

Xpression

Moving Coil Cartridges



Technical Data

Output voltage at 1 kHz, 5 cm/sec.	0.3 mV
Channel balance at 1 kHz	< 0.2 dB
Channel separation at 1 kHz	> 28 dB
Channel separation at 15 kHz	> 22 dB
Frequency range at -3 dB	10 - 60 kHz
Frequency response	20 Hz - 20 kHz +0.5 -1.5 dB
Tracking ability at 315 Hz at recommended tracking force	90 μ m
Compliance, dynamic, lateral	11 μ m/mN
Stylus type	Special polished Nude Ortofon Replicant 100 on boron cantilever
Stylus tip radius	r/R 5/100 μ m
Tracking force range	2.3 - 2.8 g (23-28 mN)
Tracking force, recommended	2.6 g (26 mN)
Tracking angle	23°
Internal impedance, DC resistance	4 Ohm
Recommended load impedance	> 10 Ohm
Cartridge body material	SLM Stainless Steel and Special proprietary TPE-compound
Cartridge colour	Black
Cartridge weight	28 g

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Introduction

The Ortofon Xpression is a modern High-End cartridge with a standard headshell connector. The state of the art product, the Ortofon Expression represents a combination of three following elements very characteristic for Ortofon:

- the cutting edge SLM materials technology pioneered by the MC A90 and SPU 90th Anniversary products
- modification of the generator system introduced with the MC A90 and the MC Windfeld
- Ortofon design tradition

The Xpression cartridge bridges the gap between SPU-type cartridges and High-End cartridges like the MC A90 and the MC Windfeld designed for headshell mounting. The result is a high-performance moving coil cartridge with the convenience of a standard headshell connector, which provides a simple and elegant method of directly connecting the generator and tonearm via the Xpression's one-piece body.

Since the cartridge length is identical to that of an SPU, the Xpression can easily be fitted onto a large selection of tonearms without additional concern for proper alignment.

The cartridge height is also identical to that of an SPU, making further VTA adjustments unnecessary. Additionally, the mass and compliance properties of the Xpression ensure that a proper match will be achieved with most SPU-compatible arms, including the new Ortofon TA-110 and TA-210 tonearms.



Finally, the Xpression features a Boron Cantilever and a special polished Replicant 100 diamond, found also in the MC A90 and the MC Windfeld cartridges, providing more responsive and transparent sound reproduction.

High-end materials benefit new coil technology

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

The specially designed armature achieves an extreme precision in each coil turn in all layers. This enables the Xpression to obtain a higher degree of channel separation, while simultaneously offering lower distortion and better channel balance. A low output impedance of 4 Ohm and a medium output voltage of 0.3 mV make the Ortofon Xpression a perfect partner for most phono preamps and step-up transformers, including the new Ortofon ST-80 SE.



Design

The presentation of the Ortofon Xpression is a continuation of the new paradigm in engineering and manufacturing introduced by the MC A90. Because total freedom from resonance in the audible frequency range is a precondition for optimal sound quality, the design of the Xpression has been dictated by the complete elimination of unwanted resonance. Arguably the most exciting development in the Xpression is the introduction of our custom SLM manufacturing process.

The bottom cover has been constructed from a special proprietary TPE (Thermo-Plastic Elastomer) material, which provides extremely high damping. Also included is an easy-to-grab finger lift as well as a simple-to-use stylus guard.

When combined with Ortofon's world-class knowledge in analogue sound reproduction, the Xpression will undoubtedly provide sound which is literally unsurpassed and simply has to be experienced.