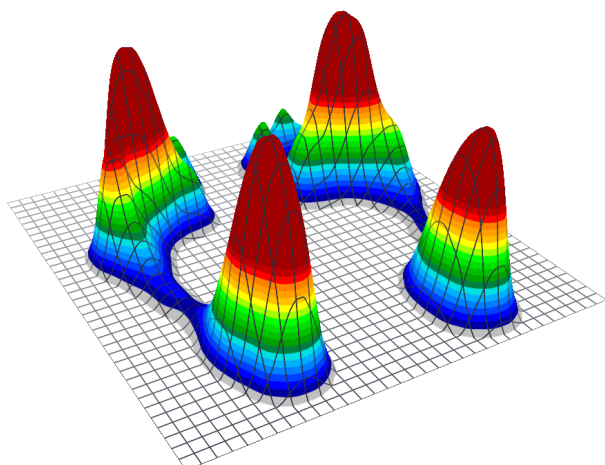


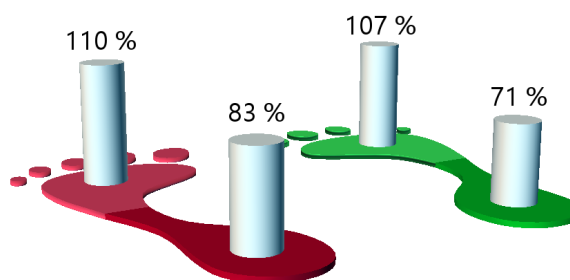
Pressure plot 3d

Stance, average



Force forefoot/backfoot

Max load (% of body weight)

