

Anthropometrics and Ergonomics



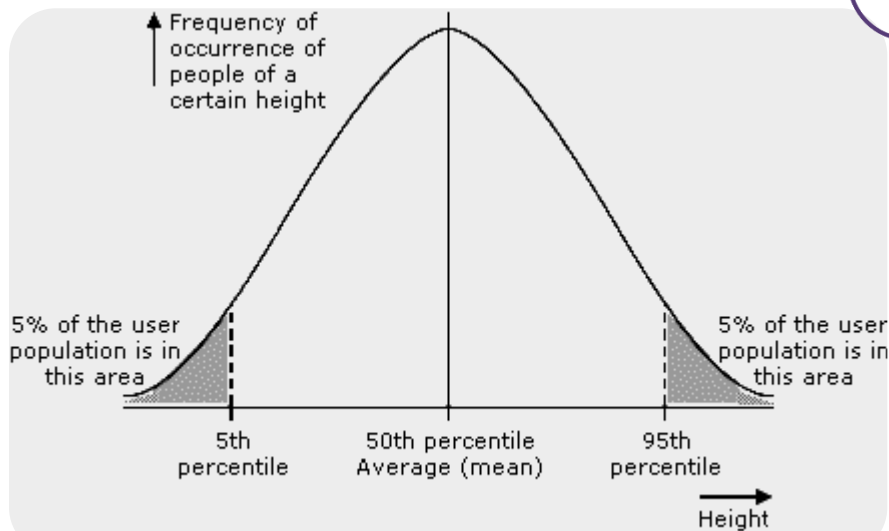
"Anthropometrics" The study of the human form and collection of data. This includes physical dimensions of all parts of the body and also characteristics.

"Ergonomics" Using anthropometric data on a product. How well we interact with a product. How comfortable it is.

Anthropometric data needs to be considered in all walks of life, in all products and all environments.

If a product does not consider the human body, or the way we interact with products, it cannot hope to function well.

What is the 50th Percentile?



The 50th percentile is the amount of people in a population who fall into the **average** category.

This might be for height, weight, arm length, hand span etc etc!

It is usually the largest in terms of numbers, and most people in the school would fall into this!

The 5th and 95th are the extremes of the population. Look at the diagram to help.



You can see from this diagram how the relevant data has been taken for a product that will interact with your hands.

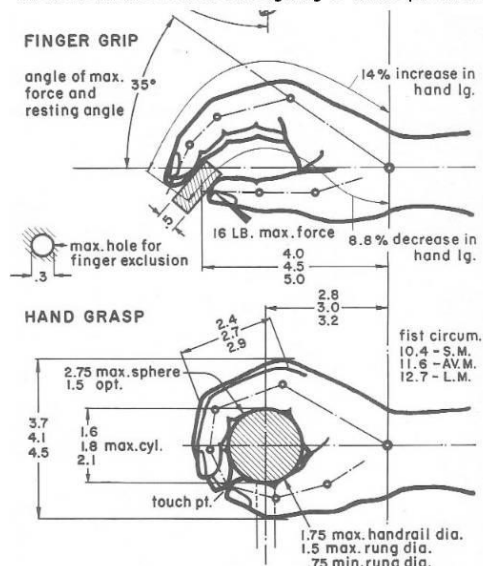
Can you think of some important measurements that would be needed to make a chair comfortable to sit on?

TEXT BOOK ALERT!

Look on pg. 53 for more information on ergonomics and the Cordless Drill case study.

ANTHROPOMETRICS

Anthropometrics is the measure of humans (anthro=man, pometrics=measure). The study of anthropometry is the study of human body measurements to assist designing to make products ergonomic.



THE BUTTONS ON THE IPOD DOCKING STATION WILL HAVE BEEN DESIGNED USING ANTHROPOMETRICS TO ENSURE THAT THE SIZE OF THE BUTTONS COOROSpond WITH THE AVERAGE SIZE OF THE TARGET MARKETS HANDS, FINGERS ETC...

