Please share with your sales team and your customers:

Attached file:

Validation of single belt algorithm in double stance phase: 20180710_hpcosmos_gaitway_3d_wcb_contribution_meurisse_vertical_grf_determination_0.pdf

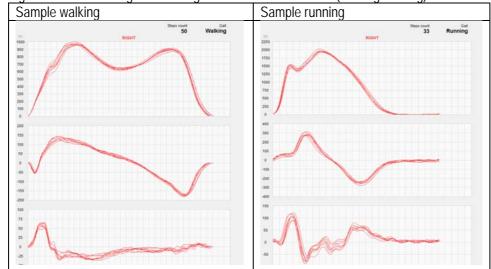
20190730_Bastien_Gait&Posture_2019_Decomposition_of_shear_forces_in_double_contact_of_walking_proof.pdf

gaitway 3D unique selling proposition USPs:

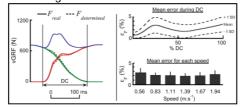
a) single belt technology (without any gap) allows overcrossing, barefoot walking/running without "psychological" or physical interference (injury during barefoot) of a gap



b) Designed for both walking and running with automatic detection (walking/running)

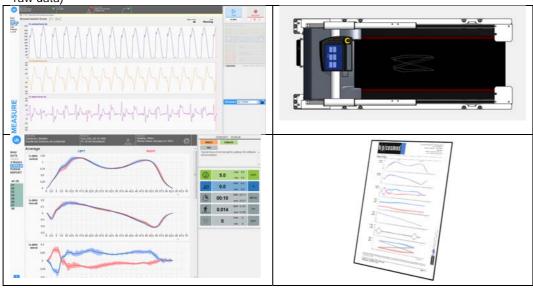


c) high quality force decomposition validated from Biomechanics Lab University of Louvain (G.M. Meurisse and G.J. Bastien, Belgium) for single belt ground reaction forces during double stance phase in walking. Decomposition based on an accurate algorithm and robust machine learning.



In running (without double stance phase), the decomposition does not apply and is not relevant, thanks to the big single belt running deck and the nature of running.

d) Complete integrated user software (control, acquisition, biofeedback, analysis, report, self-speed control, raw data)



e) the only treadmill on the market combining 3 component force measurement AND pressure distribution in one system

thus allowing also evaluation of further relevant parameters, e.g. foot internal/external rotation, roll-off analysis, pressure matrix, standing foot type / shape analysis (flat / high arch ...)

Also: optional high-speed video, IMU and EMG can be synchronized for complete subject evaluation





Interfaces for signal integration into external systems in a biomechanical lab (e.g. 2D or 3D motion capturing, EMG, MatLab):

Digital (Ethernet) with optional data streaming software module Analog signal interface for the easiest way of data transmission

Connectivity plans available for most common systems /brands (e.g. NORAXON, Qualisys, Vicon, SIMI,

KISTLER compatible force plate software, and many more.)



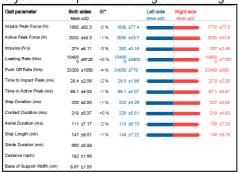


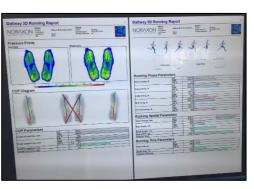
Synchronization to less than 1 millisecond

Real time Bio feedback on L/R gait cycle and parameters



Gait analysis PDF report for walking and running





Raw data export (ASCII tabulated text format) for external data processing

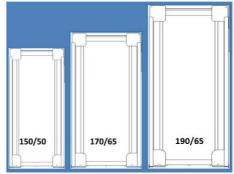




j) Designed for biomechanics, material testing (shoe, prosthesis, insole), training and for rehabilitation



k) available in different running deck sizes, like 150/50 or 170/65 or 190/65 cm



available with inclination uphill/downhill (through reverse belt rotation) and in high speed option up to 45 km/h



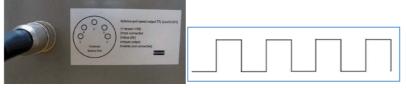
m) solid mechanical fixation at elevation for high accurate data measurement during uphill/downhill high natural frequencies and low noise ratio



n) UserTerminal with software and MCU6 GUI 10" TouchScreen and Windows 10 OS



- o) coscom v4 worldwide widely accepted and ISO 14971 as well as EN 62304 compliant interface protocol for data exchange and treadmill/ergometer control. documentation published at www.coscom.org
- p) science port for speed raw data without averaging of speed signals



q) Ready for safety arch or ceiling mount harness (fall prevention system) for non-interference to 3D Motion Capture Systems



r) many options and accessories available, such as removable handrails, black matt and non-reflecting powder coating, visual stimulation via projector for visual cueing for neurological patients, VR software, wheelchair ramps, airwalk ap unweighting system, arm support, etc.,









- s) designed and built according to IEC 60601-1 standard including potential isolation transformer and potential equalization pin / bus bar
- t) EMC certificate for electromagnetic compatibility
- u) CE mark as scientific device and in preparing for medical device certification



- v) Probably the most modern, sophisticated and cost effective solution worldwide
- w) Building research treadmills since 1989

gaitway 3d white paper with summary of features, comparison of various measurement technologies and studies: EN: 20171206_cos102999_150-50_hpcosmos_gaitway_3d_instrumented_single_belt_force_plate_treadmill.pdf https://www.hpcosmos.com/sites/default/files/uploads/documents/20171206_cos102999_150-50_hpcosmos_gaitway_3d_instrumented_single_belt_force_plate_treadmill.pdf

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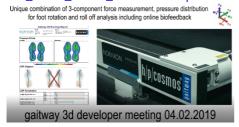
Some more information about gaitway please find on our website:

https://www.hpcosmos.com/en/products/software-measuring-technology/biomechanics-gaitway-3d

high and low resolution videos:

https://www.hpcosmos.com/sites/default/files/uploads/videos/20190228_hpcosmos_cos102999_gaitway_3d_nora xon_zebris_arsalis_1280x720.mp4 HD:

https://www.hpcosmos.com/sites/default/files/uploads/videos/20190228_hpcosmos_cos102999_gaitway_3d_noraxon_zebris_arsalis_1920x1080.mp4



another very nice video:

https://www.hpcosmos.com/sites/default/files/uploads/videos/20190729_hpcosmos_cos102999_170-65_gaitway3d_720.mp4

HD

https://www.hpcosmos.com/sites/default/files/uploads/videos/20190729_hpcosmos_cos102999_170-65_gaitway3d.mp4





Go for the best!

With cosmic regards

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highly accurate 3 component gaitway®3d force and pressure measurement

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