

RoboCup Soccer Humanoid League Rules and Setup for the 2012 competition in Mexico

4 The Design of the Robots

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4.3 Size Restrictions

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4. If the arms are maximally stretched in horizontal direction (L_{armspan}), their extension must be less than $1.2 \cdot H$.

*refine definition of arm length to fix a loop-hole in the rules, where a robot without a shoulder joint in the frontal plane can have extremely long under arms

Based on the *human-systems integration design considerations* of **Anthropometry and Biomechanics of NASA** at: <http://msis.jsc.nasa.gov/sections/section03.htm>

We propose:

4.1 The length of each arm L_{arm} shall not exceed $0.44 \cdot H$. The length is measured from the shoulder rotating joint to the tip of the hand.

