

2D Running protocol left



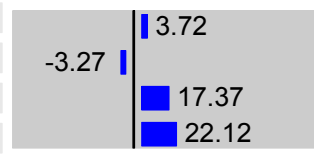
Name	john fiore	Running speed [km/h]	13.37
Test date	6/22/2016	Stride length [m]	1.46
Treadmill speed [km/h]	8.00	Cadence [/min]	152.18

Range of motion

Trunk lean [°]	9.05
Hip flex./-ext.[°]	33.60
Knee flex./-ext. ...	155.98
Ankle [°]	102.55

Initial contact

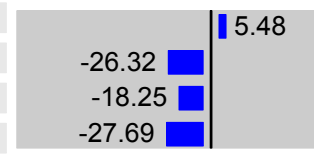
Trunk lean [°]	1.38
Hip flex./-ext. [°]	16.74
Knee flex./-ext. ...	21.47
Ankle [°]	-9.91



Angle change during Energy Absorption (Eccentric)

Peak knee flex.

Trunk lean [°]	5.10
Hip flex./-ext. [°]	13.47
Knee flex./-ext. ...	38.84
Ankle [°]	12.21



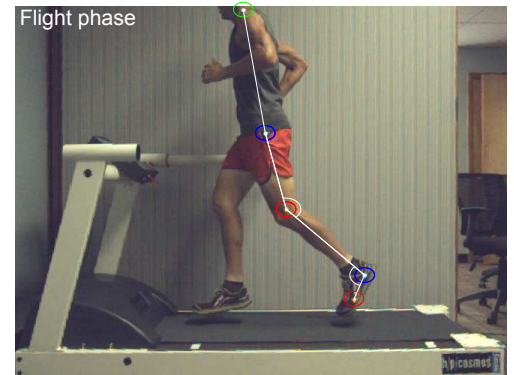
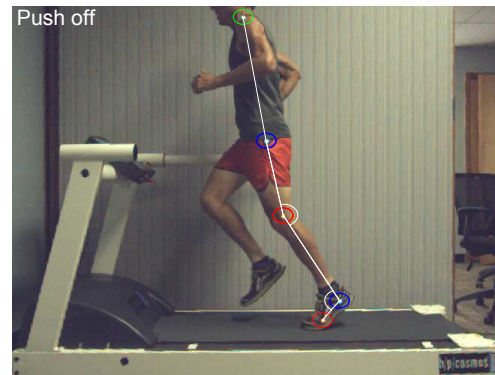
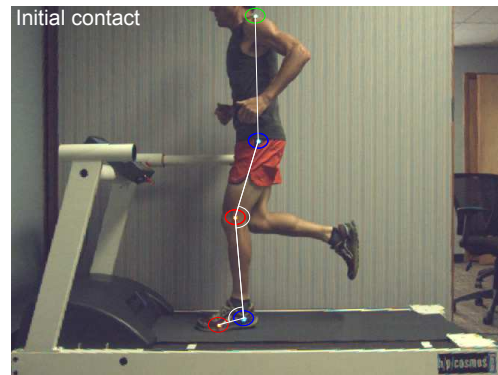
Angle change during Energy Generation (Concentric)

Push off

Trunk lean [°]	10.57
Hip flex./-ext. [°]	-12.85
Knee flex./-ext. ...	20.58
Ankle [°]	-15.48

Flight phase

Trunk lean [°]	10.16
Hip flex./-ext. [°]	-15.27
Knee flex./-ext. ...	34.71
Ankle [°]	-15.83



Braking impulse parameters

Heel to hip[cm]	6.53
Tibia to vertical[°]	-4.73
Foot to horizont...	-14.64

Load distribution parameters

Knee over toe...	9.94
Trunk lean[°]	5.10

Energy generation parameters

Angular velocity

Hip flex./-ext. [...]	276.03
Knee flex./-ext.[...]	3230.45
Ankle [°/s]	2358.79

Time of maximum

Hip flex./-ext. [s]	16.02
Knee flex./-ext. [s]	16.11
Ankle [s]	16.11

Impact force parameter

Vert. displacement hip [cm]	3.54
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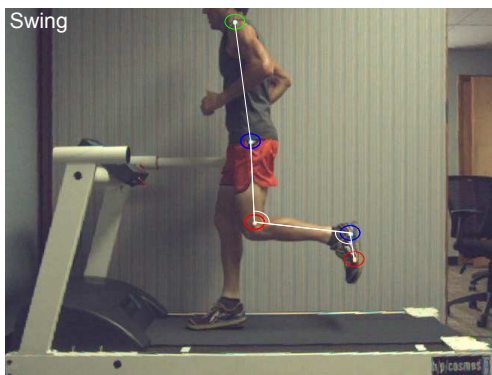
Legend

Trunk lean: +/- anterior/posterior
 Hip: +/- flexion/extension
 Knee: +/- flexion/extension
 Ankle: +/- dorsiflex./plantarflex.

