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|  | |  | | --- | | **Simulation de Assemblage complet**  **Date: mercredi 12 février 2014 Concepteur: Solidworks**  **Nom de l'étude: Etude 1**  **Type d'analyse: Analyse statique** | | Table of Contents  [Description 1](#_Toc379979989)  [Hypothèses 2](#_Toc379979990)  [Informations sur le modèle 2](#_Toc379979991)  [Propriétés de l'étude 11](#_Toc379979992)  [Unités 11](#_Toc379979993)  [Propriétés du matériau 12](#_Toc379979994)  [Actions extérieures 16](#_Toc379979995)  [Définitions des connecteurs 18](#_Toc379979996)  [Informations sur le contact 23](#_Toc379979997)  [Informations sur le maillage 26](#_Toc379979998)  [Détails des capteurs 27](#_Toc379979999)  [Forces résultantes 27](#_Toc379980000)  [Poutres 28](#_Toc379980001)  [Résultats de l'étude 29](#_Toc379980002)  [Conclusion 33](#_Toc379980003) | |
| Description Aucune donnée |

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| Hypothèses |

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| Informations sur le modèle  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   ****Nom du modèle:** Assemblage complet**  ****Configuration actuelle:** Défaut** | | | | | ****Corps volumiques**** | | | | | ****Nom du document et référence**** | ****Traité comme**** | ****Propriétés volumétriques**** | ****Chemin/Date de modification du document**** | | **Symétrie3** | **Corps volumique** | ****Masse:0.185354 kg****  ****Volume:2.37634e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.81647 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Boss.-Extru.5[1]** | **Corps volumique** | ****Masse:0.01404 kg****  ****Volume:1.8e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.137592 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Boss.-Extru.5[2]** | **Corps volumique** | ****Masse:0.01404 kg****  ****Volume:1.8e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.137592 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Trou taraudé M84[1]** | **Corps volumique** | ****Masse:12.9522 kg****  ****Volume:0.00166054 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:126.932 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Elément mécano-soudé1[2]** | **Corps volumique** | ****Masse:12.9522 kg****  ****Volume:0.00166054 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:126.932 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Elément mécano-soudé1[4]** | **Corps volumique** | ****Masse:3.28499 kg****  ****Volume:0.000421152 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:32.1929 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Elément mécano-soudé1[3]** | **Corps volumique** | ****Masse:3.28499 kg****  ****Volume:0.000421152 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:32.1929 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Trou taraudé M84[2]** | **Corps volumique** | ****Masse:2.55491 kg****  ****Volume:0.000327552 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:25.0381 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Trou taraudé M83** | **Corps volumique** | ****Masse:0.252305 kg****  ****Volume:3.23467e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.47258 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Chanfrein3** | **Corps volumique** | ****Masse:0.207358 kg****  ****Volume:2.65844e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.03211 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Symétrie1[1]** | **Corps volumique** | ****Masse:0.252305 kg****  ****Volume:3.23467e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.47258 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Symétrie1[2]** | **Corps volumique** | ****Masse:2.55491 kg****  ****Volume:0.000327552 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:25.0381 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Symétrie1[3]** | **Corps volumique** | ****Masse:0.207358 kg****  ****Volume:2.65844e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.03211 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Congé2** | **Corps volumique** | ****Masse:0.184858 kg****  ****Volume:2.36997e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.81161 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Ligne de séparation3** | **Corps volumique** | ****Masse:0.804711 kg****  ****Volume:0.000103168 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:7.88617 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Ligne de séparation4** | **Corps volumique** | ****Masse:0.612224 kg****  ****Volume:7.84903e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:5.9998 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Ligne de séparation1** | **Corps volumique** | ****Masse:0.804711 kg****  ****Volume:0.000103168 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:7.88617 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Ligne de séparation2** | **Corps volumique** | ****Masse:0.612224 kg****  ****Volume:7.84903e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:5.9998 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Symétrie5[2]** | **Corps volumique** | ****Masse:0.116033 kg****  ****Volume:1.4876e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.13712 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Symétrie5[1]** | **Corps volumique** | ****Masse:0.116033 kg****  ****Volume:1.4876e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.13712 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Boss.-Extru.10** | **Corps volumique** | ****Masse:0.116033 kg****  ****Volume:1.4876e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.13712 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Boss.-Extru.9** | **Corps volumique** | ****Masse:0.116033 kg****  ****Volume:1.4876e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.13712 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis assise.SLDPRT****  **Feb 12 13:38:13 2014** | | **Tôle de base pliée4** | **Corps volumique** | ****Masse:7.0243 kg****  ****Volume:0.000900551 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:68.8381 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.3[4]** | **Corps volumique** | ****Masse:0.195312 kg****  ****Volume:2.504e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.91406 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.3[5]** | **Corps volumique** | ****Masse:0.195312 kg****  ****Volume:2.504e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.91406 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.4[4]** | **Corps volumique** | ****Masse:0.148548 kg****  ****Volume:1.90447e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.45577 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.4[5]** | **Corps volumique** | ****Masse:0.148548 kg****  ****Volume:1.90447e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.45577 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation4** | **Corps volumique** | ****Masse:1.32079 kg****  ****Volume:0.000169332 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:12.9437 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation2** | **Corps volumique** | ****Masse:1.53692 kg****  ****Volume:0.000197041 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:15.0618 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Elément mécano-soudé1** | **Corps volumique** | ****Masse:0.198142 kg****  ****Volume:2.54028e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:1.94179 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Boss.