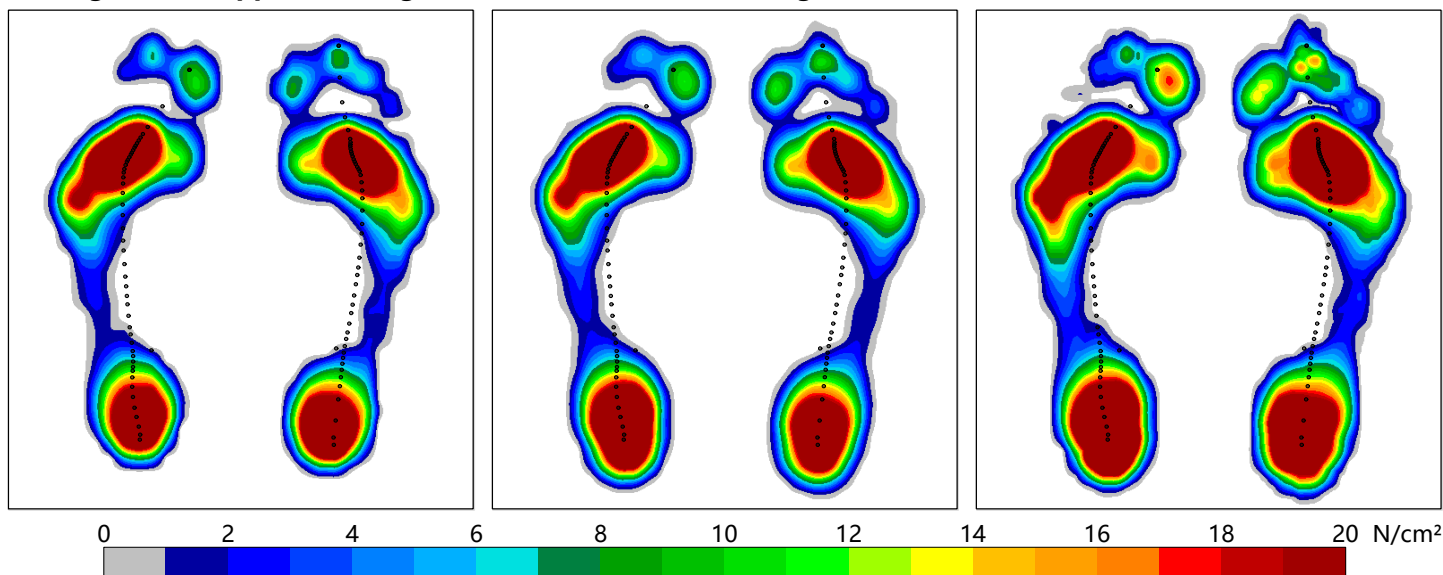


Pressure plots

Single limb support, average

Stance, average

Stance, maximum

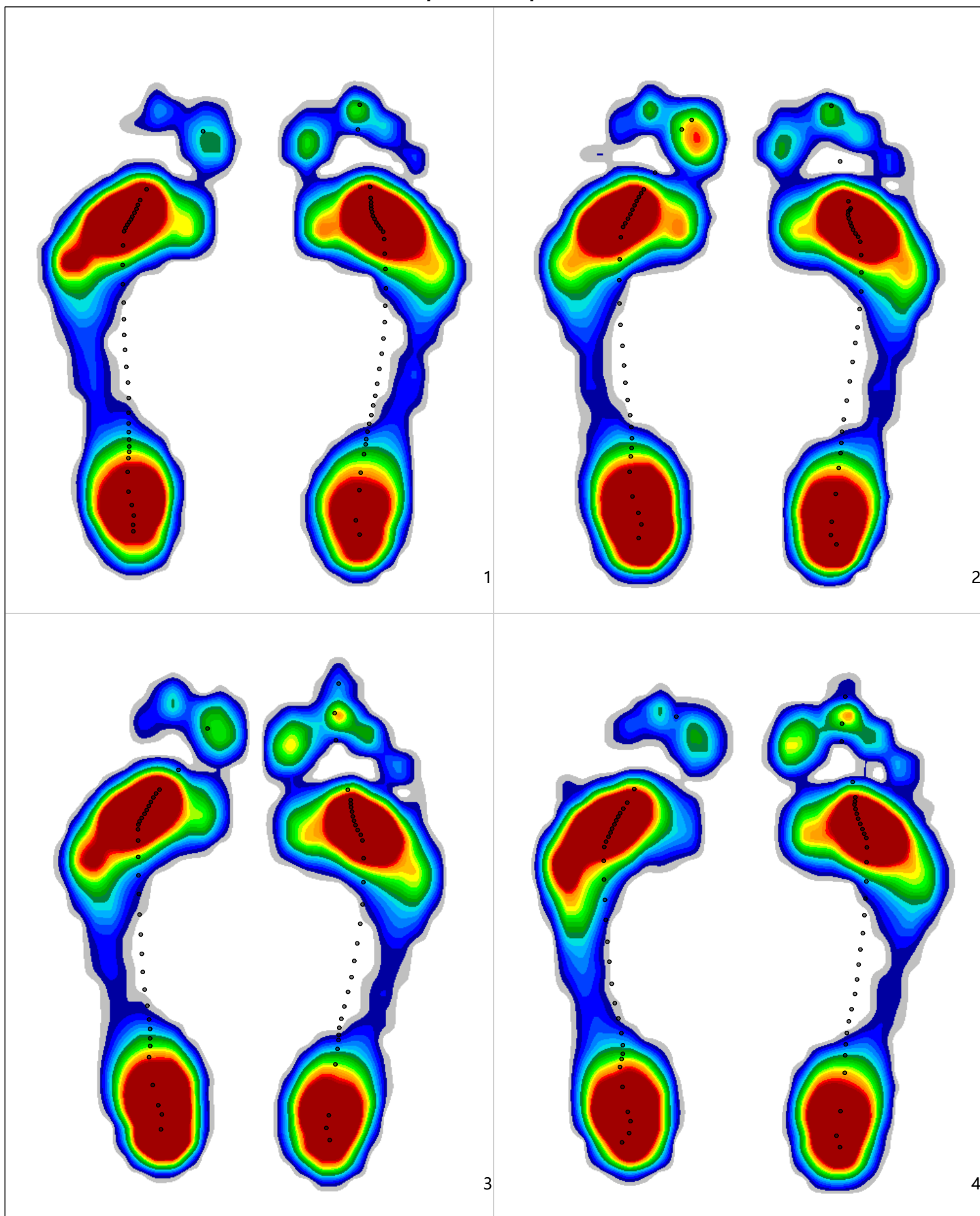


Fakulta sportovních studií Gait Report

Person: DAniel Růža, 06.09.2002

Record: 28.11.2024 12:14, Gait Analysis FDM, chuze

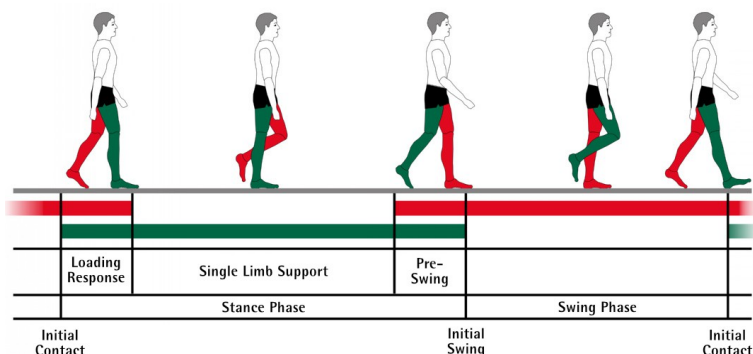
Separate footprints



Fakulta sportovních studií Gait Report

Person: DAniel Růža, 06.09.2002
 Record: 28.11.2024 12:14, Gait Analysis FDM, chuze

