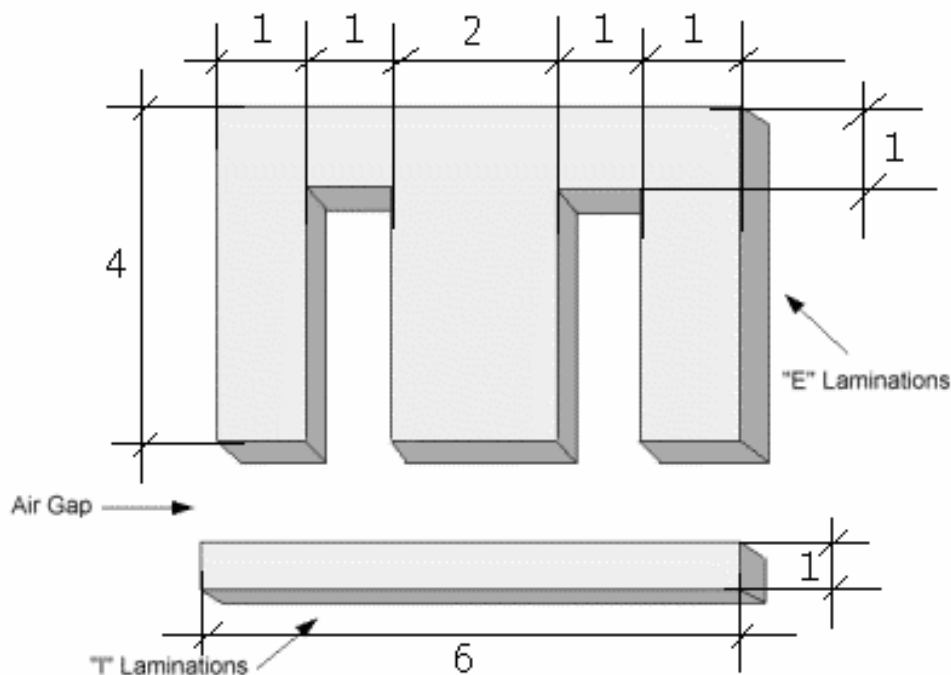


I've robbed some pictures from Geek Articles "Winding Transformers" part 1 & 2 . Gregg's paper helped me a lot when I started my own project.

<http://geek.scorpiorising.ca/windingtransformers.html>

The most common EI cut is said SCARPLESS and has the following dimension ratios:

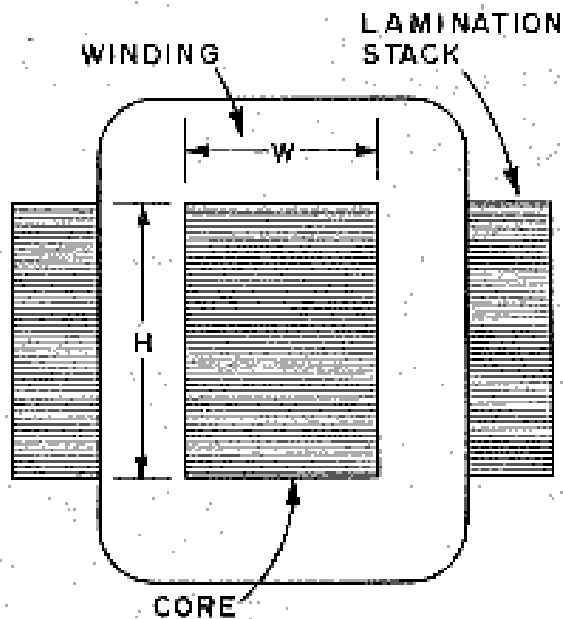


European numbering system for such laminations uses the wider dimension as the reference code, that is EI 48 means the length of the I lamination is 48 mm, from where all other may be derived ... except the stack height which depends of course on the number of stacked steel foils.

I filled the 'Core data' table with the most common available types.

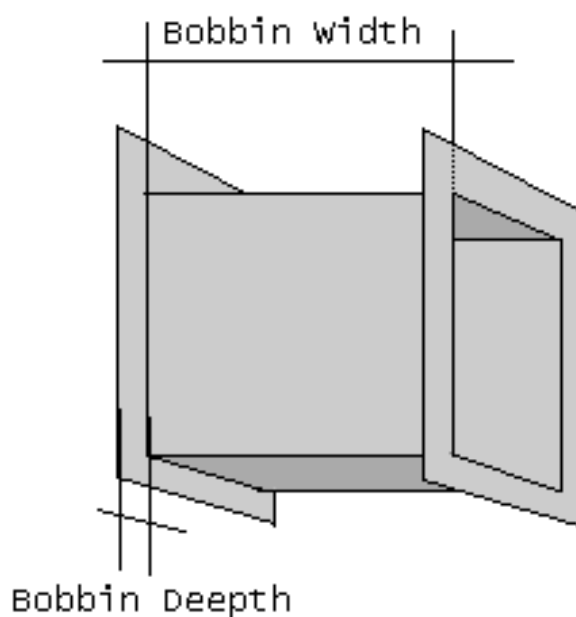
Some infos to help adding new types:

MPL is for Magnetic Path Length and (for the hypothetical core drawn above) is approx $3 + 4 + 3 + 4$. Not really critical.
For a toroid it should be the main diameter.



**CROSS-SECTIONAL AREA =
WIDTH X HEIGHT (W X H) OF CORE**

Afe (for iron Area) = Cross-sectional Area.



Self explanatory

Mean turn length is self explanatory. Used to calculate wire length and thus winding resistance.

Mfe (for iron mass) is simply the total weight of the stack, not very useful for calculations, except for roughly estimate the size from Power and Freq specifications.