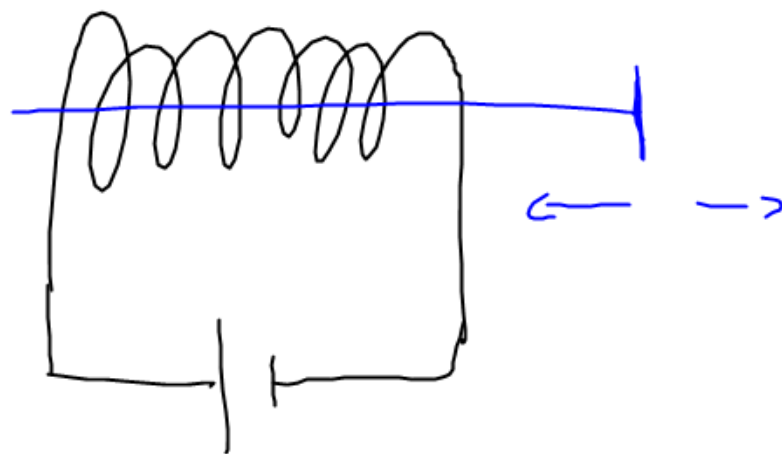
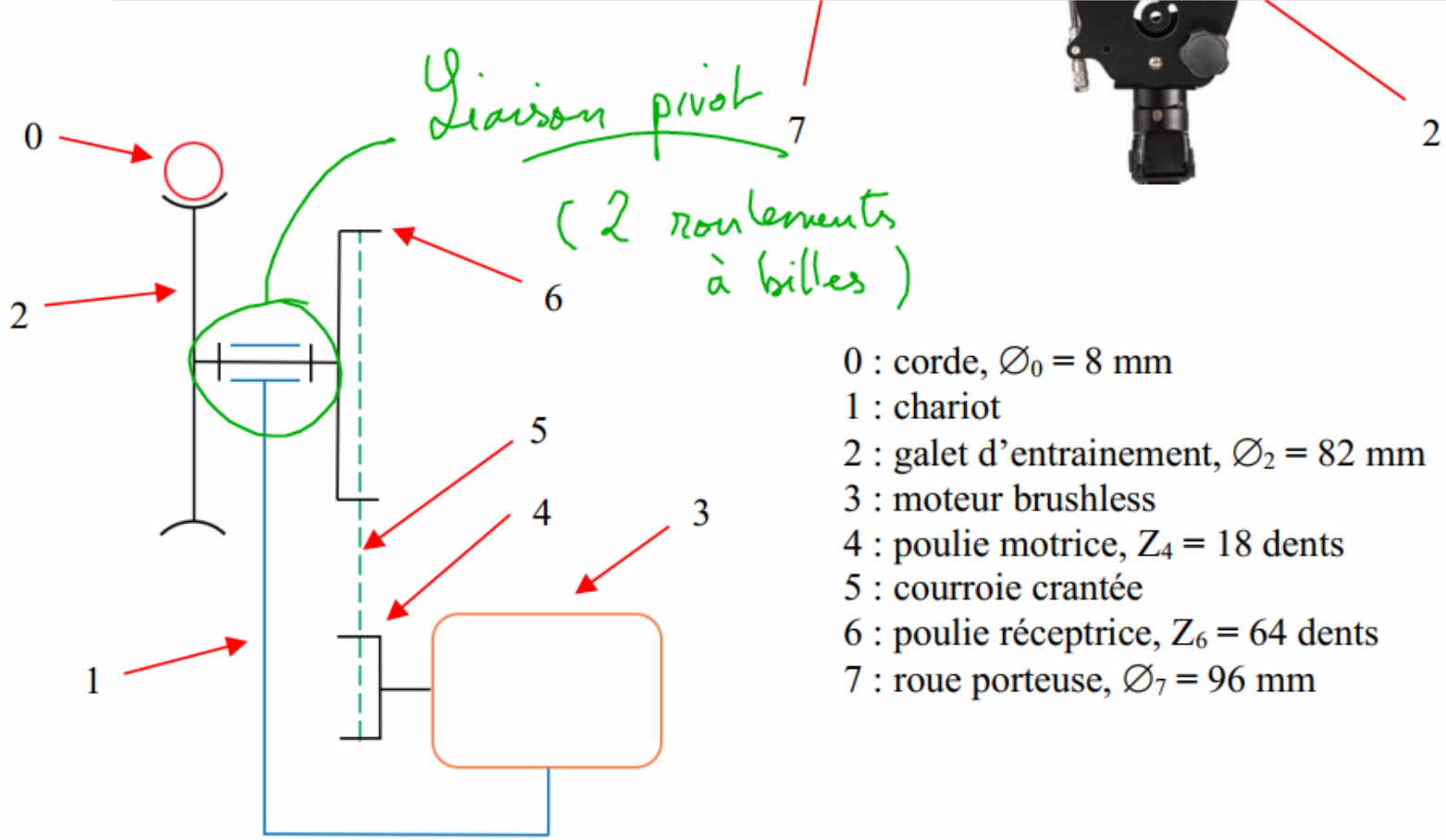