-Extru.14** | **Corps volumique** | ****Masse:0.96076 kg****  ****Volume:0.000123174 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:9.41544 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.6[1]** | **Corps volumique** | ****Masse:0.0469545 kg****  ****Volume:6.01981e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.460154 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.6[2]** | **Corps volumique** | ****Masse:0.0469545 kg****  ****Volume:6.01981e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.460154 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.4[1]** | **Corps volumique** | ****Masse:2.62265 kg****  ****Volume:0.000336237 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:25.702 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.4[2]** | **Corps volumique** | ****Masse:2.95018 kg****  ****Volume:0.000378228 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:28.9117 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.4[3]** | **Corps volumique** | ****Masse:2.95021 kg****  ****Volume:0.000378232 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:28.9121 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\piece centrale 1.SLDPRT****  **Feb 12 13:38:14 2014** | | **Symétrie6[3]** | **Corps volumique** | ****Masse:0.209498 kg****  ****Volume:2.68588e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.05308 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Symétrie6[4]** | **Corps volumique** | ****Masse:0.209095 kg****  ****Volume:2.6807e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.04913 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ajuster/Prolonger8** | **Corps volumique** | ****Masse:0.904864 kg****  ****Volume:0.000116008 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:8.86766 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.1[1]** | **Corps volumique** | ****Masse:14.0281 kg****  ****Volume:0.00179847 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:137.475 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Trou taraudé M83[1]** | **Corps volumique** | ****Masse:14.0281 kg****  ****Volume:0.00179847 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:137.475 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ajuster/Prolonger2** | **Corps volumique** | ****Masse:0.645279 kg****  ****Volume:8.27281e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:6.32374 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ajuster/Prolonger4** | **Corps volumique** | ****Masse:3.43049 kg****  ****Volume:0.000439807 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:33.6188 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Trou taraudé M82** | **Corps volumique** | ****Masse:0.209498 kg****  ****Volume:2.68588e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.05308 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.8[1]** | **Corps volumique** | ****Masse:1.83164 kg****  ****Volume:0.000234825 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:17.95 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Trou taraudé M84** | **Corps volumique** | ****Masse:0.224788 kg****  ****Volume:2.88189e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.20292 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ajuster/Prolonger6** | **Corps volumique** | ****Masse:0.601604 kg****  ****Volume:7.71288e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:5.89572 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.3[1]** | **Corps volumique** | ****Masse:0.0767007 kg****  ****Volume:9.83343e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.751667 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Congé4** | **Corps volumique** | ****Masse:0.209095 kg****  ****Volume:2.6807e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.04913 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.3[2]** | **Corps volumique** | ****Masse:0.0767007 kg****  ****Volume:9.83343e-006 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:0.751667 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.8[2]** | **Corps volumique** | ****Masse:1.83164 kg****  ****Volume:0.000234825 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:17.95 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Symétrie6[2]** | **Corps volumique** | ****Masse:0.224788 kg****  ****Volume:2.88189e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:2.20292 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation10** | **Corps volumique** | ****Masse:0.683315 kg****  ****Volume:8.76045e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:6.69649 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation6** | **Corps volumique** | ****Masse:0.729972 kg****  ****Volume:9.35861e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:7.15372 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation4** | **Corps volumique** | ****Masse:0.729972 kg****  ****Volume:9.35861e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:7.15372 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Ligne de séparation8** | **Corps volumique** | ****Masse:0.683315 kg****  ****Volume:8.76045e-005 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:6.69649 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\chassis2.SLDPRT****  **Feb 12 13:38:14 2014** | | **Enlèv. mat.-Extru.2[2]** | **Corps volumique** | ****Masse:2.00261 kg****  ****Volume:0.000256745 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:19.6256 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\milieu 2.SLDPRT****  **Feb 12 13:38:11 2014** | | **Tôle de base pliée1** | **Corps volumique** | ****Masse:5.69313 kg****  ****Volume:0.000729888 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:55.7927 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\milieu 2.SLDPRT****  **Feb 12 13:38:11 2014** | | **Enlèv. mat.-Extru.2[1]** | **Corps volumique** | ****Masse:2.00261 kg****  ****Volume:0.000256745 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:19.6256 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\milieu 2.SLDPRT****  **Feb 12 13:38:11 2014** | | **Ligne de séparation2** | **Corps volumique** | ****Masse:1.33039 kg****  ****Volume:0.000170563 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:13.0379 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\milieu 2.SLDPRT****  **Feb 12 13:38:11 2014** | | **Ligne de séparation4** | **Corps volumique** | ****Masse:1.53692 kg****  ****Volume:0.000197041 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:15.0618 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\milieu 2.SLDPRT****  **Feb 12 13:38:11 2014** | | **Enlèv. mat.-Extru.2** | **Corps volumique** | ****Masse:2.54083 kg****  ****Volume:0.000325747 m^3****  ****Masse volumique:7800 kg/m^3****  ****Poids:24.9001 N**** | ****\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique\vérin megamat 5 modélisé.SLDPRT****  **Feb 12 13:38:06 2014** | |

