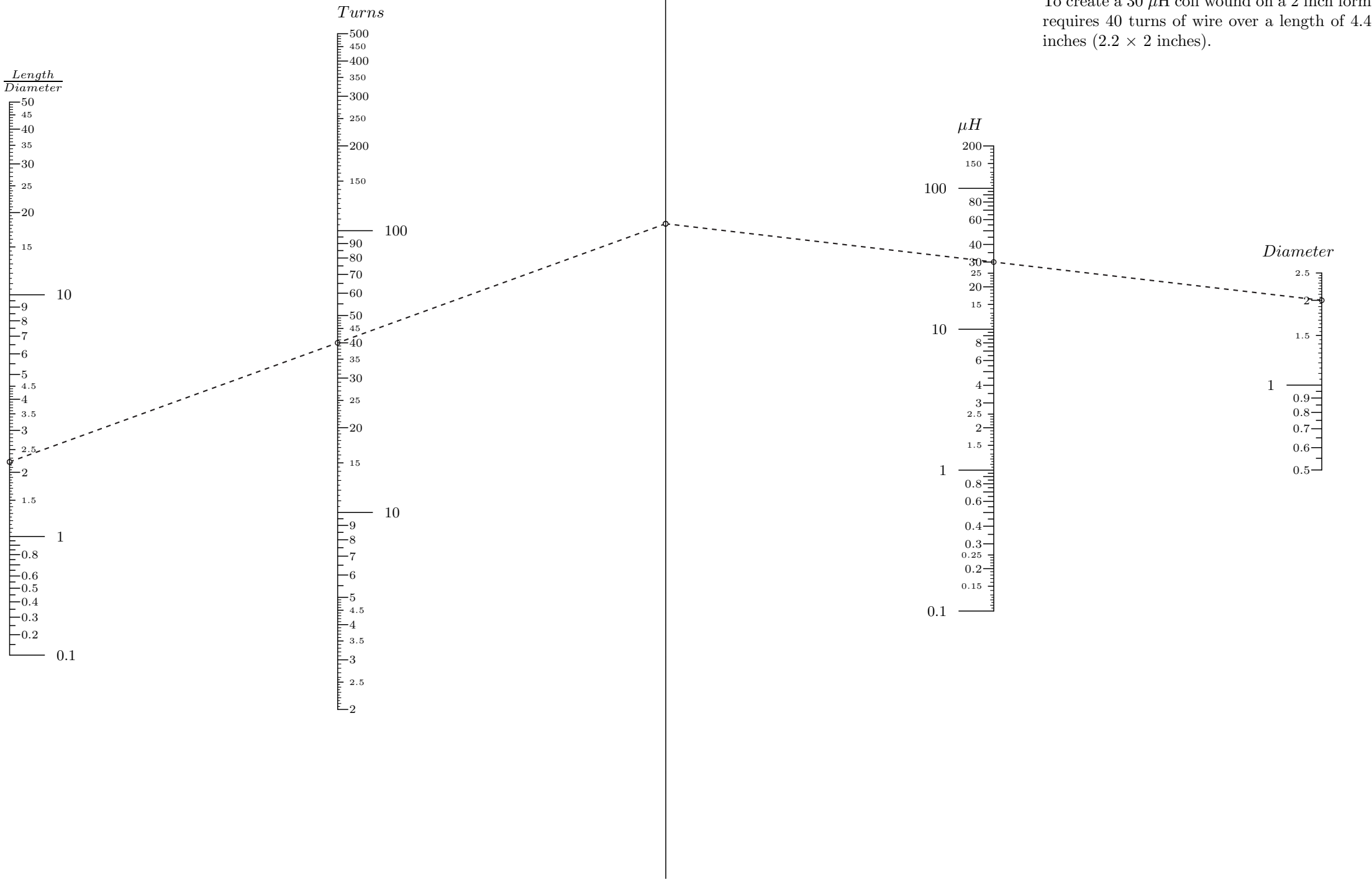


# Single-layer air coil calculator

Nomograph to calculate inductance of single layer air coil. Nomograph design adapted from Electronics World magazine, August 1962 (page 55).

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This nomograph implements the following formula:

$$\mu H = \frac{r^2 \times N^2}{9r + 10l}$$

where  $r$  is the radius of the coil (in inches),  $N$  is the number of turns,  $l$  is the length of the coil (in inches).

Example shown:

To create a 30  $\mu H$  coil wound on a 2 inch form requires 40 turns of wire over a length of 4.4 inches ( $2.2 \times 2$  inches).