

Anthropometric Parameters from Winter, D. A. (1992) Biomechanics and Motor Control of Human Movements, 2nd ed. University of Waterloo Press, Waterloo, Canada.

Segment	Definition	Segment Wt/ Total Body Wt	Centre of Mass / Segment length	Centre of Mass / Segment length	Radius of Gyration / Segment length	Radius of Gyration / Segment length	Radius of Gyration / Segment length
			<i>Proximal</i>	<i>Distal</i>	<i>C of G</i>	<i>Proximal</i>	<i>Distal</i>
Hand	wrist / knuckle II digit 3	0.006	0.506	0.494	0.297	0.587	0.577
Forearm	elbow / ulnar styloid	0.016	0.430	0.570	0.303	0.526	0.647
Upper arm	G.H jt / elbow	0.028	0.436	0.564	0.322	0.542	0.645
F'arm+hand	elbow / ulnar styloid	0.022	0.682	0.318	0.468	0.827	0.565
Upper limb	G.H jt / ulnar styloid	0.050	0.530	0.470	0.368	0.645	0.569
Foot	Lat. mall / hd. MT2	0.0145	0.50	0.50	0.475	0.690	0.690
Shank	Fem.cond. / med. mall	0.0465	0.433	0.567	0.302	0.528	0.643
Thigh	Gr.troch / fem. cond.	0.100	0.433	0.567	0.323	0.540	0.653
Foot+shank	fem. cond. / med. mall.	0.061	0.606	0.394	0.416	0.735	0.572
Lower Limb	Gr.troch / med. mall.	0.161	0.447	0.553	0.326	0.560	0.650
Head, neck, trunk	Gr troch / G.H joint	0.578	0.66	0.34	0.503	0.830	0.607
Head, neck, arms, trunk	Gr troch / G.H joint	0.678	0.626	0.374	0.496	0.798	0.621
Head and neck	[C7-T1 and 1st rib] / ear canal	0.081	1.000	0.000	0.495	1.116	-

Methods for Determining Inertial Characteristics

Mechanics-Based	Scanning	Measurement
Pendulum Oscillation	Gamma mass scanning CT/MRI	Linear regression Nonlinear regression Mathematical model

Selected Anthropometry References (well-known refs marked by *)

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Key Words: anthropometry, moments of inertia, body segment parameters, inertial characteristics, inertial parameters