

Scissor Jack Stress Analysis

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This proposed design of scissor jack after its stress analysis concludes that: This is a common jack for the variant (satisfying the product requirements). The proposed jack has the reduced weight (by changing the manufacturability). Designing this new jack reduces the no. of parts for simplifying the assembly process.

DESIGN AND ANALYSIS OF SCISSOR JACK

Scissor Jack Stress Analysis Design and Lift. A scissor jack uses a simple theory of gears to get its power. As the screw section is turned, two ends of the jack move closer together. Because the gears of the screw are pushing up the arms, the amount of force being applied is multiplied.

Scissor Jack Stress Analysis - repo.koditips.com

The project relates to the designing of simple scissor jack and its analysis along with structural improvements to make such a modified jack that is very stable and can take enough load on uneven surfaces and somewhat inclination is also allowed. The project also aims at designing and finding stresses, efficiency, expected life of screw.

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4. 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.

Final Project_ Design and FEM Analysis of Scissor Jack

File Type PDF Scissor Jack Stress Analysis to provide more lift over greater distance. A scissor jack is a device constructed with a cross-hatch mechanism, much like a scissor. A commercially available scissor jack is shown in Figure 1. Figure 1: Scissor Jack A scissor jack is operated by turning a lead screw. It is commonly used as car-jacks.

Scissor Jack Stress Analysis - dbnspeechtherapy.co.za

This paper relates to design modification and failure analysis of crank-operated scissor jack which is generally used for lifting light motor vehicles (l.M.V) during maintenance. This project is focused on designing and finding various stresses and expected

Design modification and failure analysis of scissor jack

The project relates to the designing of simple scissor jack and its analysis along with structural improvements to make such a modified jack that is very stable and can take enough load on uneven surfaces and somewhat inclination is also allowed. The project also aims at designing and finding stresses, efficiency, expected life of screw.

DESIGN AND ANALYSIS OF SCISSOR JACK PPT

Equations and Calculators updated: April 20, 2012. A scissor lift (jack) or mechanism is device used to

extend or position a platform by mechanical means. The terms "Scissor" comes from the mechanism utilized which is configured with linked, folding supports in a crisscross 'X' pattern. The extension or displacement motion is achieved applying of force to one of the supports resulting and an elongation of the crossing pattern.

Scissor Lift Jack Equations and Loading Calculator ...

Abstract and Figures The paper describes the design as well as analysis of a hydraulic scissor lift having two levels. Conventionally a scissor lift or jack is used for lifting a vehicle to change...

(PDF) Design and Fabrication of Hydraulic Scissor Lift

Failure Analysis and Need Scissor or Toggle Jack A toggle or Scissor jack is a device which lifts heavy equipment. The most common form is a car jack, floor jack or garage jack which lifts vehicles so that maintenance can be performed. Car jacks usually use toggle advantage to allow a human to lift a vehicle by manual force alone.

DESIGN AND OPTIMIZATION OF SCISSOR JACK

scissor jack is compile to lift low as well as heavy load with different conditions. The main purpose and significance of this paper is to design, optimize and standardize the current toggle jack to make the task easier and reliable. Catia is used to develop and analyzed the scissor jack. Mathematical model of design procedure is also made which

Design and Standardization of Scissor Jack to Avoid Field ...

In the analysis of the scissor mechanism, the weight will be a variable factor which 2943N (300kg) will be the maximum weight because when a car is jacked on one point which less than the weight of the car (Lonon, 2007). In this section, only upper part of the scissor jack will be analyzed because the shape duplicate with lower part of the scissor jack. The force

ANALYSIS OF AUTO CAR JACK - Institutional Repository

Conventionally a scissor lift or jack is used for lifting a vehicle to change a tire, to gain access to go to the underside of the vehicle, to lift the body to appreciable height, and many other applications. Also such lifts can be used for various purposes like maintenance and many material handling operations.

Design and Analysis of Hydraulic Scissor Lift By FEA

The analysis shows that the jack stand can withstand approximately 5 tons, or 1000 lbf, more than the rated maximum before it begins to yield. When the part is loaded incorrectly, the jack experiences elevated stress results just under the head of the stand equal to that of the properly placed 2 ton load.

MAE 152 Final Project: Finite Element Analysis (FEA) of ...

By measuring all the dimensions of components of scissors jack, we have designed it in CATIA, after that we assemble all the components of Jack to shape a model of scissors jack and calculated different parameters (Max. shear stress, Max. principal Tensile Stress, Total torque required to lift the vehicle etc) which is used in all components of scissors jack to avoid failure.

Designing And Calculating The Stresses Induced In Scissors ...

Scissor Jack Stress Analysis - elizabethviktorija.com A Scissor Jack is a mechanical device used to lift a heavy vehicle from the ground for changing the wheel and for maintenance purpose. The most important fact of a jack is that, it gives the user a mechanical advantage by changing the rotational motion into linear motion and allowing user to lift a heavy car to the require height.

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