

# JANTZEN AUDIO

## Custom speaker designs, custom DIY speaker kits and altering constructions or kit content to special wishes.

We only offer DIY kits “as is” in their original tried and tested forms, as they were designed and intended by Mr. Troels Gravesen.

The kit versions outlined in the kit presentations and listed in the price lists are the only options for purchasing a DIY kit.

For certain DIY kits we can offer to upgrade the tweeter / mid-range capacitors, but any other component changes is not possible.

We do not offer to make a custom “low cost” component version for any of the DIY kits.

### **We do not have the time or resources to:**

- Re-design the crossovers and the DIY kit component contents to work with other drivers than the ones used in the original constructions
- Significantly alter a construction to a customer’s custom wishes
- Design custom speakers, crossovers, or cabinets for a DIY kit to use a random set of drivers
- Design custom upgraded crossovers for vintage speakers (other than the ones listed in our website already)

There are multiple phases in designing or re-designing crossovers / speakers.

Using a manufacturer’s driver data in a software simulation is only the first of many, which are required to properly design or re-design speakers/crossovers.

To properly tweak a speaker/crossover design, you will always need to have the drivers mounted on the actual baffle, make measurements of amplitude, phase, and impedance.

Then the data must import into simulation software to generate the crossover and make test crossovers to measure/hear if things work out correctly.

This means that a crossover / speaker design process requires the designer to have drivers, cabinets, and the actual baffle in-hand in the workshop.

As shown above, designing a new crossover / speaker system requires a lot of time and components, making it a very costly thing and therefore economically unviable for private consumers.