VOLUME = 4.5459695e+05 MM^3

SURFACE AREA = 3.7159138e+05 MM^2

AVERAGE DENSITY = 3.6793091e-06 KILOGRAM / MM^3

MASS = 1.6726027e+00 KILOGRAM

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

X Y Z 8.6047400e-02 -5.8681540e+00 -6.6131770e+01 MM

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

INERTIA TENSOR:

Ixx Ixy Ixz 1.3754814e+04 4.8029267e+00 1.9224259e+01

Iyx Iyy Iyz 4.8029267e+00 1.3611513e+04 -1.3768556e+02

Izx Izy Izz 1.9224259e+01 -1.3768556e+02 2.2220795e+03

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

INERTIA TENSOR:

Ixx Ixy Ixz 6.3822379e+03 3.9583637e+00 9.7063683e+00

Iyx Iyy Iyz 3.9583637e+00 6.2965213e+03 5.1140374e+02

Izx Izy Izz 9.7063683e+00 5.1140374e+02 2.1644706e+03

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

I1 I2 I3 2.1020980e+03 6.3578088e+03 6.3833231e+03

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

-0.00214 -0.20436 -0.97889

-0.12103 0.97175 -0.20260

0.99265 0.11804 -0.02681

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

angles about x y z 97.538 -78.207 90.600

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 3.5451130e+01 6.1653443e+01 6.1777028e+01 MM

---------------------------------------------

MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

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

DENSITY MASS C.G.: X Y Z

PH0002 MATERIAL: UNKNOWN

3.67931e-06 1.67260e+00 8.60474e-02 -5.86815e+00 -6.61318e+01