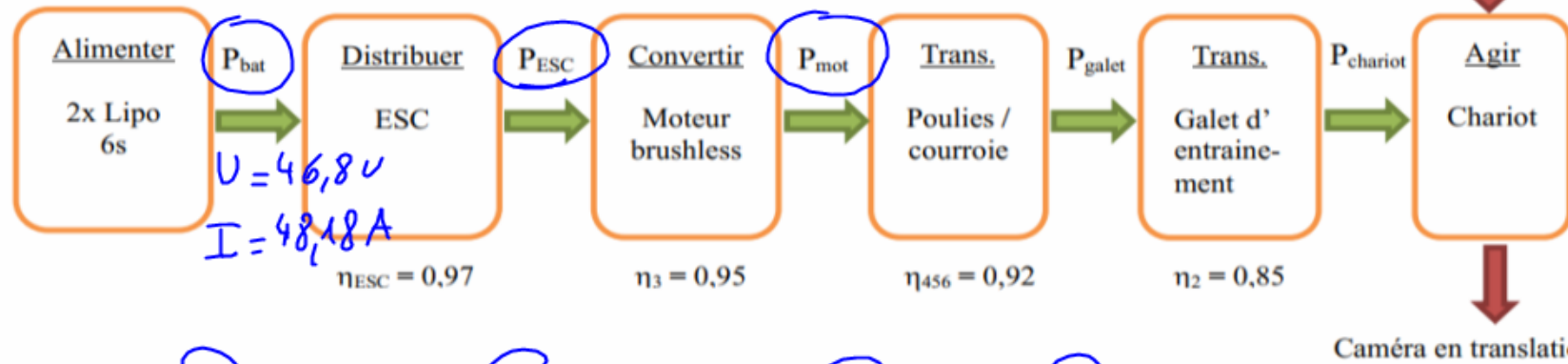


- 0 : corde, $\varnothing_0 = 8 \text{ mm}$
- 1 : chariot
- 2 : galet d'entraînement, $\varnothing_2 = 82 \text{ mm}$
- 3 : moteur brushless
- 4 : poulie motrice, $Z_4 = 18 \text{ dents}$
- 5 : courroie crantée
- 6 : poulie réceptrice, $Z_6 = 64 \text{ dents}$
- 7 : roue porteuse, $\varnothing_7 = 96 \text{ mm}$

Caméra fixe

$$P_{bat} = U_{bat} \cdot I_{bat}$$

$$P_{bat} = 46,8 \cdot 48,18 \approx 2250 \text{ W}$$



$$\eta_{ESC} = \frac{P_{ESC}}{P_{bat}}$$

$$P_{ESC} = \eta_{ESC} \cdot P_{bat}$$

$$P_{ESC} = 0,97 \cdot 2250 \approx 2180 \text{ W}$$

$$P_{pertes ESC} = 2250 - 2180 \approx 70 \text{ W}$$

$$\eta_3 = \frac{P_{mot}}{P_{ESC}}$$

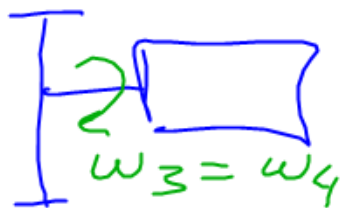
$$P_{mot} = \eta_3 \cdot P_{ESC}$$

$$P_{mot} = 0,95 \cdot 2180 \approx 2080 \text{ W}$$

$$N_3 = 10353 \text{ t/}^-$$

$$\omega_3 = \frac{\pi \cdot 10353}{30} \approx 1084 \text{ rad/s}$$

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$$\underline{T_{\text{int}}} = \underline{G_3} \cdot \underline{\omega_3}$$

$$G_3 = \frac{T_{\text{int}}}{\omega_3}$$

$$G_3 = \frac{2078}{1084} \approx 1,92 \text{ N.m}$$

$$\eta = \frac{\prod Z_{\text{menées}}}{\prod Z_{\text{menétrés}}}$$

$$\eta = \frac{\omega_s}{\omega_e}$$

$$\eta = \frac{\omega_6}{\underline{\omega_4}}$$

$$\eta = \frac{Z_4}{Z_6}$$

$$\eta = \frac{d_4}{d_6}$$