

## Technical Specifications

Stylus	Nude Elliptical, 0.120 mm SQ
Radius of curvature	6 X 17 $\mu$ m
Cantilever	Aluminum Alloy
Recommended Tracking Force	12 mN/1.2 grams
Effective Tip Mass	0.35 mg
Compliance	28 $\mu$ m/mN
Frequency response	
Channel Separation	
1000 Hz	> 26 dB
50-15,000 Hz	> 20 dB
Channel difference	< 1.6 dB
Output voltage	> 0.6 mV/cm/sec.
5 cm/sec. Lat. RMS	> 2.12 mV
Cartridge weight	6.8 grams
Load Resistance:	>= 47k Ohms
Load Capacitance:	
<input type="checkbox"/> Internally compensated	100 pF
<input type="checkbox"/> Non-compensated	400 pF - 600 pF

# Soundsmith

## Phonograph Cartridge

### CARMEN

**Acrylic Mounted -  
High Compliance**

**The Soundsmith Corp.  
8 John Walsh Blvd. Suite 417  
Peekskill, NY USA 10566  
1-800-942-8009  
www.sound-smith.com**

Information

### The Soundsmith CARMEN cartridge

The **CARMEN** cartridge you have purchased is hand-made to extremely exacting specifications by the president and chief engineer of the Soundsmith, using carefully selected and precision processed magnetic materials. The unique design results in a "no-compromise" cartridge, providing the listener with unparalleled performance through employing a tiny, ultra-low mass high-purity moving iron element. The **CARMEN** cartridge differs primarily from other cartridges in that the moving mass has been reduced to an astonishing small level, with the stylus\* and cantilever\*\* using the best choices of material, shape and structure.

A key optimizing element in The **CARMEN** is the use of a single-piece, ultra low-mass moving iron, stylus and cantilever assembly. In a similar sense to a "moving coil" cartridge, it does not have user replaceable styli, as The **CARMEN** is designed for optimal performance. The **CARMEN** is a "moving iron" design, and is compatible only with standard "moving magnet" phono inputs. It does not require the use of a special "moving coil" input or moving coil preamp. Your production select cartridge is housed in an handmade acrylic enclosure to enhance the performance.

The Soundsmith has taken great care to manufacture this cartridge to exacting standards and performance. It should provide you with many years of fine listening from your treasured vinyl collection.

\* **Stylus** - this is the actual "needle" or shaped diamond tip that fits in the record groove and follows the movements of the groove walls. All Soundsmith styli tip shapes are either elliptical or contact line, and are either titanium bonded or solid "nude" diamond.

\*\* **Cantilever** - This is the rod or arm that holds the stylus its function is to accurately transmit the movement of the stylus into the cartridge body, which converts that movement into small electrical signals. It should be, by design, extremely lightweight and very rigid. All Soundsmith cantilevers are either aluminum alloy, sapphire, ruby, exotic metal or ceramic.

**Peter Ledermann ~ President/Chief Engineer**