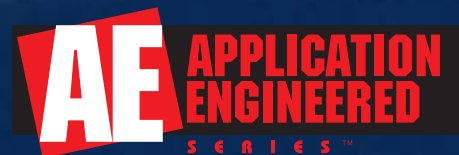




**THE RIGHT INSTALLED LOUDSPEAKER FOR  
ANY CHALLENGE YOU MIGHT COME ACROSS**



**YOU HAVE OUR ATTENTION.**





New PT™ Progressive  
Transition™ Waveguides



CMCD™ – Cone Midrange  
Compression Driver

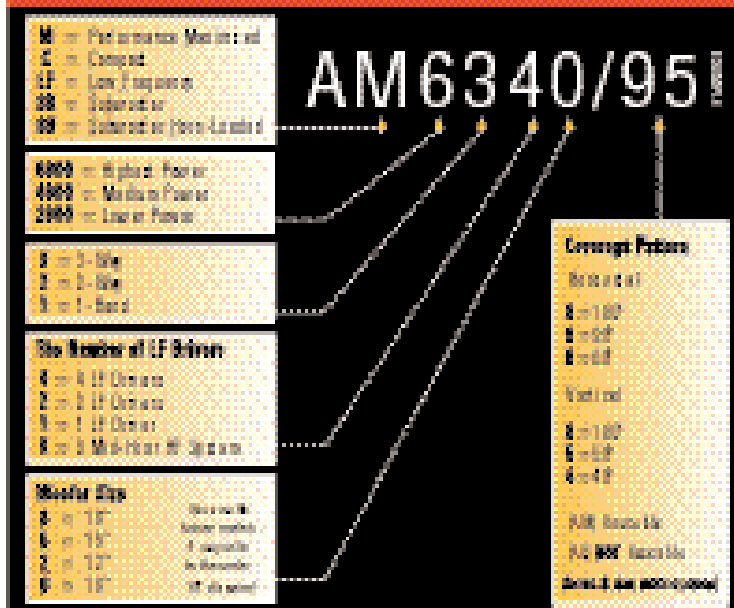


## IMAGINE IF YOUR EVERY NEED WAS NOT ONLY MET BUT ANTICIPATED

The **AE Application Engineered Series** was designed with one goal in mind, to deliver the performance and features contractors and consultants need and that listeners demand. Incorporating the latest loudspeaker technology, a wide selection of models, high performance features, reliability and a systems approach, AE Series has a loudspeaker for just about any challenge you might come across.

**AE** APPLICATION  
ENGINEERED  
S E R I E S™

## MODEL NUMBERING KEY



## A PRODUCT LINE WITH VERSATILITY

**Scaled System Design Approach** – AE Series models provide a wide variety of building blocks for your system design, stair-stepped to give you just the right solution for your installation.

**Power Scaling** – Many of the AE models come in multiple power ranges or are very similar to comparable-coverage models at a higher or lower power point, allowing selection of just the right speaker for the required output capability. Mid-high frequency models can be utilized in voice systems, or as delay-fills that match the character of the full-range main speakers.

### 6000 SERIES

### 4000 SERIES

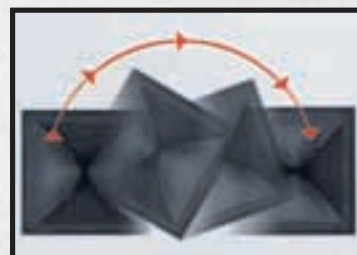
### 2000 SERIES

6000-Series models are the highest power speakers in the AE Series. 4000-Series models are medium power and 2000-Series are at lower power points for applications not requiring high power capability.

**Waveguide Scaling** – Sometimes you need maximum pattern control. Other times the speaker needs to be as compact as possible. [AM] models are performance-maximized for the greatest pattern control to the lowest frequency possible. [AC] models are compact speakers that fit in areas where a smaller frontal profile is required. In the [AM] models, the same waveguides are utilized for both high output and lower output drivers, resulting in maximum pattern control at all power levels.

### Rotatable Waveguides –

The space often dictates how a speaker needs to be oriented. All [AM] two-way and three-way models include a rotatable



waveguide, allowing the speaker to be installed in either vertical or horizontal orientation.

**Selectable Crossover Mode** – All AE Series speakers (except single driver subwoofers and LF cabinets) offer selectable crossover modes. Three-way speakers operate in either tri-amp or bi-amp mode with built-in passive mid-high crossover. Two-way speakers operate bi-amp or passive. Dual-driver LF and subwoofer cabinets offer selection between parallel-drive or individual driver access for maximum LF damping or for wiring of individual “home runs” to the amplifier.

