

Torque = r × F

F = Torque

r

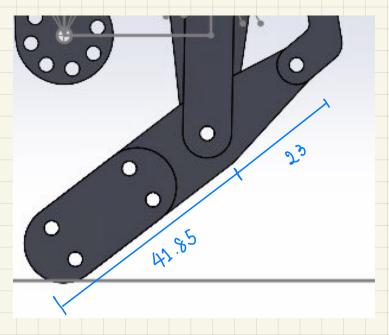
F = 17 kg·cm

1.75cm

= 6.1818 kg × 10

F = 61.818 N.m.

 $M_{3} = M_{2}$ $B \cos 15^{\circ} \times 0.02038 = C \sin 50^{\circ} \times 0.02038$ $C = \frac{B \cos 15^{\circ}}{\sin 50^{\circ}}$ C = 178.98967



M= m

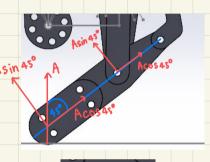
Csin50° × 0.023 = D × Sin 45° × 0.04185

$$D = \frac{C \sin 50^{\circ} \times 0.023}{\sin 45^{\circ} \times 0.04185}$$

$$\frac{\text{Mmn.g.}_{-}}{2} = -30.33208$$

$$\text{M}_{\text{min}} = \frac{\sqrt{30.33208 \times 2}}{(/ 10)}$$

servo onon



Torque max = r x Fmax

$$\frac{F_{\text{max}}}{F_{\text{max}}} = \frac{\text{Torque}_{\text{max}}}{F_{\text{max}}}$$

$$= \frac{17 \text{ kg.cm}}{4.5 \text{ cm}}$$

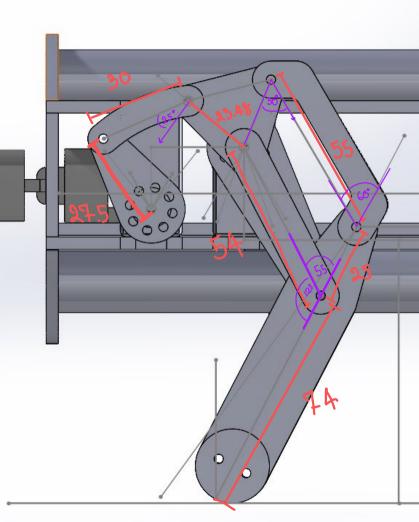
Acos 45° × Sin 55°

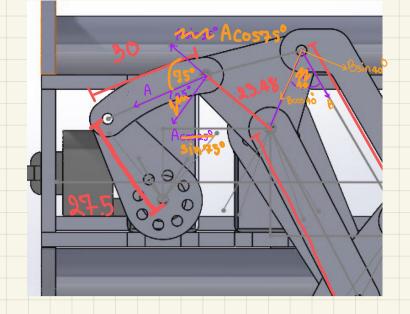
M = M >

A cos45° sin 55 × 0.045 = Fmax × 0.045

$$\frac{m_{mo} g}{2} = \frac{-71.93541 \times 2}{(-10)}$$

mmax = 14.387082 kg





$$T = r \times F$$

$$F = \frac{T}{r}$$

$$= \frac{19 \text{ kg.cm}}{2.75 \text{ cm}}$$

$$= 6.1818$$

$$F = 61.818 \text{ N}$$

$$M_5 = M_0$$
Acos $95^\circ = 23.48 = B \sin 40^\circ \times 93.48$

$$B = \frac{A \cos 95^\circ}{\sin 40^\circ}$$

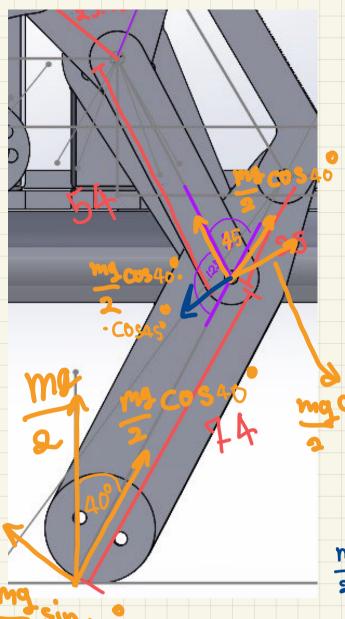
$$B = 76.49271$$

Bcosso Bsin 60° * 0.025 = mg Sin 25° * 0.074

$$m = \frac{8 \sin 60^{\circ} \times 0.025 \times 2}{9 \times \sin 30^{\circ} = 0.074}$$

$$m_{mn} = 4.86803 \text{ Kg}$$

Mg = M2



$$T = \Gamma \times F$$
 $F = \frac{17 \text{ kg} \cdot \text{cm}}{5.4 \text{ cm}}$
 $F = 31.48 \text{ N}$

mg cos 30° · Sin 45°

M = - M 2

mg cos30°. sin30° × 0.054 = F × 0.054

 $m = \frac{F \times 9}{9 \times C0836^{\circ} \cdot \sin 55^{\circ} \times 0.054}$ $m_{max} = 11.09427 \text{ kg}$