

## Bibliography

1. Gardinier ES, Kelly BM, Wensmen J, Gates DH. A controlled clinical trial of a clinically-tuned powered ankle prosthesis in people with transtibial amputation. *Clin Rehabil* 2018 Mar;32(3):319-329. doi: 10.1177/0269215517723054. Epub 2017 Jul 27. [Abstract](#)
2. Pickle NT, Grabowski AM, Jeffers JR, Silverman AK. The functional roles of muscles, passive prostheses, and powered prostheses during sloped walking in people with transtibial amputation. *J Biomech Eng*. 2017 Nov 1;139(11). doi: 10.1115/1.4037938. [Abstract](#)
3. Rabago CA, Aldridge Whitehead J, Wilken JM. Evaluation of a powered ankle-foot prosthesis during slope ascent gait. *PLoS One*. 2016;11(12):e0166815. doi: 10.1371/journal.pone.0166815. eCollection 2016. [Article](#)
4. Pickle NT, Wilken JM, Aldridge Whitehead JM, Silverman AK. Whole-body angular momentum during sloped walking using passive and powered lower-limb prostheses. *J Biomech* 2016 Oct 3;49(14):3397-3406. doi: 10.1016/j.jbiomech.2016.09.010. Epub 2016 Sep 14. [Article](#)
5. Russell Esposito E, Aldridge JM, Wilken JM. Step-to-step transition work during level and inclined walking using passive and powered ankle-foot prostheses. *Prosthet Orthot Int* 2016 Jun;40(3):311-9. doi: 10.1177/0309364614564021. Epub 2015 Jan 27. [Abstract](#)
6. Takahashi KZ, Horne JR, Stanhope SJ. Comparison of mechanical energy profiles of passive and active below-knee prostheses: A case study. *Prosthet Orthot Int*. 2015 Apr;39(2):150-6. doi: 10.1177/0309364613513298. Epub 2014 Jan 13. [Abstract](#)
7. D'Andrea S, Wilhelm N, Silverman AK, Grabowski AM. Does use of a powered ankle-foot prosthesis restore whole-body angular momentum during walking at different speeds? *Clin Orthoped Rel Res* 2014;472:3044-3054. DOI 10.1007/s.11999-014-3647-1. [Article](#)
8. Russell Esposito E, Wilken JM. Biomechanical risk factors for knee osteoarthritis when using passive and powered ankle-foot prostheses. *Clin Biomech (Bristol, Avon)* 2014 Dec;29(10):1186-92. doi: 10.1016/j.clinbiomech.2014.09.005. Epub 2014 Sep 18. [Abstract](#)
9. Grabowski AM, D'Andrea S. Effects of a powered ankle-foot prosthesis on kinetic loading of the unaffected leg during level-ground walking. *J NeuroEng Rehabil* 2013 Jun 7;10:49. doi: 10.1186/1743-0003-10-49. [Article](#)
10. Gates DH, Aldridge JM, Wilken JM. Kinematic comparison of walking on uneven ground using powered and unpowered prostheses. *Clin Biomech (Bristol, Avon)* 2013 Apr;28(4):467-72. doi: 10.1016/j.clinbiomech.2013.03.005. Epub 2013 Apr 18. [Abstract](#)
11. Hill D, Herr H. Effects of a powered ankle-foot prosthesis on kinetic loading of the contralateral limb: A case series. *IEEE Int Conf Rehabil Robot*. 2013 Jun;2013:6650375. doi: 10.1109/ICORR.2013.6650375. [Abstract](#)
12. Herr HM, Grabowski AM. Bionic ankle-foot prosthesis normalizes walking gait in for persons with leg amputations. *Proc R Soc B* 2012 Feb 7;279(1728):457-64. doi: 10.1098/rspb.2011.1194. Epub 2011 Jul 13. [Article](#)

### Bibliography

13. Ferris AE, Aldridge JM, Rabago C, Wilken JM. Evaluation of a powered ankle-foot system during walking. Arch Phys Med Rehabil 2012 Nov;93(11):1911-8. doi: 10.1016/j.apmr.2012.06.009. Epub 2012 Jun 22. [Abstract](#)
14. Aldridge JM, Sturdy JT, Wilken JM. Stair ascent kinematics and kinetics with a powered lower leg system following transtibial amputation. Gait Posture 2012;36(2):291-295. DOI 10.1016/j.gaitpost.2012.03.013. Epub 2012 May 7. [Abstract](#)
15. Mancinelli C, Patrilli BL, Tropea P, Greenwald RM, Casler R, Herr H, Bonato P. Comparing a passive-elastic and a powered prosthesis in transtibial amputees. Conf Proc IEEE Eng Med Biol Soc. 2011;2011:8255-8. doi: 10.1109/IEMBS.2011.6092035. [Abstract](#)
16. Au SK, Weber J, Herr H. Powered ankle-foot prosthesis improves walking metabolic economy. IEEE Transactions Robotics 2009;25(1):51-66. [Article](#)

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