Gait parameters



Geometry

Foot rotation, degree	L	-0,3	-3°	3°
	R	1,3±1,3		
Step length, cm	L	63		140 cm
	R	65		
Stride length, cm		128		140 cm
Step width, cm		8±2		

Phases

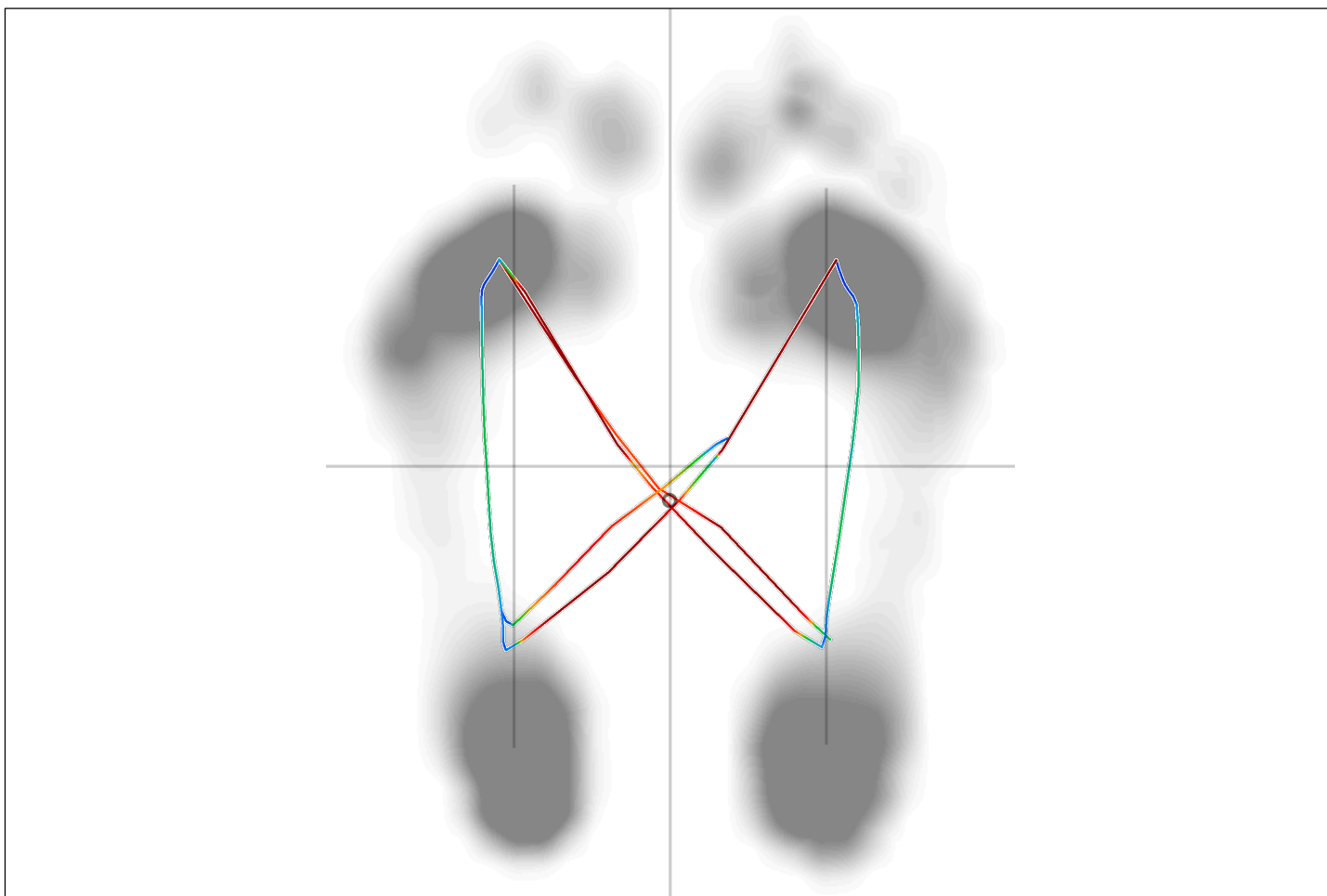
Stance phase, %	L	61,5		100 %
	R	64,1±2,6		
Load response, %	L	15,4		
	R	11,5		
Single limb support, %	L	34,6		
	R	38,5		
Pre-Swing, %	L	11,5		
	R	13,2±1,6		
Swing phase, %	L	38,5		
	R	35,9±2,6		
Double stance phase, %		25,0±1,9		

