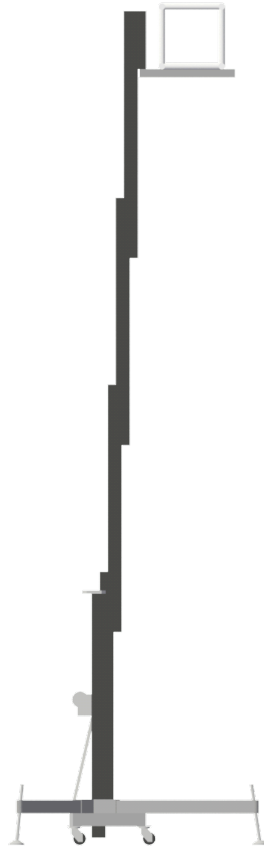
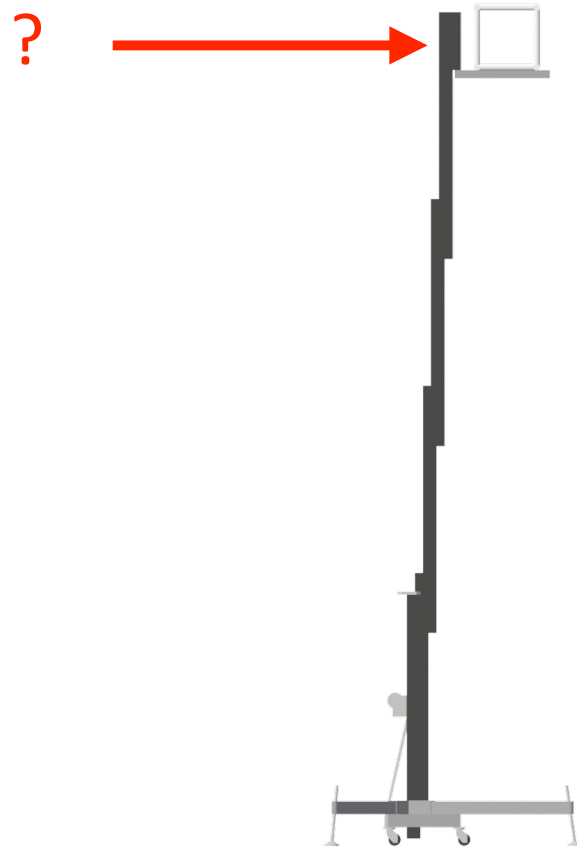


