

Mass properties of selected components
Coordinate system: SimXCoord

The center of mass and the moments of inertia are output in the coordinate system of Arm12Assembly

Mass = 1.520745 kilograms

Volume = 0.000609 cubic meters

Surface area = 0.195590 square meters

Center of mass: (meters)

X = 0.106080

Y = -0.002362

Z = -0.128808

Principal axes of inertia and principal moments of inertia: (kilograms * square meters)

Taken at the center of mass.

Ix = (0.979615, -0.008031, -0.200722) Px = 0.001982

Iy = (-0.200868, -0.026989, -0.979246) Py = 0.016323

Iz = (0.002447, 0.999603, -0.028052) Pz = 0.017607

Moments of inertia: (kilograms * square meters)

Taken at the center of mass and aligned with the output coordinate system.

Lxx = 0.002561 Lxy = -0.000116 Lxz = -0.002820

Lyx = -0.000116 Lyy = 0.017605 Lyz = 0.000059

Lzx = -0.002820 Lzy = 0.000059 Lzz = 0.015746

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.027801 Ixy = -0.000497 Ixz = -0.023599

Iyx = -0.000497 Iyy = 0.059950 Iyz = 0.000522

Izx = -0.023599 Izy = 0.000522 Izz = 0.032868