



ortofon

INTRODUCING THE MC DIAMOND:

# A Masterpiece Phonograph Cartridge





# MC *Diamond*

The MC Diamond delivers the state-of-the-art technology, unmatched performance, and unparalleled accuracy you expect from our greatest phonograph cartridge ever made. But it also provides an entirely new level of experience for audiophiles.

In the words of Leif Johannsen, Ortofon's Chief Officer of Acoustics and Research, "this is recorded music like you've never heard it before—the most authentic vinyl experience in the world"

Featuring a titanium body, optimized magnet system, diamond cantilever and stylus, and a new rubber suspension, the MC Diamond is not just another high-end product upgrade, it is the highest-quality, best performing phonograph cartridge we have ever made.

The MC Diamond from Ortofon:  
The most accurate sound in the world.  
The most authentic experience in music.



# Our Quest for Accuracy and Authenticity


For more than a century, Ortofon has been on a quest for accuracy in sound and authenticity of experience.

Driven by our core passions for engineering, innovation, and craftsmanship, everything we do is rooted in a desire to create the world's best phonograph cartridges, so that you can do more than just listen to the music you love. At Ortofon, we want you to feel the music.

Every instrument.  
Every voice.  
Every note.

All of it.

Leif Johannsen,  
**Ortofon's Chief Officer Acoustics and Research**



Nothing added. Nothing taken away.  
Simply the most **AUTHENTIC** vinyl experience in the world.



## Cartridge Body

The cartridge body of the MC Diamond is made of titanium using our custom Selective Laser Melting (SLM) technique. This technique allows for precise control of the cartridge body density, which provides extremely high internal damping, and results in a significant reduction in vibrations and enhanced sound quality.

## Magnet System

The MC Diamond's magnet system combines choice materials, optimized geometry, and unrivaled consistency that deliver unmatched performance. Together with the non-magnetic armature, the result is vivid, highly-accurate audio reproductions defined by nearly boundless dimensionality.

## Stylus

The MC Diamond features the Ortofon Replicant 100, a line contact diamond stylus. The Replicant 100 distinguishes itself by having a long and narrow contact surface which closely replicates the original factory cut and provides tracing accuracy unparalleled by any other phonograph cartridge in existence.

## Diamond Cantilever

The MC Diamond uses a solid Diamond Cantilever that, in combination with Ortofon Replicant 100 diamond, offers extreme transparency, speed, and responsiveness beyond any other combination.



## Newly Enhanced Rubber Suspension

For the new MC Diamond cartridge, the Ortofon Wide Range Damping System (WRD) has been re-engineered to include an enhanced rubber suspension, specially developed in-house to ensure exceptional tracking and virtually eliminates distortion and resonance. This feature allows for optimal interaction between compliance and damping, improved stability and playback, and unparalleled sound quality. Created using a new rubber compound that utilizes Multi Wall Carbon Nanotube technology (MWCNT), this new rubber suspension provides improved damping and enhances the overall performance of the MC Diamond cartridge.

# A Century of Accuracy in Sound

On the 9th of October 1918, the two Danish engineers, Axel Petersen (1887-1971) and Arnold Poulsen (1889-1952) founded the Electrical Phono Film Company with a few capable and foresighted businessmen who would support the organization financially. Their aim was to explore the possibility of high-class recording and developing one of the first synchronized sound film systems in the world. Under primitive conditions, the two Danish engineers and their small staff had to solve a number of what were considered insuperable problems. Today Ortofon is a micro-mechanical powerhouse, which develops, manufactures and markets the world acclaimed Ortofon phono cartridges and components for the Hearing Aids industry.

We benefit from being established in Denmark, a country recognized for its strong tradition in acoustics and its wealth of other high-end manufacturers, who make hearing aids and acoustic measurement equipment, in addition to all aspects of high-end audio. Ortofon is owned by Danish businessmen and employs a staff of about 150 people. The Ortofon manufacturing unit in Nakskov in the south of Denmark has modern machinery combined with experienced operators, so human craftsmanship is delivered with uniform industrial quality.

Technical Data	MC Diamond
Output voltage at 1000 Hz, 5cm/sec.	0.2 mV
Output voltage at 1000 Hz, 5cm/sec.	0.5 dB
Channel separation at 1 kHz	25 dB
Channel separation at 15 kHz	20 dB
Frequency Response 20 Hz – 20 kHz	+/- 2 dB
Tracking ability at 315Hz at recommended tracking force	80 $\mu$ m
Compliance, dynamic, lateral	11 $\mu$ m/mN
Stylus type	Special polished Nude Ortofon Replicant 100 on Diamond cantilever
Stylus tip radius	r/R 5/100 $\mu$ m
Tracking force range	2.5 – 2.8 g
Tracking force, recommended	2.6 g
Tracking angle	23°
Internal impedance, DC resistance	6 $\Omega$
Recommended load impedance	>10 $\Omega$
Cartridge body material	SLM Titanium
Cartridge colour	Silver/Black
Cartridge weight	17.5 g

Experience  
authentic.

ortofon  
accuracy in sound