

# Cadenza

Moving Coil Cartridges



**ortofon**  
accuracy in sound

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## Introduction

At Ortofon we constantly look for new technology to be used in our products and push the performance of existing technology. Thus we assure the highest level of performance and quality. The Kontrapunkt models and MC Jubilee became market standards and are among our most popular cartridges. Nevertheless Ortofon decided to develop a new cartridge series that is even more ambitious.

By carefully implementing cobalt-iron pole pieces, new improved winding process on the armature, using extruded aluminium housing in the models as well as other changes, we have been able to reveal new possibilities in performing the analogue information.

It was also decided to make a more complete range of cartridges, which meant an introduction of a moving coil Cadenza Mono model to support our customers, who have an extended interest in micro groove mono records.

We believe that our faithful and new customers will enjoy the playback of their precious analogue records even more now.



## Cadenza Mono

The Mono model is made with a nude fine line stylus and a cylindrical aluminium cantilever. For easy use the pins are connected so you get the same signal from both pairs of connecting pins.

The stylus radius is  $r/R$  8/40  $\mu\text{m}$ . Sharing internal build with the Cadenza Red and with optimized adjustments for mono playback the sound is relaxed, homogeneous and moderate. Find your old records as well as new micro groove mono records and experience the Cadenza Mono.



## Cadenza Red

The Red model is using a nude fine line stylus with a cylindrical aluminium cantilever. The stylus tip radius is  $r/R$  8/40  $\mu\text{m}$ . The coils are made from 6NX (99.9999 %) pure silver wire. An improved

winding process on the armature allows a better channel balance. The sound picture of Cadenza Red is more relaxed, homogeneous and moderately dynamic in the perspective compared to the Cadenza Blue and have great space and depth in the stereo image.



## The Story about Cadenza

Cadenza (from Italian: meaning cadence) refers to a portion of a concerto in which the orchestra stops playing, leaving the soloist to play alone in free time, without a strict, regular pulse. A cadenza can be written or improvised. It's usually the most elaborate and virtuosic part that the solo instrument plays during the whole piece. At the end of the cadenza, the orchestra re-enters, and generally finishes off the movement.

During the 19<sup>th</sup> century, composers began to write cadenzas out in full. Others wrote cadenzas for works, where the composer had intended for the solo to be improvised, in order for the soloist to have a well formed solo that they could practice in advance. Some of these have become so widely played and sung that they are effectively a part of the standard repertoire.



### Cadenza Blue

The Blue model is using a Nude FG 70 stylus with a very thin ruby cantilever. The improved winding process on the armature ensures better channel balance. The soundstage of Cadenza Blue is wide open and grandiose straight out of the box. Micro dynamic and ambience will be evident when listening to complex compositions. It reaches a very high degree of definition in the perspective, which is very present. It is true to the music with a tremendous clarity.



### Cadenza Black

The Black model is using a Nude Shibata stylus with a boron cantilever. The effective mass of the stylus/cantilever system is extremely low due to the use of a very thin boron rod. This material is extremely stiff and even more lightweight than aluminium. It also uses the WRD (Wide Range Damping-system), controlling the high and low frequency damping separately. Cadenza Black is optimized for an amazing tonal neutrality, dynamics and purity of sound. It is high performing on areas like detail, consistency and sound staging.



### Cadenza Bronze

The Bronze model is using a Replicant 100 stylus and a conical aluminium cantilever. The coil wire is the famous Ortofon Aucurum wire, which is a gold plated 6NX copper wire. A Field Stabilizing Element, FSE, is used for optimal linearity especially during complex crescendo passages. Cadenza Bronze is a true high-end reference cartridge, conveying music with supreme precision, impact and dynamics. Its stereo imaging capabilities illuminate the farthest corners of the soundstage in all three dimensions.

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## TECHNICAL DATA

	MONO	RED	BLUE	BRONZE	BLACK
Output voltage at 1 kHz 5 cm/sec	140 $\mu$ V	450 $\mu$ V	500 $\mu$ V	400 $\mu$ V	330 $\mu$ V
Channel balance		< 1,5 dB	< 1,2 dB	< 1 dB	< 0,8 dB
Channel separation at 1 kHz		> 23 dB	> 23 dB	> 24 dB	> 27 dB
Channel separation at 15 kHz		> 15 dB	> 15 dB	> 20 dB	> 20 dB
Frequency range at -3 dB	20 Hz - 50 kHz	20 Hz - 50 kHz	20 Hz - 50 kHz	20 Hz - 55 kHz	20 Hz - 60 kHz
Frequency response 20 Hz - 20 kHz	+3/-1	+3/-1	+2/-1	$\pm$ 1,5	+1,5/0
Tracking ability at 315 Hz at recommended tracking force *)	70 $\mu$ m	80 $\mu$ m	80 $\mu$ m	80 $\mu$ m	90 $\mu$ m
Compliance, dynamic, lateral	12 $\mu$ m/mN	12 $\mu$ m/mN	12 $\mu$ m/mN	12 $\mu$ m/mN	16 $\mu$ m/mN
Stylus type	Nude fine line	Nude fine line	Nude FG 70	Nude Ortofon Replicant	Nude Shibata
Stylus tip radius	Al. cantilever r/R 8/40	Al. cantilever r/R 8/40	Ruby cantilever r/R 6/70	Conical alu. r/R 5/100	Boron cantilever r/R 6/50
Tracking force range	2,2-2,7 g (22-27 mN)	2,2-2,7 g (22-27 mN)	2,2-2,7 g (22-27 mN)	2,2-2,7 g (22-27 mN)	2,0-2,5 g (20-25 mN)
Tracking force recommended	2,5 g (25 mN)	2,5 g (25 mN)	2,5 g (25 mN)	2,5 g (25 mN)	2,3 g (23 mN)
Tracking angle	20°	20°	20°	23°	20°
Internal impedance, DC resistance	5 Ohm	5 Ohm	5 Ohm	5 Ohm	5 Ohm
Recommended load impedance	50-500 Ohm	50-500 Ohm	50-200 Ohm	50-200 Ohm	>10 Ohm
Cartridge body material	Stainless steel Aluminium	Stainless steel Aluminium	Stainless steel Aluminium	Stainless steel Aluminium	Stainless steel Aluminium
Cartridge colour	Natural/Black	Red/Black	Blue/Black	Bronze/Black	Black/Black
Cartridge weight	10,7 g	10,7 g	10,7 g	10,7 g	10,7 g

\*) Typical value