Timing

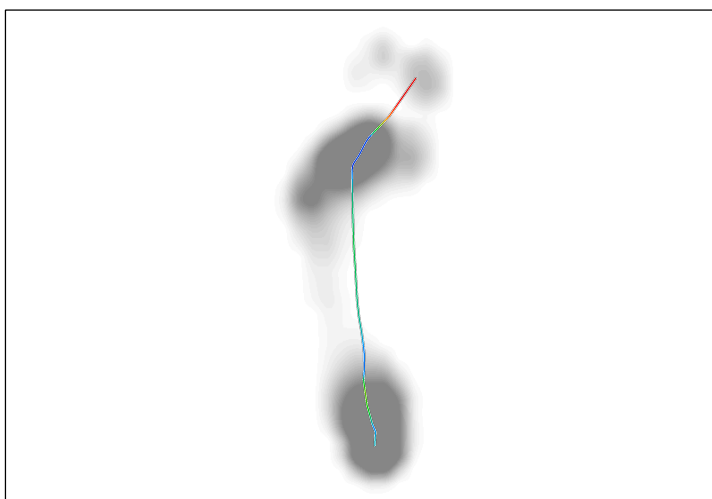
Step time, sec	L	0,52		1.1 sec
	R	0,52		
Stride time, sec		1,04		1.1 sec
Cadence, steps/min		114±2		130 steps/min
Velocity, km/h		4,3±0,2		5 km/h

