

# Genesis™ 900

## Servo-Controlled Subwoofer

We are proud to introduce the Genesis 900 servo-controlled subwoofer. With 500 watts of power behind a unique 15" servo-controlled metal cone woofer, the Genesis 900 is not only able to accurately reproduce the whack and feel of a bass drum or the body of a double bass, but can almost lift you off the couch as T-Rex shudders through your living room.

### The Inside Story

The secret behind the 900's success lies in its metal cone woofer and in its accelerometer-based servo-system.

Traditional powered subwoofer designs typically rely on large, cumbersome and heavy woofers in ported (vented) boxes to create their low frequencies. The problem with these classic designs is that they are slow and unresponsive to musical transients. While they do produce lots of bass and boom, they cannot accurately and faithfully reproduce their input signals. You "hear" these subwoofers in a very unnatural way. To further exacerbate their problems, the woofer cabinets are typically vented (with a hole in the enclosure) causing an out of phase signal to appear at the output of the vent. While this increases the level of bass at certain frequencies, the signal is "out of time" with where it should be. The ear is very sensitive to these types of timing errors.



The Genesis 900 solves these problems with the use of a motion sensing device (an accelerometer) that is mounted directly to the woofer, and by placing this electronically-corrected and powered woofer in a sealed box. The advantages of using Genesis servo technology are many: precise and accurate transient response, in-phase performance and lightning fast movement of the woofer.

Another key element in the design of a servo-controlled woofer system is a powerful amplifier to drive the woofer. To accomplish this task, the Genesis 900 comes complete with a 500 watt, fully remote controlled GSAT servo amplifier. Based on a unique technology pioneered by Genesis's own Arnie Nudell, the 900 GSAT is a fully discrete MOSFET switching amplifier that is more than three times as efficient as a traditional power amplifier and is 100% linear in its operation. Using GSAT technology to power the 900 means greater slam in the bass, while maintaining near perfect transient response and harmonic integrity.

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## SPECIFICATIONS

### GENESIS 900 LOUDSPEAKERS

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Cabinet Dimensions	19.5"H x 22"W x 20"D
Weight	85 lb.
Frequency Response	±3 dB, 20Hz to 120Hz
Amplifier	500 watts
Woofer	15" metal cone
Low pass	-3 dB variable from 70Hz to 120Hz
High pass	-3 dB variable 16Hz to 30Hz
Phase	continuously variable in 5 degree increments, from 0 to 180 degrees



### The Intelligent Subwoofer...with a Remote

Because the Genesis 900 is small enough to place in a corner, under a table or behind a couch, the fact that it is fully remote controlled is a clear benefit. Using the supplied, detachable remote control display housing (2.5"H x 3"W x 2.5"D) along with the hand-held remote control transmitter, you can adjust volume, low pass, high pass and phase – all from the comfort of your easy chair. You can even slave two or more 900's together so they track the setting of one hand held remote no matter where they are in the room. While designed to sit atop the 900, if it is more convenient, you can place the remote control display housing on a shelf, a window sill or as far away from the subwoofer as you wish. Once the optimum settings have been arrived at, you may, if you wish, even detach the remote control display housing and the 900 will remember all your settings (even if there is a power failure). The automatic power control will turn the 900 off when there is no music present, and quietly turn it back on the instant there is a signal.

### The Bottom Line

Utilizing our advanced technology and design criteria, the 900 has been created to seamlessly integrate into any system. The remote control and the flexible frequency contouring allow unparalleled adaptability, not found in any other woofer system.

Available in either black ash or rosewood.

### Genesis 900 Subwoofer Features:

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- Custom-designed 15" metal cone driver.
- Ultra-low distortion servo-control system using 500 watt GSAT-technology amplifier and precision accelerometer.
- Fully remote controlled system allows for precision adjustments for volume, low pass, high pass and phase.
- Unique, detachable transceiver module may be remotely located and is completely removable once control settings have been determined.
- Control several daisy-chained 900 subwoofers simultaneously from a single remote.
- Utilizing the Genesis servo technology provides for precise and accurate transient response and in-phase performance.
- Flexible, powerful and musical, the Genesis 900 is the ultimate subwoofer for all audio and home theater applications.

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Genesis Technologies, Inc.

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