



MEMORANDUM  
APRIL 2008

✓ = 1pt

QUESTION - 1 - VRAAG  
[POWER TRANSMISSION - Kragtoerbringings]

1.1

1.1.1

For the Speed Ratio (SR):

Speed Ratio =  $\frac{\text{Speed of Faster Pulley}}{\text{Speed of Slower Pulley}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = 1,72 : 1$$

✓

Vir die Speedverhouding (SR):

Speedverh. =  $\frac{\text{Speed van Vinniger Katrol}}{\text{Speed van Stadiger Katrol}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = 1,72 : 1$$

✓ (1)

1.1.2

For the Service Factor (SF):

Consider:  
Type of start = soft  
Hours per day = 11

Read from TABLE 1

$\therefore$  The service factor (SF) as 1,1

✓

Vir die Diensfaktor (SF):

Oorweeg:  
Tipe aanskakeling = sag/lig  
Ure per dag = 11

Lees vanaf TABEL 1

$\therefore$  Die dien sfaktor (SF) as 1,1

✓ (1)

1.1.3

For the Indicated Power (IP):

NB: Torque is been given!

$$\text{Indicated Power} = \frac{2\pi NT}{60}$$

$$\therefore IP = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

✓

✓

✓

Vir die Aangedui dedrywing (IP):

NB: Wringkrag is gegee!

$$\text{Aangedui dedrywing} = \frac{2\pi NT}{60}$$

$$\therefore Pd = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

✓

✓

✓

(3)

1.1.4

For minimum pulley diameter (d):

Refer to TABLE 2:

Consider:  
N = 1200 r/min  
& Design Power = 50 kW

$$\therefore d = 180 \text{ mm}$$

✓

Vir minimum katroldiameter (d):

Verwys na TABEL 2:

Oorweeg:  
N = 1200 r/min  
& Ontwerpdrywing = 50kW

$$\therefore d = 180 \text{ mm}$$

✓

(1)

# Mechanotechnology Paper April 201n3 Memorandum

**M Lipman**



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## **Table of Contents Mechanotechnology Paper April 201n3 Memorandum**

1. Understanding the eBook Mechanotechnology Paper April 201n3 Memorandum
  - The Rise of Digital Reading Mechanotechnology Paper April 201n3 Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanotechnology Paper April 201n3 Memorandum
  - 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 Mechanotechnology Paper April 201n3 Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanotechnology Paper April 201n3 Memorandum
  - Personalized Recommendations
  - Mechanotechnology Paper April 201n3 Memorandum User Reviews and Ratings
  - Mechanotechnology Paper April 201n3 Memorandum and Bestseller Lists
5. Accessing Mechanotechnology Paper April 201n3 Memorandum Free and Paid eBooks
  - Mechanotechnology Paper April 201n3 Memorandum Public Domain eBooks
  - Mechanotechnology Paper April 201n3 Memorandum eBook Subscription Services
  - Mechanotechnology Paper April 201n3 Memorandum Budget-Friendly Options
6. Navigating Mechanotechnology Paper April 201n3 Memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanotechnology Paper April 201n3 Memorandum Compatibility with Devices
  - Mechanotechnology Paper April 201n3 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanotechnology Paper April 201n3 Memorandum
  - Highlighting and Note-Taking Mechanotechnology Paper April 201n3 Memorandum
  - Interactive Elements Mechanotechnology Paper April 201n3 Memorandum
8. Staying Engaged with Mechanotechnology Paper April 201n3 Memorandum

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mechanotechnology Paper April 201n3 Memorandum
- 9. Balancing eBooks and Physical Books Mechanotechnology Paper April 201n3 Memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanotechnology Paper April 201n3 Memorandum
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanotechnology Paper April 201n3 Memorandum
  - Setting Reading Goals Mechanotechnology Paper April 201n3 Memorandum
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanotechnology Paper April 201n3 Memorandum
  - Fact-Checking eBook Content of Mechanotechnology Paper April 201n3 Memorandum
  - 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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