



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 Memorandum April

Daniel Meyer



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Table of Contents Mechanotechnology Memorandum April

1. Understanding the eBook Mechanotechnology Memorandum April
 - The Rise of Digital Reading Mechanotechnology Memorandum April
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanotechnology Memorandum April
 - 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 Memorandum April
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanotechnology Memorandum April
 - Personalized Recommendations
 - Mechanotechnology Memorandum April User Reviews and Ratings
 - Mechanotechnology Memorandum April and Bestseller Lists
5. Accessing Mechanotechnology Memorandum April Free and Paid eBooks
 - Mechanotechnology Memorandum April Public Domain eBooks
 - Mechanotechnology Memorandum April eBook Subscription Services
 - Mechanotechnology Memorandum April Budget-Friendly Options

6. Navigating Mechanotechnology Memorandum April eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanotechnology Memorandum April Compatibility with Devices
 - Mechanotechnology Memorandum April Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanotechnology Memorandum April
 - Highlighting and Note-Taking Mechanotechnology Memorandum April
 - Interactive Elements Mechanotechnology Memorandum April
8. Staying Engaged with Mechanotechnology Memorandum April
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanotechnology Memorandum April
9. Balancing eBooks and Physical Books Mechanotechnology Memorandum April
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanotechnology Memorandum April
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanotechnology Memorandum April
 - Setting Reading Goals Mechanotechnology Memorandum April
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanotechnology Memorandum April
 - Fact-Checking eBook Content of Mechanotechnology Memorandum April
 - 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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