



This diagram is quite important as it demonstrates the relationship between the magnitude of bias force and radius from the spindle....a dimension we often refer to as 'Stylus Overhang'.

We have already ascertained there is no bias force in the centre of rotation so can conclude that bias force is directly proportional to the distance from the record centre.

The greater the overhang, the stronger the skating force.

Helius is well known for specialising in 10" arms - it allows a shorter-than-normal overhang, and therefore, reduced skating force.

The 12" arm improves this geometry further but, as with all things in life, you don't get something for nothing - and the higher inertia of the longer arm means you face more significant trade-offs.