Liste des pièces à commander

|  |  |  |
| --- | --- | --- |
| Nom  | Site  | Commentaire |
| Moteur à courant continu sans balais x1 | <https://www.globe-flight.de/T-Motor-GF-Antigravity-Set-4004-300KV-2-pcs> | 2 moteurs par set |
| Encodeur optique X1 | <https://www.mouser.com/ProductDetail/Broadcom-Avago/AEDT-9810-Z00?qs=%2Fha2pyFadugH%252BV24sBozOzDoYJ6rlay1%2FjE%2FZBaGp8NtaorhU1uDSg%3D%3D> |  |
| Codewheel pour l’encodeur x1 | <https://www.pwb-encoders.com/en/encoder-wheels> |  |
| Courroie crantée 1er étage x1 | <https://www.reiff-tpshop.de/shop/de/antriebstechnik/zahnriemen-gen-iii-at3/zahnriemen-gen-iii-at3-laenge-150-bis-1011-mm.html?filterStatus=60005271#DetailVarianten>  | Reiff: La ceinture de 4 mm de largeur n'est pas répertoriée sur la page Web de Reiff.Demandez un devis: e-services@reiff-gruppe.de |
| Courroie crantée 2ème étage x1 | <https://www.reiff-tpshop.de/shop/de/antriebstechnik/zahnriemen-gen-iii-at3/zahnriemen-gen-iii-at3-laenge-150-bis-1011-mm.html?filterStatus=60005271#DetailVarianten> | Reiff: Demandez un devis: e-services@reiff-gruppe.de |
| Roulement de sortie : 32 mm x 25 mm x 4 mm - 6,9 g x2 | [Emiliana Cuscinetti](https://www.emilianacuscinetti.com/en/miniature-bearings/)[Doppiaemme](https://www.doppiaemme.it/en/prodotti/)[EZO USA](https://catalog.ezo-usa.com/category/metric-series-bearings)[SBN](https://www.sbn.de/en/)[Online Bearing Store](https://www.onlinebearingstore.com/683-zz-miniature-ball-bearing-id-3-x-od-7x-w-3mm-shielded.html) |  |
| Roulement de transmission : 8 mm x 4 mm x 2 mm - 0,4 gX3 | [Emiliana Cuscinetti](https://www.emilianacuscinetti.com/en/miniature-bearings/)[Doppiaemme](https://www.doppiaemme.it/en/prodotti/)[EZO USA](https://catalog.ezo-usa.com/category/metric-series-bearings)[SBN](https://www.sbn.de/en/)[Online Bearing Store](https://www.onlinebearingstore.com/683-zz-miniature-ball-bearing-id-3-x-od-7x-w-3mm-shielded.html) |  |
| Roulement du tendeur de courroie : 7mm x 3mm x 3mm - 0,4gX2 | [Emiliana Cuscinetti](https://www.emilianacuscinetti.com/en/miniature-bearings/)[Doppiaemme](https://www.doppiaemme.it/en/prodotti/)[EZO USA](https://catalog.ezo-usa.com/category/metric-series-bearings)[SBN](https://www.sbn.de/en/)[Online Bearing Store](https://www.onlinebearingstore.com/683-zz-miniature-ball-bearing-id-3-x-od-7x-w-3mm-shielded.html) |  |
| vis à tête plate M3 x 5x4 | [Schrauben en ligne](https://online-schrauben.de/shop/Schrauben/Innensechskantschrauben/ISO-10642-DIN-7991-Senkschrauben-mit-Innensechskant-aehnl.-DIN-7991/Edelstahl-Rostfrei-A2/M-3-Gewinde-M-metrisches-Gewinde) |  |
| Attaches Tendeur de courroie de distribution : Vis à tête plate M3 x 10X2 | [Schrauben en ligne](https://online-schrauben.de/shop/Schrauben/Innensechskantschrauben/ISO-10642-DIN-7991-Senkschrauben-mit-Innensechskant-aehnl.-DIN-7991/Edelstahl-Rostfrei-A2/M-3-Gewinde-M-metrisches-Gewinde) |  |
| Rondelles Tendeur de courroie de distribution : Rondelle M2,5X2 | [Schrauben en ligne](https://online-schrauben.de/shop/Scheiben-Federringe/ISO-7092-Unterlegscheiben-fuer-Zylinderkopfschrauben-aehnl.-DIN-433/Edelstahl-Rostfrei-A2-200-HV) |  |
| Arbre de sortie à insert hélicoïdal : Helicoil M3 x 6X2 | [Emiliana Cuscinetti](https://www.emilianacuscinetti.com/en/miniature-bearings/)[Doppiaemme](https://www.doppiaemme.it/en/prodotti/)[EZO USA](https://catalog.ezo-usa.com/category/metric-series-bearings)[SBN](https://www.sbn.de/en/)[Magasin de roulements en ligne](https://www.onlinebearingstore.com/6705-2rs-6705-zz-ball-bearings.html) |  |
| Vis à tête plate M3 x 16 PhilippsX2 | [Conrad # 839967](https://www.conrad.com/p/toolcraft-839967-countersunk-screws-m3-16-mm-phillips-din-965-plastic-polyamide-10-pcs-839967) |  |
