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Scissor lifts, as depicted in figure 1, are a type of mechanism that allows for vertical displacement of some load, through the use of linked, folding supports, in a crisscross "X" pattern, referred to as a pantograph (or, simply, a scissor mechanism). Scissor lifts are widely used in industrial applications, and also form a staple design

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4 1.1 Force and Stress Analysis The force analysis is based on the assumption that the scissor jack is loaded vertically symmetrical. Figure 3: Forces in Scissor Jack members The maximum capacity for the scissor jack is the 600 kg. Maximum Load = 600 kg, $F = 600 \text{ kg} * 9.81 \text{ m/s}^2 = 5886 \text{ N}$ $L = 145 \text{ mm}$, the length of the arms (From hole center to ...

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