

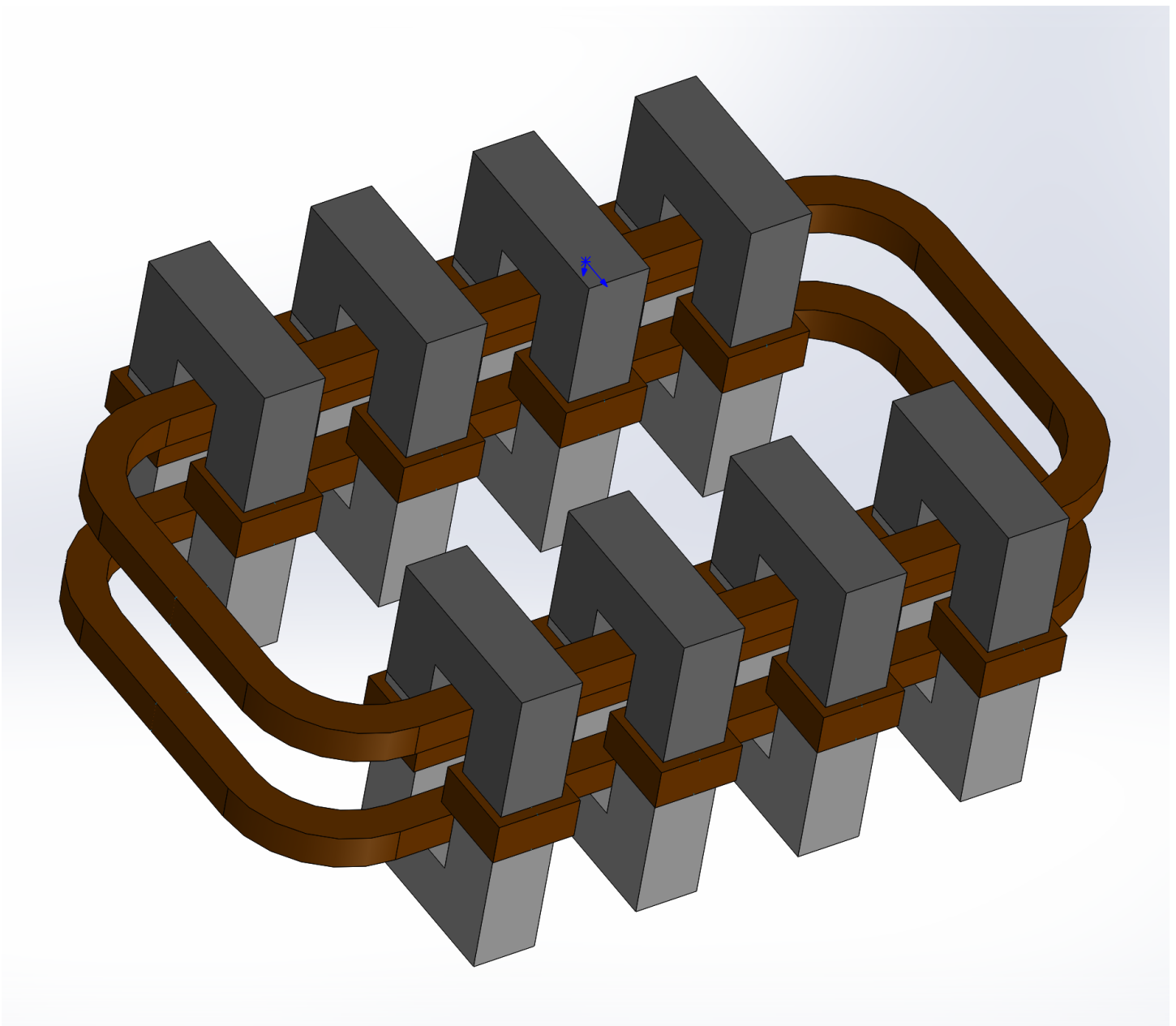
TFG Z04 8-Pole Dimensions (WAG) and Structure

These dimensions are a "first pass - wild ass guess" at the physical structure. There are only three (3) main parts: 1. A set of "U" Poles, 2. A set of N-S Coils, 3. A set of Loop Coils.