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| Propriétés de l'étude  |  |  | | --- | --- | | Nom d'étude | Etude 1 | | Type d'analyse | Analyse statique | | Type de maillage | Maillage volumique | | Effets thermiques: | Activé(e) | | Option thermique | Inclure des chargements thermiques | | Température de déformation nulle | 298 Kelvin | | Inclure la pression du fluide calculée par SolidWorks Flow Simulation | Désactivé(e) | | Type de solveur | Solveur direct | | Stress Stiffening: | Désactivé(e) | | Faible raideur: | Désactivé(e) | | Relaxation inertielle: | Désactivé(e) | | Options de contact solidaire incompatible | Automatique | | Grand déplacement | Désactivé(e) | | Vérifier les forces externes | Désactivé(e) | | Friction | Désactivé(e) | | Méthode adaptative: | Désactivé(e) | | Dossier de résultats | Document SolidWorks (\\DLINK-92FE1B\Volume\_1\PROJETS\TKM\Etude statique) | |

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| Unités  |  |  | | --- | --- | | Système d'unités: | SI (MKS) | | Longueur/Déplacement | mm | | Température | Kelvin | | Vitesse angulaire | Rad/sec | | Pression/Contrainte | N/m^2 | |

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| Propriétés du matériau  |  |  |  | | --- | --- | --- | | ****Référence du modèle**** | ****Propriétés**** | ****Composants**** | |  | |  |  | | --- | --- | | ****Nom:**** | **S355** | | ****Type de modèle:**** | **Linéaire élastique isotropique** | | ****Critère de ruine par défaut:**** | **Contrainte de von Mises max.** | | ****Limite d'élasticité:**** | **3.55e+008 N/m^2** | | ****Limite de traction:**** | **4.9e+007 N/m^2** | | ****Module d'élasticité:**** | **2.05e+009 N/m^2** | | ****Coefficient de Poisson:**** | **0.394** | | ****Masse volumique:**** | **7800 kg/m^3** | | ****Module de cisaillement:**** | **3.189e+008 N/m^2** | | **Corps volumique 1(Symétrie3)(Chassis assise-2/chassis assise-1),**  **Corps volumique 2(Boss.-Extru.5[1])(Chassis assise-2/chassis assise-1),**  **Corps volumique 3(Boss.-Extru.5[2])(Chassis assise-2/chassis assise-1),**  **Corps volumique 4(Trou taraudé M84[1])(Chassis assise-2/chassis assise-1),**  **Corps volumique 5(Elément mécano-soudé1[2])(Chassis assise-2/chassis assise-1),**  **Corps volumique 6(Elément mécano-soudé1[4])(Chassis assise-2/chassis assise-1),**  **Corps volumique 7(Elément mécano-soudé1[3])(Chassis assise-2/chassis assise-1),**  **Corps volumique 8(Trou taraudé M84[2])(Chassis assise-2/chassis assise-1),**  **Corps volumique 9(Trou taraudé M83)(Chassis assise-2/chassis assise-1),**  **Corps volumique 10(Chanfrein3)(Chassis assise-2/chassis assise-1),**  **Corps volumique 11(Symétrie1[1])(Chassis assise-2/chassis assise-1),**  **Corps volumique 12(Symétrie1[2])(Chassis assise-2/chassis assise-1),**  **Corps volumique 13(Symétrie1[3])(Chassis assise-2/chassis assise-1),**  **Corps volumique 14(Congé2)(Chassis assise-2/chassis assise-1),**  **Corps volumique 15(Ligne de séparation3)(Chassis assise-2/chassis assise-1),**  **Corps volumique 16(Ligne de séparation4)(Chassis assise-2/chassis assise-1),**  **Corps volumique 17(Ligne de séparation1)(Chassis assise-2/chassis assise-1),**  **Corps volumique 18(Ligne de séparation2)(Chassis assise-2/chassis assise-1),**  **Corps volumique 19(Symétrie5[2])(Chassis assise-2/chassis assise-1),**  **Corps volumique 20(Symétrie5[1])(Chassis assise-2/chassis assise-1),**  **Corps volumique 21(Boss.