



La Ferté Bernard

Eurobot^{open} 2004

“Coconut Rugby”

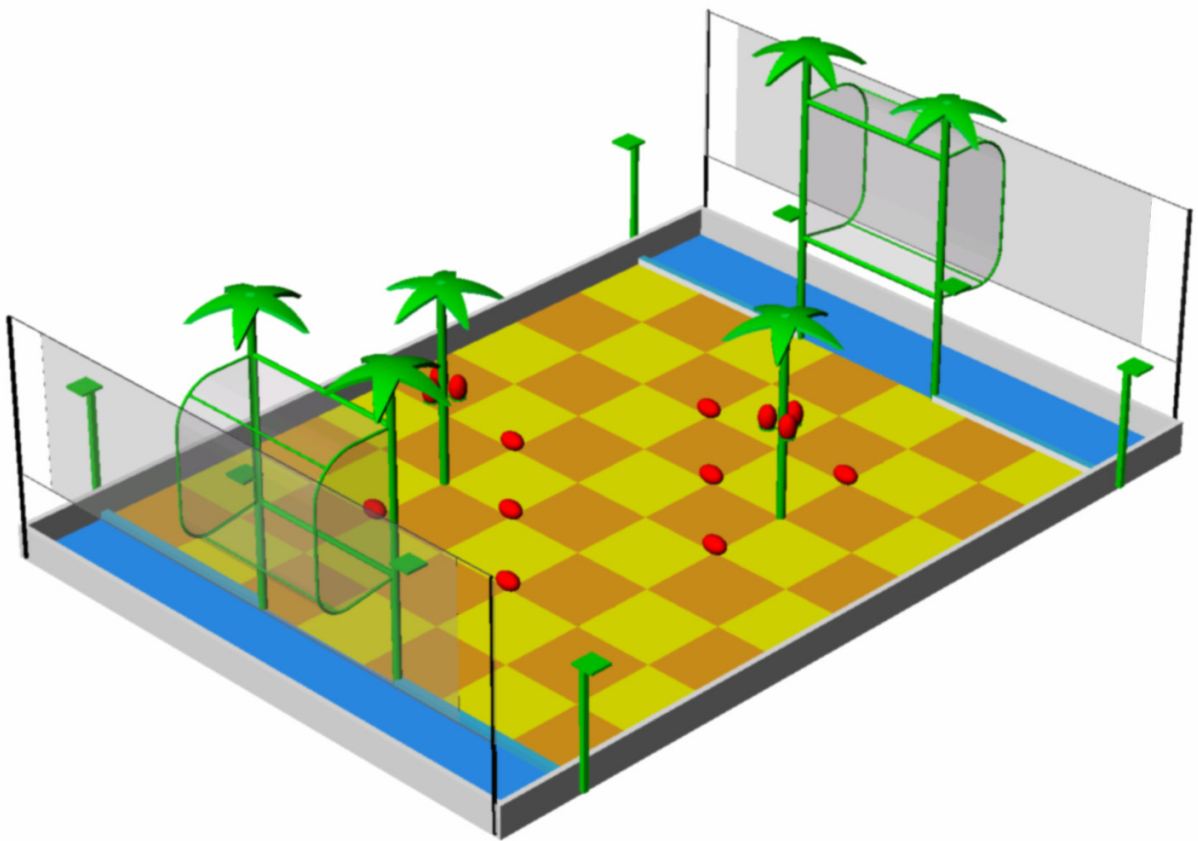


Frequently Asked Question N° 2... Frequently Asked Question N° 2...

EUROBOT^{open} 2004

FAQ N°2

Coconut Rugby



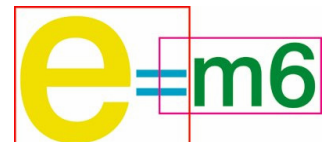
- First law: A robot may not injure a human being, or, through inaction, allow a human being to come to harm.
- Second Law: A robot must obey orders given it by human beings, except where such orders would conflict with the First law.
- Third law: A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.

Isaac Asimov

Radiospares

EDF
Electricité
de France

Sopra
group.



Frequently Asked Question N° 2... Frequently Asked Question N° 2...

1 – Presentation

The goal of this FAQ is to make some points of the rules more accurate. Some remarks are only precision and others are modifications. The information given in this FAQ completes or replaces the information contained in the rules.

If it is needed, other FAQs will be published.

If you are in doubt about a particular point, we advise you to ask the opinion of refereeing committee before the contest in La Ferté-Bernard.

