Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 12, 2025

Bodybuilder

RRID:SCR_015002
Type: Tool

Proper Citation

Bodybuilder (RRID:SCR_015002)

Resource Information

URL: https://www.vicon.com/downloads/software/bodybuilder

Proper Citation: Bodybuilder (RRID:SCR_015002)

Description: Software package for modeling body biomechanics for use with the Vicon motion capture system. Bodybuilder allows users to, among other things, edit and modify trajectories and interpolate broken trajectories, model body segments and joints, create kinematic and kinetic models, and output results to text or file.

Synonyms: Bodybuilder 3.6.4, Bodybuilder Software, Bodybuilder 3.6.3

Resource Type: software application, simulation software, software resource

Keywords: human movement, body biomechanics, modeling body

Funding:

Availability: Available for download, Free with Nexus 2 license

Resource Name: Bodybuilder

Resource ID: SCR_015002

Alternate URLs: https://www.vicon.com/downloads/documentation/vicon-documentation/bodybuilder-user-guide

License: Nexus 2 license, BodyBuilder HASP4 license

Record Creation Time: 20220129T080323+0000

Record Last Update: 20250508T065558+0000

Ratings and Alerts

No rating or validation information has been found for Bodybuilder.

No alerts have been found for Bodybuilder.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Nam C, et al. (2022) An Exoneuromusculoskeleton for Self-Help Upper Limb Rehabilitation After Stroke. Soft robotics, 9(1), 14.

Ernst M, et al. (2022) Benefits of a microprocessor-controlled prosthetic foot for ascending and descending slopes. Journal of neuroengineering and rehabilitation, 19(1), 9.

Yang CL, et al. (2021) Effects of transcranial direct current stimulation (tDCS) on posture, movement planning, and execution during standing voluntary reach following stroke. Journal of neuroengineering and rehabilitation, 18(1), 5.

Tateuchi H, et al. (2021) Strategies for increasing gait speed in patients with hip osteoarthritis: their clinical significance and effects on hip loading. Arthritis research & therapy, 23(1), 129.

Huang YL, et al. (2020) Explosive Quadriceps Strength and Landing Mechanics in Females with and without Anterior Cruciate Ligament Reconstruction. International journal of environmental research and public health, 17(20).

Zawadka M, et al. (2020) Sex-dependent differences in single-leg squat kinematics and their relationship to squat depth in physically active individuals. Scientific reports, 10(1), 19601.

Tateuchi H, et al. (2020) Gait kinematics of the hip, pelvis, and trunk associated with external hip adduction moment in patients with secondary hip osteoarthritis: toward determination of the key point in gait modification. BMC musculoskeletal disorders, 21(1), 8.

Son J, et al. (2020) The Effect of Athletes' Probiotic Intake May Depend on Protein and Dietary Fiber Intake. Nutrients, 12(10).

Perisinakis K, et al. (2019) Comparison of patient dose from routine multi-phase and dynamic liver perfusion CT studies taking into account the effect of iodinated contrast administration. European journal of radiology, 110, 39.

Skiba A, et al. (2019) Evaluation of the Effectiveness of Nordic Walking Training in Improving the Gait of Persons with Down Syndrome. BioMed research international, 2019, 6353292.

Carter SL, et al. (2019) An analysis of the foot in turnout using a dance specific 3D multi-segment foot model. Journal of foot and ankle research, 12, 10.

Trafimow J, et al. (2018) The Use of Negative Acceleration as Accessory Force during Lifting. Advances in orthopedics, 2018, 9164590.

Yeung LF, et al. (2018) Randomized controlled trial of robot-assisted gait training with dorsiflexion assistance on chronic stroke patients wearing ankle-foot-orthosis. Journal of neuroengineering and rehabilitation, 15(1), 51.

Solomito MJ, et al. (2018) Sagittal Plane Trunk Tilt Is Associated With Upper Extremity Joint Moments and Ball Velocity in Collegiate Baseball Pitchers. Orthopaedic journal of sports medicine, 6(10), 2325967118800240.

Iwamoto Y, et al. (2017) Differences of muscle co-contraction of the ankle joint between young and elderly adults during dynamic postural control at different speeds. Journal of physiological anthropology, 36(1), 32.

Ernst M, et al. (2017) Standing on slopes - how current microprocessor-controlled prosthetic feet support transtibial and transfemoral amputees in an everyday task. Journal of neuroengineering and rehabilitation, 14(1), 117.

McDonald KA, et al. (2016) The Role of Arch Compression and Metatarsophalangeal Joint Dynamics in Modulating Plantar Fascia Strain in Running. PloS one, 11(4), e0152602.

Sawada T, et al. (2016) Biomechanical effects of lateral and medial wedge insoles on unilateral weight bearing. Journal of physical therapy science, 28(1), 280.

Hutchinson JR, et al. (2015) Musculoskeletal modelling of an ostrich (Struthio camelus) pelvic limb: influence of limb orientation on muscular capacity during locomotion. PeerJ, 3, e1001.

Weeks BK, et al. (2015) Effect of sex and fatigue on single leg squat kinematics in healthy young adults. BMC musculoskeletal disorders, 16, 271.