

A MONO

Moving Coil Cartridge



The Ortofon Exclusives series of our highest-performing Moving Coil cartridges has now been expanded to include the brand new MC A MONO - a TRUE MONO cartridge for play-back of MONO recordings

HIGH-END MATERIALS AND ADVANCEMENTS IN TECHNOLOGIES

The housing of the cartridge is made in Titanium with the **Selective Laser Melting manufacturing technique (SLM)**. The SLM process welds fine particles of Titanium together, layer-by-layer, to construct a single piece body devoid of extraneous material. This technique allows for precise control of the density of the body material, allowing for extremely high internal damping. The final result provides freedom over vibrations within the cartridge body material.

The use of **Titanium** has provided a further improvement to the internal damping capabilities as well as to the overall rigidity of the structure.



Using Ortofon's **Aucurum coils of gold-plated, 6NX oxygen free copper** allows for zero-loss transmission of the diamond's movements via its boron cantilever. This combination combines low moving mass with an extremely high degree of rigidity.

A specially designed armature is used to achieve extreme precision in each coil turn in all layers. This enables the MC A MONO to achieve a higher degree of channel separation, while simultaneously offering lower distortion and better channel balance. The armature is made in a metal alloy which is much less magnetic than normal iron, which boosts the dynamic capability of the cartridge.

Coil wire protection has been made from our special high damping proprietary Thermo-Plastic Elastomer (TPE) material, which enhances the total damping properties of the cartridge.

One of the preconditions for linear reproduction with a wide frequency range and optimal tracking performance is a diamond - the shape of which is as close as possible to the original cutting stylus. The MC A MONO makes use of Ortofon's **Replicant 100 diamond**, known for

its thin and light profile and extraordinarily large contact surface. Special polishing of the diamond along with the use of a **Boron cantilever** offer remarkable transparency, speed, and responsiveness beyond that of any other combination.

The magnet system is based on an extremely strong **Neodymium magnet**, which makes the generator system both compact and lighter through its minimal dimensions.

Any trace of remaining magnetic influences that would create distortion is prevented by the use of a **Field Stabilizing Element (FSE)**. Ortofon's FSE, a small cylinder of conductive material strategically placed inside the magnet system, guarantees that the force field remains stable regardless of the movement of the armature. FSE improves the channel separation, while at the same time minimizing dynamic distortion and intermodulation.

Adding to the list of important components is Ortofon's **Wide Range Damping (WRD)** system. In this system, a small, heavy platinum disc is sandwiched between two rubber absorbers, both with different properties. This ensures not only an exceptional tracking performance, but also creates a perfect damping through the entire frequency spectrum. Because of this, distortion and resonance are virtually eliminated entirely.

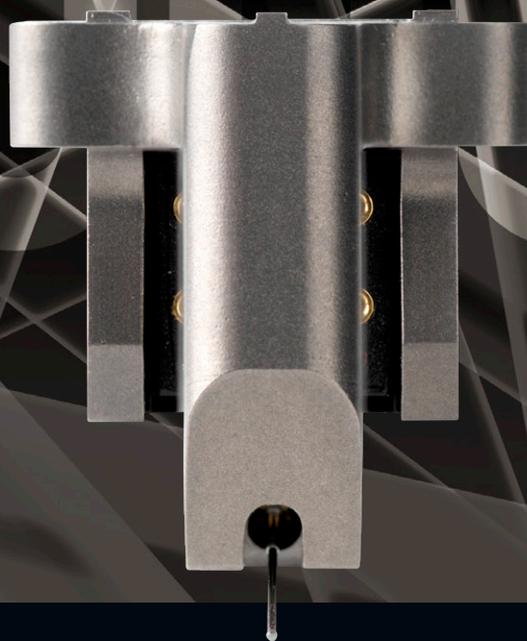
PERFORMANCE WITH A RANGE OF COMPATIBILITY

With optimal weight and compliance to suit the vast majority of modern tonearms, the MC A MONO is easily compatible with a seemingly endless array of modern high-end turntable equipment. Low internal impedance makes the MC A MONO less sensitive to load and therefore ensures compatibility with the Ortofon ST-80 SE transformer, as well as with the widest range of preamps and transformers.



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TECHNICAL DATA

Output voltage at 1,000 Hz, 5 cm/sec.	0.2 mV
Frequency range at -3 dB	10 Hz – 50 kHz
Frequency response	20 Hz – 20 kHz +2 dB/-1 dB
Tracking ability at 315 Hz at recommended tracking force	90 μ m
Compliance, dynamic, lateral	13 μ m/mN
Stylus type	Special polished Nude Ortofon Replicant 100
Cantilever material	Boron
Stylus tip radius	r/R 5/100 μ m
Tracking force range	2.0 – 2.5 g (20 – 25 mN)
Tracking force, recommended	2.3 g (23 mN)
Tracking angle	23°
Internal impedance, DC resistance	7 Ohm
Recommended load impedance	> 10 Ohm
Coil wire material	Aurum, gold-plated, 6NX oxygen free copper
Cartridge body material	SLM Titanium
Cartridge colour	Silver
Cartridge weight	6 g

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