

1.1 Force and Stress Analysis

The force analysis is based on the assumption that the scissor jack is loaded vertically symmetrical.

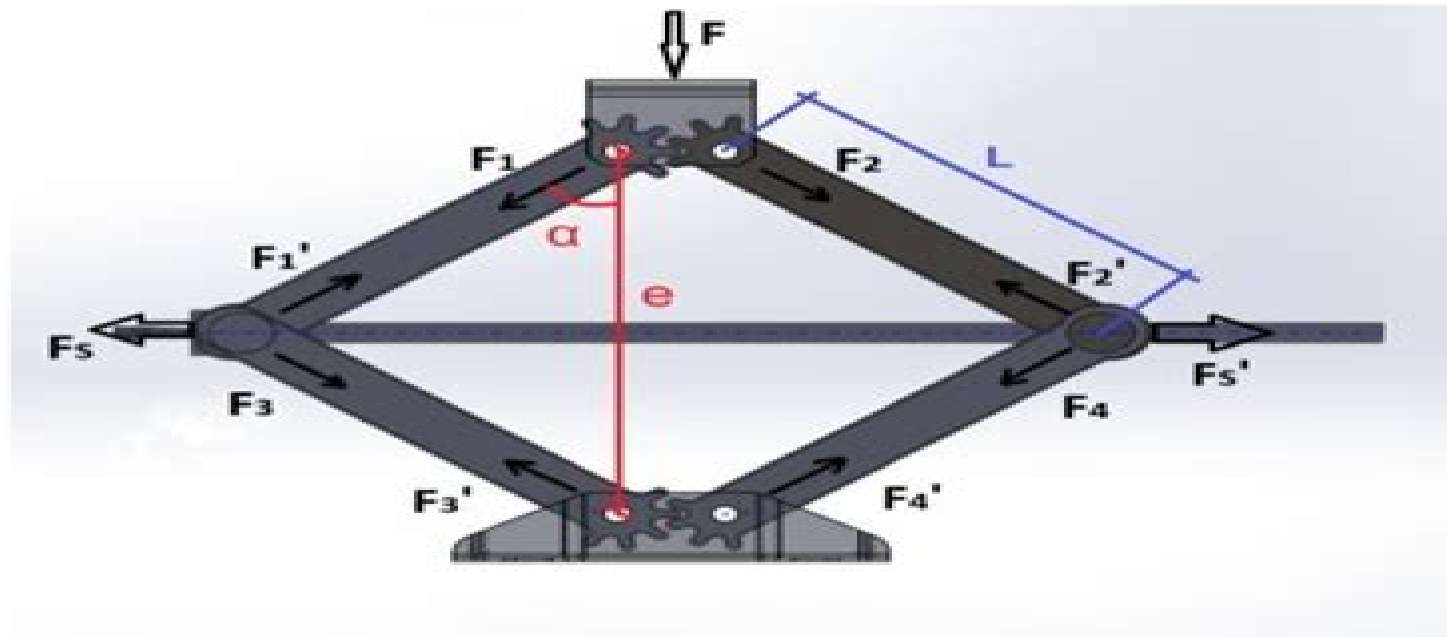


Figure 3: Forces in Scissor Jack members

The maximum capacity for the scissor jack is the 600 kg.

$$\text{Maximum Load} = 600 \text{ kg}, F = 600 \text{ kg} \cdot 9.81 \frac{\text{m}}{\text{s}^2} = 5886 \text{ N}$$

$L = 145 \text{ mm}$, the length of the arms (From hole center to hole center)

$e = 180 \text{ mm}$, the length from base to top center of holes (At Minimum raising height of the jack)

$$\cos \alpha = \frac{e/2}{L} = \frac{180/2}{145} = 0.62 \text{ and,}$$

$$\alpha = 51,6^\circ$$

Scissor Jack Force Analysis

F Rizvi

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Scissor Jack Force Analysis:

Mechanics of Machines William L. Cleghorn, Nikolai Dechev, 2015 *Mechanics of Machines* is designed for undergraduate courses in kinematics and dynamics of machines. It covers the basic concepts of gears, gear trains, the mechanics of rigid bodies and graphical and analytical kinematic analyses of planar mechanisms. In addition, the text describes a procedure for designing disc cam mechanisms, discusses graphical and analytical force analyses and balancing of planar mechanisms and illustrates common methods for the synthesis of mechanisms. Each chapter concludes with a selection of problems of varying length and difficulty. SI Units and US Customary Units are employed. An appendix presents twenty-six design projects based on practical real-world engineering situations. These may be ideally solved using Working Model software. *Mechanics of Machines* Mr. Rohit Manglik, 2024-05-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels. Difficult Engineering Concepts Better Explained: Statics And Applications Jay F Tu, 2020-07-21 *Engineering statics* discusses proper ways of conducting force analysis. This unique compendium treats fundamental force analysis in a systematic and comprehensive manner. The indispensable volume is suitable for undergraduate students to learn the subject in greater depth, for graduate students to review essential skills in force analysis correctly, and for practicing engineers to review and refresh key concepts. This useful reference text also presented numerous application examples for readers in solving daily practical problems. **Scissor-jack Damper Energy Dissipation System** Ani Natali Sigaher-Boyle, Michalakakis C. Constantinou, 2004 **Earthquake Spectra**, 2003 Nuclear Energy, 1984 **Oceanic Abstracts with Indexes**, 1979 American Journal of Physics, 1995 **American Machinist**, 1891 Timber Framing, 2003 **Gas-cooled Reactors Today** British Nuclear Energy Society, 1982 **Movement Skill Development** Jack Keogh, David A. Sugden, 1985 *International California Mining Journal*, 2001 *Aeronautical Engineering*, 1992 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Product Safety & Liability Reporter**, 1996 *NASA SP.*, 1977 **Applied Science & Technology Index**, 1981 **Survey of Science Fiction Literature** Frank Northen Magill, 1979 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office, 1975 **Official Aquatic Guide for Women and Girls**, 1938

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<http://www.technicalcoatingsystems.ca/data/book-search/fetch.php/Separation%20Process%20Principles%20Seader%20Henley%20Solution.pdf>

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