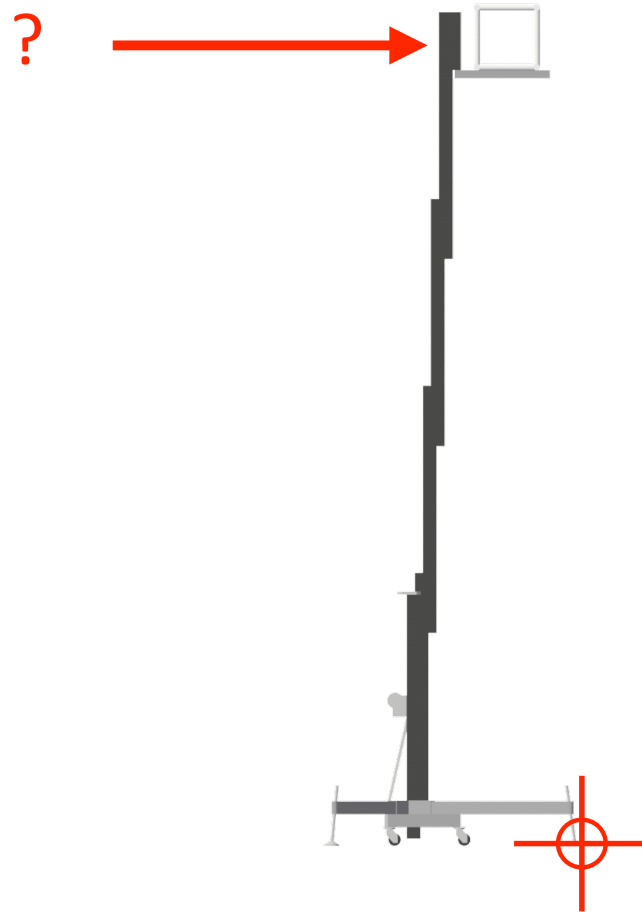
Tipping Force



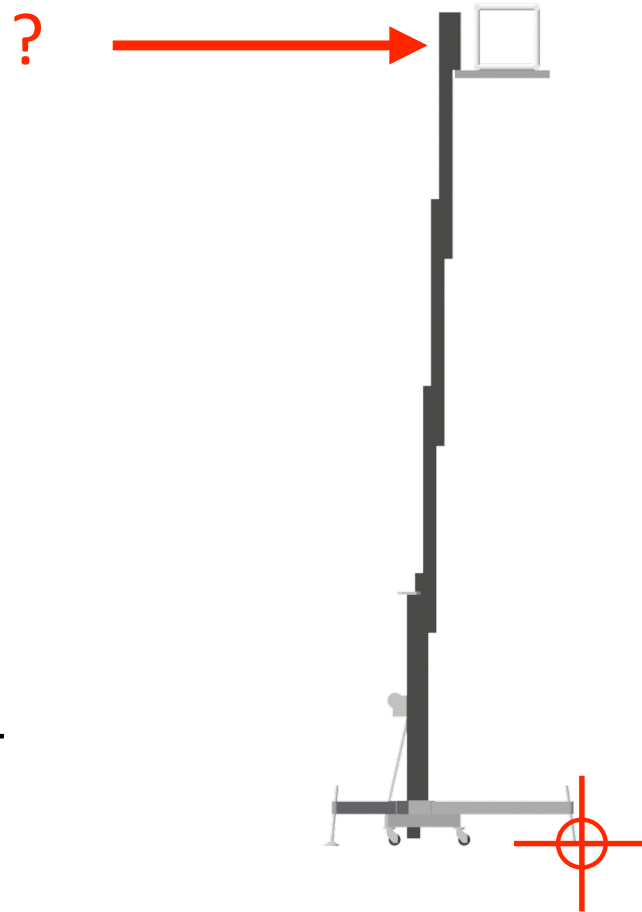
Tipping Force



Tipping Force

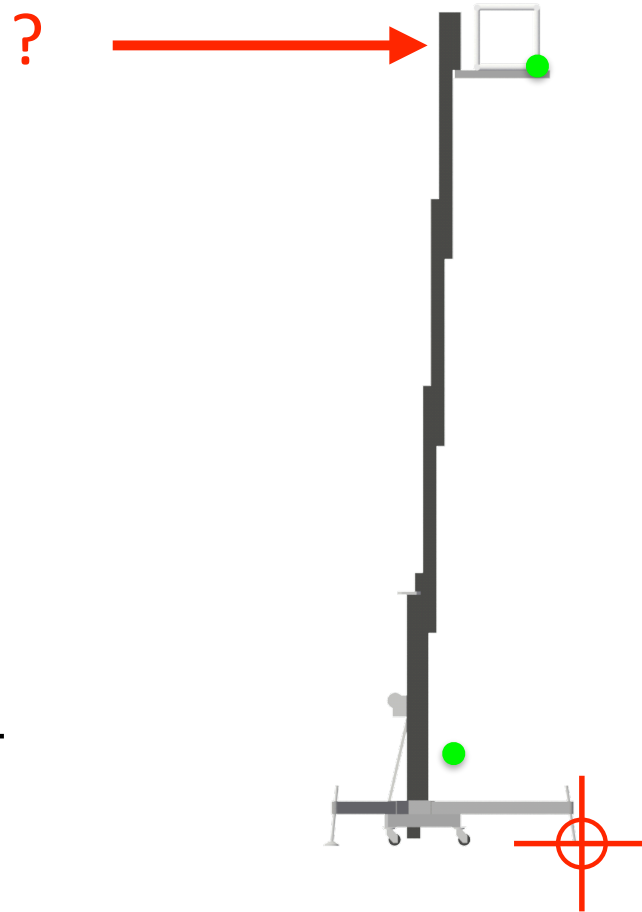


Tipping Force



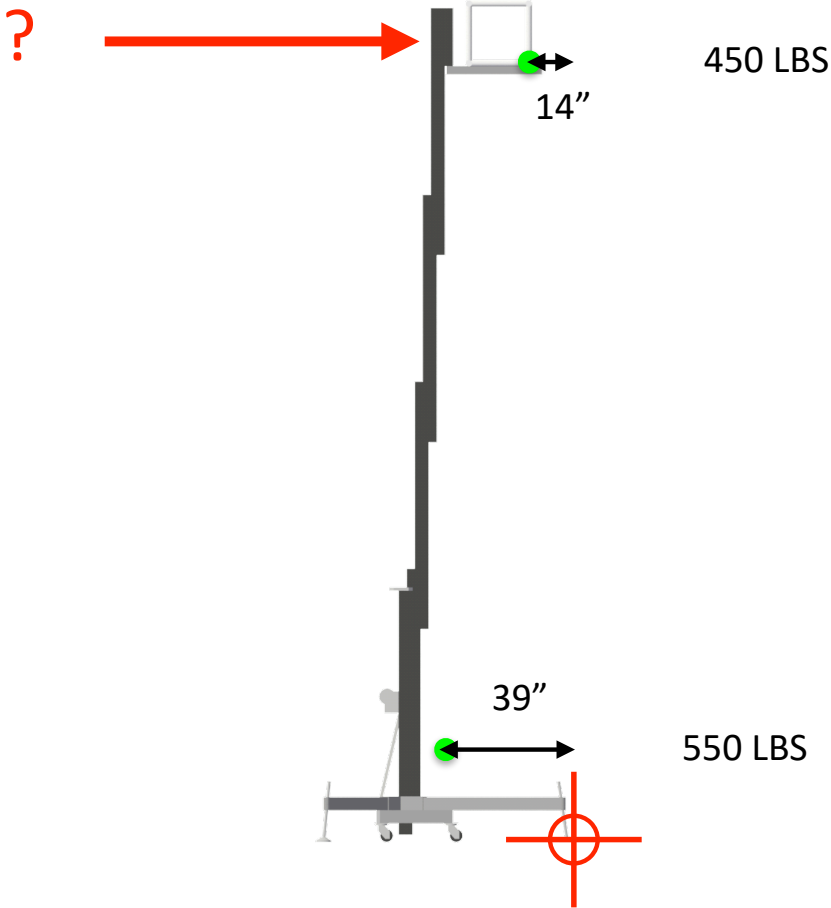
$$(D_{CG}) = \frac{F_1 D_1 + F_2 D_2}{(F_1 + F_2)}$$

Tipping Force



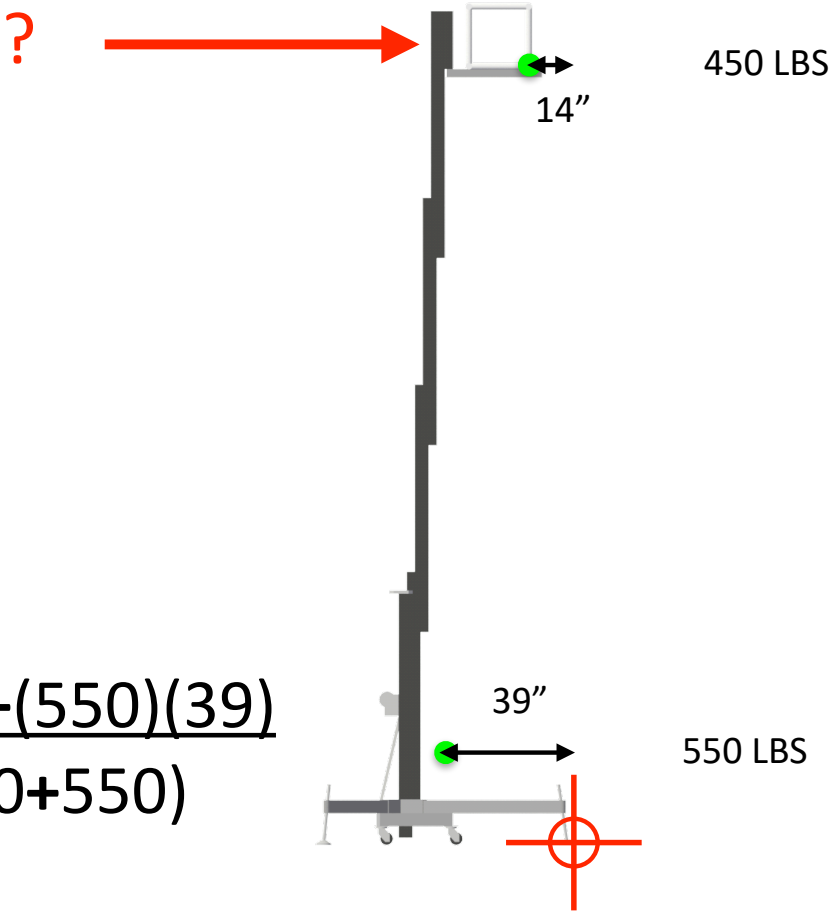
$$(D_{CG}) = \frac{F_1 D_1 + F_2 D_2}{(F_1 + F_2)}$$

