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Subject: Smith Horn Group Build - Please Complete Survey

Posted by [GarMan](#) on Fri, 15 Sep 2006 15:06:36 GMT

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There seems to be some good interest in a Smith Horn group build project. If you are interested, please complete the survey below to determine the level and type of "prep work" we're looking for. Throat Size:- 1"- 1.5"- 2" Pre-fab Components:- Vanes- Throat Plate- Body Vane Pre-fab:(What type of joinery are you looking for? A mortise joint will require an increase in the vane to account for the tenons. Dowel joints can use the same vanes as butt-joints)- Flat butt joint- Mortise joint Throat Adaptor:- Straight bore- Circular to rectangular transition Pre-fab Material:- MDF- hardwood Please add any other questions you think I may have missed.gar.

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Subject: Re: Smith Horn Group Build - Please Complete Survey

Posted by [GarMan](#) on Fri, 15 Sep 2006 15:09:45 GMT

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Here's my response: Throat Size:- 1" Pre-fab Components:- Vanes Vane Pre-fab:- Flat butt joint Throat Adaptor:N/A Pre-fab Material:- hardwood

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Subject: My survey

Posted by [SteveBrown](#) on Fri, 15 Sep 2006 15:49:52 GMT

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Throat Size:- 1" Pre-fab Components:- Vanes- Throat Plate Vane Pre-fab:- Flat butt joint Throat Adaptor:- Straight bore Pre-fab Material: either

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Subject: ditto (nt)

Posted by [colinhester](#) on Fri, 15 Sep 2006 16:37:22 GMT

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Subject: Re: Smith Horn Group Build - Please Complete Survey

Posted by [Manualblock](#) on Fri, 15 Sep 2006 17:33:15 GMT

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Here's mine: 1" Vane Throat Plate Body Mortise/ either one is fine but I like the joint integrity of the mortise and I don't see why it would be a lot more money so why not? I would like to use one of my Altec drivers so I would assume that means rectangle to circle? If not then either one will do. Hardwood; I guess plywood is out of the question then? Baltic Birch? Looks good so far. Thanks for doing this survey Garman.

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Subject: Re: Smith Horn Group Build - Please Complete Survey  
Posted by [PakProtector](#) on Fri, 15 Sep 2006 19:33:06 GMT

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Hey-Hey!!!, I am not sure what you mean by 'vanes'. anyway... 1.375 throat. Conical section, 19" axial length 8 petals to approximate the cone, 13 mm, 11-ply birch? 35-degree included angle/flare, maybe 40 Mating to two-bolt old RCA compression driver. Throat terminated in the mounting plate, perhaps 1/4" copper? no special throat section. cheers, Douglas

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Subject: Re: Smith Horn Group Build - Please Complete Survey  
Posted by [GarMan](#) on Fri, 15 Sep 2006 20:54:25 GMT

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The vanes are the petals inside the horn to create the flare.

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Subject: Re: Smith Horn Group Build - Please Complete Survey  
Posted by [PakProtector](#) on Fri, 15 Sep 2006 21:06:14 GMT

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Oh, got you...:) Yes, 8 vanes. Probably 40-degrees included, or at least that is what my notes say. Now to get the good plywood. The issue I have is that it requires a 22.5 degree miter. With a serious tool shortage, this isn't easy to step around. The back plate/mount is quite easy by comparison...:) cheers, Douglas

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Subject: Re: I'll listen to Steves. Enough unfinished projects. nt  
Posted by [Bill Epstein](#) on Fri, 15 Sep 2006 21:57:35 GMT

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Subject: Sounds good to me! (nt)  
Posted by [SteveBrown](#) on Fri, 15 Sep 2006 23:39:34 GMT  
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nt

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Subject: A bit of info  
Posted by [wunhuanglo](#) on Sat, 16 Sep 2006 09:37:25 GMT  
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I have a pair of Visaton 1-inch throat adapters for their Smith horn. The round inlet is 25mm (1 inch) diameter, measured with a scale. The outlet is 42mm (1-5/8 inch) horizontal by 32mm (1-1/4 inch). vertical. The transition distance is 70mm (2-3/4 inch) face-to-face. If you use the Westlake-style adapter this won't make any difference, of course. FWIW, Charlie

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Subject: You know you want to  
Posted by [colinhester](#) on Sat, 16 Sep 2006 13:39:04 GMT  
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Come on, Bill. Play with us. Pleeeeeeease.....

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Subject: Re: You know you want to  
Posted by [GarMan](#) on Sat, 16 Sep 2006 13:44:41 GMT  
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Yah. How long will it really take you to slap a couple of pieces of wood over the vanes?

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Subject: Re: A bit of info  
Posted by [GarMan](#) on Sun, 17 Sep 2006 03:45:05 GMT  
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The 1.25" vertical outlet seems strange to me. The plans for smith horns I've seen all have a lower outlet than inlet. For example, the JBL 2328 throat adaptor transitions 2" drivers down to 1-3/8" height into 2397 horns.

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Subject: Re: A bit of info  
Posted by [wunhuanglo](#) on Sun, 17 Sep 2006 18:52:50 GMT  
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That's why I posted it; on the off-chance somebody may find it significant. It certainly is different than the common understanding. The Visaton horn is 90mm thick O/A; by eye the height of the vanes looks at least 25mm.  
Visaton 300 Horn

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Subject: Re: Smith Horn Group Build - Status please  
Posted by [Scholl](#) on Sun, 14 Jan 2007 13:23:03 GMT  
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Is this build going forward. I'd be interested in a pair. Smith Horns look good for MTM type designs. Thanks, Scott Scholl

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