-Extru.10)(Chassis assise-2/chassis assise-1),**  **Corps volumique 22(Boss.-Extru.9)(Chassis assise-2/chassis assise-1),**  **Corps volumique 1(Tôle de base pliée4)(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 2(Enlèv. mat.-Extru.3[4])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 3(Enlèv. mat.-Extru.3[5])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 4(Enlèv. mat.-Extru.4[4])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 5(Enlèv. mat.-Extru.4[5])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 6(Ligne de séparation4)(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 7(Ligne de séparation2)(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 11(Elément mécano-soudé1)(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 12(Boss.-Extru.14)(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 13(Enlèv. mat.-Extru.6[1])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 14(Enlèv. mat.-Extru.6[2])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 16(Enlèv. mat.-Extru.4[1])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 17(Enlèv. mat.-Extru.4[2])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 18(Enlèv. mat.-Extru.4[3])(Structure milieu 1-1/piece centrale 1-1),**  **Corps volumique 2(Symétrie6[3])(assemblage embase-1/chassis2-1),**  **Corps volumique 4(Symétrie6[4])(assemblage embase-1/chassis2-1),**  **Corps volumique 7(Ajuster/Prolonger8)(assemblage embase-1/chassis2-1),**  **Corps volumique 8(Enlèv. mat.-Extru.1[1])(assemblage embase-1/chassis2-1),**  **Corps volumique 10(Trou taraudé M83[1])(assemblage embase-1/chassis2-1),**  **Corps volumique 14(Ajuster/Prolonger2)(assemblage embase-1/chassis2-1),**  **Corps volumique 17(Ajuster/Prolonger4)(assemblage embase-1/chassis2-1),**  **Corps volumique 20(Trou taraudé M82)(assemblage embase-1/chassis2-1),**  **Corps volumique 21(Enlèv. mat.-Extru.8[1])(assemblage embase-1/chassis2-1),**  **Corps volumique 22(Trou taraudé M84)(assemblage embase-1/chassis2-1),**  **Corps volumique 23(Ajuster/Prolonger6)(assemblage embase-1/chassis2-1),**  **Corps volumique 24(Enlèv. mat.-Extru.3[1])(assemblage embase-1/chassis2-1),**  **Corps volumique 25(Congé4)(assemblage embase-1/chassis2-1),**  **Corps volumique 26(Enlèv. mat.-Extru.3[2])(assemblage embase-1/chassis2-1),**  **Corps volumique 27(Enlèv. mat.-Extru.8[2])(assemblage embase-1/chassis2-1),**  **Corps volumique 29(Symétrie6[2])(assemblage embase-1/chassis2-1),**  **Corps volumique 30(Ligne de séparation10)(assemblage embase-1/chassis2-1),**  **Corps volumique 31(Ligne de séparation6)(assemblage embase-1/chassis2-1),**  **Corps volumique 32(Ligne de séparation4)(assemblage embase-1/chassis2-1),**  **Corps volumique 33(Ligne de séparation8)(assemblage embase-1/chassis2-1),**  **Corps volumique 1(Enlèv. mat.-Extru.2[2])(milieu 2-1),**  **Corps volumique 2(Tôle de base pliée1)(milieu 2-1),**  **Corps volumique 5(Enlèv. mat.-Extru.2[1])(milieu 2-1),**  **Corps volumique 12(Ligne de séparation2)(milieu 2-1),**  **Corps volumique 13(Ligne de séparation4)(milieu 2-1),**  **Corps volumique 1(Enlèv. mat.-Extru.2)(vérin megamat 5 modélisé-1)** | | **Données de la courbe:N/A** | | | |

