





LYRA KLEOS

MC PHONO CARTRIDGE

Introduction

Although many MC cartridges have good performance, their sound is held back by how they are designed. The problem is, the signal coils should have the same angle as the magnetic circuit during playback, but MC cartridges are typically designed so that the opposite happens - applying normal tracking force pushes the coils out of alignment. This impairs coil sensitivity and linearity, and reduces sound quality.

Lyra's "New Angle" technology solves this fundamental problem by compensating for how the signal coils are affected by vertical tracking forces, and optimally aligning the coils when it matters most - during playback. Introduced on Lyra's entry-level Delos, the New Angle technology enables the Delos to perform well above its price-point.

But being audiophiles, Lyra wanted to achieve the next higher level - which is the new Kleos. Building on New Angle technology, the Kleos innovates with a stronger chassis machined from aircraft-grade alloys, narrowed mounting area to improve energy transfer, and pre-stressed construction combining multiple materials with non-parallel surfaces to inhibit internal body resonances

The fully hand-made Kleos also has a Lyra-designed line contact stylus and platinum-plated output pins, achieving an exceptionally quiet noise-floor with superior immediacy, resolution and tracking, wide dynamic range and explosive transients, plus a warmer and natural tonal balance. The Kleos is a high-value cartridge that surpasses the sound quality of substantially more expensive cartridges.

Let the Lyra Kleos show you how good a New Angle on LP reproduction can sound.

Taking a more in-depth look

The Kleos is the lowest cost Lyra cartridge to feature the full fledged Ogura manufactured boron cantilever and coil system with Lyra original line-contact (3 x 70µm) stylus. This is similar to what is employed on even the most expensive Lyra models.

Nevertheless, the most important element of the new Kleos is it's sound. Lyra firmly believe that the Kleos is capable of extracting more information from the vinyl grooves than it's predecessors, and that the reproduction of music is both more dynamic, more detailed, and more natural than the models preceding it.

Lyra also are of the opinion that the Kleos will set a new standard for sonic performance at it's price point.

Far greater than the sum of its parts

Today there are only a small handful of master cartridge builders in the world and Lyra's Yoshinori Mishima is certainly one of them. His assistant Akiko Ishiyama, who has undergone several years of apprenticeship, is also involved in the building process leading to each Kleos.



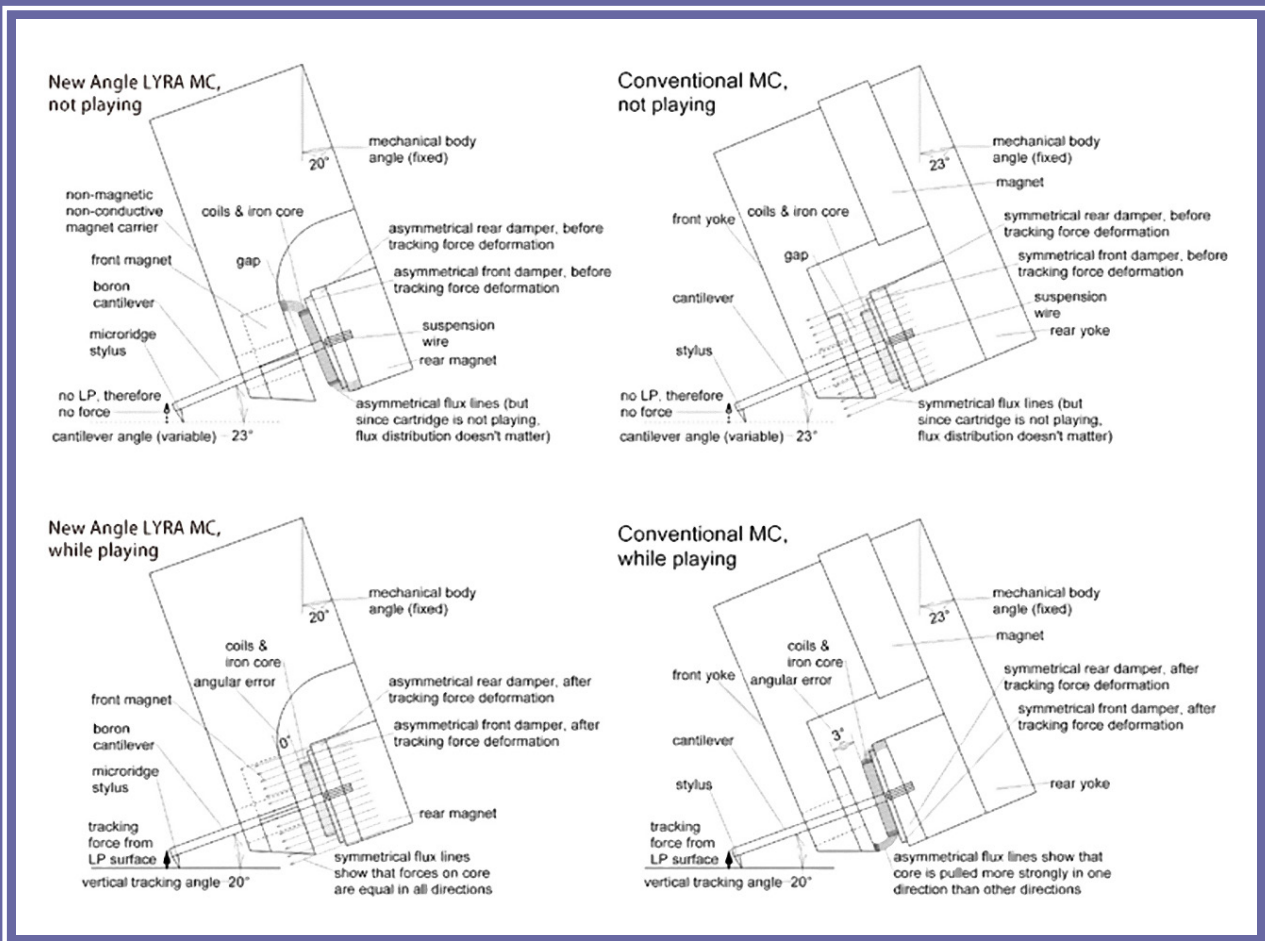
The Kleos is not only hand made, but each cartridge is listened to extensively and "voiced" by the master cartridge builder, like the finest musical instruments.