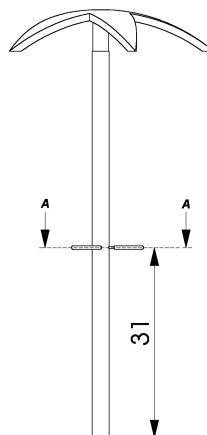
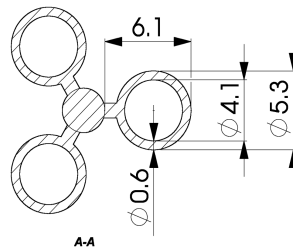
2- Precisions

2.1 What is the height of the border?

As mentioned in the rules, it is set to 7 cm. The modified and valid drawing is present in FAQ#1.

2.2 What is the shape of the supports holding the balls on a coconut tree?

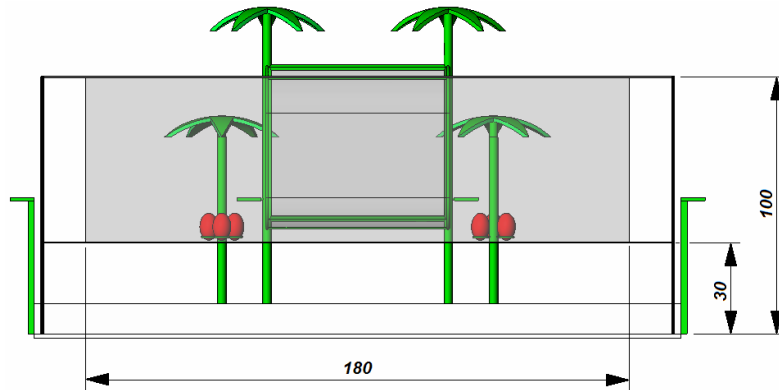
The balls are held by a ring. The drawing is presented below:



Frequently Asked Question N° 2... Frequently Asked Question N° 2...

2.3 What is the shape of the net behind the in-goal?

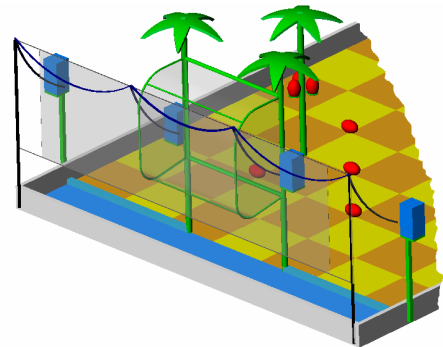
Two vertical nets will be laid, behind the goals, parallel to the width of the table, at the level of the borders. They aim at maintaining in game all the missed drops. Two vertical supports are mounted on each table corner in order to hold these nets. The bottom of the net is located 30cm above the playing field.



2.4 In case of cables connecting the static beacons, where can they be located?

The possible cables connecting the static beacons may not disturb the game. These cables will run outside the table, behind the net. Fasteners will be present. The recommended length of cable between two beacons is 170 cm.

The cables will be laid down that way:



2.5 Is it possible to paint the static beacons located on the border of the playing field red?

No. Red-painted, static or embedded, beacons would enhance the risk of confusion balls/beacons for basic colour based sensors (video camera or other sensor).

2.6 Dealing with the technical file, is it possible to focus on a specific part of the robot?

Yes, it possible to focus the poster only on a part of the robot that is particularly interesting.

2.7 Must the secondary beacon be horizontal?

Reminder (see Rules, §4.2): “The top surface of the embedded beacons shall be plane, horizontal and covered with Velcro (hard snagging face) in order to attach the coloured mark.” This rule is valid for a robot laying flat on the playing field.



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3 - Modifications

3.1 Which balls will be selected in La Ferté-Bernard: those weighing 45g or those weighing 80g balls?

Unfortunately, consequently to a failure from the supplier, balls from two slightly different stocks have been sold. Dimensions are unchanged, but the density (and thus the weight) varies from a lot to another. In order to limit the problems for the robots, all the balls will be from the same stock for a given competition. Please forgive us for that.

During Eurobot^{open} matches will be played with balls weighing 45g.

During National qualifications in Austria, Germany, Serbia Montenegro and Switzerland, matches will be played with balls weighing 80g.

During National qualifications in Belgium, Czech Republic, France, and Spain, matches will be played with balls weighing 45g.

The tolerance on balls weight remains +/-25%

3.2 May we install a video camera in the mast of the beacon support?

Reminder (Rules §3.8): The mast cannot host any part of the M.R. Even though, in order to make localization easy, it is allowed to place, within the mast, sensors connected to the beacon. To be replaced by: "the mast can only host systems connected to sensors".

3.3. Of what material are the coconut trees and obstacles on the playing field made?

They can be made of either metal or wood.

3.4. What is the diameter of the fixing holes that hold the coconut trees on the table?

For technical reasons related to solidity, the diameter of these holes will be 16mm. Robots must adapt to this constraint in order not to jam on these holes.

Good luck to all of you.

*Robotically yours,
The refereeing committee*