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| **Actions extérieures**  | ****Nom du déplacement imposé**** | ****Image du déplacement imposé**** | ****Détails du déplacement imposé**** | | --- | --- | --- | | **Fixe-2** |  | |  |  | | --- | --- | | Entités: | **1 face(s)** | | Type: | **Géométrie fixe** | | | ****Forces résultantes****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Composants** | **X** | **Y** | **Z** | **Résultante** | | **Force de réaction(N)** | **0.00629997** | **262.845** | **-9.91821e-005** | **262.845** | | **Moment de réaction(N.m)** | **0** | **0** | **0** | **0** | | | | | **Paroi virtuelle-1** |  | |  |  | | --- | --- | | Type: | **Paroi virtuelle** | | Entités: | **3 face(s), 1 plan(s)** | | Type de paroi: | **Rigide** | | Raideur axiale: | **0(N/m)/m^2** | | Raideur tangentielle: | **0(N/m)/m^2** | |  | ****Nom du chargement**** | ****Image du chargement**** | ****Détails du chargement**** | | --- | --- | --- | | **Force-1** |  | |  |  | | --- | --- | | Entités: | **1 face(s)** | | Type: | **Force normale** | | Valeur: | **750 N** | | | **Force-2** |  | |  |  | | --- | --- | | Entités: | **1 face(s)** | | Type: | **Force normale** | | Valeur: | **750 N** | | |

