The secret to a balanced and vrowling resophonic guitar...

A paradigm shift in string design that provides compensated down pressure for balanced tone and feel.

On a resophonic guitar the bridge is comprised of two pieces of wood that sit securely in a lattice-like metallic frame referred to as a spider. In addition to supporting the load of the strings, the spider presses down on the outer edge of the

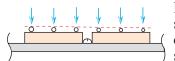


round metallic soundboard called a cone to securely anchor the cone around its perimeter. The spider features a central adjustable screw that tensions the cone and draws it to the spider.

The strings pass from the tailpiece to the peghead and go over the bridge at a +/-3° angle. When the strings are brought up to pitch, the spider and cone are loaded and are ready to respond to the changes in the upward and downward energy presented by the strings.

Unlike the torque load of the strings at the bridge of an acoustic guitar that twists the bridge back and forth, the bridge on the spider of a resophonic guitar moves up and down as it responds to the strings' lateral energy. This up and down movement on the cone creates a pumping action in the body of the resophonic guitar resulting in the compression and rarefaction that our ears sense as sound. Driving the mechanism of the spider and cone is tricky and requires a unique set of strings that compensates for the download of each string (blue arrows) on the bridge based on where the strings sit on the bridge and spider, as well as the relative download pressure of the neighboring strings.

In addition to developing a set of strings with compensated downloads, we focused on string gauges that place the strings in an even plane (red dotted



line) for the bar to rest on so the bar applies equal contact pressure for each

Next, we chose a smooth phosphor bronze wrap wire to provide noise-free slides along with the heralded resophonic guitar *growl*.

The result of our tests brought us to create a paradigm shift in resophonic guitar string design with carefully engineered core-to-wrap wire gauges derived from *compensated* down pressures plotted on a proprietary curve for optimum balance, tone, and feel.

We call them **Straight Up Strings** and we know you'll

like them!



Straight Up Strings for resophonic guitar, engineered with compensated down pressure for optimum balance and feel.

...every note of every chord

Specifications:

Resophonic quitar, medium, #2800-M

- Gauges: .16.5" .019" .0265" .035" .047" .057"
- Downloads*: D8.3 B8.4 G8.4 D8.3 B8.2 G8.3 Total compensated download on spider: 49.9 ounces (3.11 pounds)
- Total longitudinal tension: 174 pounds
- Lower G, B, D, and G strings wound with a slick-surfaced phosphor bronze

*Down pressure loads measured at a 3° string break angle over the bridge. Downloads and tensions for open G tuning.

Manufactured and packaged: U.S.A. • Dealer inquiries invited.

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