Tipping Force



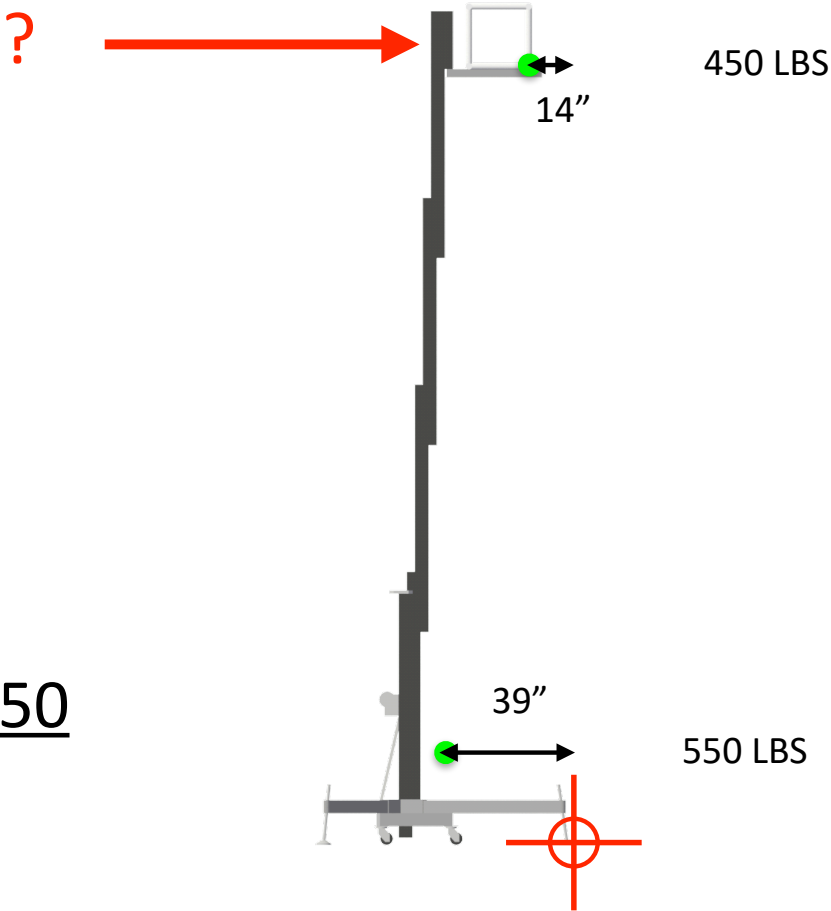
$$(D_{CG}) = \frac{F_1 D_1 + F_2 D_2}{(F_1 + F_2)}$$

Tipping Force



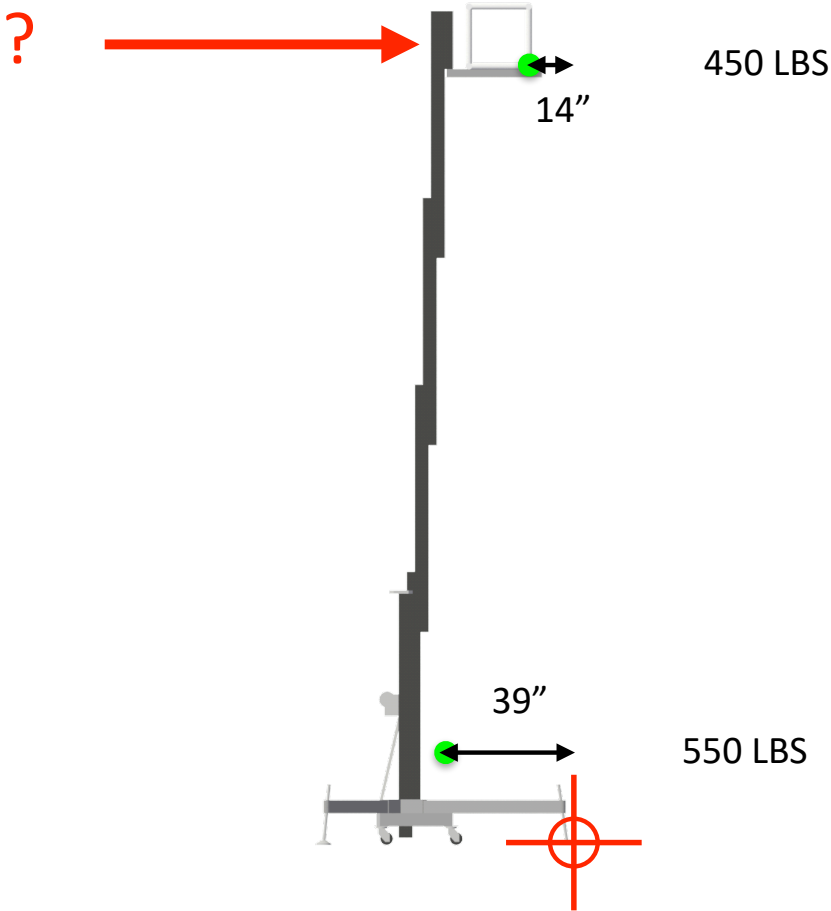
$$(D_{CG}) = \frac{(450)(14) + (550)(39)}{(450 + 550)}$$

Tipping Force



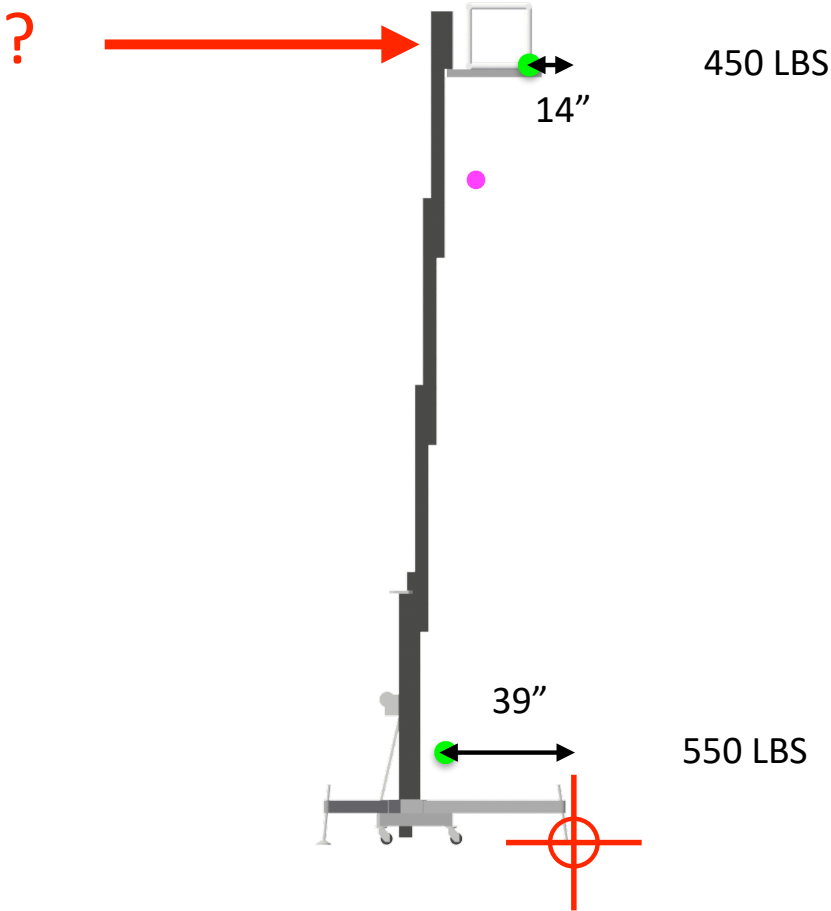
$$(D_{CG}) = \frac{6300 + 21450}{1000}$$

