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Subject: Ping Hurdy-Gurdy

Posted by [Manualblock](#) on Wed, 10 Aug 2005 18:24:52 GMT

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I am unable to link to the thesis defining the differences between S-Shaped and Straight line Tonearms. I can give you the very short story and if it is interesting I can follow up with the math and theory. The inertia of the effective mass at the stylus tip is the least value with a straight arm, given by the equation detailing the moment of inertia of the pickup arm and counterbalance about the axis of rotation, (the arm pivot), divided by the square of the effective arm length. In other words a straight arm will have less inertia present at the stylus tip and therefore should provide a less wearing less distorted output. If you do a search of tonearm geometry there are several sites that do an in-depth analysis of this behaviour. Try Baerwald; there is a good pdf. file dictating some of his work on the tangency of pivoted arms.

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