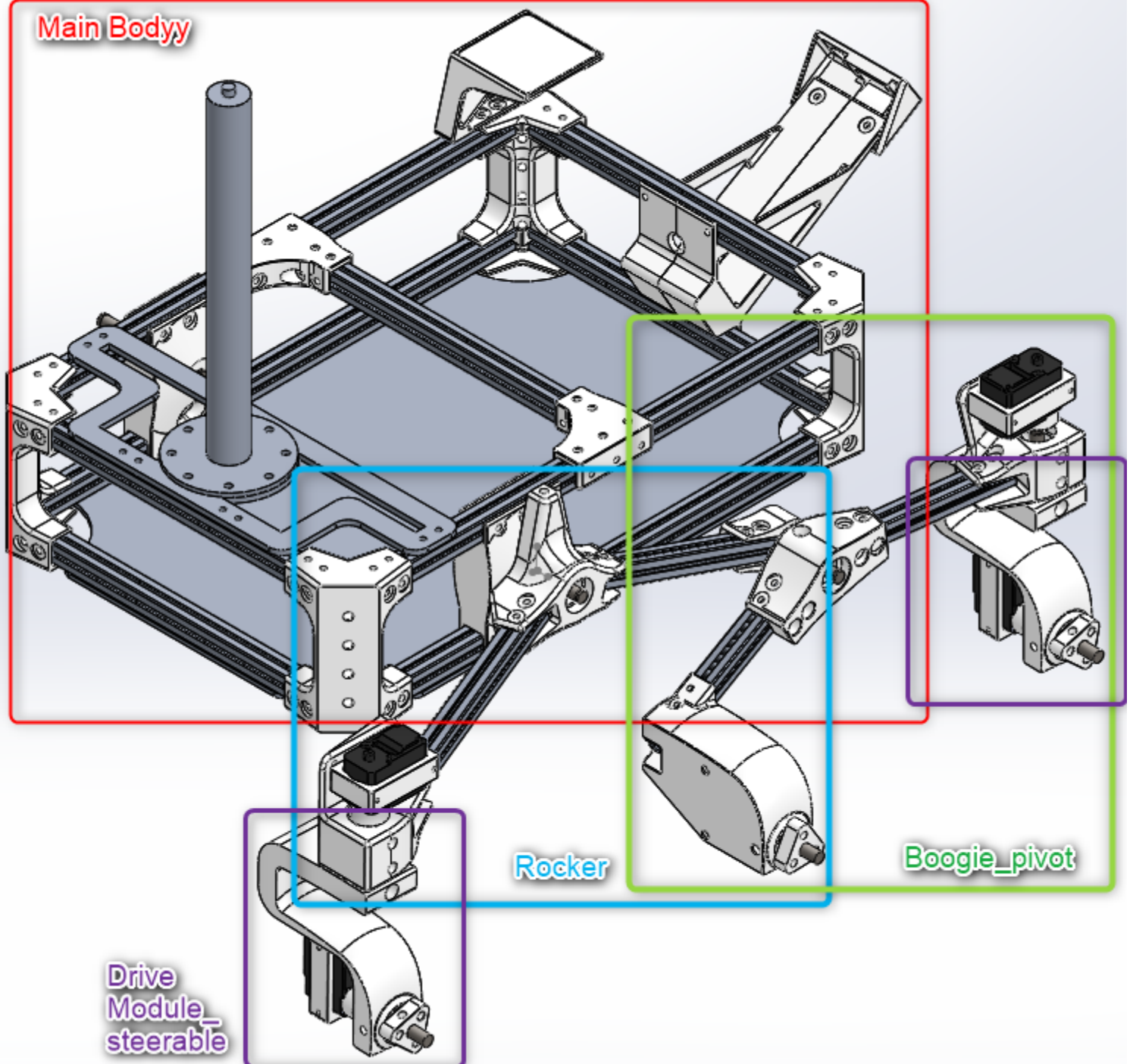
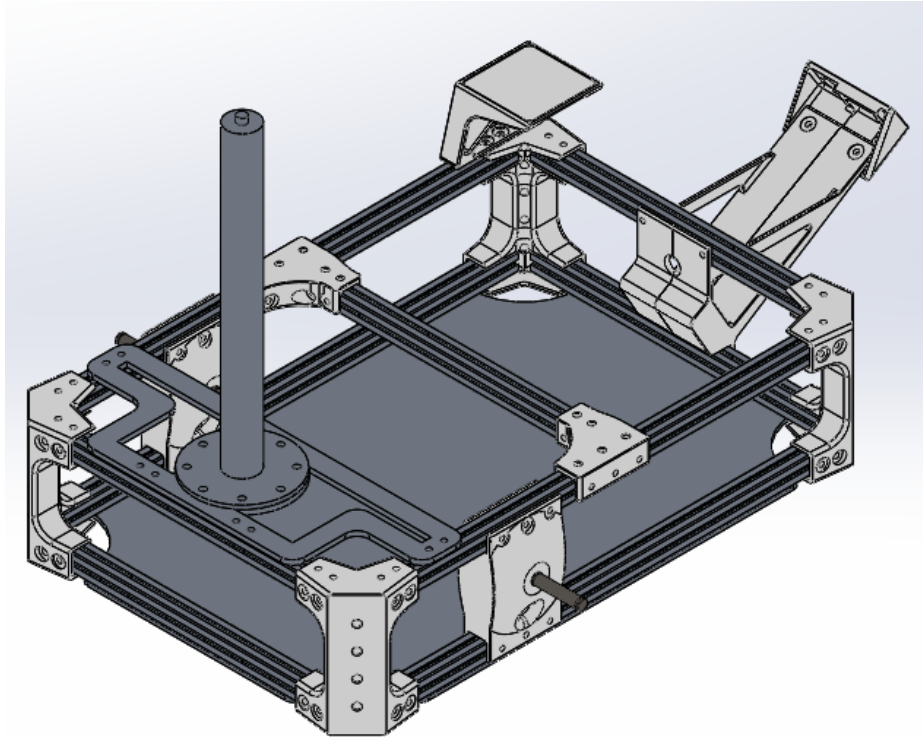