Tipping Force



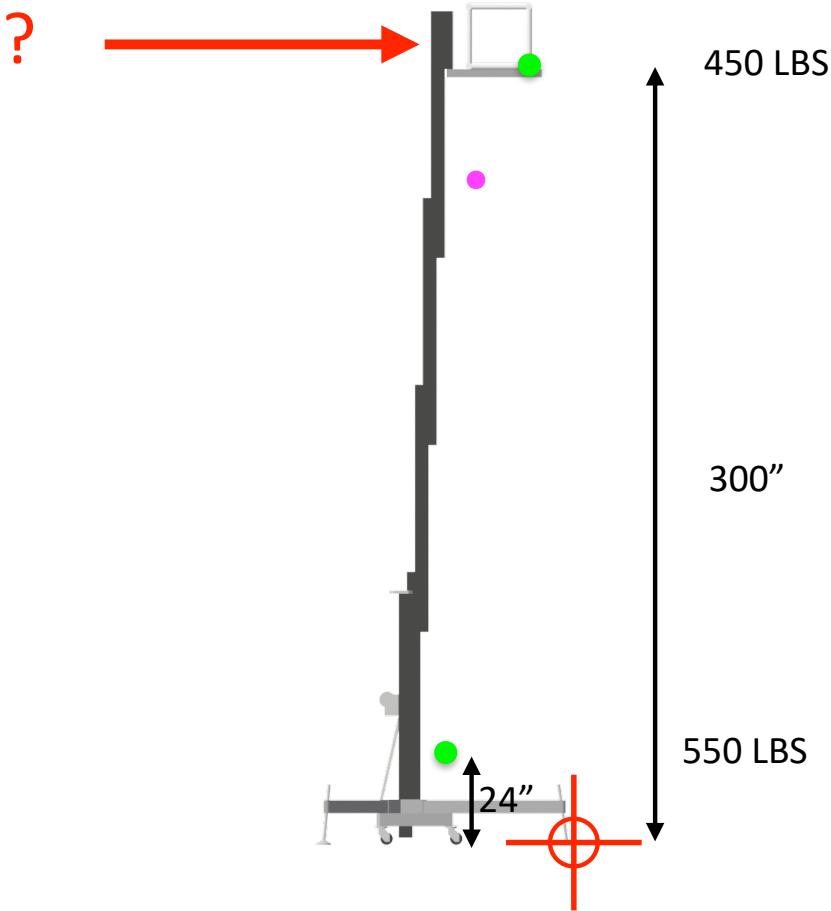
$$(D_{CG}) = 27.75$$

Tipping Force



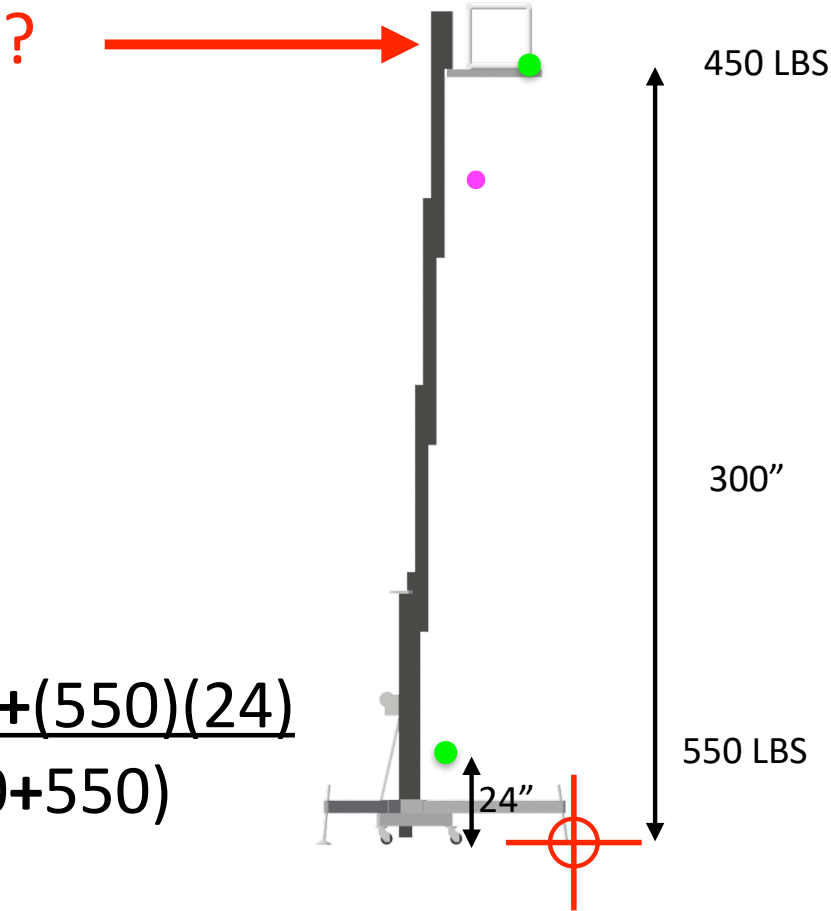
$(D_{CG}) = 27.75$

Tipping Force



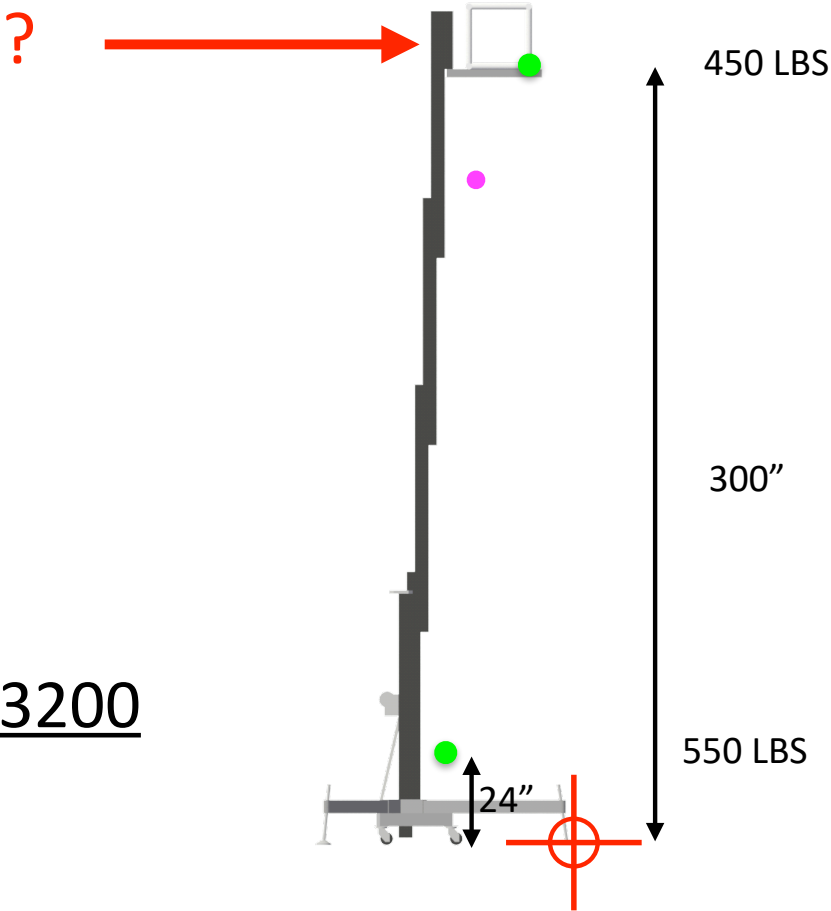
$$(D_{CG}) = \frac{F_1 D_1 + F_2 D_2}{(F_1 + F_2)}$$

