Subject: Re: tractrix horn/driver throat matching
Posted by Wayne Parham on Sat, 12 Nov 2005 17:34:23 GMT
View Forum Message <> Reply to Message

To know the electro-mechanical parameters, you'll have to either contact the manufacturer or measure them yourself. Also be aware that compression drivers have a phase plug which cannot be modeled in Hornresp and that almost all compression drivers operate in breakup mode for the top two octaves which also cannot be modeled. There is a way to model directivity, but it is simplistic and so you'll probably want to also consider that you'll be looking at power response, not on axis response. All these things will affect simulation at high frequencies. But when you're looking at the possible anomalies that a flare transtion might cause, Hornrsp is a great place to start. Once you've found some horn profiles that are free of peaks and reflections in the simulations, you can make physical models and measure them to know what effects the phase plug, diaphragm resonances and collapsing DI have, particularly in the top couple of octaves.