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For the kinetic energy of notation we know that

$$K = \sum \frac{1}{2} m_i (\omega r_i)^2$$

where, m_i defines the weight of ith particle of a object and r_i defines the distance between the axis of notation and ith particle.

But here we don't have 'ω_i' because if an object is notating in a circular path then all the particle of that object have same angular velocity. No matter, how far it is from the axis of notation. The angular velocity is same throughout the object. Therefore we don't use 'ω_i' here.