Main Bodyy



ROVER

Archivo: Main Bodyy



Mass properties of Main Bodyy
Configuration: Standard
Coordinate system: Coordinate System1

Mass = 3.2015 kilograms

Volume = 0.0016 cubic meters

Surface area = 0.8676 square meters

Center of mass: (meters)

X = -0.0040

Y = -0.0241

Z = 0.0604

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

Taken at the center of mass.

Ix = (0.0177, -0.9828, 0.1838)

Px = 0.0465

Iy = (0.9995, 0.0125, -0.0293)

Py = 0.0860

Iz = (0.0265, 0.1843, 0.9825)

Pz = 0.1013

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0860

Lxy = -0.0008

Lxz = -0.0003

Lyx = -0.0008

Lyx = 0.0483

Lyz = -0.0099

Lzx = -0.0003

Lzy = -0.0099

Lzz = 0.0994

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.0996

Ixy = -0.0005

Ixz = -0.0010

Iyx = -0.0005

Iyy = 0.0601

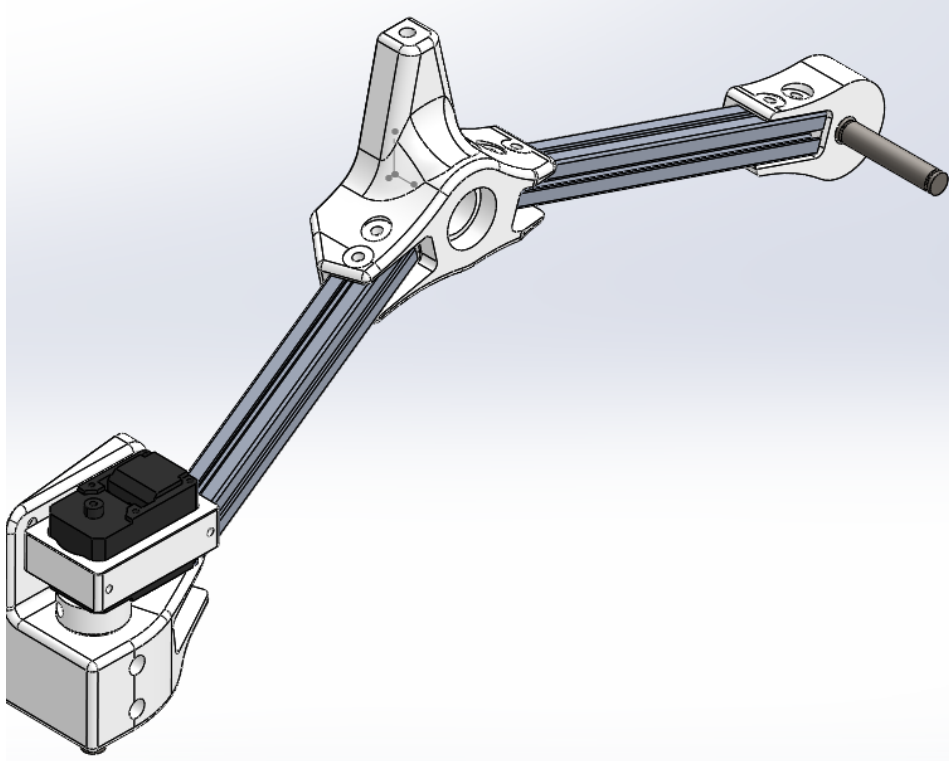
Iyz = -0.0146

Izx = -0.0010

Izy = -0.0146

Izz = 0.1014

Archivo: Rocker



Mass properties of Rocker
Configuration: Standard
Coordinate system: -- default --

Mass = 0.377 kilograms

Volume = 0.0003 cubic meters

Surface area = 0.1121 square meters

Center of mass: (meters)

X = 0.0426

Y = -0.026

Z = 0.0588