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| Définitions des connecteurs **Connecteur axe/boulon/palier**   |  |  |  | | --- | --- | --- | | ****Référence du modèle**** | ****Détails du connecteur**** | ****Détails de résistance**** | | ****Connecteur d'axe-19**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Axe** | | ****Type de connexion:**** | **Avec circlip (aucune translation)** | | ****Valeur de la raideur en rotation:**** | **0** | | ****Unités:**** | **SI** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **-8.6857** | **8.6857** | | **Force de cisaillement (N)** | **3.6228** | **2.5777** | **0** | **4.4462** | | **Moment de torsion (N.m)** | **-0** | **-0** | **2.2725e-010** | **-2.2725e-010** | | **Moment de flexion (N.m)** | **-0.14553** | **0.015321** | **0** | **0.14633** | | | | | ****Connecteur d'axe-20**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Axe** | | ****Type de connexion:**** | **Avec circlip (aucune translation)** | | ****Valeur de la raideur en rotation:**** | **0** | | ****Unités:**** | **SI** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **-8.6857** | **8.6857** | | **Force de cisaillement (N)** | **3.6228** | **2.5776** | **0** | **4.4462** | | **Moment de torsion (N.m)** | **0** | **0** | **-5.9039e-010** | **5.9039e-010** | | **Moment de flexion (N.m)** | **-0.096907** | **-0.053009** | **0** | **0.11046** | | | | | ****Connecteur d'axe-21**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Axe** | | ****Type de connexion:**** | **Avec circlip (aucune translation)** | | ****Valeur de la raideur en rotation:**** | **0** | | ****Unités:**** | **SI** | | |  |  | | --- | --- | | Contrôle des boulons: | OK | | CS calculé: | 8.0822e+009 | | CS désiré: | 2 | | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **-1.8626e-009** | **1.8626e-009** | | **Force de cisaillement (N)** | **8.6082e-008** | **2.6888e-007** | **0** | **2.8233e-007** | | **Moment de torsion (N.m)** | **0** | **0** | **-5.9039e-010** | **5.9039e-010** | | **Moment de flexion (N.m)** | **-3.5505e-009** | **-2.1436e-009** | **0** | **4.1474e-009** | | | | | ****Connecteur d'axe-22**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Axe** | | ****Type de connexion:**** | **Avec circlip (aucune translation)** | | ****Valeur de la raideur en rotation:**** | **0** | | ****Unités:**** | **SI** | | |  |  | | --- | --- | | Contrôle des boulons: | OK | | CS calculé: | 1.08463e+020 | | CS désiré: | 2 | | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **0** | **0** | | **Force de cisaillement (N)** | **7.3924e-009** | **-8.1636e-008** | **0** | **8.197e-008** | | **Moment de torsion (N.m)** | **-0** | **-0** | **-5.9039e-010** | **-5.9039e-010** | | **Moment de flexion (N.m)** | **9.0102e-010** | **-3.7677e-009** | **0** | **3.874e-009** | | | | | ****Connecteur de type palier-17**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **-0** | **-0** | **-0.55381** | **-0.55381** | | **Force de cisaillement (N)** | **-2006.1** | **1381.2** | **0** | **2435.6** | | **Moment de flexion (N.m)** | **-0.013811** | **-0.020058** | **0** | **0.024353** | | | | | ****Connecteur de type palier-18**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **-0** | **-0** | **-0.16551** | **-0.16551** | | **Force de cisaillement (N)** | **1560.7** | **-557.08** | **0** | **1657.2** | | **Moment de flexion (N.m)** | **0.0055701** | **0.015605** | **0** | **0.01657** | | | | | ****Connecteur de type palier-19**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **0** | **0** | | **Force de cisaillement (N)** | **0** | **-0** | **0** | **0** | | **Moment de flexion (N.m)** | **0** | **0** | **0** | **0** | | | | | ****Connecteur de type palier-20**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **-0** | **0** | | **Force de cisaillement (N)** | **0** | **-0** | **0** | **0** | | **Moment de flexion (N.m)** | **0** | **0** | **0** | **0** | | | | | ****Connecteur de type palier-21**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **-0** | **-0** | **0.49491** | **-0.49491** | | **Force de cisaillement (N)** | **1455** | **574.69** | **0** | **1564.4** | | **Moment de flexion (N.m)** | **0.0057461** | **-0.014548** | **0** | **0.015641** | | | | | ****Connecteur de type palier-22**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **0** | **0** | **-0.030422** | **0.030422** | | **Force de cisaillement (N)** | **-1313.3** | **3.4639** | **0** | **1313.3** | | **Moment de flexion (N.m)** | **3.4634e-005** | **0.013131** | **0** | **0.013131** | | | | | ****Connecteur de type palier-23**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **-0** | **-0** | **0.58454** | **-0.58454** | | **Force de cisaillement (N)** | **804.41** | **-661.13** | **0** | **1041.2** | | **Moment de flexion (N.m)** | **-0.0066104** | **-0.008043** | **0** | **0.010411** | | | | | ****Connecteur de type palier-24**** | |  |  | | --- | --- | | ****Entités:**** | **2 face(s)** | | ****Type:**** | **Palier** | | **Aucune donnée** | | ****Forces dans les connecteurs****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Composante X** | **Composante Y** | **Composante Z** | **Résultante** | | **Force axiale (N)** | **-0** | **-0** | **0.62887** | **-0.62887** | | **Force de cisaillement (N)** | **-277.11** | **224.53** | **0** | **356.66** | | **Moment de flexion (N.m)** | **0.002245** | **0.0027707** | **0** | **0.0035661** | | | | |

