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LAMPIRAN

CONTOH PERHITUNGAN PULLY

1. PERHITUNGAN PULLY PANJANG LENGAN 2 METER

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{14,32}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 38,21 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{38,21}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 101,5 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{27,6}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 73,60 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{73,60}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 195,5 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{68,56}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 182,85 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{182,85}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 487,6 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{75,93}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 202,5 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{202,5}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 540 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{94,91}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 253,1 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{253,1}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 675 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{106,65}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 284,4 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{284,4}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 758,5 \text{ rpm}$$

2. PERHITUNGAN PULLY PANJANG LENGAN 4 METER

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{30,8}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 82,2 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{82,2}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 219,4 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{46,3}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 46,3 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{123,6}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 329,4 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{50,1}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 133,7 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{133,7}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 356,2 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{52,8}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 140,8 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{140,8}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 375,3 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{62,9}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 167,7 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{167,7}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 447 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{85,6}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 228,2 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{228,2}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 608,2 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{85,9}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 228,9 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{228,9}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 610 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{101,8}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 271,4 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{271,4}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 723,2 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{141,5}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 377,2 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{377,2}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = 1005 \text{ rpm}$$

$$\frac{N_1}{N_2} = \frac{D_2}{D_1}$$

$$\frac{268,2}{N_2} = \frac{76,2}{203,2}$$

$$N_2 = 448,2 \text{ rpm}$$

Dimana $N_2 = N_3$, maka

$$\frac{N_3}{N_4} = \frac{D_4}{D_3}$$

$$\frac{448,2}{N_4} = \frac{76,2}{203,2}$$

$$N_4 = \mathbf{1194,2 \text{ rpm}}$$



Gambar 1 Poros



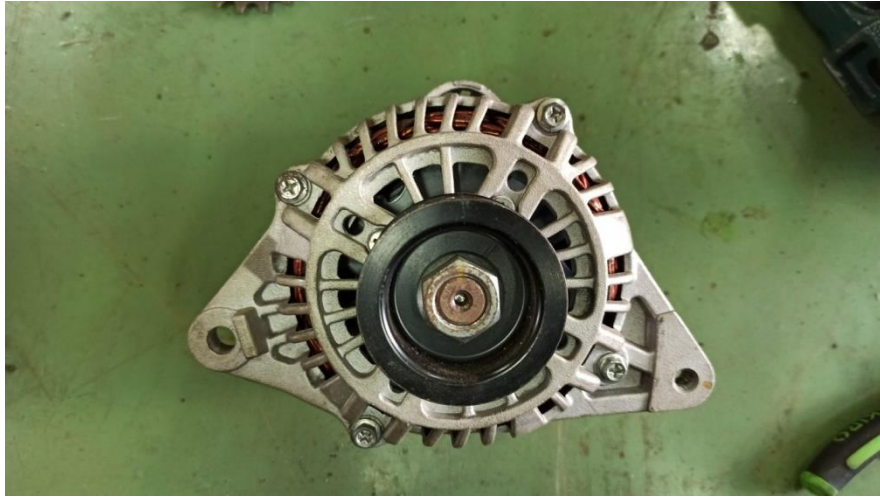
Gambar 2 Bearing



Gambar 3 Freewhell



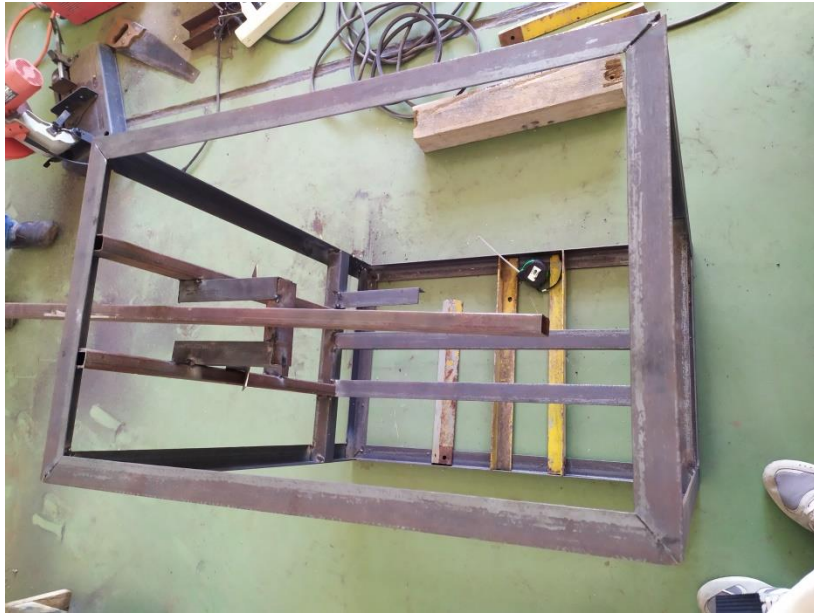
Gambar 4 Pully



Gambar 5 Alternator



Gambar 6 Pemotongan Bahan Dari Rangka Alat



Gambar 7 Rangka Alat Pembangkit Listrik Tenaga Gelombang Laut



Gambar 8 Pemasangan Komponen Alat



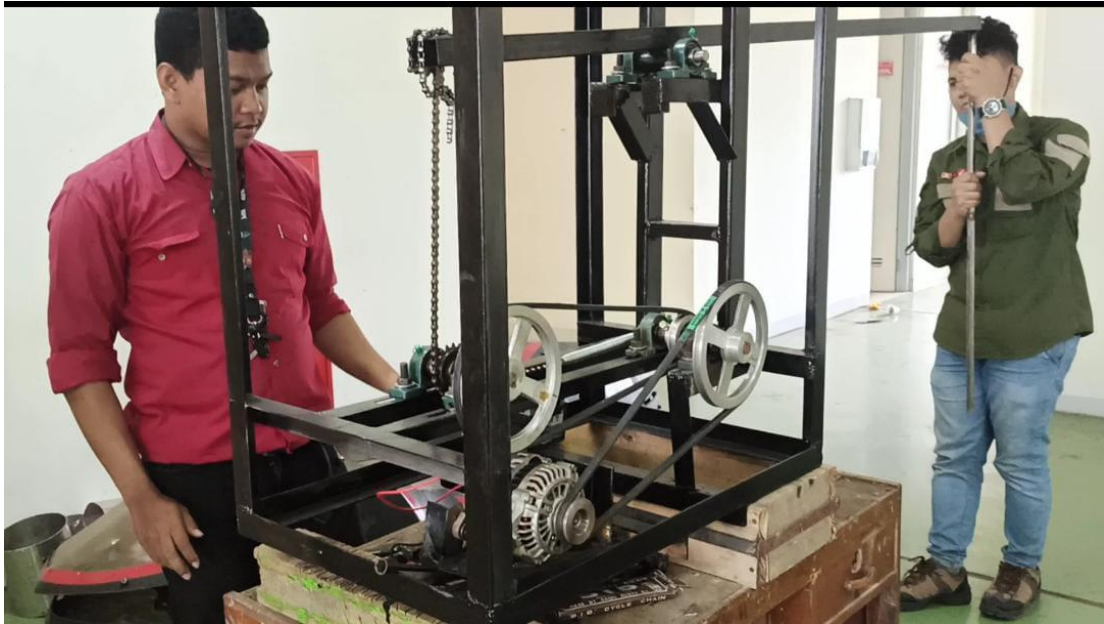
Gambar 9 Alat Tampak Dari Atas



Gambar 10 Gambar Alat Tampak Dari Samping Kiri



Gambar 11 Gambar Alat Tampak Dari Samping Kanan



Gambar 12. Pengujian sesuai dengan frekuensi gelombang laut