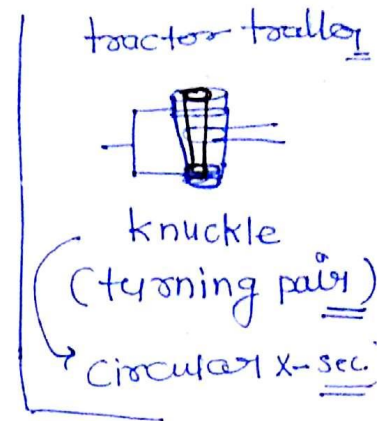
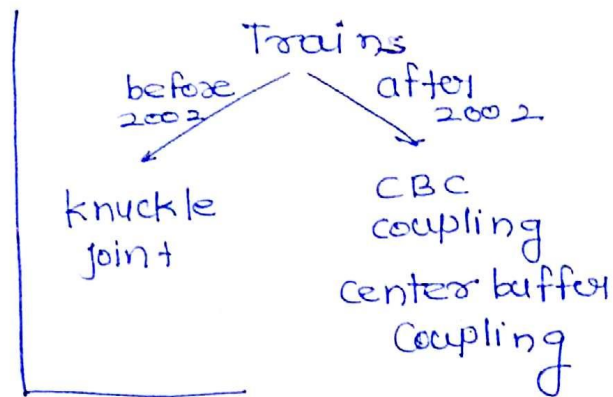


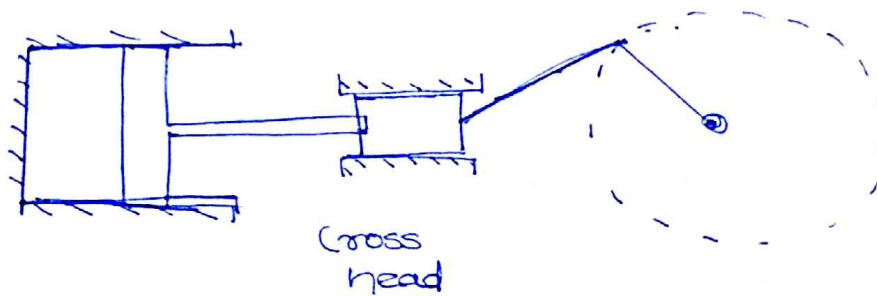
⇒ Cotter is a temporary fastener which is inserted b/w two co-axial rods to transmit load from one rod to another rod.

⇒ Taper is provided in width due to easy fastening purpose.

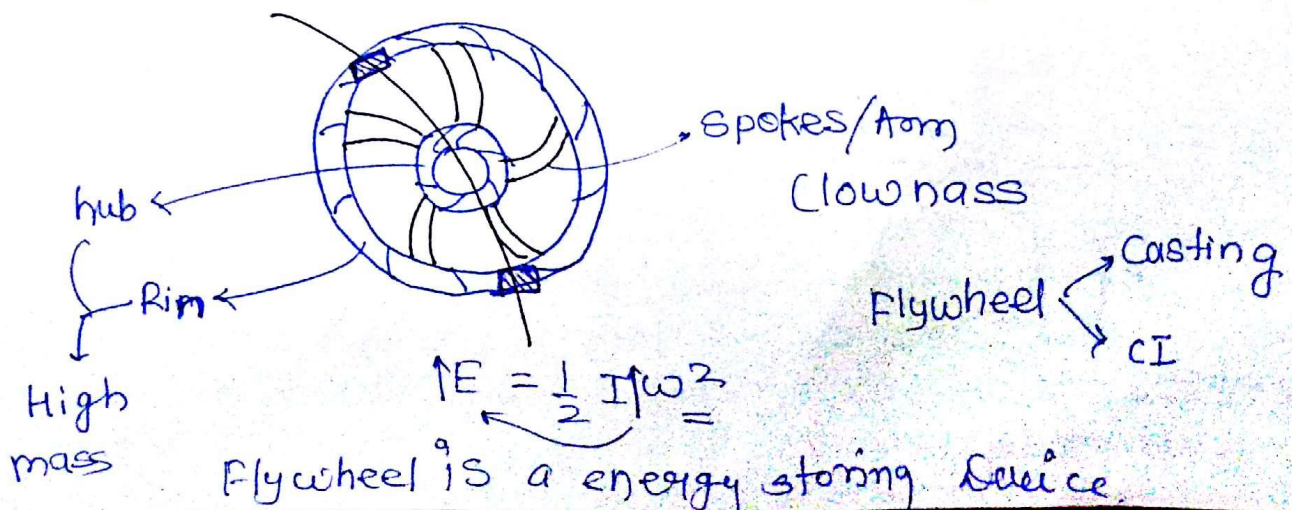


Application of Cotter

① Connection between cross head and piston rod.

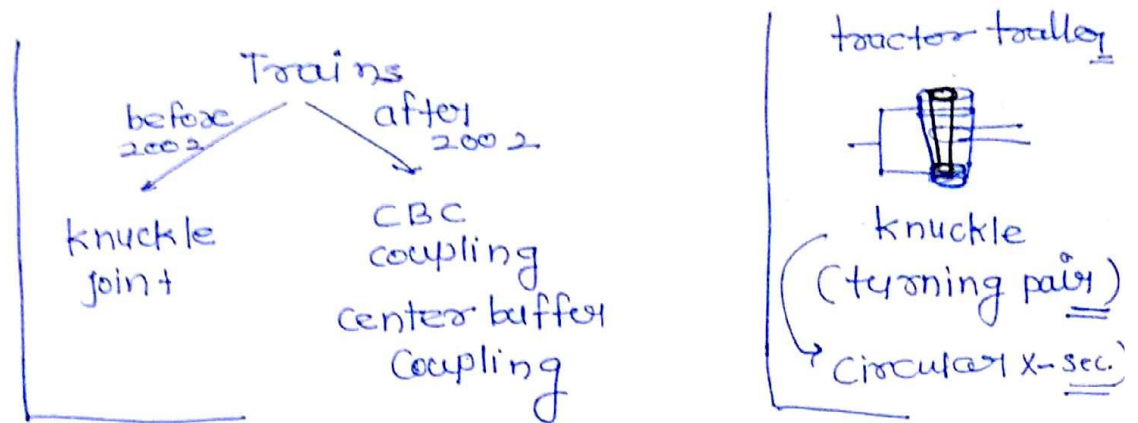


② connection between two hubs of Flywheel.



