

## 2021 Most Robust Design Scoring

**Total: 100pts**

**Criteria:** For robots that are tough, powerful, rugged; are insensitive to variation; able to work under any conditions; consistency in performance; are reliable.

***“The assessment is about being well built and functioning reliably”***

Judges will identify the machines that, as a system,

- are well architected
- have the design content to excel at executing the tasks needed to play the game, and
- implement team’s game strategy reliably.

The functional elements should be judged to be viable and, if built, would work as intended. The machine should be judged as an overall system - not based on a single unique feature. The notional design should be realistic and actionable.

Judges will evaluate the robot robustness and reliability based on their observations:

- Observed Breakdowns during matches.
- Observed repairs needed during or after match play, and the observed success/failure of the repairs.
- Observed self-extraction of a difficult situation during match play.
- Observed Sturdiness: Assemblage Construction; sturdy construction; assemble parts are proportional, balanced and neatly attached. Dimensions and proportions, assemblage & construction techniques.

If desired, use a 100-pt scale to aid your assessment.

Add notes when applicable to aid your assessment.

Team#	School/Team	Score	Rank	Team#	School/Team	Score	Rank
Notes:				Notes:			
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Judge Name/number (print): \_\_\_\_\_