This is an elite group of individuals that are capable of crafting the highest level MC transducers on the planet. *only involved in the preliminary build of each Delos & Kleos cartridge

Setting a new benchmark in performance

Lyra offers a truly unique combination of advanced cartridge design by Jonathan Carr and expert construction by master cartridge builders Lyra's Yoshinori Mishima and his assistant Akiko Ishiyama*.

Lyra are very proud of the Kleos and when you hear it for yourself, we are sure that you will agree that it sets a new standard in performance vs price.



**MODEL**

Lyra Kleos

DESIGNER

Jonathan Carr

BUILDER

Yoshinori Mishima (final build, testing)
Akiko Ishiyama (preliminary build)

TYPE

Medium weight, medium compliance, low-impedance moving coil cartridge

STYLUS

Lyra-designed long-footprint variable-radius line-contact nude diamond (3um x 70um), slot-mounted

CANTILEVER SYSTEM

Solid boron rod with short one-point wire suspension, directly mounted into cartridge body

COILS

2-layer deep, 6N high-purity copper, square-shaped chemically-purified high-purity iron former, 5.4ohm self-impedance, 9.0uH inductance

OUTPUT VOLTAGE

0.5mV@5cm/sec., zero to peak, 45 degrees (CBS test record, other test records may alter results)

FREQUENCY RANGE

10Hz ~ 50kHz

CHANNEL SEPARATION

35dB or better at 1kHz

COMPLIANCE

Approx. 12x10⁻⁶cm/dyne at 100Hz

VERTICAL TRACKING ANGLE

20 degrees

CARTRIDGE BODY

One-piece machining from solid 7075 alloy billet, with reduced-surface higher-pressure headshell contact area, partially non-parallel shaping, phase-interference resonance-controlling mechanism, and body threaded directly for mounting screws

CARTRIDGE MOUNTING SCREWS

2.6mm 0.45 pitch JIS standard

DISTANCE FROM MOUNTING HOLES TO STYLUS TIP

9.5mm

CARTRIDGE WEIGHT (WITHOUT STYLUS COVER)

8.8g

RECOMMENDED TRACKING FORCE

1.65 ~ 1.75g (1.72g recommended)

RECOMMENDED LOAD DIRECTLY INTO MC PHONO INPUT

95.3ohm ~ 816ohm (determine by listening, or follow detailed guidelines in user manual)

RECOMMENDED LOAD VIA STEP-UP TRANSFORMER

5 ~ 15ohm (step-up transformer's output must be connected to 10kohm ~ 47kohm MM-level RIAA input, preferably via short, low-capacitance cable)

RECOMMENDED TONEARMS

High-quality pivoted or linear tangential tonearms with rigid bearing(s), adjustable anti-skating force, preferably VTA





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