| Motor Phase Connectors 2mm goldReely RE-1373188X3 | [Conrad # 1373188](https://www.conrad.com/p/reely-1373188-battery-plug-2-mm-gold-plated-2-pair-1373188)[HobbyKing](https://hobbyking.com/en_us/2mm-gold-connectors-10-pairs-20pc.html?___store=en_us) | 2 paires par set |
| Fils de phase moteurLiY 0,50 mm² noirX3 | [Kabeltronik # 1601050](https://www.kabeltronik.de/en/electronics-industry/hook-up-wires-stranded/art/hook-up-wire-stranded-extremely-flexible-lify-3/31)[Conrad # 609337](https://www.conrad.com/p/conrad-components-609337-strand-liy-1-x-050-mm-black-25-m-609337)[McMaster # 8054T14](https://www.mcmaster.com/8054t14-8054T184/) |  |
| Connecteur codeurHirose DF13 Socket 5 PinX1 | [RS # 143-015](https://americas.rsdelivers.com/product/hirose/df13-5s-125c/hirose-df13-male-connector-housing-125mm-pitch-5/0143015)[DigiKey # H2182-ND](https://www.digikey.com/products/en?keywords=H2182-ND) | L'outil de sertissage Hirose DF13 est nécessaire pour sertir les fils. |
| Bornes à sertir du connecteur du codeurX5 | [RS 503-8325](https://americas.rsdelivers.com/product/hirose/df13-2630scf/hirose-df13-female-crimp-terminal-contact-26awg/5038325)[Digi-Key H9992CT-ND](https://www.digikey.com/products/en?keywords=H9992CT-ND) | L'outil de sertissage Hirose DF13 est nécessaire pour sertir les fils. |
| Durée de vie des fils d' encodeur 0,14 mm²X5 | [Kabeltronik # 1601014](https://www.kabeltronik.de/en/kabeltronik/search/art/hook-up-wire-stranded-extremely-flexible-lify-1/) |  |
| Tube en silicone | <https://planetcaoutchouc.com/tuyaux-silicone/tuyaux-silicone-transparent.html?msclkid=ded80ea2d5da14c471cf5121ec3a1270&utm_source=bing&utm_medium=cpc&utm_campaign=Search%20-%20Tuyaux%20Silicone%20-%20FR&utm_term=silicone%20tube&utm_content=Tube%20Silicone%20-%20Group>  |  |
| Broche en acier | [https://www.manomano.fr/recherche/fils+acier?referer\_id=688117&msclkid=9f7429ffe6311e421f83767cdd24132a&utm\_source=bing&utm\_medium=cpc&utm\_campaign=FR%20-%20%5BSEM%20Bing%5D%20Search%20-%20Old%20-%201&utm\_term=fils%20acier&utm\_content=fils%20acier](https://www.manomano.fr/recherche/fils%2Bacier?referer_id=688117&msclkid=9f7429ffe6311e421f83767cdd24132a&utm_source=bing&utm_medium=cpc&utm_campaign=FR%20-%20%5BSEM%20Bing%5D%20Search%20-%20Old%20-%201&utm_term=fils%20acier&utm_content=fils%20acier)  |  |
| Pneu de vélo | [https://www.internet-bikes.com/fr/258124-schwalbe-tube-exterieur-reflexion-road-cruiser24x175-47-507/?utm\_source=bing&utm\_medium=cpc&utm\_campaign=FR%20-%20Search%20-%20Fietsen%20-%20Schwalbe&utm\_term=%2BSchwalbe%20%2BPneu&utm\_content=Schwalbe%20Pneu#](https://www.internet-bikes.com/fr/258124-schwalbe-tube-exterieur-reflexion-road-cruiser24x175-47-507/?utm_source=bing&utm_medium=cpc&utm_campaign=FR%20-%20Search%20-%20Fietsen%20-%20Schwalbe&utm_term=%2BSchwalbe%20%2BPneu&utm_content=Schwalbe%20Pneu)  |  |
| Microcontrôleur TI launchpad | <https://www.ti.com/tool/LAUNCHXL-F28069M> |  |
| TI Boosterpacks DRV8305X2 | <https://www.ti.com/tool/BOOSTXL-DRV8305EVM> |  |
| BLMCµDriver | [DigiKey](https://www.digikey.com/products/en?keywords=609-3711-ND) |  |
| Emulateur JTAG | USA: [Mouser](https://www.mouser.com/ProductDetail/Spectrum-Digital/702302?qs=%2Fha2pyFadugCs%252BN3rqeKGQ5rHGsjcLGLHwUgh92e22D%252BaV4SDvb2Vg%3D%3D)Allemagne: [Farnell](https://de.farnell.com/spectrum-digital/xds100v2-jtag/emulator-usb-jtag-xds100v2/dp/1831927?ost=1831927&ddkey=https%3Ade-DE%2FElement14_Germany%2Fsearch) |  |
| Fil de connecteur MicroDriver | Allemagne: [DigiKey](https://www.digikey.com/products/en?keywords=609-3711-ND) |  |