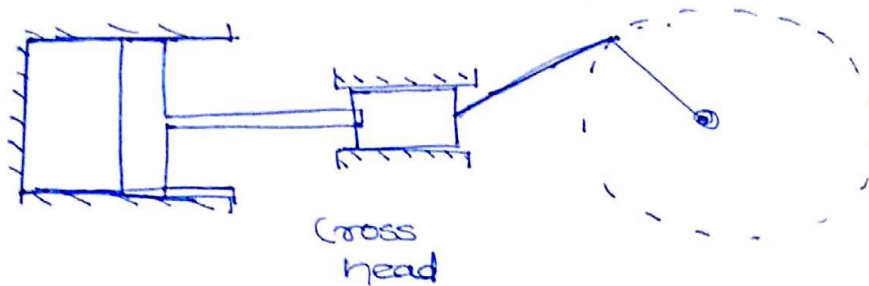
⇒ Cotter is a temporary fastener which is inserted b/w two co-axial rods to transmit load from one rod to another rod.

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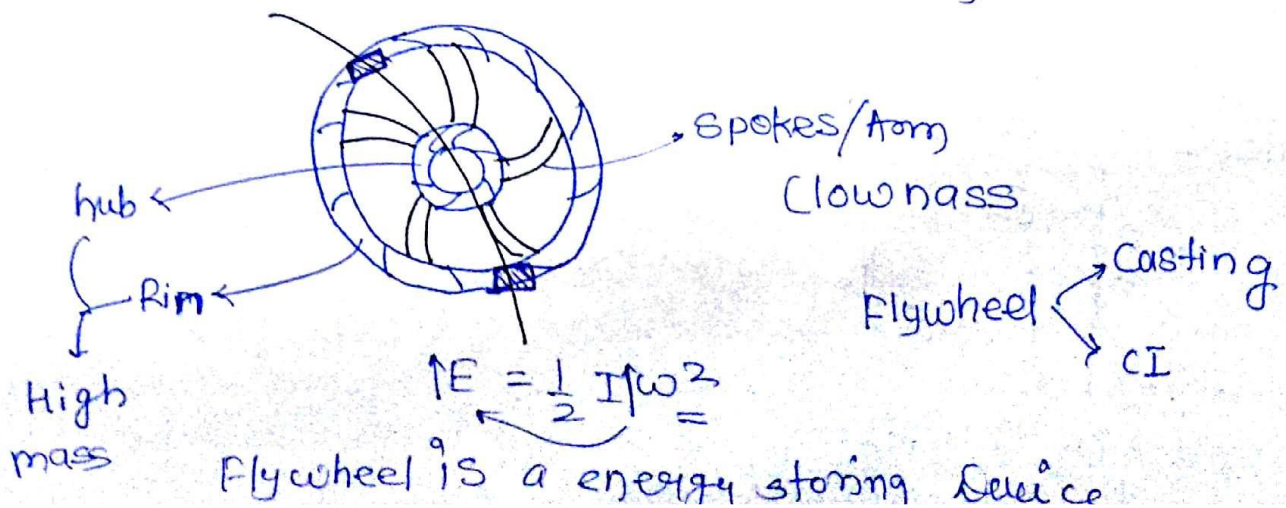


Application of Cotter

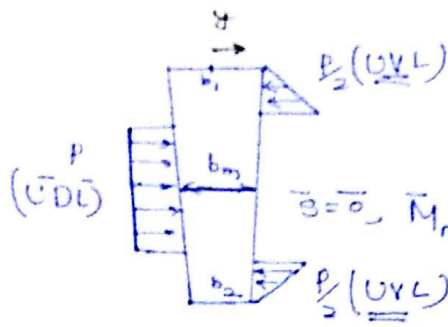
① Connection between cross head and piston rod.



② connection between two hubs of Flywheel.



⇒ bending in cotter =



$$(\sigma_b)_{\max} = \frac{M_{\max} Y_{\max}}{I_{NA}}$$

$$\bar{x} = \bar{x}_0, \quad M_{\max} = \frac{P}{2} \left(\frac{a}{3} + \frac{x}{2} \right) - \frac{P}{2} \left(\frac{x}{4} \right)$$

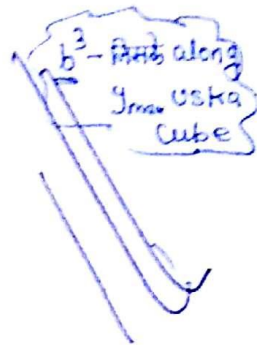
$$b_{ro} = \frac{b_1 + b_2}{2} = b$$

$$M_{\max} = \frac{P}{2} \left(\frac{a}{3} + \frac{x}{2} \right) - \frac{P}{2} \left(\frac{x}{4} \right)$$

$$I_{NA} = \frac{t b^3}{12}$$

$$y_{\max} = \frac{b}{2}$$

$$(\sigma_b)_{\max} \leq \sigma_{\text{per.}}$$



⇒

