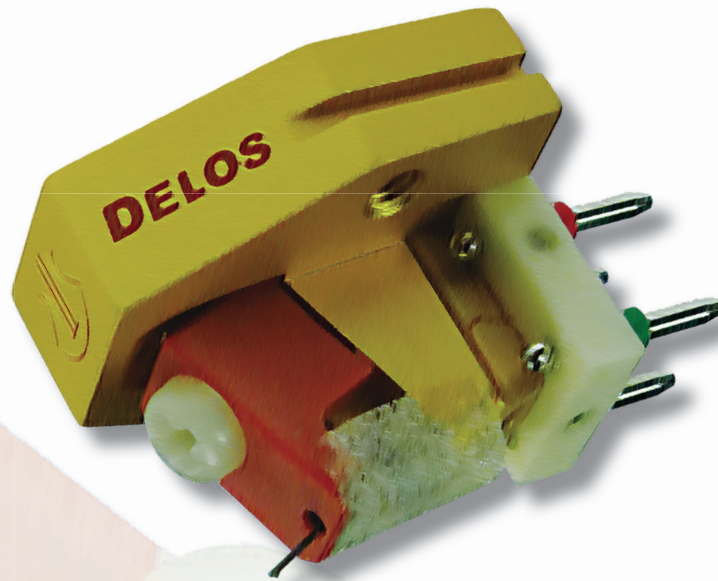




Lyra

December 2009 / Delos MC Phono Cartridge



The 'Argo i' is without doubt, one of the best selling cartridges that Lyra has ever made and now comes its replacement - the 'Delos'.

Some very clever engineering has gone into the 'Delos' to produce an MC cartridge that delivers greater performance over its predecessor while still retaining great value for money.

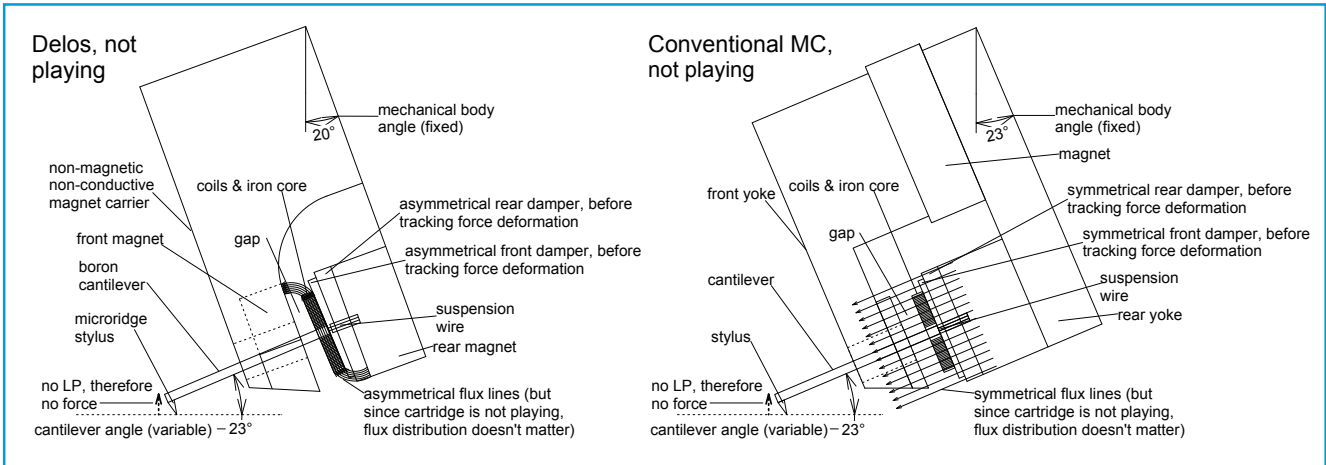
**Read on
to discover why...**

An analog LP played back with an MC cartridge can sound exceptionally good. Yet, it is a surprising fact that the design of conventional MCs restricts the sound quality that can be achieved from LPs.

The problem

A major problem with most cartridges is that the signal coils are located so that applying normal tracking force restricts performance.

The reason is that the cartridge's signal coils should have the same angle as the magnetic circuit when the tracking force for playback is applied, but are nearly always designed so that applying normal tracking force pushes the signal coils out of alignment with the magnetic circuit. This impairs the sensitivity and linearity of the coils, and reduces the quality of the sound.



