VOLUME = 7.0837828e+05 MM^3

SURFACE AREA = 2.3048752e+05 MM^2

AVERAGE DENSITY = 1.2552172e-06 KILOGRAM / MM^3

MASS = 8.8916857e-01 KILOGRAM

CENTER OF GRAVITY with respect to URDF\_WHEEL coordinate frame:

X Y Z 0.0000000e+00 6.4062682e+01 0.0000000e+00 MM

INERTIA with respect to URDF\_WHEEL coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 6.6544136e+03 0.0000000e+00 0.0000000e+00

Iyx Iyy Iyz 0.0000000e+00 4.2199723e+03 0.0000000e+00

Izx Izy Izz 0.0000000e+00 0.0000000e+00 6.6544135e+03

INERTIA at CENTER OF GRAVITY with respect to URDF\_WHEEL coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 3.0052417e+03 0.0000000e+00 0.0000000e+00

Iyx Iyy Iyz 0.0000000e+00 4.2199723e+03 0.0000000e+00

Izx Izy Izz 0.0000000e+00 0.0000000e+00 3.0052416e+03

PRINCIPAL MOMENTS OF INERTIA: (KILOGRAM \* MM^2)

I1 I2 I3 3.0052412e+03 3.0052420e+03 4.2199723e+03

ROTATION MATRIX from URDF\_WHEEL orientation to PRINCIPAL AXES:

0.00000 1.00000 0.00000

0.00000 0.00000 1.00000

1.00000 0.00000 0.00000

ROTATION ANGLES from URDF\_WHEEL orientation to PRINCIPAL AXES (degrees):

angles about x y z -90.000 0.000 -90.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 5.8136331e+01 5.8136338e+01 6.8891041e+01 MM

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MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the URDF\_WHEEL coordinate frame)

DENSITY MASS C.G.: X Y Z

PH0002 MATERIAL: UNKNOWN

1.25522e-06 8.89169e-01 -9.46808e-07 6.40627e+01 -2.97538e-07