Sophont Size

The physical height and weight of a character can be determined from the physical characteristics in the UPP.

Sophonts-15
Size

BEING SIZE

Size is a measure of the volume (and to some extent the weight) of a sophont. Size is measured in units approximately equal to one liter (1000 liters to a cubic meter). As a very rough measure, Size is also the mass of a person or sophont in kilograms. The size standard or benchmark is Human = 100. Size for a sophont is based on the three physical characteristics C1 C2 C3 (and according to the Calculating Size Table).

Individual Size

To determine the size of an **individual** sophont,

Total the physical characteristics for the individual (halving Grace and Agility; doubling Stamina). Divide the total by 21 and multiply by 100. The result is individual sophont size.

Calculating Species or Sophont Size

C1 Strength	Char	
C2 Dexterity	Char	
C2 Grace	Char / 2	makes it lighter or smaller
C2 Agility	Char / 2	makes it lighter or smaller
C3 Endurance	Char	
C3 Stamina	Char * 2	makes it heavier or larger
C3 Vigor	Char /2	makes it lighter or smaller

Char= Individual rolled Characteristic Value (for example, if Str = 7, Char = 7).

Total= C1 + C2 + C3
Individual Size = 100 * (Total / 21).

For example, a Human SDEIES rolls 2D each for C1 C2 C3 physical characteristics and the result is 777 = 21/ 21 = 1 * 100 = 100. This human is totally average in size.

For example, a Hexaphant SDSIES rolls 3D+12, 2D, 3D +12 for C1 C2 C3 physical characteristics and the result is M9T= 21 + 9 + 54 = 84 / 21 = 4 * 100 = Size 400. This individual is larger than the average Hexaphant and large by any measure.

Average Size

To determine the average size for a Sophont,

Total the number of dice used to generate the Physical Characteristics (halving Grace, Agility, and Vigor; doubling Stamina). Divide the total by 6 and multiply by 100. The result is typical size for the sophont.

Calculating Species or Sophont Size

C1 Strength	Dice	
C2 Dexterity	Dice	
C2 Grace	Dice / 2	makes it lighter or smaller
C2 Agility	Dice / 2	makes it lighter or smaller
C3 Endurance	Dice	
C3 Stamina	Dice * 2	makes it heavier or larger
C3 Vigor	Dice /2	makes it lighter or smaller

Dice= Number of dice rolled for the characteristic (for example, if Str = 2D, Dice = 2).

Total= C1 + C2 + C3
Typical Size = 100 * (Total / 6).

For example, a Human SDEIES rolls 6D (2D + 2D + 2D) for C1 C2 C3 physical characteristics = 6 / 6 = 1 * 100 = 100. A Human is size 100.

For example, a Hexaphant SDSIES rolls 12D (5D + 2D + 5D) = 5+ 2 + 5*2 = 17/6 = 2.83* 100 = 283. A Hexaphant is size 283.

If the Sophont has Mods on the die rolls, add or subtract fractional dice (+1 = +0.16; -1 = -0.16). For example, a Sssnth SDEIES rolls 6D-3 (2D-1 + 2D-1 + 2D -1) for physical characteristics C1 C2 C3 = 6-.5 = 5.5/6 = 0.91 *100 = 91.A Sssnth is Size = 91.

SMALL, STANDARD, OVERSIZE, AND TITAN

Sophonts (and all users: robots, armored suits) fall into four broad classes: Small, Standard, Oversize, and Titan. All four classes are approximations, with wide variation in the specifics.

Small (about 50). A small number of sophonts fall into the Small Size Class. Small assumes the individual is less than 1 meter tall and less than 50 kg mass. C1 C2 C3 are probably created with 1D each.

Standard (about 100). Humanity and most sophonts fall into the Standard Size Class. Standard assumes the individual is approximately 1.5 to 2 meters tall and less than 100 kg mass. C1 C2 C3 are probably created with 2D each.

Oversize (about 200). A few sophonts fall into the Oversize Size Class. Oversize assumes the individual is approximately 3 to 4 meters tall (possibly altered by a multi-legged horizontal stance) and masses 400 to 800 kg. C1 C2 C3 are probably created with 3D each.

Titan (about 300). A very few sophonts are in the Titan Size Class. Titan assumes the individual is approximately 4 to 5 meters tall (possibly altered by a multi-legged horizontal stance) and masses 1 to 2 tons. C1 C2 C3 are probably created with 4D or 5D each.

Armor and Robots

Armor for sophonts, and Humaniform or Sophontiform robots are produced in Standard (same size as the Sophont), Oversize (double size), and Titan (triple size).

For example, an Oversize Humaniform Robot is twice the size (height) of a human. A Titan Battledress for a human is triple the size (height) of a standard robot.