

A1.

- 1 - δ (πεφραγώς)
 - 2 - α (κεφαλή)
 - 3 - ϵ (Αδμύρωβη)
 - 4 - β (δυστυχώς - κρούση)
 - 5 - $\sigma\tau$ (Γράφο)
-

A2.

- α - Λ
 β - Λ
 γ - Σ
 δ - Λ
 ϵ - Σ
-

B1.

- = ονομαστικό του υφού
 - = των διαμέτρων (d)
 - = το μήκος (l) κρούσης
 - = το υλικό ή κρούση
 - = το DIN φάλο
-

B2.

- 1 - b (W)
- 2 - γ (50mm)
- 3 - ϵ (d)
- 4 - α (N.m)
- 5 - δ (t ή P)

- Γ1
- Αproxim. διαστάσεις κινητήρα $z_1 = 100 \text{ mm}$
 - Αproxim. διαστάσεις κινητήρα $z_2 = 50$
 - Υψος ποδίου δονητή $(h_F) = 4,68 \text{ mm}$

$$h_F = 1,17 \cdot m \Rightarrow$$

$$m = \frac{h_F}{1,17} \Rightarrow$$

$$m = \frac{4,68 \text{ mm}}{1,17} \Rightarrow$$

$$m = 4 \text{ mm}$$

(κοντά)

$$h_K = 2 \cdot m$$

$$h_K = 4 \text{ mm}$$

Αproxim. διαστάσεις (d_{o2})

$$d_{o2} = m \cdot z_2 \Rightarrow$$

$$d_{o2} = 4 \text{ mm} \cdot 50 \Rightarrow$$

$$d_{o2} = 200 \text{ mm}$$

$$a = \frac{d_{o1} + d_{o2}}{2} \Rightarrow$$

$$a = \frac{100 \text{ mm} + 200 \text{ mm}}{2} \Rightarrow$$

$$a = \frac{300 \text{ mm}}{2} \Rightarrow$$

$$a = 150 \text{ mm}$$

Γ2

$F = 750 \text{ daN}$
 $d_1 = 300 \text{ mm}$
 $n_1 = 300 \text{ R.P.M}$

• ο αριθ. περιστροφών $V = ;$
 • η κίνηση $P = ;$

$$V = \frac{n \cdot d_1 \cdot n_1}{60000}$$

$$V = \frac{3,14 \cdot 300 \text{ mm} \cdot 300 \text{ R.P.M}}{60000}$$

$$V = \frac{28,26}{6}$$

$$V = 4,71 \text{ m/s}$$

$$F \cdot V = 75 \cdot P \Rightarrow$$

$$P = \frac{F \cdot V}{75} \Rightarrow$$

$$P = \frac{750 \text{ daN} \cdot 4,71 \text{ m/s}}{75}$$

$$P = 47,1 \text{ PS}$$

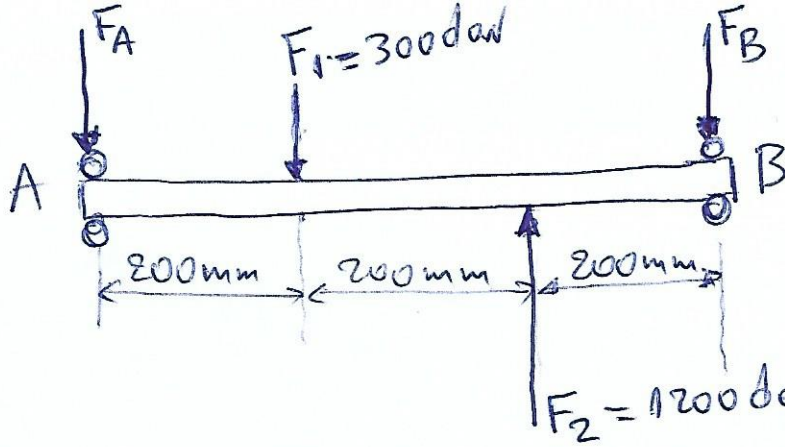
$\Delta 1.$

$$\begin{array}{l|l} Z = 50 & \bullet d_k = ; \\ m = 3 \text{ mm} & \bullet t = ; \\ & \bullet s = ; \end{array}$$

$$\begin{array}{l|l} \bullet d_k = m \cdot (Z + 2) \Rightarrow & \bullet m = \frac{t}{\pi} \Rightarrow \\ d_k = 3 \text{ mm} \cdot (50 + 2) \Rightarrow & t = \pi \cdot m \Rightarrow \\ \boxed{d_k = 156 \text{ mm}} & t = 3,14 \cdot 3 \text{ mm} \Rightarrow \\ & \boxed{t = 9,42 \text{ mm}} \end{array}$$

$$\begin{array}{l} \bullet s = \frac{t}{2} \Rightarrow \\ s = \frac{9,42 \text{ mm}}{2} \Rightarrow \\ \boxed{s = 4,71 \text{ mm}} \end{array}$$

Δ 2.



$$d = 45 \text{ mm}$$

(a)

$$\sum F(y) = 0 \Leftrightarrow$$

$$F_A + F_1 + F_B - F_2 = 0 \Leftrightarrow$$

$$\boxed{F_A + F_B = F_2 - F_1} \quad (1)$$

$$\sum M/A = 0 \Leftrightarrow$$

$$F_1 \cdot 200 - F_2 \cdot 400 + F_B \cdot 600 = 0 \Leftrightarrow$$

$$F_B \cdot 600 = F_2 \cdot 400 - F_1 \cdot 200 \Leftrightarrow$$

$$F_B = \frac{F_2 \cdot 400 - F_1 \cdot 200}{600}$$

$$F_B = \frac{1200 \text{ daN} \cdot 400 \text{ mm} - 300 \text{ daN} \cdot 200 \text{ mm}}{600 \text{ mm}}$$

$$F_B = \frac{480.000 \text{ daN} \cdot \text{mm} - 60.000 \text{ daN} \cdot \text{mm}}{600 \text{ mm}}$$

$$F_B = \frac{420.000 \text{ daN} \cdot \text{mm}}{600 \text{ mm}}$$

$$\boxed{F_B = 700 \text{ daN}}$$

$$(1) \Rightarrow F_A = F_2 - F_1 - F_B \Rightarrow$$

$$F_A = (1200 - 300 - 700) \text{ daN}$$

$$\boxed{F_A = 200 \text{ daN}}$$

(B) $\frac{C}{P} = 10 \Rightarrow$

$\frac{C_A}{F_A} = 10 \Rightarrow$

$C_A = 10 \cdot F_A$

$C_A = 10 \cdot 200 \text{ dan}$

$C_A = 2000 \text{ dan}$

$C_A = 20.000 \text{ N}$

$\frac{C}{P} = 10$

$\frac{C_B}{F_B} = 10 \Rightarrow$

$C_B = 10 \cdot F_B \Rightarrow$

$C_B = 10 \cdot 7000 \text{ dan} \Rightarrow$

$C_B = 70000 \text{ dan} \Rightarrow$

$C_B = 70.000 \text{ N}$

d(mm)	(C in N)	Tinggi Pasak (mm)
45	15.600	16009
	21200	6009
	33200	6209
	52700	6309
	76100	6409

Jika $C_A = 20.000 \text{ N}$ diajau

$C_A = 21200 \text{ N}$ — Tinggi Pasak 6009

Jika $C_B = 70.000 \text{ N}$ diajau

$C_B = 76100 \text{ N}$ — Tinggi pasak 6409

Alasan dikurangnya
Audi pes