# Main body/platform (including motors) 1x

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | | **Value** | **Units** |
| Mass |  |  | kg |
| Principal moments of inertia | x |  | m^2 |
| y |  | m^2 |
| z |  | m^2 |
| Position/orientation of inertia frame and COM relative to shape frame | x |  | m |
| y |  | m |
| z |  | m |
| Alpha |  | deg |
| Beta |  | deg |
| Gamma |  | deg |

# Property reference: <http://www.coppeliarobotics.com/helpFiles/en/shapeDynamicsProperties.htm>

# Wheels 3x

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | | **Value** | **Units** |
| Mass |  |  | kg |
| Principal moments of inertia | x |  | m^2 |
| y |  | m^2 |
| z |  | m^2 |
| Position/orientation of inertia frame and COM relative to shape frame | x |  | m |
| y |  | m |
| z |  | m |
| Alpha |  | deg |
| Beta |  | deg |
| Gamma |  | deg |

# Property reference: <http://www.coppeliarobotics.com/helpFiles/en/shapeDynamicsProperties.htm>

# Rollers 48x

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | | **Value** | **Units** |
| Mass |  |  | kg |
| Principal moments of inertia | x |  | m^2 |
| y |  | m^2 |
| z |  | m^2 |
| Position/orientation of inertia frame and COM relative to shape frame | x |  | m |
| y |  | m |
| z |  | m |
| Alpha |  | deg |
| Beta |  | deg |
| Gamma |  | deg |
| Friction |  |  |  |
| Restitution |  |  |  |
| Lienar damping |  |  |  |
| Angular damping |  |  |  |
| Sticky contact |  |  | y/n |
| Auto-shrink convex mesh |  |  | y/n |
| Custom collision margin |  |  | y/n |
| Custom collision margin factor |  |  |  |
| Soft ERP |  |  |  |
| Soft CFM |  |  |  |
| Maximum contacts |  |  |  |

# Property reference: <http://www.coppeliarobotics.com/helpFiles/en/shapeDynamicsProperties.htm>

Property reference: <http://www.coppeliarobotics.com/helpFiles/en/shapeDynamicEngineProperties.htm>

# Image result for stepper motor pngMotors 3x

|  |  |  |
| --- | --- | --- |
| **Property** | **Value** | **Units** |
| Maximum torque |  | Nm |
| Maximum step size |  | deg |
| Normal CFM |  |  |
| Stop ERP |  |  |
| Stop CFM |  |  |
| Bounce |  |  |
| Fudge factor |  |  |

Property reference: <http://www.coppeliarobotics.com/helpFiles/en/jointDynamicEngineProperties.htm>