Key:

denotes a joint centre

Segments P, T, C, A1, A2, B1, B2, J1, J2, K1, K2 are separated by alternating colors.

Levels are denoted as L<s># with <s> roughly denoting a body part, and # denoting the #-th level in the segment.

Measurements are denoted as L<s>#<t>, with <t> denoting the type of measurement.

There are 4 types of measurements:

L denotes a length measurement, not necessarily measured from previous level:

Ls1L-Ls5L measured from Ls0; Ls6L-Ls8L measured from Ls5

La2L-La4L measured from La0; La5L-La7L measured from La4 (same for segment b)

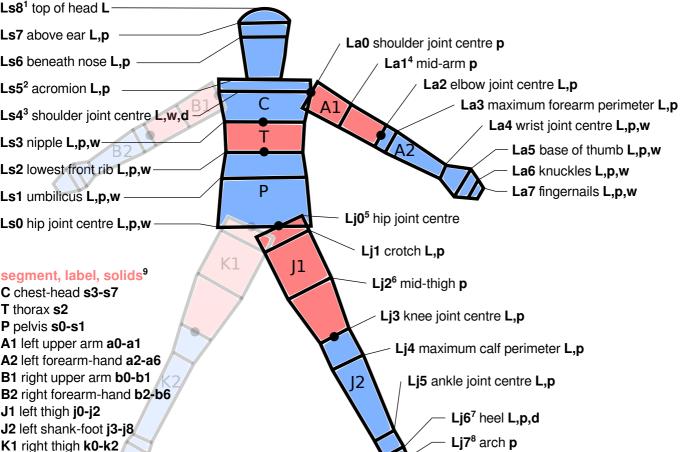
Lj1L, Lj3L-Lj5L measured from Lj0; Lj6L, Lj8L-Lj9L measured from Lj5 (same for segment k)

p denotes a perimeter measurement, must have $2 < \mathbf{p/w} < \pi$

w denotes a width (medio-lateral, or side to side) measurement

d denotes a depth (anterior-posterior, or front to back) measurement

level, label, measurements needed



Notes:

Total mass can be measured in order to scale the default densities used for the solids (otherwise, mass is estimated).

Lj8 ball L,p,w

Lj9 toe nails L,p,w

1 s0 is the only semi-ellipsoidal solid.

K2 right shank-foot k3-k8

2 two stadia at this level, one for s4 and one for s5. The parameters for the s4 stadium are calculated from Ls4's stadium. Ls5 perimeter measured around neck.

3 depth is measured in lieu of perimeter since arms interfere and width is measured with respect to the shoulder joint centers. 4 La1L is not measured, but is instead set as half of La2L.

- 5 stadium (circle) perimeter is calculated from the dimensions of the stadium at Ls0.
- 6 Lj2L is not measured, but is instead set as the average of Lj1L and Lj3L. 7 Li6's (and Lk6's) stadia are the only stadia oriented anteroposteriorly.
- 8 Li7L is not measured, but is instead set as the average of Li6L and Li8L.
- 9 Yeadon's 1990 paper indexes the solids from 1, while this formulations indexes from 0.