VOLUME = 3.5832886e+06 MM^3

SURFACE AREA = 1.0660479e+06 MM^2

AVERAGE DENSITY = 1.0368208e-06 KILOGRAM / MM^3

MASS = 3.7152283e+00 KILOGRAM

CENTER OF GRAVITY with respect to URDF\_HIP-PITCH coordinate frame:

X Y Z 1.4418193e-02 3.2668329e+01 -2.1994403e+02 MM

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

INERTIA TENSOR:

Ixx Ixy Ixz 2.3797004e+05 -8.3055515e+00 1.4977807e+01

Iyx Iyy Iyz -8.3055515e+00 2.3230156e+05 3.2657038e+04

Izx Izy Izz 1.4977807e+01 3.2657038e+04 1.2818480e+04

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

INERTIA TENSOR:

Ixx Ixy Ixz 5.4279504e+04 -6.5556111e+00 3.1960920e+00

Iyx Iyy Iyz -6.5556111e+00 5.2575988e+04 5.9623651e+03

Izx Izy Izz 3.1960920e+00 5.9623651e+03 8.8535144e+03

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

I1 I2 I3 8.0550185e+03 5.3374443e+04 5.4279546e+04

ROTATION MATRIX from URDF\_HIP-PITCH orientation to PRINCIPAL AXES:

-0.00009 0.00671 -0.99998

-0.13274 0.99113 0.00666

0.99115 0.13274 0.00080

ROTATION ANGLES from URDF\_HIP-PITCH orientation to PRINCIPAL AXES (degrees):

angles about x y z -83.118 -89.615 -90.746

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 4.6562953e+01 1.1985990e+02 1.2087190e+02 MM

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MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the URDF\_HIP-PITCH coordinate frame)

DENSITY MASS C.G.: X Y Z

PH0002 MATERIAL: UNKNOWN

1.03682e-06 3.71523e+00 1.44182e-02 3.26683e+01 -2.19944e+02