

# MC Verismo

Exclusive Moving Coil Cartridge



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The name Verismo is derived from the Italian “vero”, meaning “true” and is the Italian for “realism”. Verismo was a post-Romantic operatic genre, that had its origins in an Italian literary movement in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries. Verismo’s operatic tradition is associated with Italian composers such as Pietro Mascagni, Ruggero Leoncavallo, Umberto Giordano, Francesco Cilea and Giacomo Puccini, who sought to portray the world with greater realism.

At Ortofon, our ultimate purpose is to continually raise the bar for true, faithful and accurate reproduction of the recorded sound. It is to provide the ultimate musical experience through a mixture of innovation and technical expertise, creating unique value for all listeners by allowing them to reveal music’s true inner emotions.

We believe that our legacy is best preserved and strengthened by the development of exciting new products that keeps Ortofon viable for the future.



### Flexibility and performance with a range of compatibility

Historically, Ortofon has always followed its own path with regard to the mechanical design of the cartridge housing, because mechanical rigidity and total freedom from unwanted vibrations in the audible range are a precondition for optimal sound quality.

In the MC Verismo the cartridge’s contact with the tonearm takes place through three well-defined contact points placed on the top side of the cartridge. This means that the mechanical integration of the cartridge and the tonearm is always absolutely perfect and will result in a significant and breathtaking increase in dynamics, resolution, and richness in detail.

With optimized weight and moderate compliance to suit the majority of modern tonearms, the MC Verismo is easily compatible with an endless array of contemporary high-end turntable equipment.

A low internal impedance of 7 ohm and a low output voltage of 0.2 mV makes the Ortofon MC Verismo a perfect partner for most MC pre-amps as well as step-up transformers, including the Ortofon ST-80 SE.

When combined with Ortofon’s world-class knowledge in analogue sound reproduction, the MC Verismo will undoubtedly provide sound which simply has to be experienced.

### The Ortofon Exclusives Series of our highest performing Moving Coil cartridges has now been expanded to include a new premier model – the MC Verismo

The Ortofon Exclusives series cartridges are widely acknowledged as being some of the best Moving Coil cartridges on the market, and we are continuously working on expanding the Exclusives range to offer music lovers even more opportunities to experience the supreme quality, precision, impact and dynamics that a high-end reference cartridge conveys.

The MC Verismo model has been developed based on our extensive knowledge of vibration properties, different shapes and materials characteristics, as well as competences in magnetism, mechanical design and technologies. This new state-of-the-art product, representative of numerous Ortofon design ideals, is truly exemplary of the highest degree of performance possible in contemporary analogue playback technology.

### Design elements, high-end materials and technological prowess

The housing of the Verismo cartridge is made in Titanium with the **Selective Laser Melting (SLM) technique**. The SLM technique was pioneered by Ortofon in 2008 for manufacturing of the MC A90 and the SPU A90 Anniversary cartridges, and since then was refined in subsequent Exclusive Series models. The

SLM technology and high precision process eschews traditional techniques: considered an engineering breakthrough, 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.

Consistent **use of Titanium** in the Exclusives cartridges has provided a further improvement to the overall rigidity of the structures, the cartridges’ weight and their dynamic capability. For the brand new MC Verismo, this also allows this cartridge to be perfectly matched with an extremely wide array of different tonearms. Because of the nature of SLM-based construction, each cartridge body is cosmetically unique and will show small dimples or lines under close examination.

As in all Exclusives series cartridges, the MC Verismo makes use of **Ortofon’s Replicant 100 diamond**. This Line Contact type stylus distinguishes itself by having a narrow and long contact surface, which is as close as possible to the original cutting stylus. This ensures the most accurate reproduction, lowest distortion and extended frequency range.

The addition of a solid **Diamond cantilever** provides the best possible interface between the stylus and armature, owing to its hardness and crystal structure. The improvements found in the use of a Diamond cantilever have redefined the boundaries of analogue

reproduction, presenting greater inner detail, subtlety, and depth like never before.

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

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

Much like its predecessors, the MC A95 and the MC Windfeld Ti, the MC Verismo employs **the special designed armature** comprised of a metal alloy which is less magnetic than normal iron. This provides noteworthy benefit to the dynamic capabilities of the cartridge. The reason for this is that our high-tech armature has almost no influence on the magnetic field during movement. Moreover it allows to achieve extreme precision in each coil turn in all layers. This enables the MC Verismo to obtain a higher degree of channel separation, while simultaneously offering lower distortion and better channel balance.

### Increase in dynamics, resolution and richness in detail

Ortofon’s **Field Stabilizing Element (FSE)**, a small cylinder of conductive material strategically placed inside the magnet system,

guarantees that the magnetic 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. The result: fantastic dynamics and even more elbow room between the musicians. You simply experience greater breadth, height and depth in the sound scenario between the high-end system’s loudspeakers!

One of the important components is Ortofon’s patented **Wide Range Damping system (WRD)**, in which 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 range. Because of this, distortion and resonance are virtually eliminated.

To attain an optimal interaction between compliance and damping, a newly developed **rubber compound for the suspension system** has been used. The new rubber compound formula based on the Multi Wall Carbon Nano Tubes (MWCNT) highly efficient nano filler. The MWCNT-based compound offers desirable mechanical properties, which ensure better damping and improve the overall performance of the cartridge.



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## Technical Data

Output voltage at 1 kHz, 5cm/sec.	0.2 mV
Channel balance at 1 kHz	0.5 dB
Channel separation at 1 kHz	25 dB
Channel separation at 15 kHz	20 dB
Frequency response	20 Hz – 20 kHz +2/-1 dB
Tracking ability at 315 Hz at recommended tracking force	80 $\mu$ m
Compliance, dynamic, lateral	13 $\mu$ m/mN
Stylus type	Special polished Nude Ortofon Replicant 100 on Diamond cantilever
Stylus tip radius	r/R 5/100 $\mu$ m
Tracking force, recommended	2.6 g (26 mN)
Tracking angle	23°
Internal impedance, DC resistance	7 Ohm
Recommended load impedance	10 Ohm
Coil wire material	Aucurum, gold-plated, 6NX oxygen free copper
Cartridge body material	SLM Titanium
Cartridge colour	Silver
Cartridge weight	9.5 g