$$m = \pi \rho h (R_1^2 - R_2^2)$$

$$I_{xx} = I_{yy} = \frac{1}{12} m (3R_1^2 + 3R_2^2 + h^2)$$

$$I_{zz} = \frac{1}{2} m (R_1^2 + R_2^2)$$