2D Running protocol left



	Swing
Trunk lean [°]	7.53
Hip flex./-ext. [°]	-2.76
Knee flex./-ext. ...	80.88
Ankle [°]	-15.15



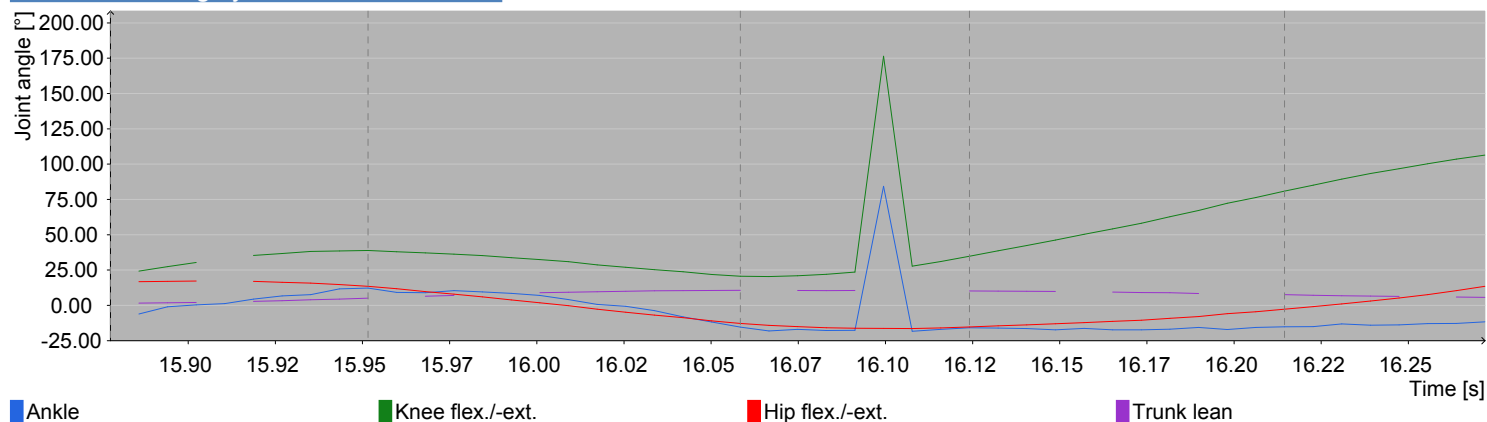
Swing parameters

Peak values

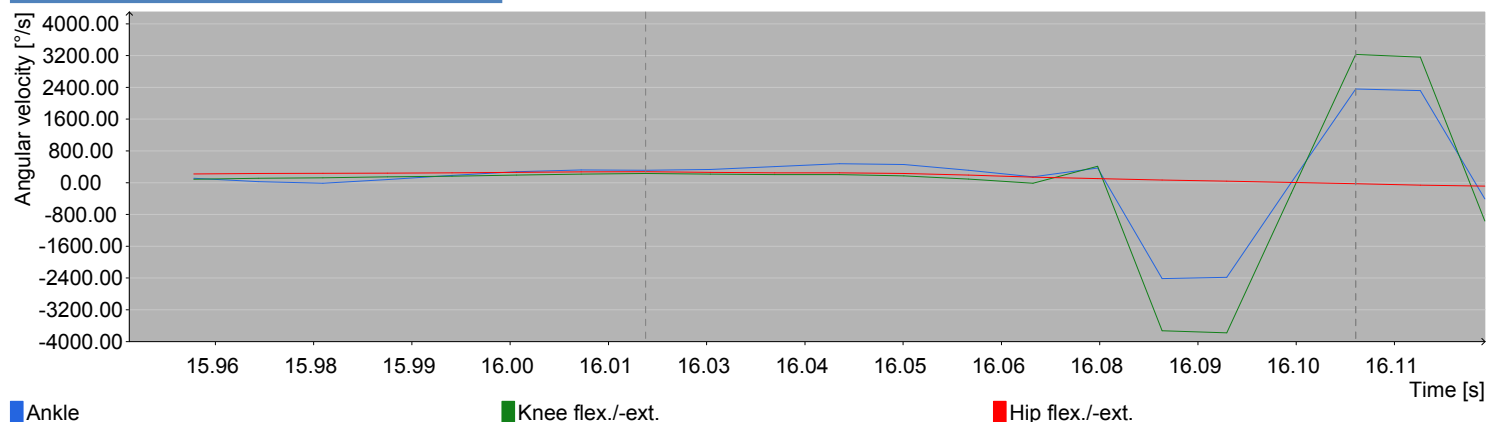
Hip angle acc.	4.64*
Knee angle dec.	61.76*
* x 1000 in °/s ²	
Max. hip angle[°]	13.48

Legend
 Trunk lean: +/- anterior/posterior
 Hip: +/- flexion/extension
 Knee: +/- flexion/extension
 Ankle: +/- dorsiflex./plantarflex.

Phase: Running cycle



Phase: Peak knee flexion - Push off



Phase: Flight - Initial contact

