

## NEW UNIQUE VINYL MASTERING

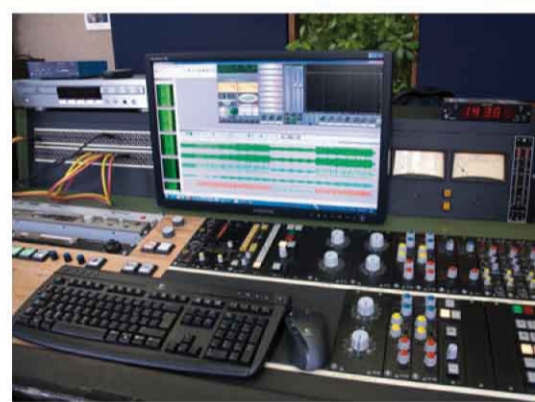
Direct two-way communication between the computer and the cutting lathe!

Optimal utilization of your vinyl record!

Mechanical values and groove geometric size indicators!

Virtual mastering with the results visualisation!

But most importantly! **FEEDBACK RECORDING!**



Our customers already know that vinyl isn't standing still at GZ. Development is a natural part of our work in this field.

New mastering of vinyl records using modified NEUMANN cutting lathe, a top-quality PrismSound converter and a specially developed computer application which provides a modulation and control signal, sets all cutting parameters and monitors the equipment for immediate as well as subsequent analysis.

The possibilities presented by this combination can be compared to the transition from taking photographs on film to using digital photography. Before pressing the shutter-release on a camera you usually have to set various mutually-opposing parameters (aperture, shutter-speed, sensitivity, focus, etc.). If these are set correctly the result is a nice sharp picture. Incorrect setting leads to blurred, dark or over-exposed shots. In the case of photos on film the result of the process is known for sure after the film is developed and the prints are made. The electronics of a digital camera are able to evaluate a scene according to a given setting and show the result on the display. Before the shutter-release is pressed the camera warns us that the result will probably not be good.



The new vinyl mastering is based on a similar principle. Prior to mastering is started, a computer application analyses the audio data and creates a virtual groove in the computer's memory in the same way as the cutting lathe. It is therefore possible to know in advance the space required and all critical passages which cannot be recorded or later played back without distinct distortion. The computer application also allows the original signal to be adapted to remove only the undesirable elements of the signal which are causing the distortion.

Setting the recording parameters and correcting the signal usually means a compromise between loudness and distortion. The new method of mastering enables the optimal utilization of vinyl recording to its theoretical limit in minimizing the audible difference between the original and the master.

**AT GZ WE KNOW THAT YOU DESERVE BETTER QUALITY SOUND THAN EVER BEFORE, AND YOU'LL HAVE IT!**

If you have any technical queries you can contact our experts at [vinyl@gzdm.cz](mailto:vinyl@gzdm.cz)