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

Taken at the center of mass.

Ix = (0.1634, 0.0311, 0.9861)

Iy = (0.414, -0.9094, -0.0399)

Iz = (0.8955, 0.4147, -0.1615)

Px = 0.0003

Py = 0.0078

Pz = 0.008

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0077

Lxy = 0

Lxz = 0.0012

Lyx = 0

Lyx = 0.0078

Lyz = 0.0002

Lzx = 0.0012

Lzy = 0.0002

Lzz = 0.0006

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.0093

Ixy = -0.0005

Ixz = 0.0022

Iyx = -0.0005

Iyy = 0.0098

Iyz = -0.0003

Izx = 0.0022

Izy = -0.0003

Izz = 0.0015

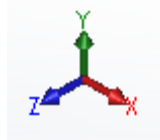
Distancias al origen del main body

Distance: 179.81mm

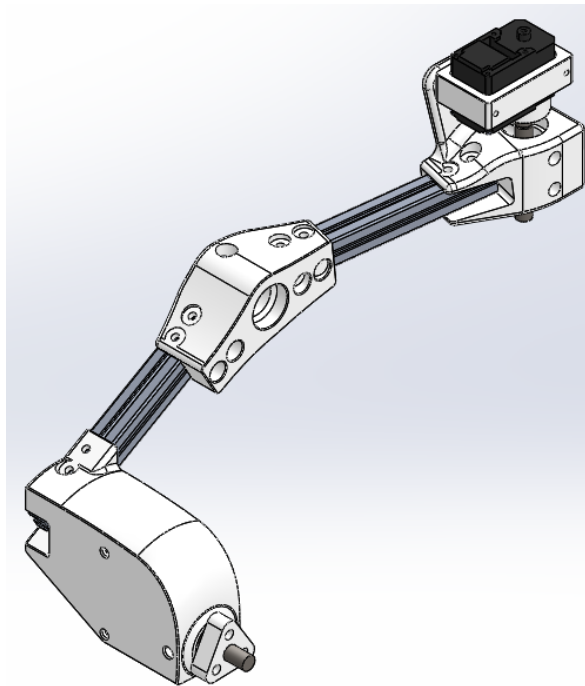
Delta X: 153.43mm

Delta Y: 54.32mm

Delta Z: 76.40mm



Archivo: Boogie_pivot



Mass properties of Boogie_pivot

Configuration: Standard

Coordinate system: Coordinate System1

Mass = 0.4062 kilograms

Volume = 0.0003 cubic meters

Surface area = 0.1326 square meters

Center of mass: (meters)

X = 0.2321

Y = 0.0187

Z = 0.063

Distance: 206.23mm

Delta X: 178.13mm

Delta Y: 7.35mm

Delta Z: 103.65mm

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

Taken at the center of mass.

