

ABU Robocon 2023 Phnom Penh, Cambodia

FAQ5

20230225

Please read the rule book carefully before sending any questions. Please cooperate with us for smooth operation in a limited time.

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[FAQ5 Posted on March 03, 2023 Providing answers for questions received from 22 Jan 2023 - 25 Feb 2023](#)

Please always put the date of when you add FAQ

2.Game

2.1 Game Procedure

FAQ #	Question	Answer
2.1-73	Can ER bring RR over moat area to put RR into Angkor Blue area?	Yes, but ER is prohibited to enter Angkor Wat Area including the space above nor can they touch the Moat area.
2.1-74	When our ring is messed up by the opposing team, do we get into the rearrangement? Meanwhile, can the opposing team's robot continue to play, or must it be stopped or restarted?	If the opponent team damage your ring arrangement on the Ring Zone, that team violate the rule and must retry. During his retry, your team members can rearrange the ring.
2.1-75	When ER has to restart, will RR be affected?	If you ask for retry for ER, RR must also retry as well. It is not necessary for ER and RR to restart at the same time.
2.1-76	Can we use fly robot like drone for Automatic robot and manual robot?	No.
2.1-77	Can we prevent the opponent's rings from entering poles by using our robots? In the current rule, we think preventing opponent's rings from entering poles is possible, by entering robot's arm on poles.	Yes, robot can prevent opponent's ring into pole. When preventing opponent's rings from entering poles, orthographic projection of ring which robot holding can overwrap the pole.
2.1-78	Can we use hydraulics system for the jumping mechanism of the RR, and also can we use step movement (as in climbing the steps of a ladder) for our RR.	Yes, you can.
2.1-79	Will it be a violation if one team takes hold of the other team rings.	No.

2.1-80	What happens when red team strike blue team top ring off the pole who wins?	The red team violate and must retry. Please kindly refer to FAQ4 2.1-62.
2.1-81	Can we use camera for trajectory planning and all such tasks?	Yes, you can.
2.1-82	According to FAQ 2.1-37 and 2.1-15, we would like to confirm whether picking up rings fallen in the Moat Area is allowed. If it is allowed, is there any condition?	It is allowed when you didn't touch the moat area.

2.4 Retry

FAQ #	Question	Answer
2.4-14	If RR retries and there is a ring on both robots, should the ring be removed again to the field?	The rings must be removed and put back to the ring zone.

3. Violation

FAQ #	Question	Answer
3-13	According to FAQ 2.4-13, if the ring is deformed after casting, it won't be a violation. Yet, based on FAQ: 3-9, the act of combining, dismantling, tearing and ripping rings is a violation. What if a ring is deformed as the situation mentioned in the FAQ: 3-9 after casting, is it a violation?	No. it is not.
3-14	In fact, this "Ring Violation and Non-Violation Rules" is not a rule, and is completely redundant. It is impossible for a team to damage its own rings. After the game starts, both teams were busy picking up and throwing out rings. How could they have time to damage the opponent's rings? When they don't need to throw any more rings and	The Ring Violation and Non-Violation Rule refers to Ring Arrangement Structure on the Ring Zone. We would like to avoid the structure of the ring before the game start could damage the rings for the contest.

	have some leisure time, the competition is over. To damage the rings again is to create trouble to the organizing committee.	
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5 Robots

FAQ #	Question	Answer
5-21	<p>Based on FAQ 5.6 we think we can put a ring in a pole with our team's robotic arm. Therefore 2.1-53 and 2.1-54 should be rescinded.</p> <p>Reason 1: Even if you permit the strategy using robotic arm, the concept of the game and the key point of the game cannot be destroyed. Therefore to respect the diversity of mechanism and strategy, "Toss" should not be limited to throwing.</p> <p>Reason 2: The strategy using robotic arm is permitted in 5-6, so some teams should make robots with robotic arm.</p>	<p>FAQ2.1-53 and 2.1-54 will not be rescinded. You can build robot arm mechanism. You can toss rings by meeting requirements under FAQ2.1-53 from the robot arm. You cannot drop rings into the pole from the robot arm.</p>

7 Teams

FAQ #	Question	Answer
7-21	I would like to ask is it allowable that all of three members control the robots at the same time? For example, two members control ER and one member control RR.	Yes, you can.
7-22	Can a robot have more than one operator?	Yes, you can.

8. Other

FAQ #	Question	Answer
8-31	Can you please provide the elastic property & other properties of the official ring material? And please provide the way to measure it.	Sorry, we don't have the information.
8-32	We got the ring sample sent by your official and when we weighted the ring we got the mass value of 95 gram. The value is contradicting with your answer of 110g mentioned in FAQ 3- 21 . So what is the official weight of the ring?	We have revised the official weight ring base on Appendix 2 (revision). Its official weight is from 94-97g.