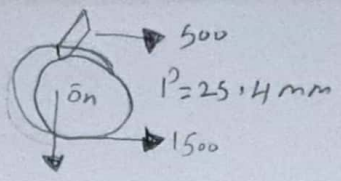
P = 50,8 mm adım

i = 1/5

$Z_1 = 25$

$Z_2 =$



i = 1/10

$$d_o = \frac{P}{\left(\sin\frac{180}{Z}\right)} \Rightarrow d_{o1} = \frac{50,8}{\sin\left(\frac{180}{25}\right)} = 405,31\ mm$$

$d_{o1} = 405,31$ mm $\Rightarrow$ i = 5 $\Rightarrow d_{o2} = 405,31 \times 5 = 2026,55$ mm

$$L_{arka} = 2 \cdot l_1 + \frac{\pi \cdot d_{o1}}{2} + \frac{\pi \cdot d_{o2}}{2}$$

$$L_{arka} = 2 \cdot \sqrt{500^2 + \left(\frac{d_{o2} - d_{o1}}{2}\right)^2} + \frac{\pi \cdot d_{o1}}{2} + \frac{\pi\, d_{o2}}{2}$$

$$L_{arka} = 2 \times \sqrt{500^2 + \left(\frac{2026 - 405}{2}\right)^2} + \frac{\pi \cdot 405}{2} + \frac{\pi\, 2026}{2}$$

$L_{arka} = 5723$ mm

$$L_{ön} = 2 \cdot \sqrt{1500^2 + \left(\frac{2026 - 405}{2}\right)^2} + \frac{\pi \cdot 405}{2} + \frac{\pi\, 2026}{2}$$

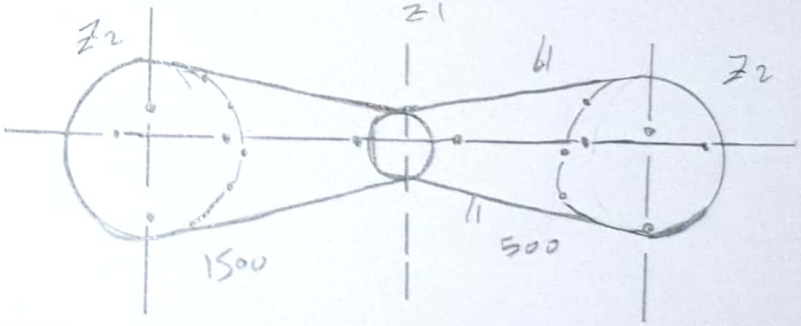
$L_{ön} = 7228,53$ mm

P = 1,5

10 Adım $\Rightarrow$ Xt = 10 · P = 15

Xt = 15 mm

$$y_{adım} = \frac{Xt}{P} = \frac{15}{1,5} \Rightarrow 10\ adım$$



P = 50,8 mm Larka = 5723 mm

$$\frac{larka}{P} = \frac{5723}{50,8} = 113\ adet$$

arkaYol = 113 × 50,8 = 5740 mm