

---

Subject: Re: What would a horn do for a full range 8" like a Fostex?

Posted by [JLM](#) on Sun, 06 Feb 2005 12:07:25 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Horn loading should only affect mid-bass (150-500 Hz for front loading, 50 - 300 Hz for rear loading) and is best suited for drivers with Qts of around 0.2 like Lowther or most Fostex. But at these lower frequency limits horns get BIG. High pressures that compress air and flex enclosures are additional problems related to horns and produce colorations. Finding a "fast" enough sub to match up is a real challenge and a common gripe with the Oris front horn designs. Phase integration gets to be another problem as the bass horn has to get bigger and the distance through the horn becomes significant. There is not a single driver horn design that does deep bass. The only "practical" deep bass horn I've ever heard was 3 feet high x 2 feet deep x 7 feet long and used two 15 inch drivers per channel. But still the bass wasn't musical. Note that I was considering this option with Oris horns at one time but costs, added complexity, and the phasing issues kept me away from adding it to my dedicated listening room. But IMO except for efficiency and dynamics my Bob Brines designed/built FTA-2000 that use a single Fostex F200A per channel in a moderately sized mass loaded transmission line cabinet does better for less money. Check out Bob's forum here. No perfect speaker, each must pick his own compromises. Single drivers are simple, provide active connection to the amp, provide point source imaging, no crossover issues, no phase issues, and do a good job in the all important mid-range frequencies.

---