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| Informations sur le contact  | Contact | Image du contact | Propriétés du contact | | --- | --- | --- | | Contact entre ensembles-244 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-245 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | ****Forces de contact/frottement****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Composants** | **X** | **Y** | **Z** | **Résultante** | | **Force de contact(N)** | **0** | **340.42** | **0** | **340.42** | | | | | Contact entre ensembles-246 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-247 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-248 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-249 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-250 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-251 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact entre ensembles-252 |  | |  |  | | --- | --- | | Type: | **Contact entre paire solidaire** | | Entités: | **2 face(s)** | | | Contact global |  | |  |  | | --- | --- | | Type: | **Solidaire** | | Composants: | **1 composant(s)** | | Options: | **Maillage compatible** | | |

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| Informations sur le maillage  |  |  | | --- | --- | | Type de maillage | Maillage volumique | | Mailleur utilisé: | Maillage basé sur la courbure | | Points de Jacobien | 4 Points | | Taille d'élément maximum | 45.6921 mm | | Taille d'élément minimum | 9.13842 mm | | Qualité de maillage | Haute | | Remailler les pièces en échec avec un maillage incompatible | Activé(e) |  Informations sur le maillage - Détails  |  |  | | --- | --- | | Nombre total de noeuds | 280992 | | Nombre total d'éléments | 144880 | | Aspect ratio maximum | 688.25 | | % d'éléments ayant un aspect ratio < 3 | 73.4 | | % d'éléments ayant un aspect ratio > 10 | 1.25 | | % d'éléments distordus (Jacobien) | 0 | | Durée de création du maillage (hh;mm;ss): | 00:00:25 | | Nom de l'ordinateur: | PCCAO-PC | |  | | |

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| Détails des capteurs Aucune donnée |

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| Forces résultantesForces de réaction  | Ensemble de sélections | Unités | Somme X | Somme Y | Somme Z | Résultante | | --- | --- | --- | --- | --- | --- | | Modèle entier | N | 0.00629997 | 262.845 | -9.91821e-005 | 262.845 |  Moments de réaction  | Ensemble de sélections | Unités | Somme X | Somme Y | Somme Z | Résultante | | --- | --- | --- | --- | --- | --- | | Modèle entier | N.m | 0 | 0 | 0 | 0 | |
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| Poutres Aucune donnée |

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| Résultats de l'étude  | Nom | Type | Min | Max | | --- | --- | --- | --- | | Contraintes1 | VON: contrainte de von Mises | 0 N/m^2  Noeud: 125928 | 2.17375e+008 N/m^2  Noeud: 47314 | | **Assemblage complet-Etude 1-Contraintes-Contraintes1** | | | |  | Nom | Type | Min | Max | | --- | --- | --- | --- | | Déplacements1 | URES: Déplacement résultant | 0 mm  Noeud: 125928 | 457.327 mm  Noeud: 9069 | | **Assemblage complet-Etude 1-Déplacements-Déplacements1** | | | |  | Nom | Type | Min | Max | | --- | --- | --- | --- | | Déformations1 | ESTRN: Déformation équivalente | 0  Elément: 65006 | 0.0573705  Elément: 49695 | | **Assemblage complet-Etude 1-Déformations-Déformations1** | | | |  | Nom | Type | Min | Max | | --- | --- | --- | --- | | Contraintes2 | VON: contrainte de von Mises | 0 N/mm^2 (MPa)  Noeud: 125928 | 217.375 N/mm^2 (MPa)  Noeud: 47314 | | **Assemblage complet-Etude 1-Contraintes-Contraintes2** | | | |  | Nom | Type | Min | Max | | --- | --- | --- | --- | | Coefficient de sécurité1 | Automatique | 1.63312  Noeud: 47314 | 1000  Noeud: 754 | | **Assemblage complet-Etude 1-Coefficient de sécurité-Coefficient de sécurité1** | | | |  | Nom | Type | | --- | --- | | Contrôle des axes/boulons1 | Résultats en statique des boulons/axes | | **Assemblage complet-Etude 1-Contrôle des axes/boulons-Contrôle des axes/boulons1** | | |

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| Conclusion |