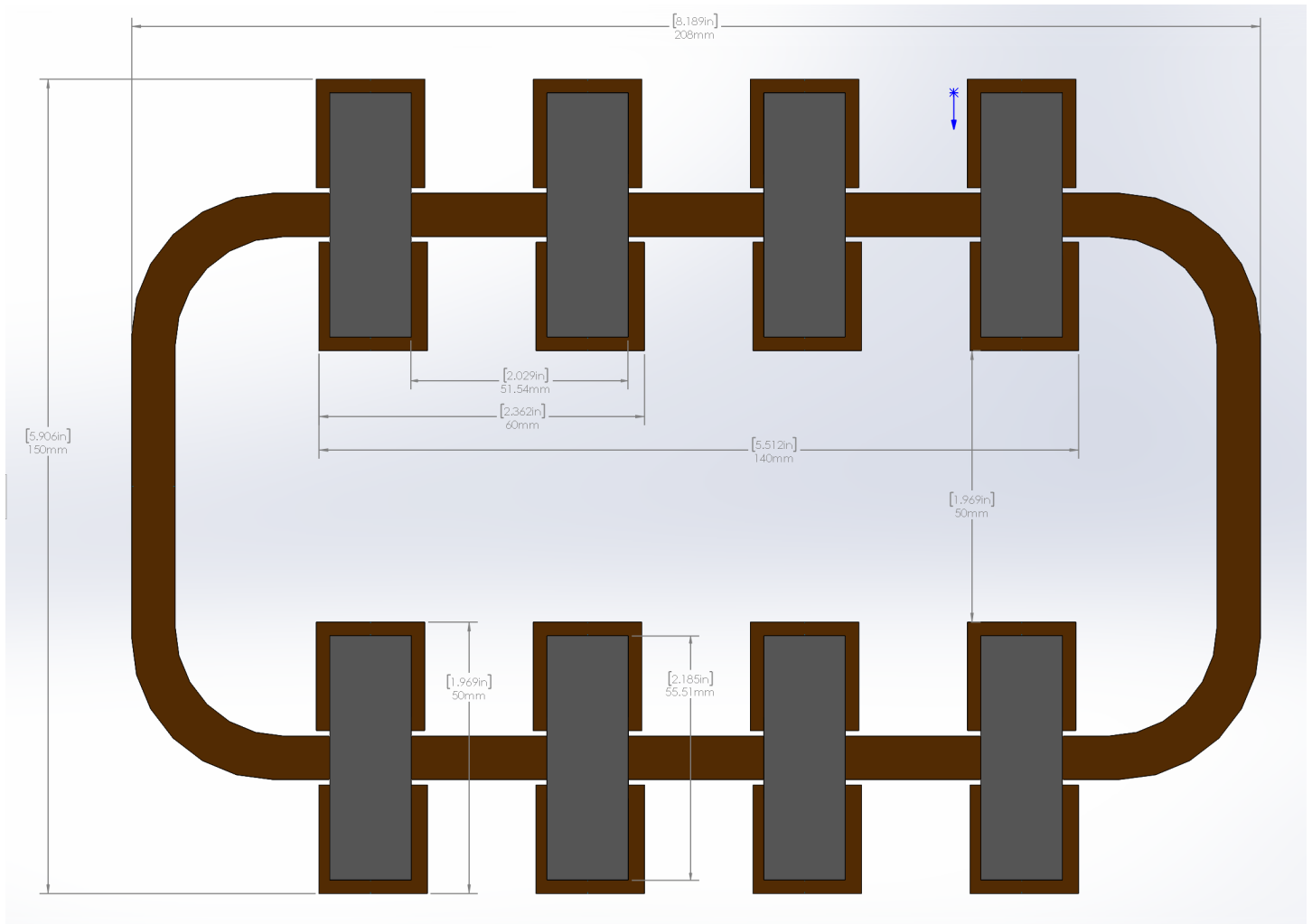
The "U" Poles are 'offset' such that cutting them reduces (eliminates) waste. The longer side is where the N/S winding is located.

After inserting the Loop coils (two), the N & S Coils are fitted on the long-end, and then the "U" shaped Poles are tightly fitted together with no gap. Supporting structure is not shown but should be non-metallic (a 3d printed structure would work here).

Prospective:



Top:



Laminated or solid electrical steel is used for the "U Pole" elements. Copper wire, stranded or solid makes up the N/S pole coils and the Loop coils.

NOTE: 1. The Pole pieces can not be placed too close together or the N/S coils will cause interference to the adjacent Pole coils. The distance remains TBD. Also, the transverse distance between adjacent Poles (the Loop width) also remains TBD.

NOTE: 2. It appears the TFG_EM has similar performance (so far anyway) to the LinGen V1 however the TFG_EM is much easier to build, uses less material, is readily expandable, and should be nearly the same size.

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