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longitudinal thrust to lift a vertical load. The geometry is solved using the cosine rule and lifting forces and efficiencies are calculated. Calculation Reference Machine Design

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In addition to the geometric  
calculations (can you provide a  
sketch and your calcs to date?)  
there will need to be some

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additional lifting capacity to overcome various friction loads, as well as to accelerate the main load and and the

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The lift mechanism that was eventually built and implemented was a 3-level scissor lift. In order to analyze the forces throughout the lift structure, a set of mathematical equations was derived. From these equations it was discovered that prudent



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placement of a lift's actuator can significantly reduce the forces required of the actuator and ...

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Design Equations for Scissor Lift:  
For a scissor lift that has straight,  
equal-length arms, i.e. the distance  
from the horizontal-jack-screw

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attachment (or horizontal hydraulic-ram attachment) point to the scissors-joint is the same as the distance from that scissor-joint to the top load platform attachment.

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Scissor Lift Jack Equations and

*Page 24/43*



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Key words: calculation, design,  
structural analysis, elevating  
platform, finite element 1.0

INTRODUCTION The scissors-  
type elevating platforms are made  
for human and/or load vertical  
transport. They are of great use

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For the assembly works, the  
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DESING AND CALCULATION OF  
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5.2 Scissors lift For a scissor lift

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Force required to lift the load is dependent on, Mounting of cylinder on the links The length of the link. Formula used Where  $W$  = Load to be lifted  $S = a^2 + L^2 - 2aL \cdot \cos$  the cylinder.  $L$  = length of Scissor arm = 4.2 m = angle of cylinder with horizontal. Now the maximum

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Design and Construction of  
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Scissor Lift Center Loaded Force  
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(Degrees) = Results Force for  
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Scissor Lift Jack Force Bottom  
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Design of hydraulic scissors lifting

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platform, 41 pages ... It contains the 3D model of the lift, calculations of the load, several diagrams, charts, and stress calculations, which confirm the viability and validity ... “ A scissor lift elevator is a vertical transportation cab which is raised

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Design of hydraulic scissors lifting platform

So here is the lift for exapmle

Scissor Lift I need to know .. what is the exact force from the

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calculation is made by assuming material of cast steel. Let  $L_1$ ,  $L_2$ ,  $L_3$ ,  $L_4$  be the length of each link.

Such that  $L_1 = L_2 = L_3 = L_4 = 160\text{mm}$  and  $W_1 + W_2 + W_3$  be the Length of power Screw So,  $W$

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$W_1 = 150 \text{ mm}$   $W_2 = 50 \text{ mm}$

Max. Lift =  $(h_1 + h_2) = 300 \text{ mm}$

is the angle between Link with the horizontal when jack is at its lowest position.

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The length of scissor arm is  $l$ , the height of top platform is  $H$ , the length of input bar is  $l$ , lift angle is  $\theta$  (where  $0 < \theta < 2$  ). Load is assumed as a vertical concentrated force.  $W$   $P$

Fig. 1 Principal Schematic diagram



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of a scissor lift unit Fig.2 Types  
and parameters of input  
configurations

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A characteristic triangle method on  
input vectors of ...  
will derive an equation for the

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work done in lifting the weight of the scissor lift to any height .

We will model the mass of the scissor lift in terms of an arbitrary cuboidal mass  $m$ , of weight ( $= mg$ ), and dimensions  $a \times b \times c$ . (Fig 1.0.) (B is used to avoid confusion with any other variables)

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