Optimum Stack Details

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# Optimum stack weight

Assuming we are aiming to score max points average points we would need to score 40 cones. Seeing that there are 5 possible bases to score them on, four mobile and one static base, we work out lowest effective stack height to score max points. 40/5 = 8. So, 8 cones is the ideal amount of cones we want to put on each goal. If we sub 8 in to the height equations we made earlier (Mobile **goal:** 4.80” + (8-1 \* 2.75”) = 24.05”/ **Static Goal:** 19.85” + (8-1 \* 2.75”) = 39.1”) we can work out that mobile goals would have a height of 24.05” and the static goal of 39.1”. Therefore, by looking at this data we can conclude that we should aim for our robot be able to lift to a minimum height of 39.1” or 100 cm for the sake of simplicity (39.1“ = 99.314cm).

# Optimum stack height