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|  | |  | | --- | | **Simulación de Ensamblaje Rueda Omnidireccional**  **Fecha: jueves, 5 de octubre de 2023 Diseñador: Solidworks**  **Nombre de estudio: Análisis estático 1**  **Tipo de análisis: Análisis estático** | | Tabla de contenidos  [Descripción 1](#_Toc147358904)  [Suposiciones 2](#_Toc147358905)  [Información de modelo 3](#_Toc147358906)  [Propiedades de estudio 10](#_Toc147358907)  [Unidades 10](#_Toc147358908)  [Propiedades de material 11](#_Toc147358909)  [Cargas y sujeciones 13](#_Toc147358910)  [Definiciones de conector 14](#_Toc147358911)  [Información de interacción 15](#_Toc147358912)  [Información de malla 16](#_Toc147358913)  [Detalles del sensor 16](#_Toc147358914)  [Fuerzas resultantes 17](#_Toc147358915)  [Vigas 17](#_Toc147358916)  [Resultados del estudio 18](#_Toc147358917)  [Conclusión 21](#_Toc147358918) | |
| Descripción No hay datos |

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| Suposiciones |

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| Información de modelo  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   ****Nombre del modelo:** Ensamblaje Rueda Omnidireccional**  ****Configuración actual:** Predeterminado** | | | | | ****Sólidos**** | | | | | ****Nombre de documento y referencia**** | ****Tratado como**** | ****Propiedades volumétricas**** | ****Ruta al documento/Fecha de modificación**** | | **Imported1** | **Sólido** | ****Masa:0.00603145 kg****  ****Volumen:5.63785e-06 m^3****  ****Densidad:1,069.81 kg/m^3****  ****Peso:0.0591082 N**** | ****D:\Nuevas Descargas\140675763-7-6202rs\6202rs.SLDPRT****  **Oct 2 19:18:53 2023** | | **Imported1** | **Sólido** | ****Masa:0.00603145 kg****  ****Volumen:5.63785e-06 m^3****  ****Densidad:1,069.81 kg/m^3****  ****Peso:0.0591082 N**** | ****D:\Nuevas Descargas\140675763-7-6202rs\6202rs.SLDPRT****  **Oct 2 19:18:53 2023** | | **T5\_48z\_pulley (1).stp<1>** | **Sólido** | ****Masa:0.0934422 kg****  ****Volumen:8.73292e-05 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.915734 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\T5\_48z\_pulley (1).SLDPRT****  **Oct 2 18:32:54 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00189085 kg****  ****Volumen:1.76715e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0185303 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 2.SLDPRT****  **Oct 2 18:40:12 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00126056 kg****  ****Volumen:1.1781e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0123535 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller 3.SLDPRT****  **Oct 2 18:36:16 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Saliente-Extruir1** | **Sólido** | ****Masa:0.00210094 kg****  ****Volumen:1.9635e-06 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:0.0205892 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Varilla Roller.SLDPRT****  **Oct 2 18:26:20 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **Wheel\_print (1).stp<1>** | **Sólido** | ****Masa:0.0516406 kg****  ****Volumen:4.82613e-05 m^3****  ****Densidad:1,070.02 kg/m^3****  ****Peso:0.506078 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\Wheel\_print (1).SLDPRT****  **Oct 2 18:02:59 2023** | | **omniWheel2 (1).stp<1>** | **Sólido** | ****Masa:0.544591 kg****  ****Volumen:0.000508963 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:5.33699 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\omniWheel2 (1).SLDPRT****  **Oct 2 18:06:46 2023** | | **omniWheel2\_B.stp<1>** | **Sólido** | ****Masa:0.60413 kg****  ****Volumen:0.000564607 m^3****  ****Densidad:1,070 kg/m^3****  ****Peso:5.92047 N**** | ****D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks\omniWheel2\_B.SLDPRT****  **Oct 2 18:07:30 2023** | |

