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Subject: Midhorns to load down to 200 Hz?

Posted by [Peter Krojgaard](#) on Fri, 28 Dec 2007 12:56:45 GMT

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Hi Wayne, I have large, straight 29 Hz basshorns (see link below) and currently use a pair of BMS 4592 ND drivers in Jabo KH-50 horns from 320 Hz and up (these are not displayed in the pics though). However, I am not satisfied with the BMS drivers that I find somewhat hard and sterile sounding. Therefore, I consider trying hornloaded cone mids and a tweeter above instead. This is where your midhorn(s) come in! I would really like to get the midhorn to go down to 200 Hz, since my basshorns sounds best below 200 Hz. But since the midhorns will be positioned on top of my basshorns (app. where the wooden Bentwood midhorn are located in the picture), they will not be corner loaded as in the 7Pi application and the standard 7Pi midhorn will probably not load down to 200 Hz in this position.... My question is: Could I somehow extend or enlarge the 7Pi midhorns, so they would cover the 200-1000 Hz range when mounted on top of my bass horns? (I have also considered your 9Pi midhorns, but their 40x40 coverage may be difficult to mate with a 90x40 tweeter horn, or....). I have modelled a 90 degree conical horn in HornResp (throat=130 cm<sup>2</sup>; Mouth=3600 cm<sup>2</sup> [35" w x 16" h]; Length=20") – would this be a sensible approach???

I already have a pair of 10" PD.107 drivers – quite similar to the JBL 2012 -- that I would like to try. I thank you a lot in advance! Kind regards Peter

bass horns

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Subject: Re: Midhorns to load down to 200 Hz?

Posted by [Wayne Parham](#) on Fri, 28 Dec 2007 15:39:52 GMT

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low end response suffers. But I see from your photos that your horns are positioned near boundaries and the room is not very large. You may find the boundary reinforcement you have is enough. If not, I'd try a few alternatives in Hornresp and see what you come up with. The description you've given modeled pretty well.

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Subject: Re: Midhorns to load down to 200 Hz?

Posted by [Peter Krojgaard](#) on Sat, 29 Dec 2007 10:07:16 GMT

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Hi Wayne, Thanks a lot for your reply! Immediately, I think I will be most inclined to try the large horn then. However, a 35" wide horn is huge and I may consider a narrower 60 x 40 design. In that case, I will have to look for a 60 x 40 tweeter. Can you recommend any 60 x 40 horns for 1" drivers? Thanks a gain! Kind regards Peter

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Subject: Re: Midhorns to load down to 200 Hz?  
Posted by [Wayne Parham](#) on Sat, 29 Dec 2007 15:12:57 GMT  
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Three feet wide, huh? That's big, but not compared to your basshorns.

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Subject: Re: Midhorns to load down to 200 Hz?  
Posted by [Peter Krojgaard](#) on Sat, 29 Dec 2007 16:08:09 GMT  
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Yes, I know the bass horns are huge. I assure you that they have punch in spades:-)Thanks a lot for your help, Wayne!Kind regardsPeter

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Subject: Re: Midhorns to load down to 200 Hz?  
Posted by [Chris R.](#) on Wed, 16 Jan 2008 02:23:42 GMT  
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Wayne, Are your mid-horns really 35" wide? No wonder the pictures have a low WAF. If not, what are the dimensions?Chris

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Subject: Re: Midhorns to load down to 200 Hz?  
Posted by [Wayne Parham](#) on Wed, 16 Jan 2008 18:51:07 GMT  
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It's big but not quite that big. Mouth dimensions are 12" x 24", with a couple inches around that for the cabinet.

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