Comment — Edwin01-EN.ult

This is an example of an Ultraflex printout for a healthy subject.

In the ForceGraphics (at the bottom) you see the forces under the left and right foot as a function of time. This information could also be obtained with forceplates, but not so easily for so many steps!

In the ForceGraphics you see, apart from the summed forces left and right, the forces for the lateral sensors that were added as an example.
The color of the graphs corresponds to the sensor number that is printed at the top.

In the Gaitline you see how the Center of Pressure (CoP) moves over the foot during walking.
Here you can see clearly: "One step is no step"; you see the natural variations from step to step, that you can hardly capture with forceplates.

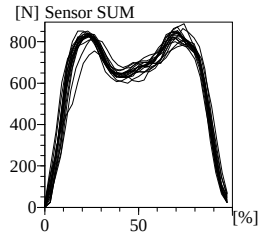
The Cyclogram shows the CoP for both feet combined. It is very useful for judging gait symmetry.

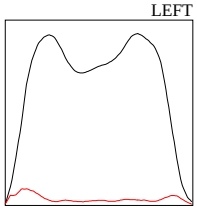
The Histogram (Max) shows the peak forces of every area under the foot, averaged over all steps.

Steptimes gives the temporal parameters for the various phases of the gait (Stance phase, swing phase, single / double support, etc)

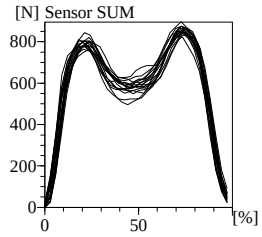
CDG Forcegraphics (mean) shows values for force and time averaged over all steps, so you can judge the variation and stability.

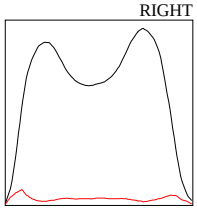
CDG Forcegraphics (Mean) — Edwin01-EN.ult





Ampl [N]	Mean	Stdev
Heel On	829	21
Midstance	635	19
Toe off	837	25
Time[ms]		
Heel On	160	15
Midstance	279	20
Toe off	486	19





Ampl [N]	Mean	Stdev
Heel On	795	20
Midstance	572	30
Toe off	856	18
Time[ms]		
Heel On	145	13
Midstance	295	32
Toe off	493	12

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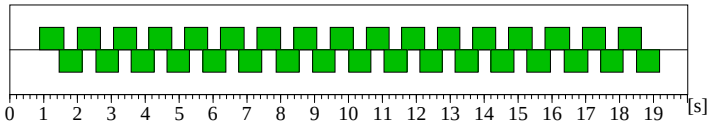
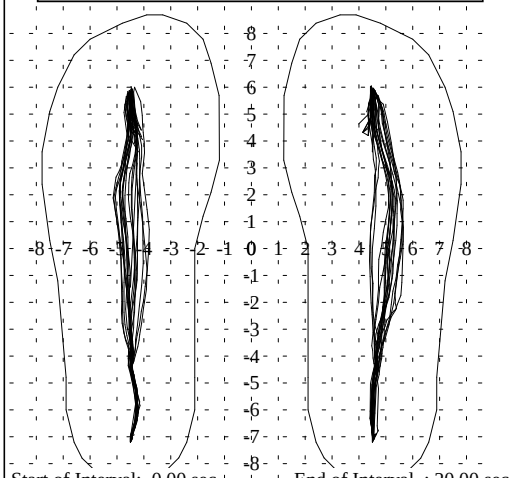
Name		Norm	Value		Name		Value
Velocity	[km/hr]	3.00-3.60	3.6		Threshold	[N]	20
Cycle	[s]	1.00-1.30	1.07		Distance	[m]	20.0
Freq.	[1/min]	100- 126	112		Begin	[s]	0.00
Symm.	L/R	0.90-1.10	1.03		End	[s]	20.00
Stride length	[m]		0.53				

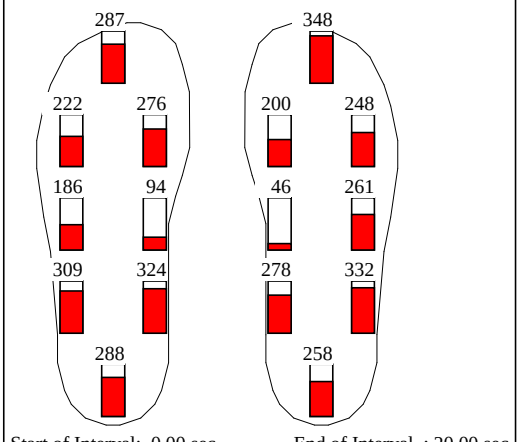
Name		Norm	Left	Right	Symm	SD_L	SD_R
Single supp.	[s]	0.40-0.60	**0.391**	**0.381**	1.025	0.012	0.011
Double supp.	[s]	0.10-0.20	0.152	0.145	1.049	0.012	0.011
Single swing	[s]	0.40-0.60	**0.381**	**0.391**	0.976	0.011	0.012
Double swing	[s]	0.00-0.50					
Stance	[s]	0.60-0.80	0.687	0.675	1.017	0.015	0.013
Steptime	[s]	0.50-0.70	0.542	0.526	1.031	0.015	0.009



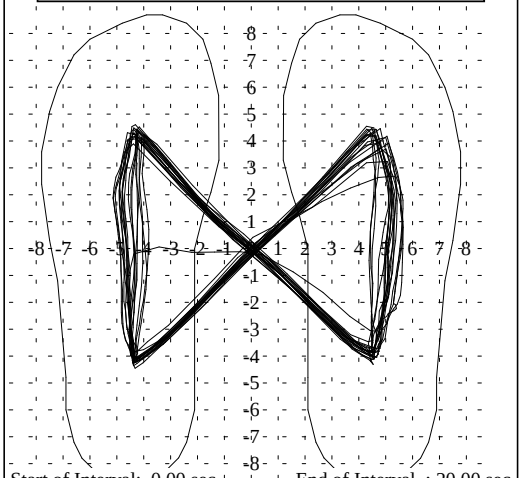
CDG Gaitline



CDG Histogram (Max)



CDG Cyclogram



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