Dynavector Systems

Low Output Moving Coil Cartridge with aluminium cantilever

DV-10X5 mkII LOW

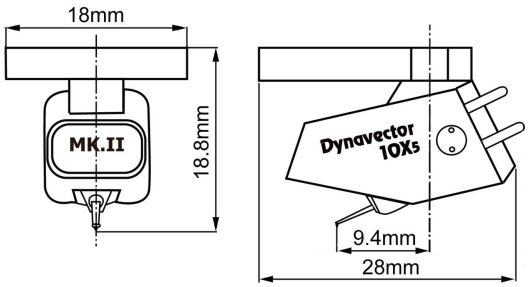
Flux Damper (patent)
Softened Magnetism (patent)

Design Concept

The Dynavector 10X series High Output Moving Coil cartridge debuted in 1978 winning the prestigious Design and Engineering Award at the Chicago CES in both 1978 and 1981. The 10X series cartridges are also widely accepted at the benchmark in High Output moving coil cartridge at this price point and beyond.
The familiar red body which has always been a feature of the 10X series which has undergone minor improvements has now been manufactured for more than forty years. It represents Dynavectors most popular ever model, favoured by music lovers and audiophiles all over the world.
The 10X5 now features a powerful neodymium magnet and a recently designed aluminium head block to provide a rigid platform for the cartridge motor and secure fixing to the tonearm.
The magnetic flux damping and softened magnetism along with the powerful neodymium magnet gives the DV 10X5 LOW a robust 0.5mV output.
The DV 10X5 LOW will be compatible with most head amplifiers or step-up transformers making the DV 10X5 LOW a first choice low output MC cartridge.

New Line-Contact Stylus

The Dynavector 10X5 MKII LOW also features an improved stylus assembly with the nude diamond “Shibata III” line contact stylus and improved hardened cantilever material. These improvements ensure secure tracking ability over even the most torturous of record grooves whilst achieving extended high frequency response and enhanced musical resolution.



Specifications

● Type : Low output moving coil cartridge with flux damper and softened magnetism ● output voltage : 0.5mV (at 1 KHz, 5cm/sec) ● frequency response : 20 - 20,000Hz ● channel balance : 1.0dB (1 KHz) ● channel separation : 25dB (1 KHz) ● compliance : 12 mm/N ● Impedance : R = 32 ohms ● recommended load impedance : >100 ohms ● stylus : Nude Diamond "Shibata III" Line Contact ● cantilever : 6mm length hardened aluminium pipe ● Tracking force : 1.8 - 2.2 grms ● weight : 7.5 grms

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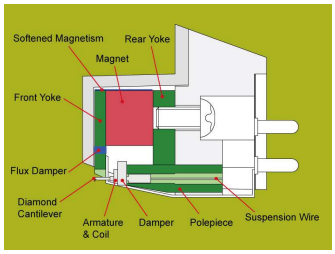
Technical Note of Dynavector MC Cartridges

High Output MC Cartridge

DV-10X5mkII is a high output MC cartridge which has output voltage of 2.5 mV by winding an ultra - fine wire as a generating coil many times. No head amp or step-up transformer is required. It is made possible only by a unique winding technology Dynavector was developed.
Since the high output MC cartridge is not affected by the head amp and step-up transformer, it has advantages over the low output type. The high output model is well suited to preamplifiers that only offer MM inputs. Recommended load resistance is more than 1,000 ohms.

Flux Damper

We focused on the magnetic interference that occurs between the movement of the amateur within the air gap of the magnetic circuit and the magnetic yoke surrounding it. So we discovered that the flux fluctuation caused a big influence to the reproduced sound.
Dynavector MC cartridge has a flux damper (patent) on the front yoke to eliminate this flux fluctuation.
Because of this technology, magnetic flux fluctuation has drastically decreased compared with conventional MC cartridge. So no smooth and colored over the entire band has achieved a natural reproduced sound.



Softened Magnetism

In recent MC cartridges, high-energy rare-earth magnets such as samarium-cobalt magnets and neodymium magnets are used to increase the output voltage. However, adopting such a magnet is effective for improving the output of the MC cartridge, but the magnetic field in the air gap of the cartridge is easily affected because the magnetoresistance is extremely high. As a result, intermodulation or harshness becomes noticeable when reproducing the track of large amplitude sound.
In the Dynavector MC cartridge, this internal magnetic resistance is reduced by a unique method. So the stabilization of the magnetic flux within the air gap is remarkably improved compared with the conventional MC cartridge.

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