Tipping Force



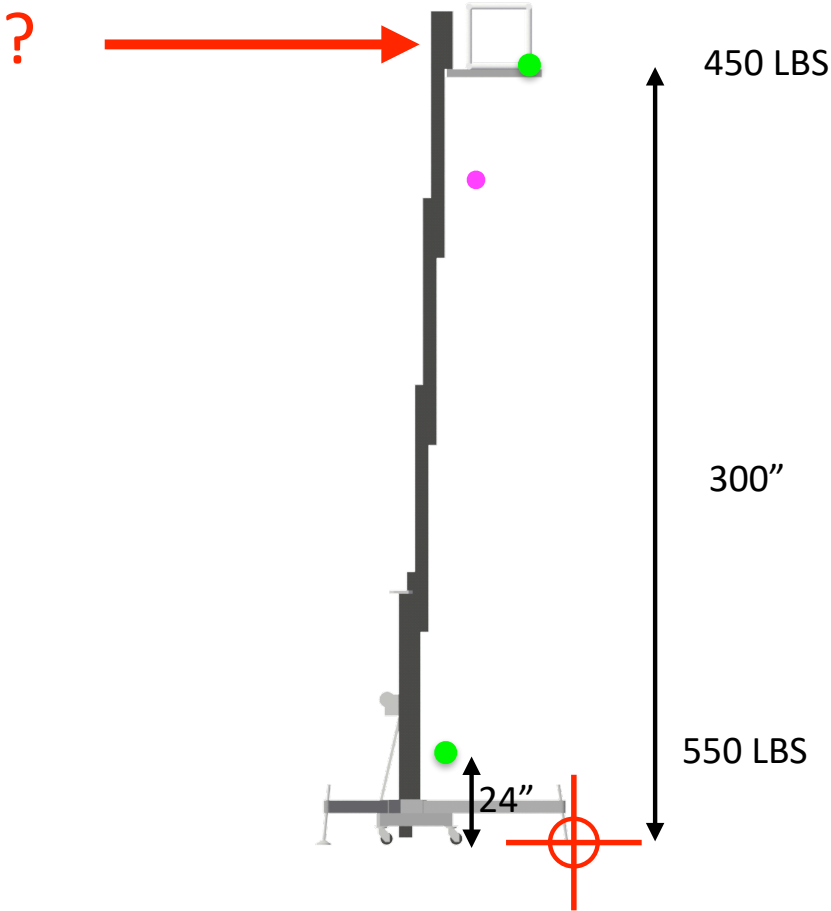
$$(D_{CG}) = \frac{(450)(300) + (550)(24)}{(450 + 550)}$$

Tipping Force



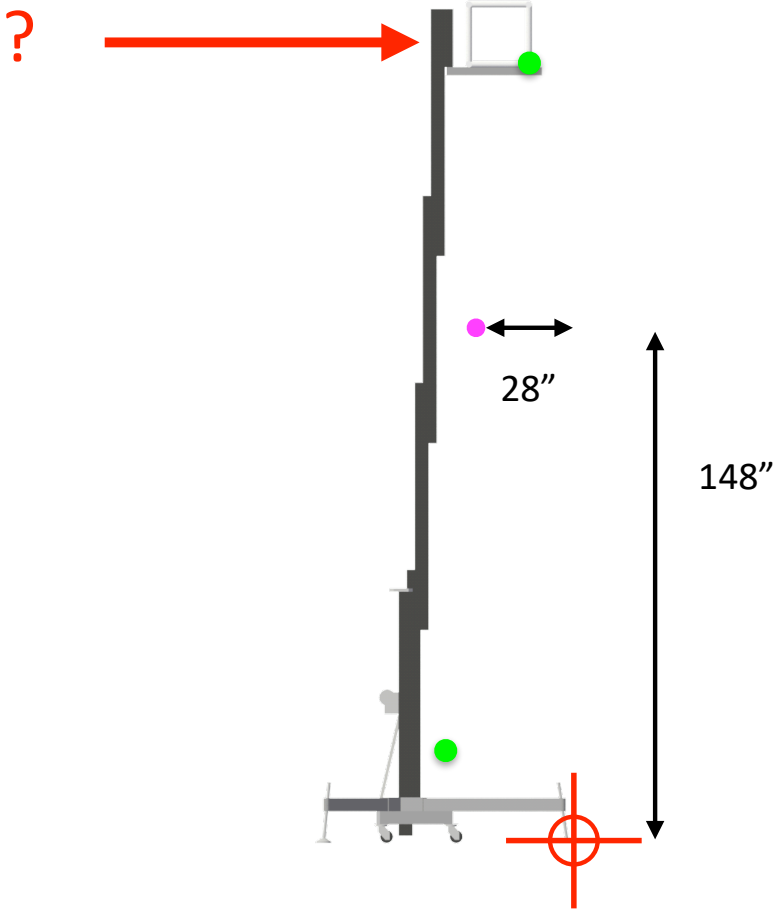
$$(D_{CG}) = \frac{135000 + 13200}{1000}$$

