

Line Follower

The robot has to follow black line from start to finish as fast as possible.

1. Contest description

After being started, the robot has to run over the course and follow black line. The ranking is determined by the time the robot needed to go from the start to the finish line. The time is measured from referee's signal to the moment the foremost part of the robot crosses the finish line. If the race time exceeds 3 minutes, the referee terminates the race.

The robot must be fully behind the start lane before the race starts. If the robot loses the line, it must return to the line at the place it has lost it or at any place on the line closer to the start (i.e. where it had already run through).

The organizers may allow repeating races or rounds; only the best time of all attempts of a robot will be used for ranking in this first part of the contest. In the finale part, the races will be held on a knock-out basis. In case of a tie, a repeated race may be ordered by the organizers.

2. Robot

The robot is fully autonomous and must not be dangerous or excessively annoying.

Throughout the race (including the start) no external connection is allowed. The robot must not be touched or interfered with in any way since the player starts it until the referee allows so.

Maximum size of the robot is 32(w)x32(h) cm, there is no limit on its length.

Standard Category: The robot may be built using any kind of construction parts / material.

Merkur Category: Vast majority of the robot's mechanical construction must be made using Merkur construction parts*.

3. Playing field

Playing field ground is white. The track is marked by a black line, approx. 1.5 cm wide. The line does not cross itself. Starting and finishing lines are marked by two perpendicular marks 5 cm off the track. Minimal distance between the line and playing field border is 15 cm. Minimal curve diameter is 10 cm.

A robot will be disqualified if it steps off the playing field (any wheel, tracks, leg etc. is fully off the playing field).

4. Power of officials and liability

If a robot or a participant violates the rules, the referee may disqualify them from the race. He may also disqualify the participant or the robot for further races.

No objections against the decisions of the referee or the organizers are allowed.

The organizers may change the rules without prior notice, e.g. based on number of participants, local conditions etc.

The participants are responsible for their robots and their safety and will be liable for all damages caused by them, their robots or their equipment.

The organizers will not be under any circumstances held liable or responsible for any accidents of the participants or any damages caused by the participants, their robots or their equipment.

* see <http://www.merkurtoys.cz/en/>