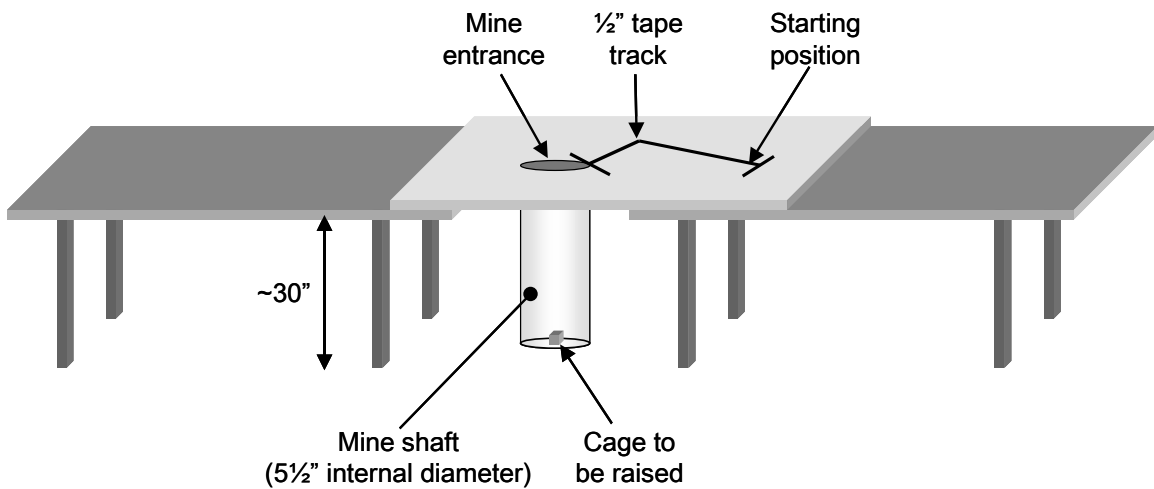
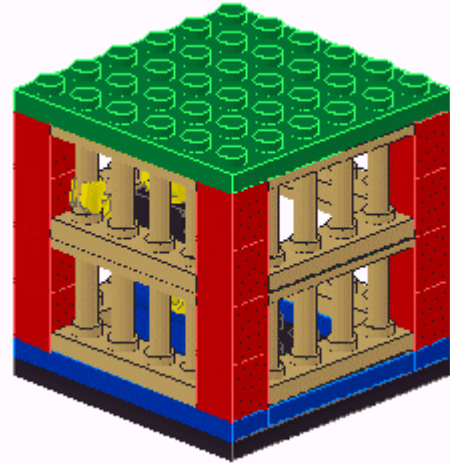


Mine Rescue



Description of the contest

The objective of this competition is for a contestant 'bot to rescue the minifigs trapped in the cage at the bottom of the mine shaft in the fastest time possible. This will be done by lifting the cage containing the minifigs to the surface from a mine shaft placed between two tables. The minifig cage is a 6x6x4 stud structure as pictured. Each contestant robot starts at a position some distance from the mine entrance. The minifigs are rescued when the cage is raised so that it is clear of the mine entrance.



Rules

At the start of the competition, the 'bot will be placed behind the starting position.. The 'bot must be placed in such a way that no part of it is over the starting position line. The contestant will be given a starting whistle or other audible command at which time the controller (RCX, Spybot, Cybermaster etc) may be activated. They may then perform any maneuvers they need to attempt to gain access to the mine entrance and affect the rescue. The rescue will be against the clock and will be deemed to have been successful when the cage is clear of and above the mine entrance. The 'bot with the fastest time will be the winner. If none of the contestant 'bots can raise the cage, or if there is a dead heat, then,

Mine Rescue (cont.)

the winner will be decided by a popular vote of the observers present at the end of the competition.

These rules do not require the 'bot to move to the mine entrance if the design does not require it. However, in the event that the 'bot does need to move to the entrance, there will be a ½" wide black tape track with a 30 degree turn leading to a 6 inch wide entrance edge marker line at right angles to the lead line.

'Bots will not be subject to a weight limit or size limit.

'Bots must be constructed of 100% Lego brand parts. No glue, melting or modification of Lego brand parts is allowed. (Non Lego brand batteries are permitted ;)

'Bots will be permitted a maximum of 3 minutes to complete the rescue.

'Bots will each have a minimum of three attempts to complete the rescue. They may use their best time of the three.

The cage may not be placed in the exact center of the 5½" circle at the bottom of the shaft. However, the cage will be placed in such a way as to have ¾" clearance all round.

The mine shaft will be approximately 30" deep. The shaft tube will be a transparent tube, so all the action will be clearly visible to the audience.

The distance from the starting position to the mine entrance will not be published until the first day of BrickFest.

'Bots must be totally autonomous. Remote controlled 'bots will be disqualified.

The controller (RCX, Spybot, Cybermaster etc) may not rely on an external computer for computational assistance via infrared or wireless communication.

For adherents to the metric system of measurement, please use the 1 inch is equivalent to 25.4 millimeters conversion for all dimensions given in this document.

The organizers are not and cannot be held responsible for loss or damage to contestant's 'bots as a result of taking part in this contest. Contestants enter the competition entirely at their own risk.