

Grab them

Deadline: 25.4.2021

Points: 20

Material requirements: Your mobile robot, a gripper, small balls ca 3cm (f.e. Pompoms)



Topic description

A robot has even more tasks in a factory than "just" getting from one place to another. It often has to transport items so that they can be used elsewhere without humans having to intervene.

We wish you a lot of fun with this and the following tasks!

Task description

Build a gripper

To complete this task, you first need a gripper to pick up items (balls) from the ground to transport them from one place to another. Attach a gripper to your robot and upload us a photo of your gripper.

Pick up 3 balls

Place at least 3 balls on the ground in front of your robot and pick up the 3 balls with the robot. Upload a video of your success.

Tip: Pompoms are very easy to make yourself - instructions can be found on the Internet.

Your transportation order

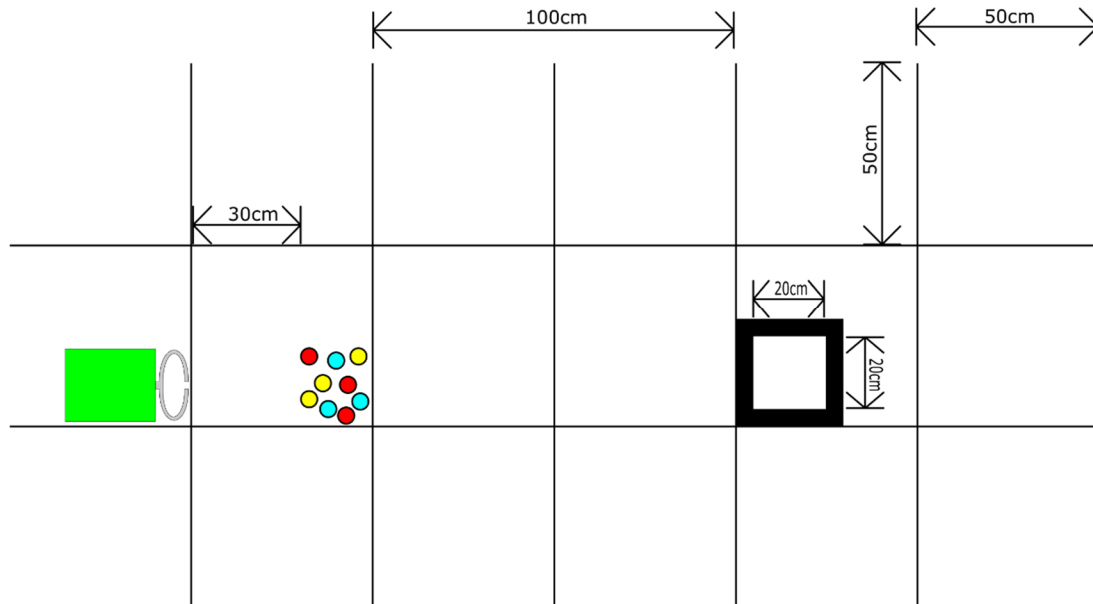
Place your robot behind the starting line and place the balls 30 cm in front of your robot. One meter away, mark a square with a side length of 20 cm. You can use the illustration below to help you. Your task now is to get the robot to put the balls into the prepared square. Upload us a video and your code.

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Evaluation criteria

- 📷 Photo of the gripper
- 📷 Video in which the 3 balls are lifted
- 📷 Success in the transport order (number of balls in the target square)
- 📷 Jury evaluation: The jury evaluates the quality and creativity of the submission.