

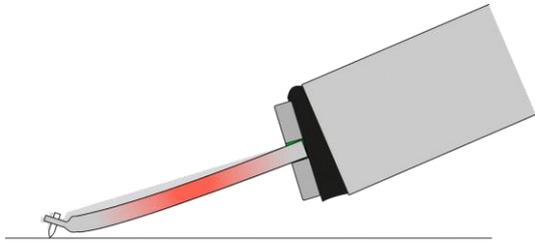


*X*quisite

WHITE PAPER

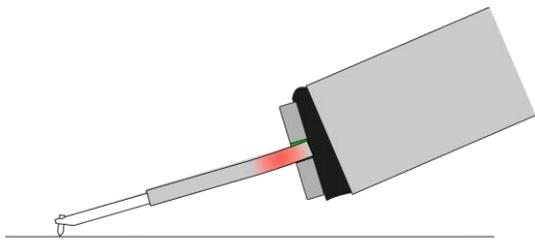
www.x-quisite.ch

X-quisite Technology



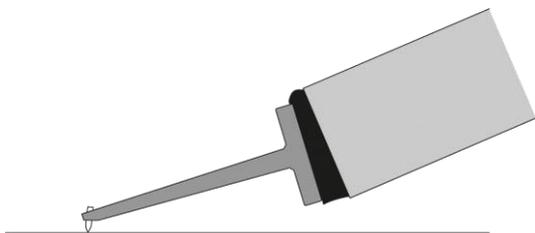
Traditional transducer with aluminium cantilever

The diamond tip is fixed to a cantilever made of aluminium. Since aluminium is a relatively soft material, the high-dynamic tracking process causes deformation of the cantilever and therefore distortion of the signal. Moreover, there is a joint between cantilever and coil body, which, due to lever action, carries the highest dynamical load of the transducer and cannot pass on the movement without loss.



High-end transducer with boron or sapphire cantilever

The cantilever is fully or partly made of boron, sapphire or even diamond. Thus, vibration of the cantilever itself is minimized. But the joint between cantilever and coil body is even harder loaded, and this weak point impairs the quality of the signal transmission.



X-quisite transducer with patented monobloc-ceramic technology

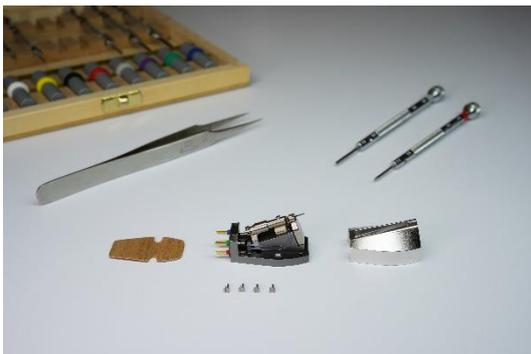
Cantilever and coil body are made of a single high-strength ceramic piece. Accordingly, there is no more joint at the point of the highest dynamic load, and the music signal is transmitted absolutely pure from the diamond tip to the coil body. X-quisite allows supreme detail resolution and at the same time an extremely natural sound.

X-quisite Design



Body

The body is milled out of a massive block and its material is sonically carefully matched to the characteristic of the different models. Between tonearm and cartridge, a carefully matched wooden inlay balances the resonance-properties of the contact area.



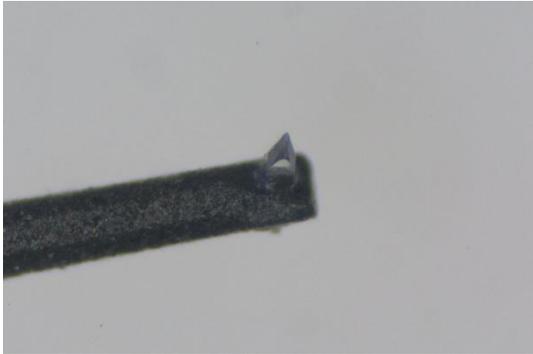
Structure

The ironless coil-design of the X-quisite transducer requires a strong magnet circuit in order to achieve reasonable output voltage. It took us many prototype setups and listening sessions before we found the perfect solution to be a Neodym-Armco combination with special measures to reduce eddy current loss to an absolute minimum. The generator is entirely built into an aluminium-holder, ensuring the mechanical energy-flow between tonearm and transducer to be as direct as possible.



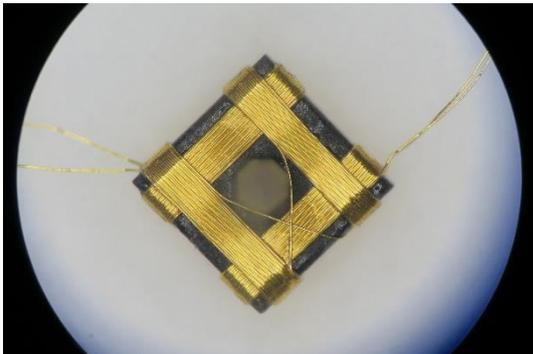
Monobloc-transducer

By combining various modern production methods, we found a way in producing smallest ceramic parts precisely and exactly according our preferences. By designing the cantilever itself partly hollow and with octagonal cross section, we achieve extreme high rigidity for the entire cantilever/coil-body unit.



Diamond

The micro-ridge diamond is exactly fitted into a cross hole of the cantilever and fixed with tiny quantities of a technical adhesive. Overall, the moving mass at the tracking point is with 0,8mg very low for an MC design.



Coil

The coil material – copper, silver or gold with high purity grade - defines the tonal characteristic of the different X-quisite models. The winding technology is specifically adapted to the ceramic coil-body.