

EXPERIMENT NO.2

Aim: To design a double or shoe brake.

THEORY:

When a single block brake is applied to a rolling wheel and additional load is thrown on the shaft bearing due to normal force (R_N). This produces bending the shaft. In order to overcome this drawback, a double block or shoe brake is used. It consists of two brake block applied at the opposite ends of a diameter of wheels which reduce the unbalanced force on the shaft.

$$\text{Kinetic Energy (K.E)} = (Q (V_1^2 - V_2^2)) / (2g)$$

$$\text{Potential Energy (P.E)} = (Q (V_1 + V_2) t) / 2$$

Where V_1 and V_2 are the speed of load before and after the brake is applied on m/sec and Q is the load.

Brake drum must absorb K.E of all rotating parts, so it would be

$$E_r = WK^2 (w_1^2 - w_2^2) / 2g$$

Where w_1 and w_2 are angular velocity of rotating parts before and after the brake is applied in rad/sec and E_r is the rotational energy.

In case load is stopped completely w_2 and $v_2 = 0$

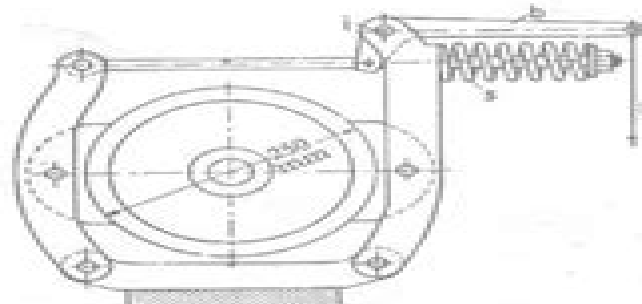


FIG. 2.1 Double-block crane brake.

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R Sanford



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