Ix = (-0.0282, -0.1875, 0.9819)

Px = 0.042

Iy = (-0.2978, -0.9361, -0.1873)

Py = 0.0565

Iz = (0.9542, -0.2977, -0.0294)

Pz = 0.0696

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0684

Lxy = 0.0038

Lxz = 0

Lyx = 0.0038

Lyx = 0.0572

Lyz = -0.0028

Lzx = 0

Lzy = -0.0028

Lzz = 0.0425

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.0702

Ixy = 0.0056

Ixz = 0.0059

Iyx = 0.0056

Iyy = 0.0806

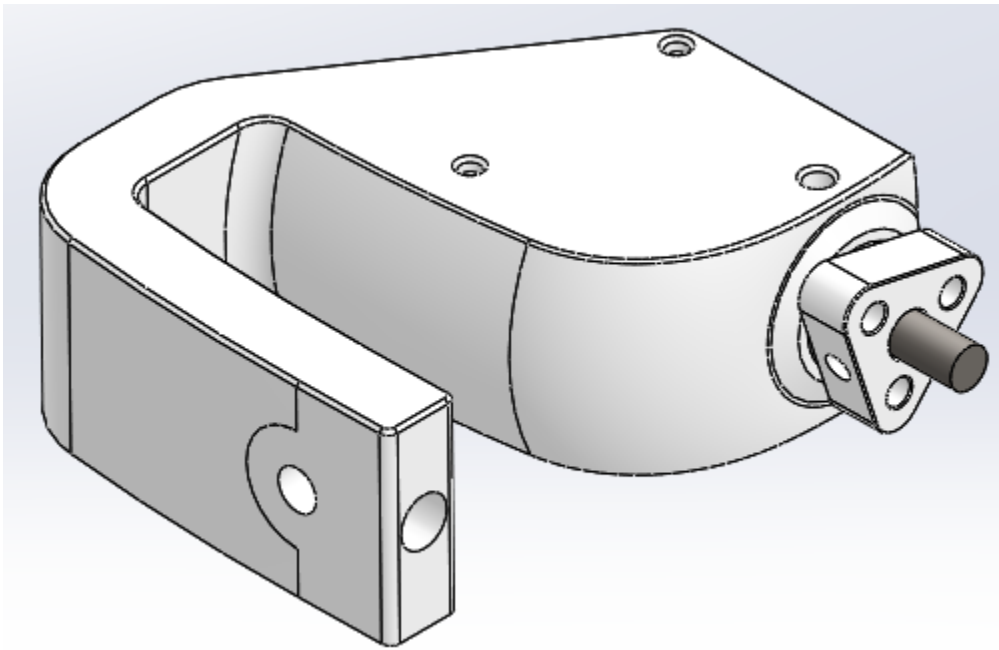
Iyz = -0.0023

Izx = 0.0059

Izy = -0.0023

Izz = 0.0646

Archivo: Drive Module_steerable



Mass properties of Drive Module_steerable
Configuration: Standard
Coordinate system: -- default --

Mass = 0.1978 kilograms

Volume = 0.0002 cubic meters

Surface area = 0.0552 square meters

Center of mass: (meters)

X = -0.0425

Y = 0.0002

Z = 0.0381

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

Taken at the center of mass.

Ix = (-0.5752, -0.0156, 0.8179)

Px = 0.0001

Iy = (0.818, -0.0166, 0.5749)

Py = 0.0003

Iz = (0.0046, 0.9997, 0.0223)