Performance is optimal when the angles are all aligned, but any significant difference in the angles will cause the formation of a strong and directional flux that will flow constantly from the magnetic circuit in to the signal core. This directional magnetic flux will orient the core toward a specific direction and make it impossible for the core to move with equal ease in all directions, which is necessary for proper cartridge performance.

Performance limitations

Unfortunately, conventional **MC cartridges** have been designed so that the angles between magnetic circuit, signal coils and core become aligned only when tracking force is not applied. The result is that during playback, the required tracking force causes the angle between magnetic circuit, signal coils and core to become misaligned. **This limits the cartridge's resolution, tracking ability and dynamic range.**

An affordable solution

The **Delos** solves this problem with a **new body structure and pre-angled damping system.**

The **pre-angled dampers** work together with the **angle of the body structure** so that, when tracking force is applied, the **signal coils are optimally aligned** with the magnet circuit.

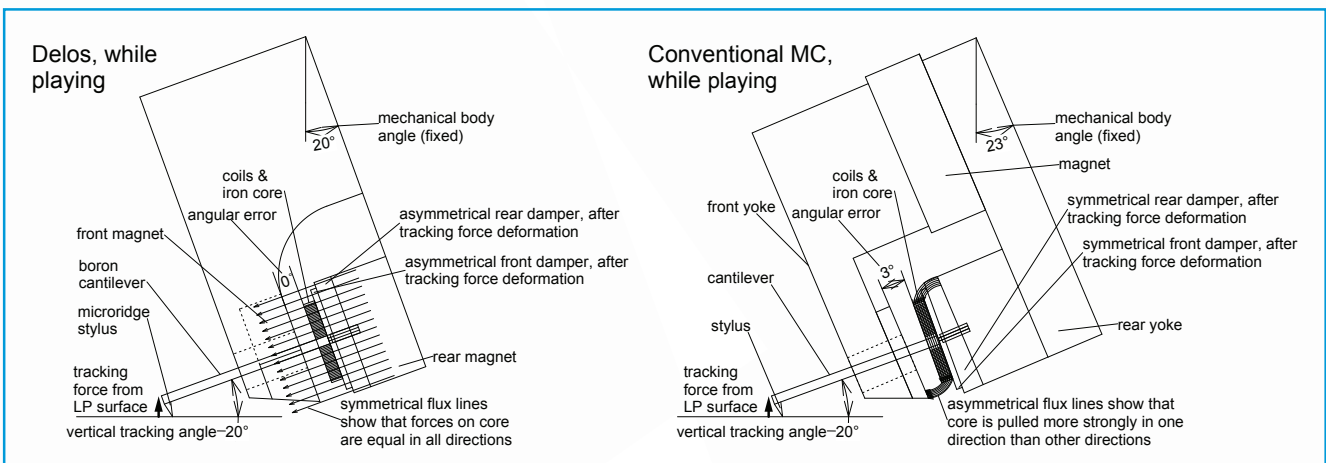
The **Delos** also has a **microridge stylus** for **outstanding tracking**, a **non-parallel solid metal body** for **low resonances**, and **nude construction** for **greater clarity.**

When no tracking force is applied:

The shape of the **asymmetrical dampers** forces the signal coils and core into a more upright angle than the magnetic circuit. However, no tracking force applied means that the cartridge is not operating, and therefore any angular discrepancies between magnetic circuit, signal coils and core **will have no effect on performance.**

When tracking force is applied:

The force of the stylus pushing on the LP causes the **asymmetrical dampers** to be deformed into a **symmetrical shape**, and **when this happens the angular discrepancies between**



magnetic circuit, signal coils and core all disappear. Since tracking force applied means that the cartridge is now operating, it should be clear that the design of the **Delos** is able to keep the angles between the magnetic circuit, signal coils and core aligned during playback.

Keeping the proper angular alignment prevents the formation of any strong and directional flux that could otherwise flow constantly from the magnetic circuit into the signal core, and enables the **Delos'** core to move with equal ease in all directions, for optimal performance.

Engineered to success

The **Delos** also has a **microridge stylus** on a **boron cantilever** for outstanding tracking, a **non-parallel solid machined metal body** for low resonances, and **6N high-purity copper coils** and **nude construction for greater clarity.**

Lyra clearly has a new angle on cartridge design and the results are very impressive. With an increases in performance, especially resolution, dynamic range, transient impact, immediacy and tracking ability, Lyra is certain to use this approach in future cartridge design.

With Lyra Delos it is an exciting time for affordable MC Cartridges and music lovers alike.

To find out more about the complete Lyra range, please contact Nigel Crump at Symmetry.