Tipping Force



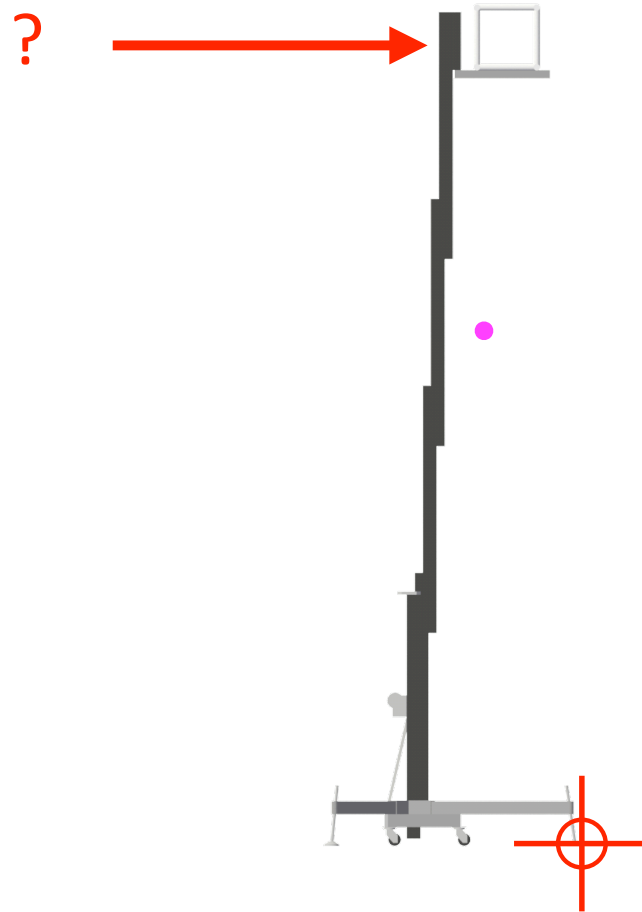
$$(D_{CG}) = 148.20$$

Tipping Force

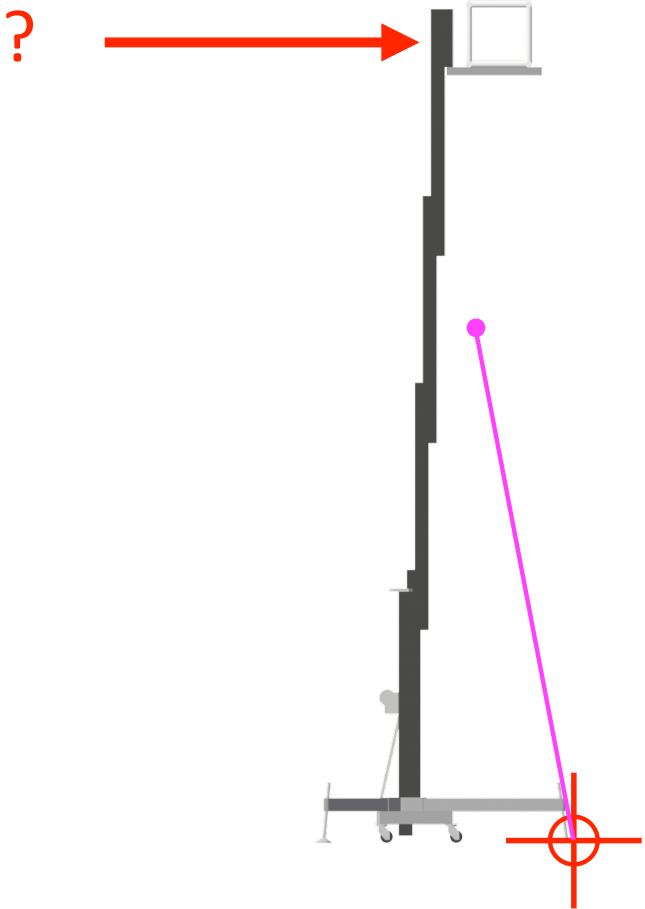


$$(D_{CG}) = 148.20$$

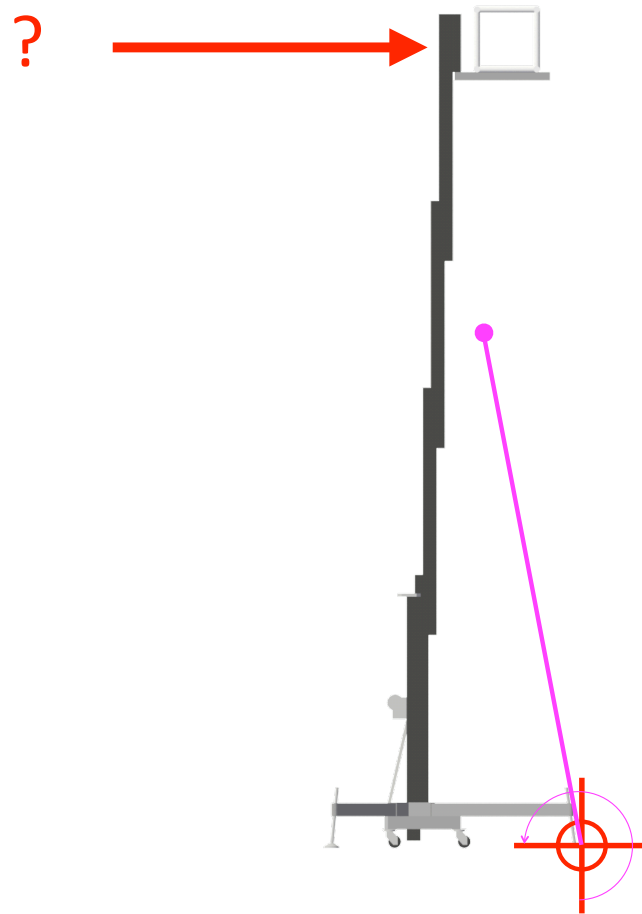
Tipping Force



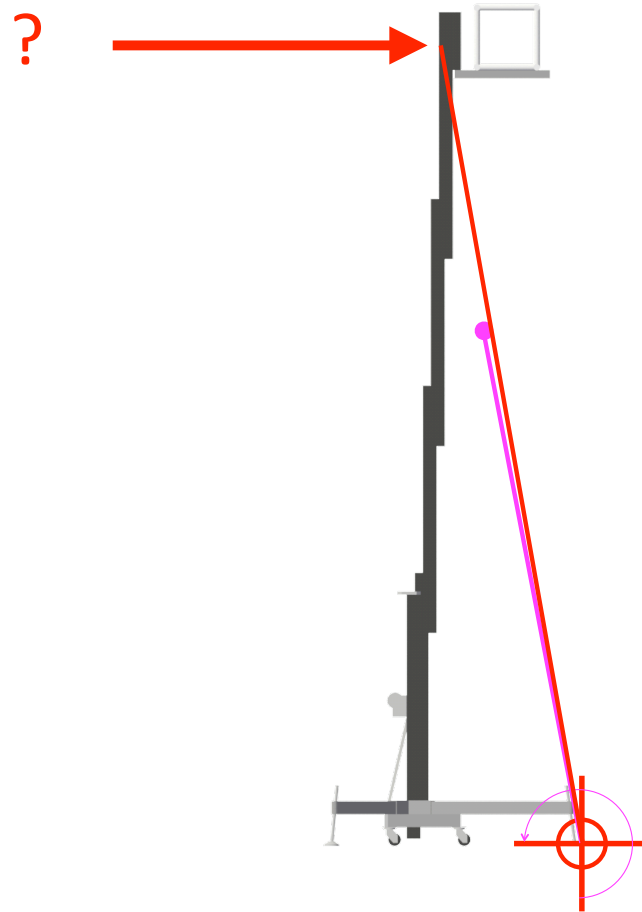
Tipping Force



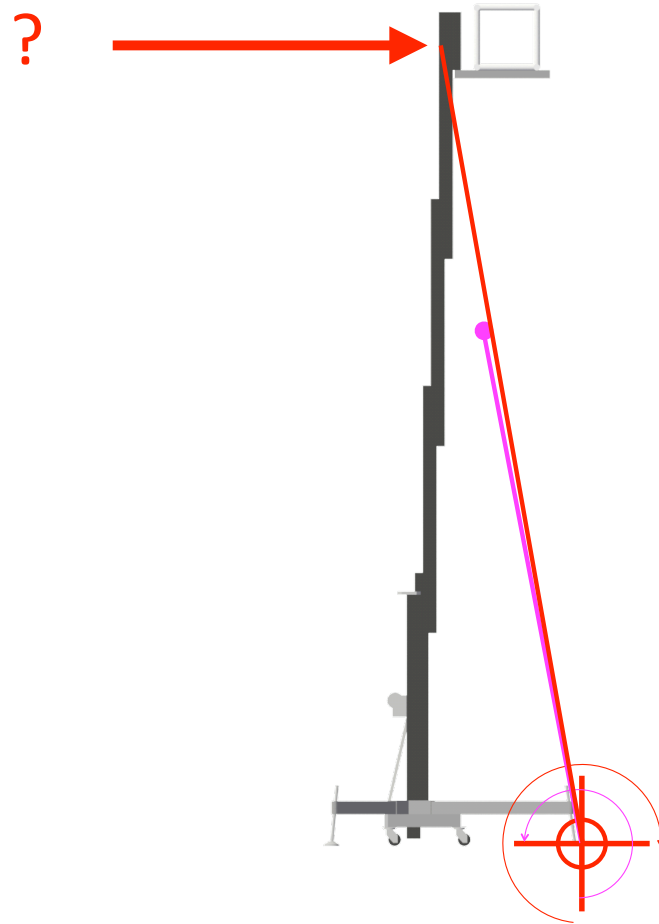
Tipping Force



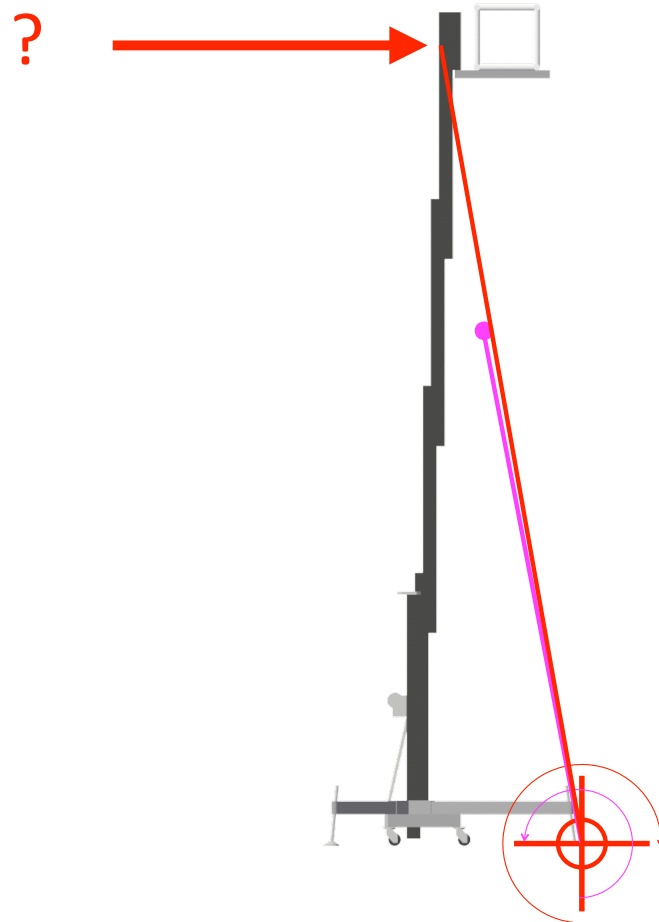