Pz = 0.0004

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0003

Lxy = 0

Lxz = -0.0001

Lyx = 0

Lyy = 0.0004

Lyz = 0

Lzx = -0.0001

Lzy = 0

Lzz = 0.0002

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.0005

Ixy = 0

Ixz = -0.0004

Iyx = 0

Iyy = 0.001

Iyz = 0

Izx = -0.0004

Izy = 0

Izz = 0.0005

Distance: 398.50mm

Delta X: 255.82mm

Delta Y: 104.47mm

Delta Z: 287.13mm

1

Distance: 374.07mm

Delta X: 255.32mm

Delta Y: 105.54mm

Delta Z: 252.19mm

2

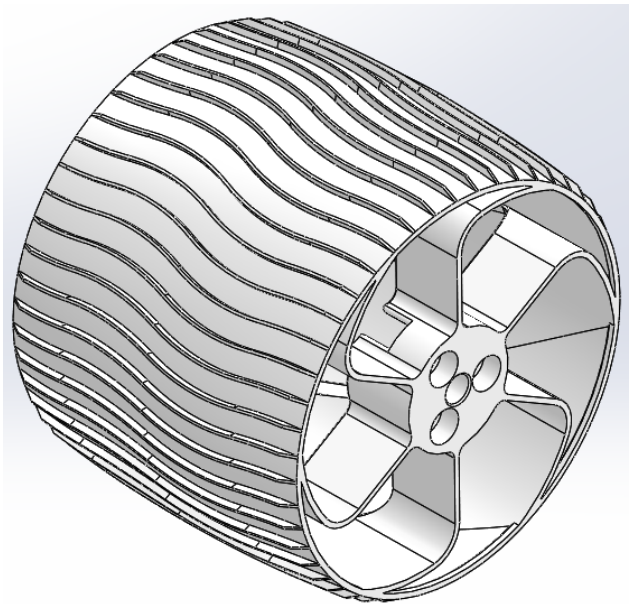
Distance: 405.66mm
Delta X: 266.82mm
Delta Y: 104.50mm
Delta Z: 287.13mm

1

Archivo: Wheel

Distance: 314.30mm
Delta X: 296.63mm
Delta Y: 103.84mm
Delta Z: 3.31mm

2



Distance: 381.66mm
Delta X: 266.32mm
Delta Y: 105.54mm
Delta Z: 252.19mm

3

Distance: 381.66mm
Delta X: 266.32mm
Delta Y: 105.54mm
Delta Z: 252.19mm

4

Distance: 314.30mm
Delta X: 296.63mm
Delta Y: 103.84mm
Delta Z: 3.31mm

5

Mass properties of Wheel
Configuration: Standard
Coordinate system: Coordinate System1

Distance: 406.24mm
Delta X: 266.81mm
Delta Y: 105.50mm
Delta Z: 287.60mm

6

Density = 1020 kilograms per cubic meter

Mass = 0.11466772 kilograms

Volume = 0.00011242 cubic meters

Surface area = 0.12789658 square meters

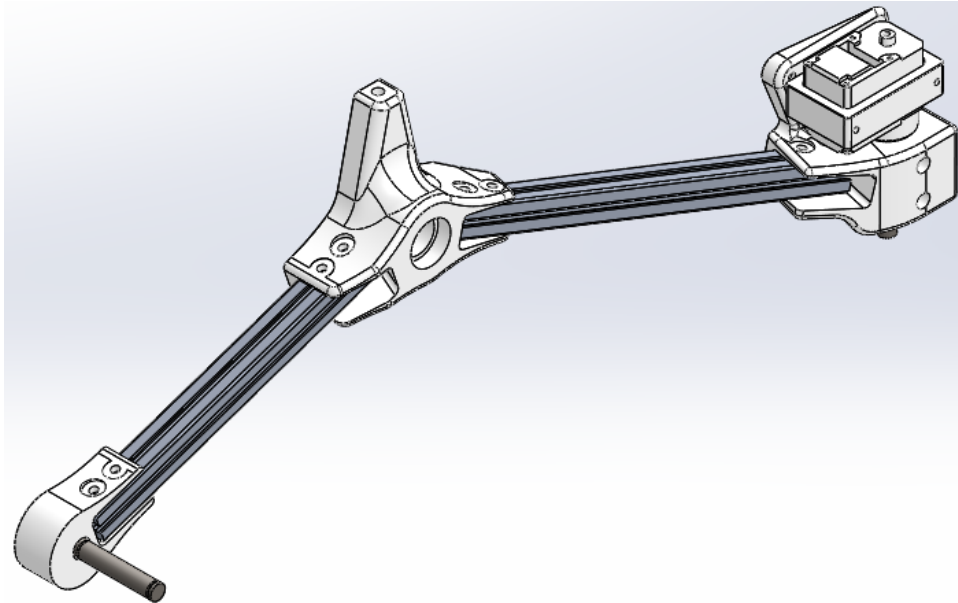
Center of mass: (meters)
X = -0.0283157
Y = 0
Z = -0.00034779

