Subject: Conical horn pics
Posted by Adrian Mack on Mon, 08 Dec 2003 07:43:31 GMT
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Started my conical horns yesterday... they are so much easier to build than the tractrix ones I did! For Alpha 6 driver and hopefully 300Hz-1.6KHz response as hornresp says. 60deg by 45deg dispersion... could not make it 90deg horizontal because physcially it would be too wide to fit in the towers. 60 aint bad anyway. Here are some picsProbably do measurements on it with Speakerworkshop tomorow. Wish me luck I hope I get the range I want this time!

Subject: Lookin' good!
Posted by Wayne Parham on Mon, 08 Dec 2003 13:45:20 GMT
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Those are lookin' good!When asked about vocal range horns, this kind of horn is my favorite. Simple and effective. Yours looks almost exactly like mine, except mine has a square throat.Add an attractive finish, and a person has a system that's both acoustically and aesthetically pleasant.Thanks for posting the pics. Let us know as things progress for you!

Subject: Measurements and Impressions
Posted by Adrian Mack on Tue, 09 Dec 2003 05:21:29 GMT
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Today was a lot of testing, and A/B listening tests between the conical and tractrix horns of mine. Fired up the conical, and took a few freq response measurements with SW. I had to add a filler block in front of the cone to displace ~30cm^2. Its +/- 3db from 500Hz to 1.6Khz. Not bad! Below 500, theres the dip and then the peak at the conical horns cutoff. The peak is actually flat with the rest of the response, but I'm crossing at 500Hz anyway to the 2225 for

Subject: Re: Measurements and Impressions
Posted by Wayne Parham on Tue, 09 Dec 2003 08:55:39 GMT
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Thanks for your posting the results of your tests and listening impressions. Great to see how you jumped right on it, and have both physical models there side by side!!!

Subject: Good idea to reat the ears!
Posted by Garland on Tue, 09 Dec 2003 15:18:02 GMT
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I assume you've been listening to the tractrix horns for a while. I'd just put the new horns in the system for a few weeks and see if the sound grows on you or you find your missing something important in the music from what you experienced with the old horns in the system. A/B'ing is good to find major flaws but if both sound good but different, only time will reveal your preference. Of course, the frustration sets in when one horn plays better loud or with rock, full orchestra, etc. and the other works great with classical guitar or madrigals! G.