

Mass properties of Floating Robot 2

Configuration: Predeterminado

Coordinate system: Main Coordinate System

Mass = 5.77664482 kilograms

Total weld mass = 0.00000000 kilograms

Volume = 0.00139468 cubic meters

Surface area = 852811.79038465 square millimeters

Center of mass: (millimeters)

X = 0.00000000

Y = 0.00000000

Z = 0.00000000

Principal axes of inertia and principal moments of inertia(user-overridden): (kilograms * square millimeters)

Taken at the center of mass.

Ix = (0.99991423, 0.01201015, 0.00522297)

Px = 51162.56407942

Iy = (-0.01201211, 0.99992779, 0.00034410)

Py = 80953.78607720

Iz = (-0.00521846, -0.00040681, 0.99998630)

Pz = 83978.54593565

Moments of inertia: (kilograms * square millimeters)

Taken at the center of mass and aligned with the output coordinate system. (Using positive tensor notation.)

Lxx = 51167.75633783

Lxy = 357.76003588 Lxz = 171.36982793

Lyx = 357.76003588 Lyy = 80949.48937923

Lyz = 3.09924817

Lzx = 171.36982793 Lzy = 3.09924817 Lzz = 83977.65037522

Moments of inertia: (kilograms * square millimeters)

Taken at the output coordinate system. (Using positive tensor notation.)

lxx = 51167.75633783

lxy = 357.76003588 lxz = 171.36982793

lyx = 357.76003588 lyy = 80949.48937923

lyz = 3.09924817

lzx = 171.36982793 lzy = 3.09924817 lzz = 83977.65037522

Mass Properties have been overridden at the assembly level. Therefore,

any overrides specified at the component level are ignored in

Moment of Inertia calculations. One or more components have

user-overridden mass properties that are being ignored:

kcp1fra2a2p10000-swagelokcompany-3d-03-27-2024_BOTTOM<Predeterminado>@Pressure_valve<1><Predeterminado>

LiPo-Battery<1><Varsayilan>@Battery-with-case<1><Predeterminado>

GM3506 With Encoder@AOCS-2

PCB, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

2.54 mm DUPONT MALE PIN HEADER, IO, 2X20, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@Electronics

Gigabit Ethernet Port, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

Female Micro HDMI Connector, RPi4ModelB<2><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

Female Micro HDMI Connector, RPi4ModelB<3><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

Female USB Type C Connector, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

2X USB3.0 PORTS, RPi4ModelB<2><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

SD Card Slot, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

2X USB2.0 PORTS, RPi4ModelB<1><Default>@Raspberry Pi 4 Model B<1><Default>@RaspberryPi-Case<1><Default>@Electronics

Camera_module_3_wide_model_simple.stp@Camera-Gyro-Assembly