot is operating in an unsafe manner or not complying with the rules. The decisions of the judges are final.