COP analysis

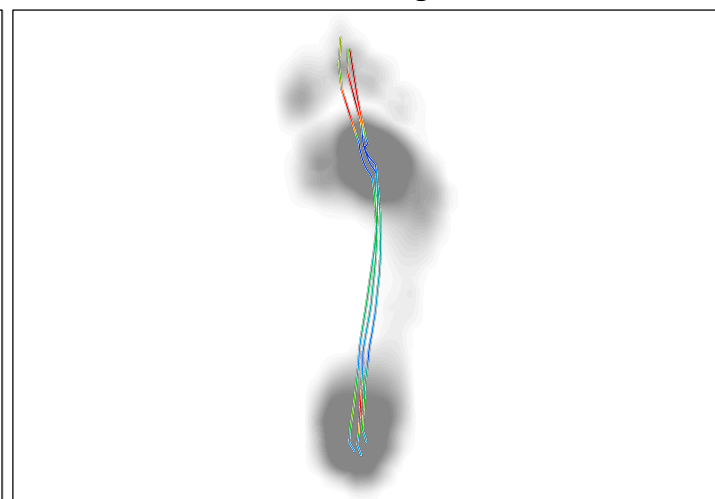
Butterfly



Gait line left



Gait line right

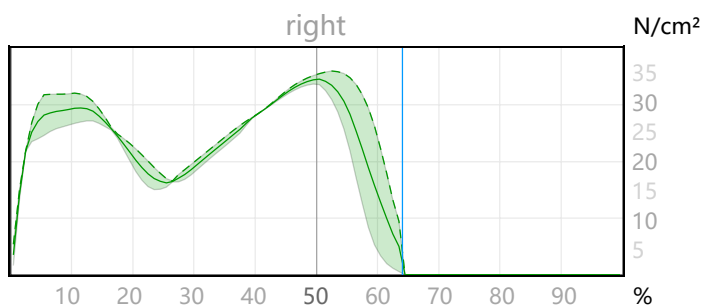
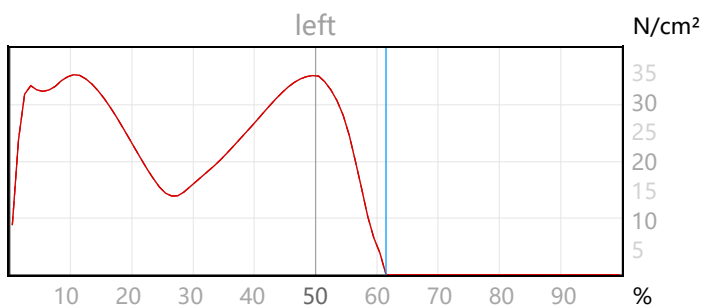


Butterfly parameters

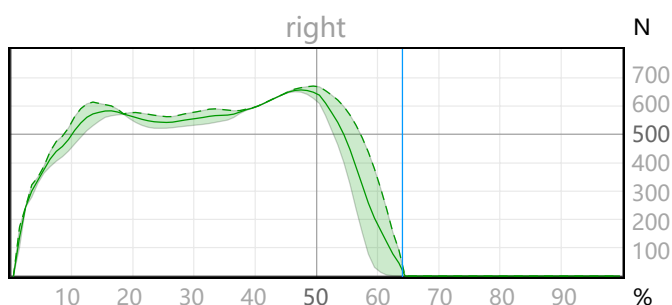
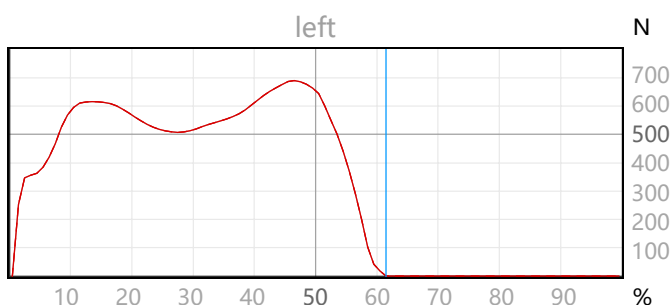
Length of gait line, mm	L	219,2±0,0	<div style="width: 73%;"></div>	300 mm
	R	241,5±6,1	<div style="width: 80%;"></div>	
Single limb support line, mm	L	116,7	<div style="width: 39%;"></div>	
	R	124,8	<div style="width: 41%;"></div>	
Ant/post position, mm		-11,4±2,1	<div style="width: 7%;"></div>	150 mm
Lateral symmetry, mm		-0,2±3,0	<div style="width: 0%;"></div>	21 mm
Max gait line velocity, cm/sec		159,8	<div style="width: 100%;"></div>	

