TECHNICAL SPECIFICATIONS	MMC 20S-R	MMC 20E-R	MMC 20EN-R	MMS 20CL-R
Stylus	Spherical diamond	Elliptical diamond	Elliptical diamond nude	Contact line diamond nude
Tip radius	15µm	5 x 17 µm	5 x 17 µm	
Recommended tracking weight	15mN/1.5 gram	15 mN/1.5 gram	12 mN/1.2 gram	12 mN/1 gram
Effective tip mass	0.5 mg	0.5 mg	0.4 mg	0.3 mg
Compliance	20 µm/mN	20 µm/mN	25 µm/mN	30 µm/mN
Frequency range	20-20,000 Hz ±3 dB	20-20,000 Hz ±2.5 dB	20-20,000 Hz ±2 dB	20-20,000 Hz ±1 dB
Channel separation:				
1000 Hz	20 dB	20 dB	25 dB	30 dB
500-10,000 Hz	15 dB	15 dB	20 dB	20 dB
Channel difference	<2 dB	<2 dB	<1.5 dB	<1 dB
Output voltage	>0.6 mV/cm/sec.	>0.6 mV/cm/sec.	>0.6 mV/cm/sec.	>0.6 mV/cm/sec.
5 cm lat. RMS	>2.12 mV	>2.12 mV	>2.12 mV	>2.12 mV
10 cm/sec. DIN	>8.5 mV	>8.5 mV	>8.5 mV	>8.5 mV
Total weight	9.5 gram	9.5 gram	9.5 gram	9.5 gram
	8954640	**8954650**	**8954660**	**8954670**

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Bang & Olufsen

MMC 20

The MMC Principle

At Bang & Olufsen we have been gradually improving the Moving Micro Cross, which has been the generating element in our cartridges for a number of years.

With the new MMC generation, the Moving Micro Cross is smaller and lighter than ever, which means less wear on your records. The precise engineering of the micro cross also provides superior channel separation.

By placing the micro cross in a powerful magnetic field we have succeeded in creating a cartridge of very small dimensions, while still retaining a high output voltage.

The minimum weight with bracket is only 3.3 grammes, which gives the optimum compatibility with the best tone-arms on the market.

Information on the record is led via the stylus and cantilever to the micro cross. As a result the micro cross moves, causing variations in the powerful excitation current which comes from the fixed magnet and flows through both the micro cross and the four poles.

The varying excitation current is transformed into energy by the four push/pull coils wound on the poles and led to the amplifier via a cable.