

G O L D R I N G

E S T A B L I S H E D 1 9 0 6

Goldring's new E4 cartridge is the single most cost-effective upgrade owners of budget or midrange turntables will ever make



May 11th 2023, World-famous analogue audio specialist [Goldring](#) introduces its new flagship [E Series](#) moving magnet cartridge: **E4**. Designed as the ultimate upgrade for any modern budget or midrange turntable, E4 represents the pinnacle of E Series engineering and performance.

E4 is designed to be compatible with all medium-to-high-mass tonearms of the type found on the majority of budget to midrange turntables. And because it's constructed using the same high-quality core as the other E Series cartridges in the range, E4 is ideal both for those who wish to upgrade an obsolete cartridge in its entirety or those who want to boost the performance of their existing E Series cartridge by replacing the stylus.

Key features at a glance

- New **super-elliptical nude diamond stylus** features lower effective tip mass, improved rigidity and better high frequency detail retrieval than 'bonded' elliptical alternatives.
- The lightweight and superior stiffness of the **hollow aluminium cantilever** allows the stylus to trace medium-to-high frequencies with greater accuracy.
- **Magnetic Duplex Technology™** allows a more accurate transcription of the stereo groove which results in a more accurate soundstage.
- **Expert adjustment facility:** Unlike most designs, E4 allows micro-adjustments to be made during the production process, ensuring each cartridge leaves the Goldring factory with optimised channel balance and crosstalk settings.



New super-elliptical nude diamond stylus

The E4 features a 'nude' super-elliptical stylus of just 7.6 x 18 microns (0.3 x 0.7 mil), cut and polished from a single homogeneous piece of diamond. This makes for a lower effective tip mass of improved rigidity, which in turn means its ability to retrieve high-frequency detail is dramatically improved when compared to the 'bonded' elliptical stylus alternative. It's far less likely to 'mis-track' or overshoot when tracing high-frequency groove modulations, and because of its finely polished 7.6-micron profile it can more effectively fit into closely packed inner grooves. Lower distortion, improved transient response and a flat frequency response all contribute to superior fidelity when compared to any price-comparable alternative.

Hollow aluminium cantilever

To complement its low tip-mass stylus, the E4 features a hollow aluminium cantilever tube. The light weight and superior stiffness of the material allows the stylus to trace medium-to-high frequencies with greater accuracy, while simultaneously reducing distortion and mis-tracking.

Magnetic Duplex Technology™

Stereo information is contained in a single 'V'-shaped groove that has perpendicular sidewalls angled at 45 degrees. Conventional cartridges, which use a single large magnet interacting with two vertically mounted coils (one for left-channel information, one for right) to extract a stereo signal from the groove, can permit high levels of crosstalk - and consequently only a modest amount of left- and right-channel separation. E4 uses Goldring's Magnetic Duplex Technology™ that positions two low-mass magnets at the same angles as the coils - so each magnet interacts only with its partnering coil. This allows the E4 to transcribe the information in the groove more accurately, and results in greater stereo separation and a more accurate soundstage.



Expert adjustment facility

'Azimuth' describes the angle that the vertical centre line of the stylus makes with the record's surface - it must be exactly perpendicular to the groove. Owners of budget and midrange turntables usually have no facility to adjust the azimuth, so it's vital the cartridge has been precisely adjusted before it's fitted to the turntable's tonearm - badly adjusted azimuth can cause increased crosstalk and uneven channel balance. E4 is designed to allow micro-adjustments to be made during the production process, ensuring each cartridge leaves the Goldring factory needing no further azimuth adjustment.

The Goldring E4 moving magnet cartridge is available in June/July priced £199 / €259 / \$299

The Goldring E4 stylus is available in June/July priced £145.00 / €185.00 / \$275

The Goldring E4 cartridge will be on show at the High End Show 2023 in Munich (18th - 21st May) in room A (Atrium) 4.1, F110.

To buy the Goldring E4 moving magnet cartridge and discover other Goldring products please visit www.goldring.co.uk (UK) www.goldringusa.com (US)

The Goldring E4 joins the E-Series family of moving magnet cartridges, including the [E1](#), [E2](#) and [E3](#).

Specifications

Frequency Range	20 Hz – 20 kHz
Channel Balance	< 1.5 dB @ 1 kHz
Channel Separation	> 20 dB @ 1 kHz
Sensitivity	3.5 mV (1 kHz @ 5 cm/s)
Static Compliance	20 mm/N

Vertical Tracking Angle	20°
Stylus Radius	7.6 micron (0.3 x 0.7 mil)
Stylus Type	Nude elliptical
Load Resistance	47 kΩ
Load Capacitance	100 – 200 pF
Internal Inductance	400 mH
Internal Resistance	410 Ω
Cartridge Mass	6.9 g
Fixing Centre	12.7 mm (0.5 in)
Playing Weight	1.5 – 2.5 g (1.75 g recommended)

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About Goldring

The Goldring story began in 1906 with the supply of steel needles, springs and clockwork motors to the gramophone industry. Products were marked with a golden ring to indicate high quality of design and manufacture.

In 1926 Goldring introduced the Jewel Electro, arguably the most advanced gramophone soundbox of its day. During the decades following the war, as home hi-fi became a reality, Goldring was always at the forefront of innovation. The brand quickly became the industry standard for electro-magnetic pickups, with its 500 series cartridge becoming widely used throughout the broadcasting industry.

Today, Goldring continues to defy industry norms by producing high performance, premium quality, British-designed products for the specialist cartridge and turntable market.

More at www.goldring.co.uk