Principal axes of inertia and principal moments of inertia: (kilograms * square meters)
Taken at the center of mass.
Ix = (-0.01104094, -0.4440118, 0.89595291) Px = 0.0002563
Iy = (0.00542147, -0.89602094, -0.4439787) Py = 0.00025631
Iz = (0.99992435, -4.456e-05, 0.01230011) Pz = 0.00032224

Moments of inertia: (kilograms * square meters)
Taken at the center of mass and aligned with the output coordinate system.
Lxx = 0.00032223 Lxy = 0 Lxz = -8.1e-07
Lyx = 0 Lyy = 0.00025631 Lyz = 0
Lzx = -8.1e-07 Lzy = 0 Lzz = 0.00025631

Moments of inertia: (kilograms * square meters)
Taken at the output coordinate system.
Ixx = 0.00032225 Ixy = 0 Ixz = 3.2e-07
Iyx = 0 Iyy = 0.00034826 Iyz = 0
Izx = 3.2e-07 Izy = 0 Izz = 0.00034825

Archivo: MirrorRocker



Mass properties of MirrorRocker

Configuration: Standard

Coordinate system: Coordinate System1

Mass = 0.3770 kilograms

Volume = 0.0003 cubic meters

Surface area = 0.1121 square meters

Center of mass: (meters)

X = 0.0646

Y = 0.0913

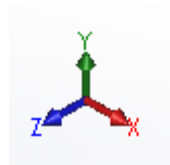
Z = -0.0405

Distance: 179.81mm

Delta X: 153.43mm

Delta Y: 54.32mm

Delta Z: 76.40mm



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

Taken at the center of mass.

Ix = (-0.9743, -0.1228, 0.1887)

Px = 0.0161

Iy = (-0.1565, -0.2328, -0.9599)

Py = 0.0258

Iz = (0.1617, -0.9648, 0.2076)

Pz = 0.0342

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0168

Lxy = 0.0025

Lxz = -0.0021

Lyx = 0.0025

Lyy = 0.0334

Lyx = 0.0014

Lzx = -0.0021

Lzy = 0.0014

Lzz = 0.0258

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

lxx = 0.0206

lxy = 0.0047

lxz = -0.0030

lyx = 0.0047

lyy = 0.0356

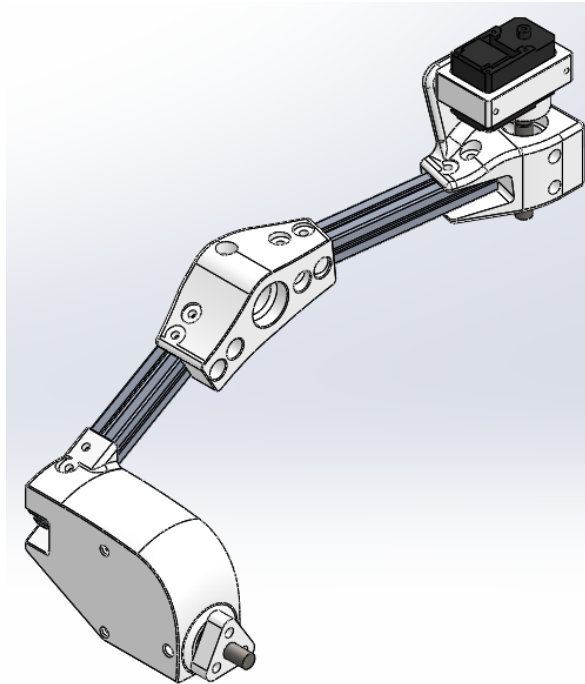
lyz = 0.0001

lzx = -0.0030

lzy = 0.0001

lzz = 0.0306

Archivo: MirrorBogie_pivot



Mass properties of MirrorBogie_pivot

Configuration: Standard

Coordinate system: Coordinate System1

Mass = 0.4062 kilograms

Volume = 0.0003 cubic meters

Surface area = 0.1326 square meters

Center of mass: (meters)

X = 0.1851

Y = 0.0514

Z = -0.1239

Distance: 483.36mm

Delta X: 446.42mm

Delta Y: 85.13mm

Delta Z: 164.61mm

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

Taken at the center of mass.