Liste de pièces à imprimer

|  |  |  |
| --- | --- | --- |
| Nom et quantité | Fichier PDF | Commentaire |
| Partie inférieure de la coque x1 | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/quadruped_robot_8dof_v1/stl_files/quadruped_body_bottom_part.STL> |  |
| Partie supérieure de la coque x1 | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/quadruped_robot_8dof_v1/stl_files/quadruped_body_top_part.STL> |  |
| Encodeur Codewheel PWB Mount  | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/encoder_codewheel_pwb_mount.STL> |  |
| Transmission Pulley AT3 T30 Center |  <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_pulley_at3_t30_center.STL> |  |
| Transmission Pulley AT3 T30 Output | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_pulley_at3_t30_output.STL>  |  |
| 10.0mm Transmission Belt Tensioner Roller  | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_belt_tensioner_roller_10.0mm.STL>  |  |
| 10.5mm Transmission Belt Tensioner Roller  | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_belt_tensioner_roller_10.5mm.STL>  |  |
| 11.0mm Transmission Belt Tensioner Roller  | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_belt_tensioner_roller_11.0mm.STL> |  |
| 11.5mm Transmission Belt Tensioner Roller  | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/stl_files/transmission_belt_tensioner_roller_11.5mm.STL>  |  |
| Base se structure de jambe inférieur | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/stl_files/lower_leg_structure_base.STL>  |  |
| Fourche à structure de jambe inférieure | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/stl_files/lower_leg_structure_fork.STL>  |  |
| Structure du pied | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/stl_files/foot_structure.STL>  |  |

Pièces usinées

|  |  |  |
| --- | --- | --- |
| Nom  | site | commentaire |
| Poulie moteur | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/drawings/motor_pulley_at3_t10.PDF> |  |
| Poulie centrale | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/drawings/center_pulley_at3_t10.PDF> |  |
| Arbre moteur | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/actuator_module_v1/drawings/motor_shaft.PDF> |  |

Conception de la carte électronique du contact au pied

|  |  |
| --- | --- |
| Commutateur de contact pied | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/documentation/bom_foot_contact_switch_v1.pdf>  |
| Nomenclature | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/documentation/bom_foot_contact_switch_v1.xlsx>  |
| Fichier eagle | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/documentation/eagle_files.zip>  |
| Fichier Gerber | <https://github.com/open-dynamic-robot-initiative/open_robot_actuator_hardware/blob/master/mechanics/foot_contact_switch_v1/documentation/gerber_files.zip>  |