

Lesson 02D

Hydraulic Jack Analysis

Equations for
analysis of a
hydraulic jack

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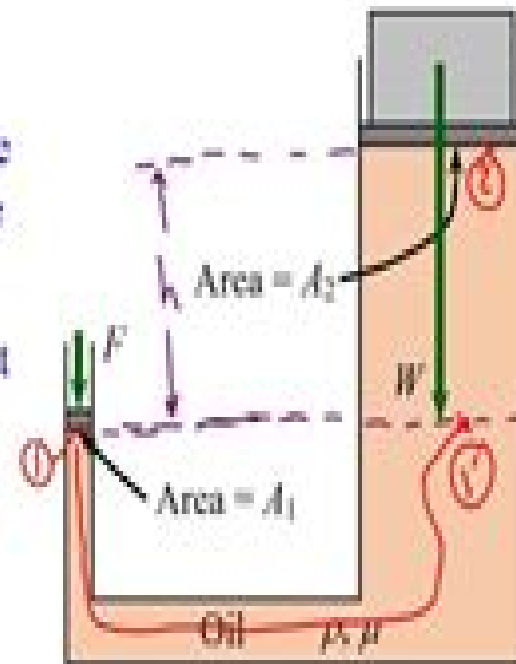
3-1

Example: Hydraulic Jack

Given: A hydraulic jack uses an oil with specific gravity 0.765 to lift an object of mass 1510 kg. The piston area A_1 on the pump side is 0.562 cm^2 and the piston area A_2 on the lift side is 421 cm^2 . After pumping for a while, the lift-side piston is 1.65 m higher than the pump piston.

To do: Calculate the force F required to hold the object at the given elevation.

Solution:



$$P_1 = P_1'$$

Eg of hydrostatics

$$P_{\text{below}} = P_{\text{above}} + \rho g h$$

$$P_1' = P_1 = P_2 + \rho g h$$

$$W = P_2 A_2 \rightarrow P_2 = \frac{W}{A_2} \quad \left\{ F = \left(\frac{W}{A_2} + \rho g h \right) A_1 \right.$$

Hydraulic Service Jack Design Calculations

Sabine Zange



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1. Understanding the eBook Hydraulic Service Jack Design Calculations
 - The Rise of Digital Reading Hydraulic Service Jack Design Calculations
 - Advantages of eBooks Over Traditional Books
2. Identifying Hydraulic Service Jack Design Calculations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hydraulic Service Jack Design Calculations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hydraulic Service Jack Design Calculations
 - Personalized Recommendations
 - Hydraulic Service Jack Design Calculations User Reviews and Ratings
 - Hydraulic Service Jack Design Calculations and Bestseller Lists
5. Accessing Hydraulic Service Jack Design Calculations Free and Paid eBooks
 - Hydraulic Service Jack Design Calculations Public Domain eBooks
 - Hydraulic Service Jack Design Calculations eBook Subscription Services

- Hydraulic Service Jack Design Calculations Budget-Friendly Options
- 6. Navigating Hydraulic Service Jack Design Calculations eBook Formats
 - ePub, PDF, MOBI, and More
 - Hydraulic Service Jack Design Calculations Compatibility with Devices
 - Hydraulic Service Jack Design Calculations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hydraulic Service Jack Design Calculations
 - Highlighting and Note-Taking Hydraulic Service Jack Design Calculations
 - Interactive Elements Hydraulic Service Jack Design Calculations
- 8. Staying Engaged with Hydraulic Service Jack Design Calculations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hydraulic Service Jack Design Calculations
- 9. Balancing eBooks and Physical Books Hydraulic Service Jack Design Calculations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hydraulic Service Jack Design Calculations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hydraulic Service Jack Design Calculations
 - Setting Reading Goals Hydraulic Service Jack Design Calculations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hydraulic Service Jack Design Calculations
 - Fact-Checking eBook Content of Hydraulic Service Jack Design Calculations
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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