Force and pressure

Pressure curves



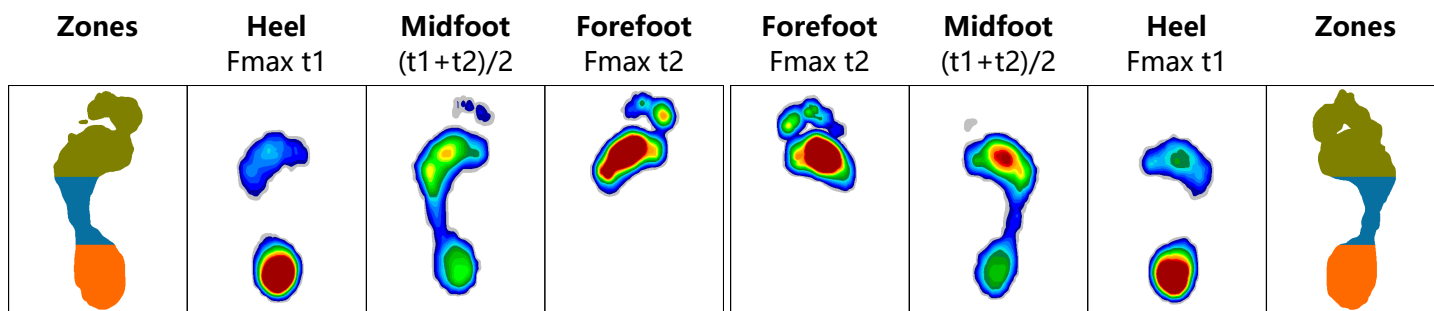
Force curves



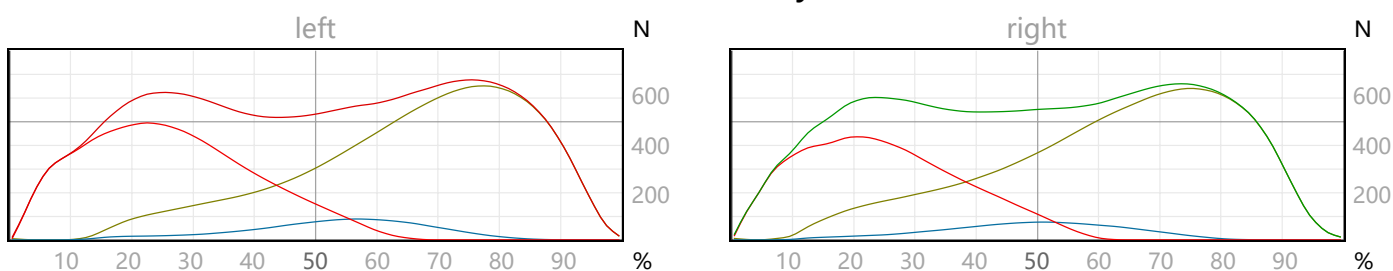
Force parameters

Maximum force1, N	L	615,7	<div style="width: 77%;"></div>	800 N
	R	583,2	<div style="width: 73%;"></div>	
Time maximum force1, %	L	13	<div style="width: 13%;"></div>	100%
	R	16	<div style="width: 16%;"></div>	
Maximum force2, N	L	690,0	<div style="width: 86%;"></div>	800 N
	R	657,0	<div style="width: 82%;"></div>	
Time maximum force2, %	L	46	<div style="width: 46%;"></div>	100%
	R	47	<div style="width: 47%;"></div>	

Three foot zone analysis



Force overlay



Load change

Time change heel to forefoot, sec	L	0,27±0,02		0.4 sec
	R	0,23±0,02		
Time change heel to forefoot, %	L	41,1±2,2		100%
	R	34,5±2,3		

Maximum force, N

Forefoot	L	658,2±14,1		800 N
	R	646,7±10,4		
Midfoot	L	91,0±24,1		
	R	75,9±9,3		
Heel	L	506,9±20,0		
	R	441,5±26,5		

Maximum pressure, N/cm²

Forefoot	L	34,9±1,5		40 N/cm ²
	R	33,6±1,6		
Midfoot	L	16,1±5,2		
	R	12,8±2,5		
Heel	L	35,5±1,1		
	R	30,6±1,9		

Time maximum force, % of stance time

Forefoot	L	74,0±1,3		100%
	R	72,2±1,9		
Midfoot	L	54,1±3,7		
	R	47,5±2,1		
Heel	L	19,0±3,4		
	R	18,0±1,7		






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Contact time, % of stance time

Forefoot	L	86,3±1,3		100%
	R	89,4±1,9		
Midfoot	L	73,2±3,2		
	R	73,0±2,2		
Heel	L	58,7±2,7		
	R	56,3±1,3	