Ix = (-0.9099, -0.3150, 0.2699)

Px = 0.0215

Iy = (0.3951, -0.8563, 0.3325)

Py = 0.0959

Iz = (0.1264, 0.4092, 0.9037)

Pz = 0.0982

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0343

Lxy = 0.0212

Lxz = -0.0185

Lyx = 0.0212

Lyx = 0.0889

Lyz = -0.0072

Lzx = -0.0185

Lzy = -0.0072

Lzz = 0.0924

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

Ixx = 0.0416

Ixy = 0.0251

Ixz = -0.0279

Iyx = 0.0251

Iyy = 0.1091

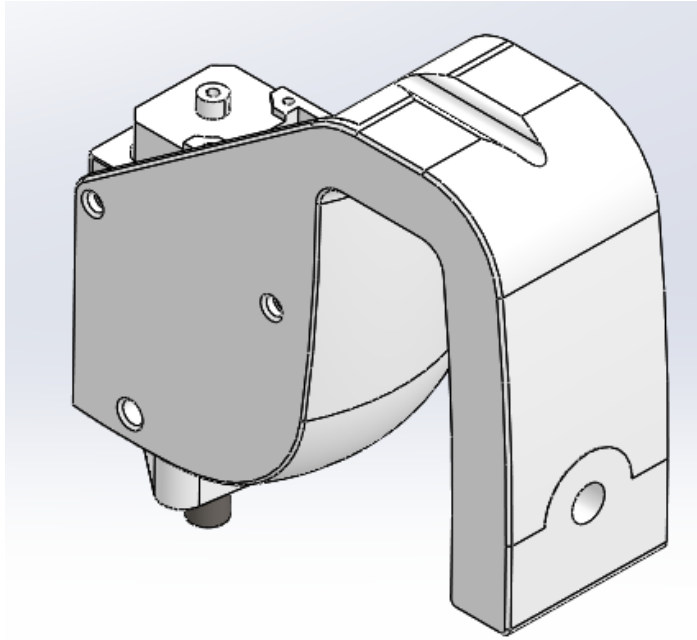
Iyz = -0.0098

Izx = -0.0279

Izy = -0.0098

Izz = 0.1074

Archivo: MirrorDrive Module_steerable



Mass properties of MirrorDrive Module_steerable
Configuration: Standard
Coordinate system: Coordinate System1

Distance: 374.07mm
Delta X: 255.32mm
Delta Y: 105.54mm
Delta Z: 252.19mm

3

Mass = 0.1978 kilograms

Volume = 0.0002 cubic meters

Distance: 399.00mm
Delta X: 255.81mm
Delta Y: 105.47mm
Delta Z: 287.47mm

4

Surface area = 0.0552 square meters

Center of mass: (meters)

X = -0.0509
Y = -0.055
Z = -0.0187

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

Taken at the center of mass.

Ix = (-0.4762, -0.3905, 0.7879)	Px = 0.0036
Iy = (-0.1043, 0.9148, 0.3903)	Py = 0.0092
Iz = (-0.8731, 0.1036, -0.4764)	Pz = 0.0112

Moments of inertia: (kilograms * square meters)

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

Lxx = 0.0094	Lxy = 0.0012	Lxz = -0.0029
Lyx = 0.0012	Lyx = 0.0084	Lyz = -0.0016
Lzx = -0.0029	Lzy = -0.0016	Lzz = 0.0062

Moments of inertia: (kilograms * square meters)

Taken at the output coordinate system.

lxx = 0.0101	lxy = 0.0018	lxz = -0.0028
lyx = 0.0018	lyy = 0.009	lyz = -0.0014
lzx = -0.0028	lzy = -0.0014	lzz = 0.0073