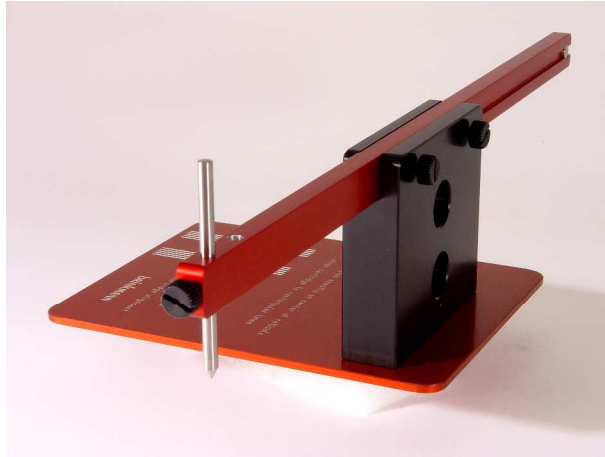


Tonearm Protractor



One of the most important things in playing records is the correct alignment of the cartridge in the headshell of the tonearm. The next – or better – same importance is the geometrics of the tonearm itself.

For most customers and even some dealers this is something more they can handle. There have been many efforts to solve this problem and many protractors have been made, but only very few handle this matter with ease in short time and with first class results.

That's why we introduce an own solution for aligning tonearms as well as cartridges.

Our protractor (see photos) follows the IEC rules and refers to the inner null point, where the tracking angle is zero. It is placed on the spindle and the red bar is fixed on the pivot with the help of the vertical needle at its end.

There had been a similar protractor under the name of Dennesen, which is no more available. The special thing with our protractor is its precision. It is made by precision machinery and the relevant details like the reticule, the hole for the spindle and the gap where the top bar runs, are milled in one run without taking the protractor from the milling machine.

This means, its geometry is within the precision of the machinery, which is less than $1/100^{\text{th}}$ of a millimeter. The rest is how careful you use it ; magnifying glasses and bright light are recommended.

By this and the easy way of handling, you mount and align your cartridge in any tonearm within a few minutes. The results are as good as long listening sessions or even better.

The protractor even helps for aligning the tonearm on your turntable. With your cartridge mounted you can easily find the best pivot to spindle distance by simply rotating the arm base of your turntable. That makes sense in the many cases when the distance from stylus to mounting holes of your cartridge need readjustment of the effective length of your tonearm.

The protractor is made from hard aluminium, red anodized and laser-engraved, a solid and rugged construction and will give you service a lifetime.

