Subject: Re: pi seven top horns?
Posted by Wayne Parham on Wed, 05 Jan 2011 15:41:07 GMT
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Maybe you misunderstood. What I have said is that wood is aesthetically pleasant, but that I do not think the wood is necessarily better for acoustics, just better looking.

Wood can be machined, so the CNC/wood approach is perfectly suitable for small quantities. You probably wouldn't make a mold for a few dozen horns.

Essentially, as long as the material is non-resonant, I'm not real concerned with it as far as acoustics are concerned.

But the horn profile has a LOT to do with sound quality. The shape of my wood tweeter horn/waveguide is exactly what I want from a horn. It provides constant directivity and doesn't have any internal sharp edges that would cause discontinuity.

In the following document, there's a little more information about what makes a good horn shape for constant-directivity when sound quality is as important as coverage:
High-Fidelity Uniform-Directivity Loudspeakers