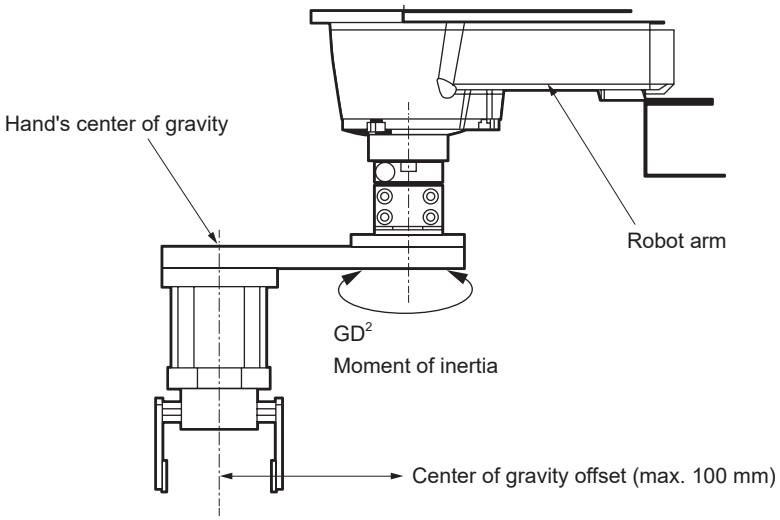
Selection condition: Select a size that satisfies the following allowable values



	KHL-300 KHL-400	KHL-500 KHL-600 KHL-700	KHE-400
Load weight kg	Maximum 5 (Rating 2)	Maximum 10 (Rating 2)	Maximum 5 (Rating 1)
Load moment of inertia kg·m²	Max. 0.05	Max. 0.20	Max. 0.06
Center of gravity of load offset mm	Max. 100	Max. 100	Max. 100

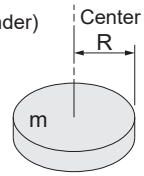
The robot cannot be used in conditions that exceed the allowable values
Contact CKD when working beyond these conditions

Moment of inertia formula

[m: Weight of body (kg)]

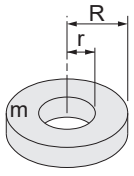
●A When the center of rotation is the actuator's own axis

1. Disk (cylinder)



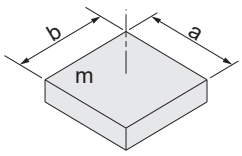
$$I = \frac{mR^2}{2}$$

2. Hollow disk (Hollow cylinder)



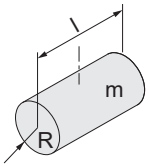
$$I = \frac{m(R^2+r^2)}{2}$$

3. Rectangular parallelepiped



$$I = \frac{m(a^2+b^2)}{12}$$

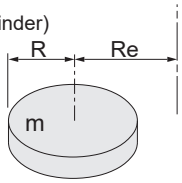
4. Cylinder



$$I = \frac{m(3R^2+l^2)}{12}$$

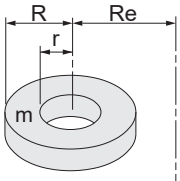
●B When the center of rotation is not the actuator's own axis

1. Disk (cylinder)



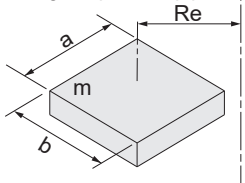
$$I = m\left(\frac{R^2}{2}+Re^2\right)$$

2. Hollow disk (Hollow cylinder)



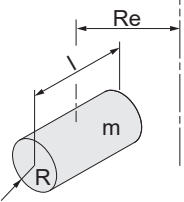
$$I = m\left(\frac{R^2+r^2}{2}+Re^2\right)$$

3. Rectangular parallelepiped



$$I = m\left(\frac{a^2+b^2}{12}+Re^2\right)$$

4. Cylinder



$$I = m\left(\frac{3R^2+l^2}{12}+Re^2\right)$$