

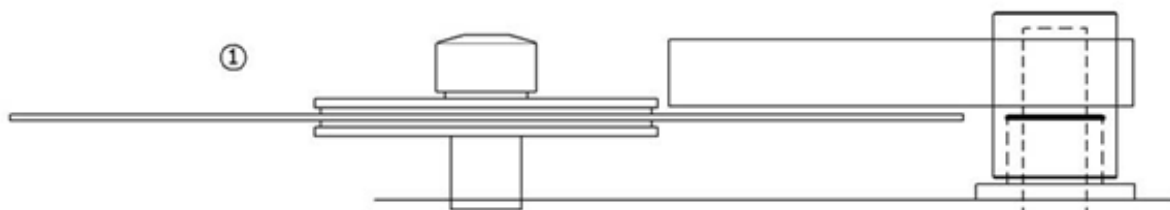


Vinyl Cleaners

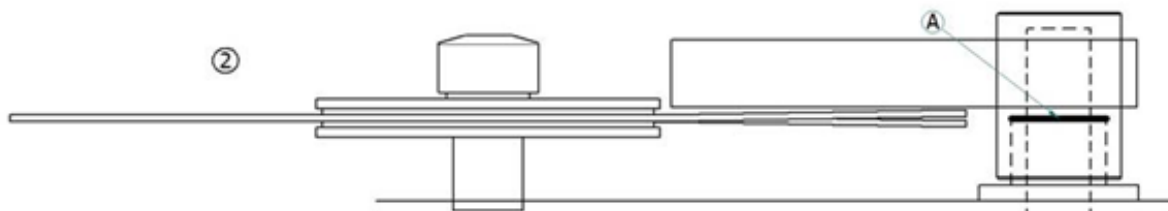
Techinfo on Bearing Clearance

This document explains, why we need a bearing clearance on the VC machines. In the past we have received feedback from distributors and dealers claiming the cleaning arm and the platter bearing „move too much“ or „have to much play“, all around they seem to wiggle a lot. Customers and dealers complained about those „loose“ parts and thought it was a defect in their machine or even a design flaw. In fact, this design ensures that all vinyl-records, especially warped ones, are cleaned to their full potential.

If we try to clean a perfectly flat record, the bearing clearance we have designed brings no added benefit. The record is held next to the velvet strips and it freely slips on their surface to rotate (as shown in diagram 1).



However, if a record is warped when the vacuum arm is firmly stuck to the flange (see Point A in diagram 2) and the platter axle has no clearance, then the warped record is "Straightened" by the vacuum arm. This raises friction, but also means the vacuum arm may struggle to hold the record against the felt strips. The result is a bad cleaning process, leaving wet traces on the record.



A slightly bigger clearance in the platter bearing allows the VC machine to off-set its main axle for better handling of warped records. The "play" in the platter means the VC can better equalize warped records as they pass underneath the vacuum arm, therefore decreasing friction and ensuring complete record cleaning (as shown in diagram 3 and 4).

