

# Mass properties of URDF\_TD1\_URDF\_Model\_1

Configuration: Default

Coordinate system: Coordinate System1

\* Includes the mass properties of one or more hidden components/bodies.

Mass = 59.479 kilograms

Volume = 0.044 cubic meters

Surface area = 3.478 square meters

Center of mass: ( meters )

X = -0.045

Y = 0.000

Z = 0.374

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

Taken at the center of mass.

Ix = ( 0.993, 0.000, 0.116 ) Px = 2.213

Iy = ( 0.000, 1.000, 0.000 ) Py = 3.733

Iz = ( -0.116, 0.000, 0.993 ) Pz = 4.695

Moments of inertia: ( kilograms \* square meters )

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

Lxx = 2.246 Lxy = 0.000 Lxz = 0.287

Lyx = 0.000 Lyy = 3.733 Lyz = 0.000

Lzx = 0.287 Lzy = 0.000 Lzz = 4.662

Moments of inertia: ( kilograms \* square meters )

Taken at the output coordinate system.

Ixx = 10.579 Ixy = 0.000 Ixz = -0.716

Iyx = 0.000 Iyy = 12.186 Iyz = 0.000

Izx = -0.716 Izy = 0.000 Izz = 4.782

