goosebumps

Hi-Fi mit Nebenwirkungen.

Soundsmith	Moving Iron											
	Low Output				High Output							
	Hyperion CL	Sussurro	Paua	Zephyr MIMC	The Voice	Zephyr Mk II	Aida	Boheme	Carmen	Otello	Irox Ultimate	Irox Blue
Output (5 cm/sec lateral, RMS)	0.3 mV			0.4 mV	> 2.12 mV	2.4 mV	> 2.12 mV				> 2.12 mV	
Load	300 - 800 Ohm, optimal: 470 Ohm				≥ 47 kOhm, 100-200 pF							
Tracking force	1.8 – 2.2 g				≈ 1.3 g	1.8 – 2.2 g	≈ 1.3 g		≈ 1.4 g		2.2 g	
Cartridge weight (w/o mounting hardware)	10.25 g				6.8 g	10.25 g	6,8 g				10.25 g	
Compliance	10 μm/mN				22 μm/mN	10 μm/mN	22 μm/mN				10 μm/mN	
Stylus *	CL/OC-CL sel	OC-CL sel	CL sel	CL sel	CL-OCL sel	CL sel	CL-OCL sel	CL	EL1	EL2	EL1	EL2
Cantilever	Cactus	Ruby	Aluminum	Boron	Ruby	Boron	Ruby	Ruby	Aluminum	Aluminum	Aluminum alloy	
Effective tip mass	0.3 mg			0.32 mg	0.3 mg	0.32 mg	0.3 mg	0.32 mg	0.35 mg	0.5 mg	0.46 mg	0.59 mg
Frequency response 20Hz-20kHz	± 1 dB				± 1 dB	± 2 dB	± 2.5 dB				± 2.5 dB	± 2.5 dB
Channel separation (1kHz)	> 36 dB	> 34 dB	> 34 dB	> 28 dB	> 30 dB	> 28 dB	> 30 dB	> 28 dB	> 26 dB	> 24 dB	> 26 dB	> 24 dB
Channel separation (50Hz-15kHz)	> 25 dB				> 25 dB		> 20 dB				25 dB	23 dB
Channel imbalance stereo	< 0.5 dB			< 1dB	< 0.5 dB	< 1 dB	< 1 dB	< 1.4 dB	< 1.6 dB	< 1.8 dB	1.4 dB	1.5 dB
Recommended tonearm weight (effective mass of arm and headshell for resonance frequency 8…12 Hz)	7 – 29 g				1 – 11 g	7 – 29 g	1 – 11 g				7 – 29 g	7 – 29 g
Remarks				Reduced azimuth sensitivity for unipivot tonearms		Reduced azimuth sensitivity for unipivot tonearms					Unbreakable (reinforced cantilever and suspension)	

*** Nomenclature**	
CL	nude diamond, Contact Line; CL sel = selected for low noise
OC-CL	nude diamond, Optimised Contour Contact Line; OC-CL sel = selected for low noise
EL1	nude elliptical diamond, radius 6 x 17 μm
EL2	titanium bonded elliptical diamond, radius 6 x 17 μm
SPH1	spherical diamond, radius 1mil/25μm (for pre-1970 mono-LP)
SPH2	spherical diamond, radius 2.3mil/60μm (for 78 r.p.m. shellack records only!)
SHI	titanium bonded diamond, shibata cut

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Soundsmith	Strain Gauge SG-200, SG-210, SG-230					
	SGS-6	**SGS-5**	**SGS-4**	**SGS-3**	**SGS-2**	**SGS-1**
Output (5 cm/sec lateral, RMS)	**SG-200** 0 dBu (0.775Vrms); **SG-210** fixed: 0 dBu, variable: +15 dBu (4.35 Vrms); **SG-230** +15 dBu (4.35 Vrms)					
Load	≥ 10 kOhm (line or amplifier input)					
Tracking force	2.3 g	2.3 g	2.7 g	2.3 g	2.3 g	2.3 g
Cartridge weight (w/o mounting hardware)	10.0 g					
Compliance	10 μm/mN					
Stylus *	OC-CL sel	CL sel	SPH2	SPH1	EL1	SHI
Cantilever	Ruby		Aluminum			
Effective tip mass	0.30 mg	0.32 mg	0.76 mg	0.48 mg	0.35 mg	0.40 mg
Frequency response 20Hz-20kHz						
Frequency response	20 Hz-70 kHz	20 Hz-70 kHz	20 Hz-30 kHz	20 Hz-35 kHz	20 Hz-60 kHz	20 Hz-70 kHz
Channel separation (1kHz)	35 dB	35 dB	N/A	N/A	32 dB	32 dB
Channel separation (50Hz-15kHz)	25 dB	25 dB	N/A	N/A	25 dB	25 dB
Channel imbalance stereo	1 dB	1 dB	–	–	1 dB	1 dB
Recommended tonearm weight (effective mass of arm and headshell for resonance frequency 8…12 Hz)	7 – 29 g	7 – 29 g	7 – 29 g	7 – 29 g	7 – 29 g	7 – 29 g
Remarks	Allow 30-50 hours break-in	Allow 10-15 hours break-in	For shellack records (78 r.p.m.); special EQ required	For old mono LPs		

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