Subject: Re: Motors
Posted by Wayne Parham on Sat, 05 Jul 2003 11:31:29 GMT
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You've got the deal about Q. And you've made the connection how back-EMF and amplifier characteristics come into play too. But there are a handful of applications where a high Q motors are well suited. Use as dipoles or in infinite baffles or very large chambers are examples.The alignment of a bass-reflex speaker cabinet sets a handful of significant frequencies to obtain a desirable overall response curve. The resonant frequency of the cone is shifted by the stiffness of the box. The box itself is another tuned system. And the interaction of these two tuned systems being so tightly coupled gives rise to two other significant frequencies, fl and fh. There's more about this in the post called "Behaviour of vented loudspeaker systems."