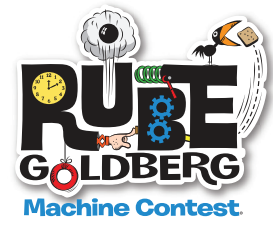


2019 DESIGN AND BUILD FOR LIVE CONTEST

2. SPECIFICATIONS AND RULES FOR LIVE CONTEST



Machine Specifications	Minimum	Maximum
Complete official task	Required	
Steps	10 steps - APPRENTICE and DIVISION I 20 steps - DIVISION II	75 steps
Machine volume (Footprint Area x Height of highest point on the machine)	0 ft ³ (0 m ³) (None)	300 ft ³ (8.5 m ³)
Maximum machine dimensions	0' x 0' x 0' (0m x 0m x 0m) None	L W H 10' x 10' x 8' 3m x 3m x 2.4m
Machine introduction and walk-through	0 minutes (None)	3 minutes
Single run time	0 minutes (None)	2 minutes
Reset time	0 minutes (None)	8 minutes
Machine noise	0 dB (None)	100 dB
Air compressor hoses, AC or DC power cords, and/or water hoses running to or from the machine	0	2 total
Hazardous materials, explosives, or flames	Not allowed	
Electrical arcing	Allowed with safety precautions	
Live animals	Not allowed, but humans are encouraged	
Corporate logos	Corporate logos are allowed and may be used within the machine footprint, on team clothing, and on team website pages. All responsibility for logo copyright permission rests with the team.	
Use of profane, indecent, or lewd expressions	Not allowed	
Objects flying beyond machine footprint	Not allowed	
Safe for participants and observers	Required	

Refereed Machine Run Specifications	Minimum	Maximum
Machine introduction and walk-through	None	3 minutes
Team members participating during refereed and judged machine operations	None	4
Team members in contact with machine during a Contest Run	None	2 simultaneously
Reset time limit	None	8 minutes
Destructive action against other machines	Contest disqualification	

LIVE ONLY