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| Propiedades de estudio  |  |  | | --- | --- | | Nombre de estudio | Análisis estático 1 | | Tipo de análisis | Análisis estático | | Tipo de malla | Malla sólida | | Efecto térmico: | Activar | | Opción térmica | Incluir cargas térmicas | | Temperatura a tensión cero | 298 Kelvin | | Incluir los efectos de la presión de fluidos desde SOLIDWORKS Flow Simulation | Desactivar | | Tipo de solver | Automático | | Efecto de rigidización por tensión (Inplane): | Desactivar | | Muelle blando: | Desactivar | | Desahogo inercial: | Desactivar | | Opciones de unión rígida incompatibles | Automático | | Gran desplazamiento | Desactivar | | Calcular fuerzas de cuerpo libre | Activar | | Fricción | Desactivar | | Utilizar método adaptativo: | Desactivar | | Carpeta de resultados | Documento de SOLIDWORKS (D:\Nuevas Descargas\Mecanum\_Wheels\_3687287\files\SolidWorks) | |

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| Unidades  |  |  | | --- | --- | | Sistema de unidades: | Métrico (MKS) | | Longitud/Desplazamiento | mm | | Temperatura | Kelvin | | Velocidad angular | Rad/seg | | Presión/Tensión | N/m^2 | |

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| Propiedades de material  |  |  |  | | --- | --- | --- | | ****Referencia de modelo**** | ****Propiedades**** | ****Componentes**** | |  | |  |  | | --- | --- | | ****Nombre:**** | **ABS PC** | | ****Tipo de modelo:**** | **Isotrópico elástico lineal** | | ****Criterio de error predeterminado:**** | **Desconocido** | | ****Límite de tracción:**** | **4e+07 N/m^2** | | ****Módulo elástico:**** | **2.41e+09 N/m^2** | | ****Coeficiente de Poisson:**** | **0.3897** | | ****Densidad:**** | **1,070 kg/m^3** | | ****Módulo cortante:**** | **8.622e+08 N/m^2** | | **Sólido 1(Imported1)(6202rs-1),**  **Sólido 1(Imported1)(6202rs-2),**  **Sólido 1(T5\_48z\_pulley (1).stp<1>)(T5\_48z\_pulley (1)-1),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-1),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-2),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-3),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-4),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-5),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 2-6),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-1),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-2),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-4),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-5),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-6),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller 3-7),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-1),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-10),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-11),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-12),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-2),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-3),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-4),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-5),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-6),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-7),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-8),**  **Sólido 1(Saliente-Extruir1)(Varilla Roller-9),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-1),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-10),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-11),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-12),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-2),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-3),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-4),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-5),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-6),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-7),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-8),**  **Sólido 1(Wheel\_print (1).stp<1>)(Wheel\_print (1)-9),**  **Sólido 1(omniWheel2 (1).stp<1>)(omniWheel2 (1)-1),**  **Sólido 1(omniWheel2\_B.stp<1>)(omniWheel2\_B-1)** | | **Datos de curva:N/A** | | | |

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| **Cargas y sujeciones**  | ****Nombre de sujeción**** | ****Imagen de sujeción**** | ****Detalles de sujeción**** | | --- | --- | --- | | **Rodillo/Control deslizante-1** |  | |  |  | | --- | --- | | Entidades: | **2 cara(s)** | | Tipo: | **Rodillo/Control deslizante** | | | ****Fuerzas resultantes****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Componentes** | **X** | **Y** | **Z** | **Resultante** | | **Fuerza de reacción(N)** | **-501,892** | **0** | **0** | **501,892** | | **Momento de reacción(N.m)** | **0** | **0** | **0** | **0** | | | |  | ****Nombre de carga**** | ****Cargar imagen**** | ****Detalles de carga**** | | --- | --- | --- | | **Torsión-1** |  | |  |  | | --- | --- | | Referencia: | **Cara< 1 >** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-2** |  | |  |  | | --- | --- | | Entidades: | **1 cara(s)** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-3** |  | |  |  | | --- | --- | | Entidades: | **1 cara(s)** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-4** |  | |  |  | | --- | --- | | Referencia: | **Cara< 1 >** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-5** |  | |  |  | | --- | --- | | Referencia: | **Cara< 1 >** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-6** |  | |  |  | | --- | --- | | Entidades: | **1 cara(s)** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-7** |  | |  |  | | --- | --- | | Entidades: | **1 cara(s)** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | | **Torsión-8** |  | |  |  | | --- | --- | | Entidades: | **1 cara(s)** | | Tipo: | **Aplicar momento torsor** | | Valor: | **1 N.m** | | |

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| Definiciones de conector No hay datos |

