

General measures	Mean ± Std	P10	P20	P30	P40	P50	P60	P70	P80	P90
Excentric impulse (N • s)	103 ± 20	76	85	89	96	103	108	115	121	131
Propulsive impulse (N • s)	207 ± 21	176	190	197	206	209	214	217	222	232
Impulse ratio	0.5 ± 0.08	0.40	0.43	0.45	0.47	0.49	0.52	0.53	0.56	0.61
Take-off speed (m/s)	2.65 ± 0.28	2.28	2.38	2.48	2.60	2.66	2.75	2.82	2.87	2.98
Jump height with initial velocity (cm)	36 ± 8	26	29	31	35	36	39	41	42	45
Flight time (sec)	0.53 ± 0.05	0.47	0.48	0.50	0.51	0.53	0.55	0.56	0.58	0.59
Jump height with flight time (cm)	35 ± 7	27	28	30	32	35	37	39	41	43
Propulsive relative power (W/kg)	16 ± 4	12	13	14	15	16	17	18	20	22
Landing positive impulse (N • s)	262 ± 44	202	232	242	254	260	269	282	303	319
Landing peak force (N)	3527 ± 1364	1731	2504	2937	3218	3506	3876	4068	4614	5249
Left-leg negative impulse (N • s)	-56 ± 14	-74	-68	-64	-59	-57	-53	-49	-44	-38
Right-leg negative impulse (N • s)	-52 ± 15	-72	-64	-60	-55	-52	-48	-45	-39	-35
Inter-leg negative impulse SI (%)	9 ± 41	-41	-22	-11	1	7	16	24	37	67
Left leg positive impulse (N • s)	161 ± 22	132	144	149	154	162	167	174	179	184
Right-leg positive impulse (N • s)	161 ± 30	121	137	144	153	159	170	180	188	203
Inter-leg positive impulse SI (%)	2 ± 26	-32	-19	-12	-3	1	7	14	24	34
Left leg landing positive impuse (N • s)	129 ± 41	85	96	104	116	128	140	150	159	184
Right leg landing positive impulse (N • s)	131 ± 47	81	99	109	119	130	143	154	173	187
Inter-leg landing positive impulse SI (%)	0 ± 59	-70	-53	-30	-15	-4	8	27	37	67
Landing force peak Left leg (N)	1891 ± 842	1000	1158	1431	1625	1750	1984	2163	2606	2948
Landing force peak Right leg (N)	1933 ± 769	870	1358	1639	1823	1930	2056	2232	2603	2920
Landing force peak SI (%)	-2 ± 43	-55	-34	-22	-14	-3	8	16	30	42

Phase delays variables (msec)	Mean ± Std	P10	P20	P30	P40	P50	P60	P70	P80	P90
Unweighting phase start	-12 ± 80	-105	-53	-34	-23	-11	4	17	36	67
Braking phase start delay	4 ± 42	-53	-20	-12	-4	6	19	25	36	51
Positive impulse finish	1 ± 7	-7	-4	-2	0	1	2	5	7	11
Flight phase start	1 ± 8	-8	-5	-2	0	1	2	5	8	10
Landing time start delay	-1 ± 9	-13	-9	-6	-3	-1	1	4	6	10
Landing positive impulse start delay	0 ± 9	-12	-8	-4	-2	1	3	5	7	9
Braking landing impulse finish delay	-3 ± 28	-12	-8	-4	-3	-1	1	2	5	10
Landing positive impulse finish delay	-4 ± 91	-118	-66	-29	-13	0	5	20	47	82
Landing unweighting phase end delay	18 ± 77	-70	-37	-9	0	9	22	45	79	112

Phase duration differences (msec)	Mean ± Std	P10	P20	P30	P40	P50	P60	P70	P80	P90
Unweighting phase	13 ± 86	-97	-59	-23	5	20	32	41	82	125
Braking phase start	-5 ± 43	-53	-38	-28	-19	-10	2	11	25	48
Positive impulse phase	-1 ± 6	-7	-5	-3	-2	0	1	2	4	6
Flight phase	-2 ± 13	-21	-13	-8	-5	0	2	5	8	14
Start landing phase	1 ± 5	-5	-2	-1	0	1	2	4	5	7
Landing positive impulse phase	-1 ± 23	-17	-10	-8	-5	-1	3	6	11	16
Braking landing impulse phase	-8 ± 77	-96	-61	-29	-12	-2	5	22	43	71
Landing positive impulse phase	15 ± 113	-130	-78	-39	0	8	37	67	117	157