Tipping Force



Tipping Force



Tipping Force

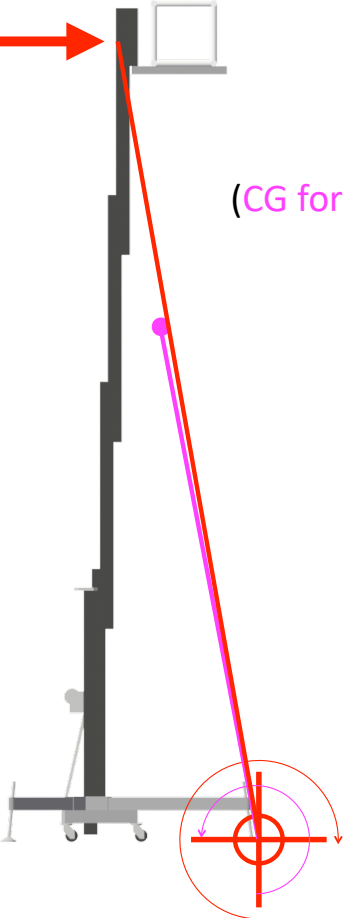


Torque of the CG = Torque of the Tipping Force

Tipping Force

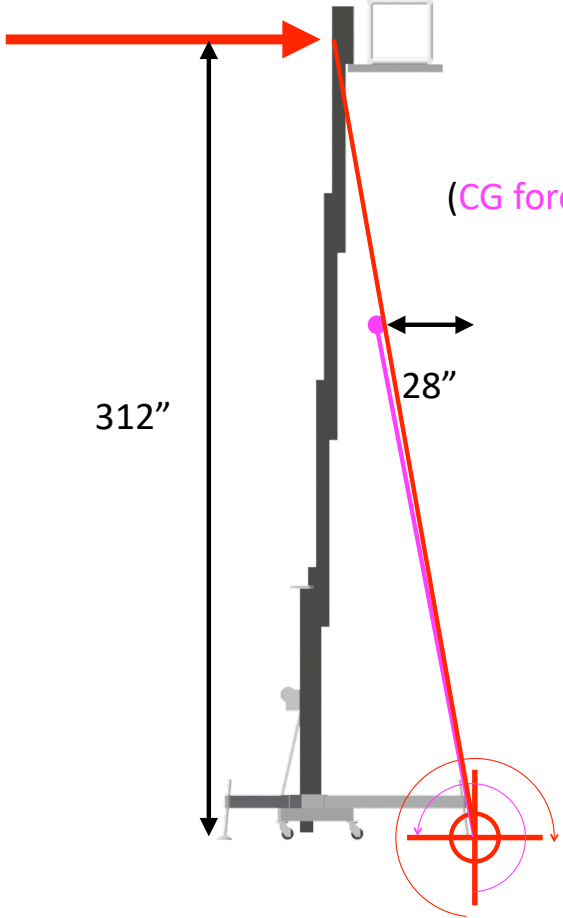


$$(CG \text{ force})(\text{Horizontal distance from tipping point}) = (\text{Tipping Force})(\text{Height from tipping point})$$



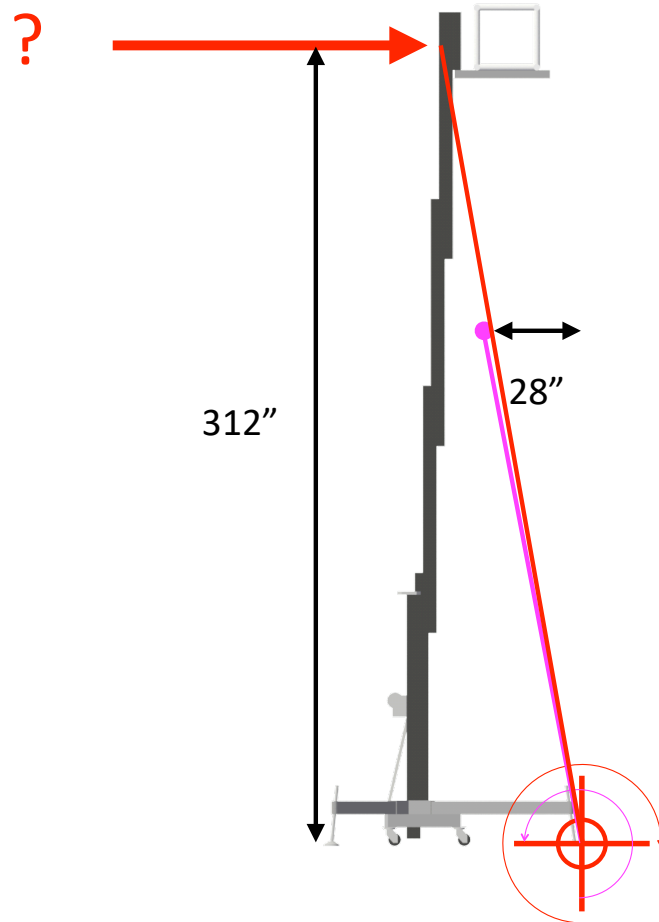
Tipping Force

?



