|  |  |  |  |
| --- | --- | --- | --- |
|  | |  | | --- | | **Simulazione di prova piattaforma**  **Data: lunedì 31 marzo 2025 Designer: Solidworks**  **Nome studio: SimulationXpress Study**  **Tipo di analisi: Analisi statica** | | Sommario  [Descrizione 1](#_Toc194334520)  [Presupposti 2](#_Toc194334521)  [Informazioni sul modello 2](#_Toc194334522)  [Proprietà materiale 3](#_Toc194334523)  [Carichi e fissaggi 3](#_Toc194334524)  [Informazioni relative al mesh 4](#_Toc194334525)  [Risultati studio 6](#_Toc194334526)  [Conclusione 8](#_Toc194334527) | |
| Descrizione Dati non disponibili |

|  |
| --- |
| Presupposti |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Informazioni sul modello  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   ****Nome del modello:** prova piattaforma**  ****Configurazione corrente:** Default** | | | | | ****Corpi solidi**** | | | | | ****Nome documento e Riferimento**** | ****Trattato come**** | ****Proprietà volumetriche**** | ****Percorso/Data documento modificati**** | | **Smusso1** | **Corpo solido** | ****Massa:0,0103937 kg****  ****Volume:1,01899e-05 m^3****  ****Densità:1.020 kg/m^3****  ****Spessore:0,101858 N**** | ****C:\Users\andrea.verli\Desktop\Meccanica-VS\VertiStock\forche versione finale (sperando ulteriori modifiche)\prova piattaforma.SLDPRT****  **Mar 31 16:30:56 2025** | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Proprietà materiale  |  |  |  | | --- | --- | --- | | ****Riferimento modello**** | ****Proprietà**** | ****Componenti**** | |  | |  |  | | --- | --- | | ****Nome:**** | **Plastiche personalizzate** | | ****Tipo di modello:**** | **Isotropico elastico lineare** | | ****Fallimento di default:**** | **Sollecitazione massima von Mises** | | ****Resistenza alla trazione:**** | **3e+07 N/m^2** | | **CorpoSolido 1(Smusso1)(prova piattaforma)** | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Carichi e fissaggi**  | ****Nome fissaggio**** | ****Immagine fissaggio**** | ****Dettagli fissaggio**** | | --- | --- | --- | | **Fisso-3** |  | |  |  | | --- | --- | | Entità: | **2 facce** | | Tipo: | **Geometria fissa** | |  | ****Nome del carico**** | ****Immagine carico**** | ****Dettagli carico**** | | --- | --- | --- | | **Forza-3** |  | |  |  | | --- | --- | | Entità: | **1 facce** | | Tipo: | **Applica forza normale** | | Valore: | **4,905 N** | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Informazioni relative al mesh  |  |  | | --- | --- | | Tipo di mesh | Mesh di elementi solidi | | Mesher usato: | Mesh standard | | Transizione automatica: | Disattivo | | Includi loop automatico della mesh: | Disattivo | | Punti jacobiani per mesh di alta qualità | 16 Punti | | Dimensione elemento | 2,24263 mm | | Tolleranza | 0,112132 mm | | Qualità della mesh | Ottima |  Informazioni relative al mesh - Dettagli  |  |  | | --- | --- | | Nodi totali | 13189 | | Elementi totali | 7842 | | Rapporto d'aspetto max | 5,7032 | | % di elementi con rapporto d'aspetto < 3 | 99,9 | | Percentuale di elementi con rapporto d'aspetto > 10 | 0 | | Percentuale di elementi distorti | 0 | | Tempo per completare la mesh(hh;mm;ss): | 00:00:00 | | Nome del computer: | M006-23 | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Risultati studio  | Nome | Tipo | Min | Max | | --- | --- | --- | --- | | Stress | VON: sollecitazione von Mises | 3,669e+03N/m^2  Nodo: 3056 | 1,398e+05N/m^2  Nodo: 11524 | | **prova piattaforma-SimulationXpress Study-Sollecitazione-Stress** | | | |  | Nome | Tipo | Min | Max | | --- | --- | --- | --- | | Displacement | URES: spostamento risultante | 0,000e+00mm  Nodo: 27 | 3,937e-03mm  Nodo: 11571 | | **prova piattaforma-SimulationXpress Study-Spostamento-Displacement** | | | |  | Nome | Tipo | | --- | --- | | Deformation | Sagoma deformata | | **prova piattaforma-SimulationXpress Study-Spostamento-Deformation** | | |

|  |
| --- |
| Conclusione |