Subject: Conical Midrange horns Posted by Adrian Mack on Thu, 27 Nov 2003 23:29:41 GMT View Forum Message <> Reply to Message

Hi everyone!Is there anything wrong with using a conical horn for the midrange, say a range from 300Hz to 1.6KHz? People are always reccomending Tractrix or Hyperbolic for the midrange, but never conical. Some of you might remember I built two Tractrix horns for some Alpha 6's I've got, they perform great, but I just found today in a Hornresp simulation that if I built a conical horn then the HF extension would be even higher in a horn of the same size and is still flat which is good. Are conical horns the straight sided horn? Is the Unity horn a conical horn? If its a straight sided conical horn, it isn't a CD horn is it, I could make wider coverage angle/dispersion in the horizontal than the vertical planes if I wanted without ruining the hornresp simulated response? So whats the pro's/con's of a conical midrange over a tractrix midrange horn? I remember reading on this forum a few months back that conical horn mouth flare tangent angle when I'm simulating a conical horn, what use is this? Also why doesn't the conical horn simulation show the flare frequency it is always 0.00Hz, although it doesn't affect the simulation really. Thanks!Adrian

Subject: Re: Conical Midrange horns Posted by Wayne Parham on Fri, 28 Nov 2003 00:03:04 GMT View Forum Message <> Reply to Message

Conical horns are great for midrange. They're actually the most common type for cone driven mid horns. Conical horns are relatively simple in construction and provide constant directivity. I wouldn't use anything other shape than conical for midrange, and in fact, am currently working on a conical midhorn design for use with a JBL 2012 and/or Eminence Delta 10 midrange driver.

Subject: Re: Conical Midrange horns Posted by Bill Martinelli on Fri, 28 Nov 2003 01:52:33 GMT View Forum Message <> Reply to Message

Hi Adrian, Conical is a great horn flare for the midrange. As for pros and cons, You should just build yourseld some conical horns. It will be easier than trying to wade through all the mathmatical differences, the opinions of people you make, sell or bought either style.Bill

Hey BillSounds like a good way to go. I've got spare 12mm MDF here so I'll just build and try out a few. The easiness of construction is getting me excited!Adrian

Subject: Re: Conical Midrange horns Posted by Bill Martinelli on Fri, 28 Nov 2003 14:17:17 GMT View Forum Message <> Reply to Message

High Adrian,Let us no how it sounds.Bill

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