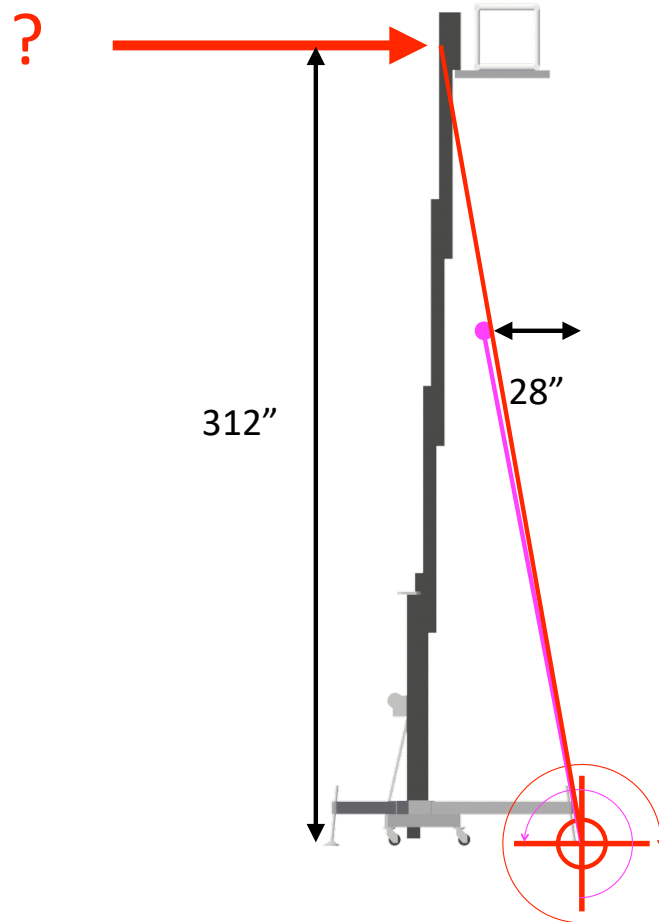
$$(CG\ force)(Horizontal\ distance\ from\ tipping\ point) = (Tipping\ Force)(Height\ from\ tipping\ point)$$

Tipping Force



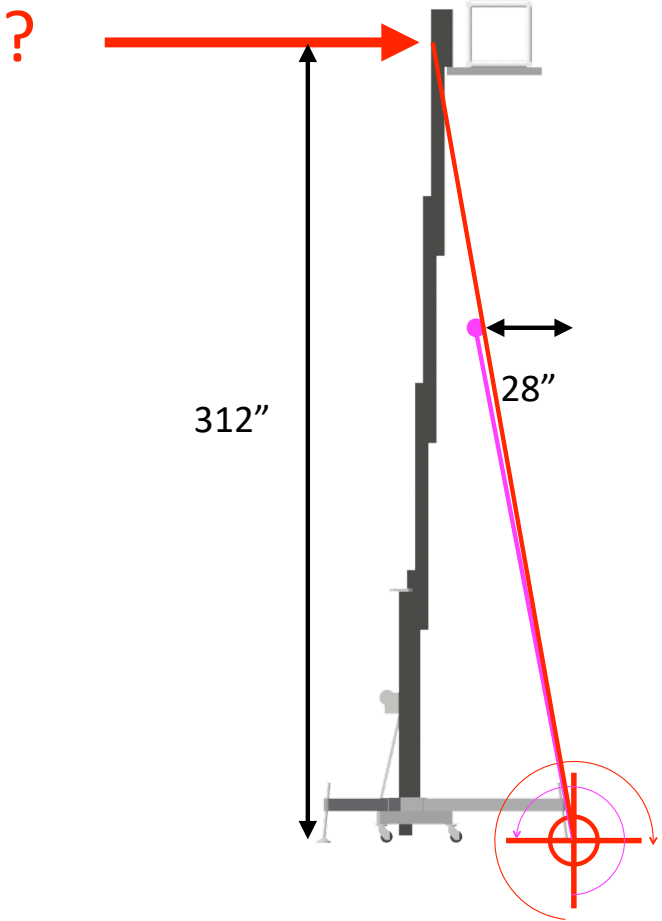
$$(1000)(28) = (\text{Tipping Force})(312)$$

Tipping Force



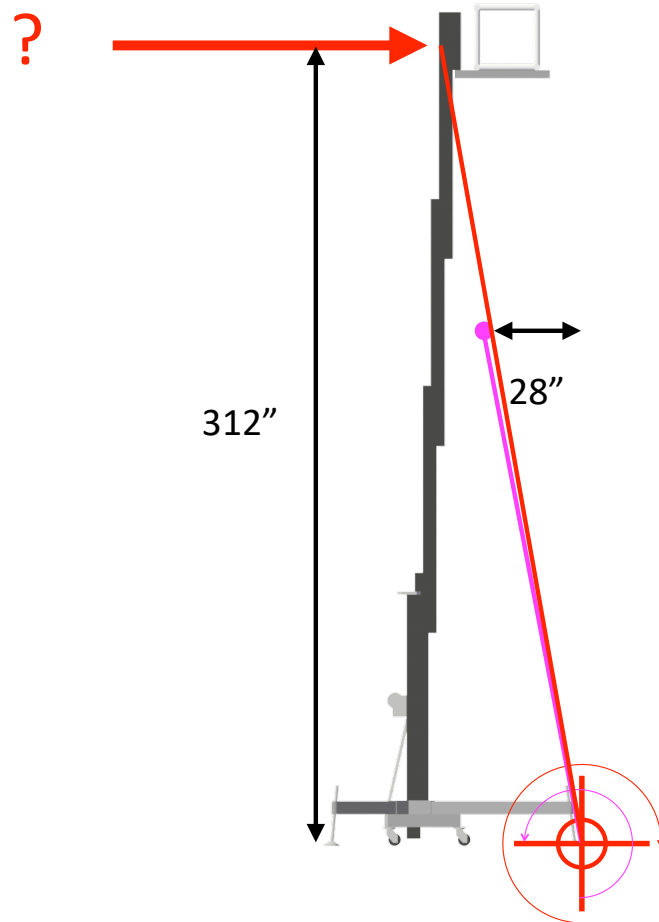
$$28000 = (\text{Tipping Force})(312)$$

Tipping Force



$\frac{28000}{312} = \text{Tipping Force}$

Tipping Force



89.94 LBS = Tipping Force