Design Contest
ME72 Engineering Design Laboratory
Fall Term, 2000
Team Devices Size and Mass

- **Size:**

  1. Prior to the start of the tournament, each team must demonstrate that their combined devices can simultaneously fit into a 20 x 40 x 20 cm (inside dimensions) [7.87 x 7.87 x 15.75 inches] plexiglas box. The plexiglass box is available in the M.E. Shop to check this constraint.

  2. At the start of each contest (t=0), each team’s combined devices must be positioned within the painted 20 x 40 cm rectangle on the side of the arena to which it has been assigned. Each team’s devices must fit within a 20 x 40 x 20 cm volume at t=0, when electrical power is applied, at the start of the contest. This requires that a team’s multi-part or multi-component device(s) must have all parts inside a 20 x 40 x 20 cm volume at the start.

  3. While all parts of a modular or multi-part device must be constructed from the parts contained in one (1) kit, only those parts that are used in any particular contest are required to meet the 20 x 40 x 20 cm volume constraint.

- **Mass:**

  1. The upper limit of the combined mass of each team’s devices is 4.50 kg [9.921 lb, 9 lb 14.73 oz]. Devices will be weighed before the final tournament.

  2. While all parts of a modular or multi-part device must be able to have been constructed from parts contained in one (1) kit, only those parts that are used in any particular contest are required to meet the 4.50 kg [9.921 lb, 9 lb 14.73 oz] mass constraint.