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| Información de interacción  | Interacción | Imagen de interacción | Propiedades de interacción | | --- | --- | --- | | Interacción global |  | |  |  | | --- | --- | | Tipo: | **Unión rígida** | | Componentes: | **1 componente(s)** | | Opciones: | **Mallado independiente** | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Información de malla  |  |  | | --- | --- | | Tipo de malla | Malla sólida | | Mallador utilizado: | Malla basada en curvatura de combinado | | Puntos jacobianos para malla de alta calidad | 16 Puntos | | Tamaño máximo de elemento | 12.7444 mm | | Tamaño mínimo del elemento | 0.637219 mm | | Calidad de malla | Elementos cuadráticos de alto orden | | Mallar de nuevo las piezas fallidas de forma independiente | Desactivar |  Información de malla - Detalles  |  |  | | --- | --- | | Número total de nodos | 961528 | | Número total de elementos | 608709 | | Cociente máximo de aspecto | 55.633 | | % de elementos cuyo cociente de aspecto es < 3 | 98.4 | | El porcentaje de elementos cuyo cociente de aspecto es > 10 | 0.083 | | Porcentaje de elementos distorsionados | 0 | | Tiempo para completar la malla (hh;mm;ss): | 00:00:45 | | Nombre de computadora: | SEBASTIANPC |  Información sobre el control de malla:  | **Nombre del control de malla** | **Imagen del control de malla** | **Detalles del control de malla** | | --- | --- | --- | | **Control-1** |  | |  |  | | --- | --- | | Entidades: | **1 componente(s)** | | Unidades: | **mm** | | Tamaño: | **3.18609** | | Cociente: | **3.18609** | | |

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| Detalles del sensor No hay datos |

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| Fuerzas resultantesFuerzas de reacción  | Conjunto de selecciones | Unidades | Sum X | Sum Y | Sum Z | Resultante | | --- | --- | --- | --- | --- | --- | | Todo el modelo | N | -501,892 | 0 | 0 | 501,892 |  Momentos de reacción  | Conjunto de selecciones | Unidades | Sum X | Sum Y | Sum Z | Resultante | | --- | --- | --- | --- | --- | --- | | Todo el modelo | N.m | 0 | 0 | 0 | 0 | |
| Fuerzas de cuerpo libre  | Conjunto de selecciones | Unidades | Sum X | Sum Y | Sum Z | Resultante | | --- | --- | --- | --- | --- | --- | | Todo el modelo | N | -2.558e+07 | -3.73841e+07 | 9.9992e+07 | 1.09774e+08 |  Momentos de cuerpo libre  | Conjunto de selecciones | Unidades | Sum X | Sum Y | Sum Z | Resultante | | --- | --- | --- | --- | --- | --- | | Todo el modelo | N.m | 0 | 0 | 0 | 1e-33 | |

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| Vigas No hay datos |

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| Resultados del estudio  | Nombre | Tipo | Mín. | Máx. | | --- | --- | --- | --- | | Tensiones1 | VON: Tensión de von Mises | 0.000e+00N/m^2  Nodo: 385937 | 7.483e+12N/m^2  Nodo: 32400 | | **Ensamblaje Rueda Omnidireccional-Análisis estático 1-Tensiones-Tensiones1** | | | |  | Nombre | Tipo | Mín. | Máx. | | --- | --- | --- | --- | | Desplazamientos1 | URES: Desplazamientos resultantes | 0.000e+00mm  Nodo: 385937 | 1.745e+11mm  Nodo: 736379 | | **Ensamblaje Rueda Omnidireccional-Análisis estático 1-Desplazamientos-Desplazamientos1** | | | |  | Nombre | Tipo | Mín. | Máx. | | --- | --- | --- | --- | | Deformaciones unitarias1 | ESTRN: Deformación unitaria equivalente | 0.000e+00  Elemento: 253050 | 2.460e+03  Elemento: 129069 | | **Ensamblaje Rueda Omnidireccional-Análisis estático 1-Deformaciones unitarias-Deformaciones unitarias1** | | | |  | Nombre | Tipo | | --- | --- | | Desplazamientos1{1} | Deformada | | **Ensamblaje Rueda Omnidireccional-Análisis estático 1-Desplazamientos-Desplazamientos1{1}** | |  |  | | --- | |  | | **Imagen-1** |  |  | | --- | |  | | **Imagen-2** | |

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| Conclusión |