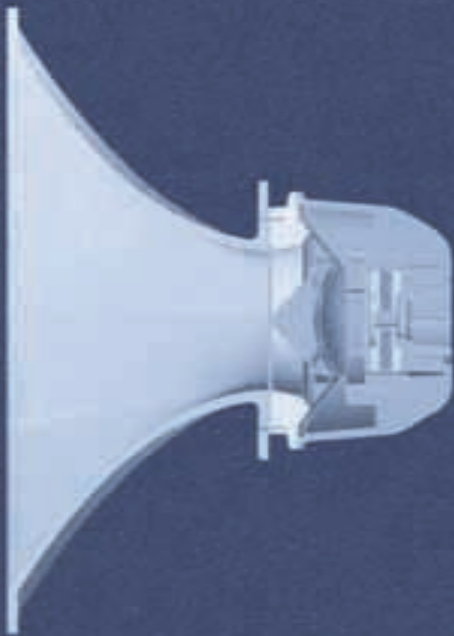
**Coverage Patterns** – AE Series models come in a variety of coverage patterns to fit the requirement of the application.

**Connectors** – All models include both Speakon® and CE-approved covered barrier strip input connectors.



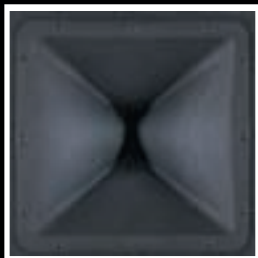
Visit the AE Series webpage for in-depth information on the products, applications and new models.





## THE LATEST TECHNOLOGY

**PT™ Progressive Transition™ Waveguides** – JBL's new patent pending Progressive Transition Waveguides represent the latest in horn technology. In addition to providing smooth, low distortion sound, PT waveguides deliver uniform off-axis frequency response to every point within the intended coverage area — not just in the horizontal and vertical planes — resulting in superior array-ability of multiple loudspeaker systems. PT Waveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.



### **CMCD™ Cone Midrange Compression Drivers** –

Incorporated into all cone midrange models — patent pending CMCD technology is more than a simple displacement plug. In addition to providing increased output and lower distortion, this cone-based true compression driver design extends bandwidth (both up and down in frequency) to cover the entire vocal range seamlessly, allows for better waveguide pattern control by reducing the projection aperture and improves phase coherency of the midrange signal for clearer, more intelligible audio quality.



## AN OUTSTANDING FIT FOR A VARIETY OF APPLICATIONS

AE Series loudspeakers are ideal for a wide variety of fixed installation applications including performing arts facilities, theatrical sound design, auditoriums, houses of worship, live music clubs, dance-clubs/discotheques, sports facilities and themed entertainment venues. The special mid-high frequency models can be used without LF reinforcement in voice-only PA and delay-fill applications. The smaller models are ideal in lecture halls and corporate learning centers as well as in delay-fill locations of larger systems.



*Engineered with a wide variety of applications in mind.*

## SYSTEMS APPROACH

**Easily Arrayable** – Made to work together, many models utilize common dimensions for incorporation into arrays.

**DSP Settings** – DSP settings are pre-configured for single boxes and arrays.

**Accessory Brackets** – U-brackets are provided for many of the AE models. Planar array frames with adjustable splay angles make it easy to install multiple loudspeaker arrays.





**APPLICATION  
ENGINEERED**



**DOZENS  
OF OPTIONS**

**Whatever your need –**  
whether performance-maximized  
or compact profile; tri-amp;  
bi-amp or passive crossover;  
higher power or lower cost;  
vertical or horizontal installation –

**AE Series has the right  
loudspeaker for the job!**



**LEGENDARY  
JBL DRIVERS**



**100-HOUR  
POWER TESTING  
FOR RELIABILITY**



## HOW JBL TORTURES SPEAKERS TO ENSURE RELIABILITY

**At JBL Professional**, we subject our designs to the most rigorous and demanding testing in the industry. As a result, the power rating specification of a JBL Professional product may be lower than that of a competitive speaker which has less actual power handling capacity.

**JBL tests speaker systems as systems.** Some competitive speaker systems are rated based on the power rating of the individual transducers. In reality, when a transducer is installed in an enclosure, it may not be able to dissipate heat as well as it did outside the box, or the crossover network might fail long before the transducers. When you select a JBL speaker system, you know that the design has been tested as a complete system.

**JBL tests speaker designs for over 100 hours.** At JBL, we test our designs for 100 hours at rated power output. Our 100 hour power test subjects the speaker to more stress and strain than it would get in years of actual use. At the end of the torture, the speaker must still perform to specification.

**JBL uses the IEC spectrum for testing speakers.** IEC shaped pink noise tests the entire speaker system, not just the LF driver like the more frequency-limited AES spectrum. In fact, IEC shaped noise places considerably greater demands on a speaker than real music. This demanding testing ensures you the ultimate in system reliability.



**PT PROGRESSIVE TRANSITION™ WAVEGUIDES** — Excellent pattern control with low distortion. **POWER SCALING** — Multiple power ranges. **LEGENDARY JBL TRANSDUCERS** — Best in the business. **ROTATABLE WAVEGUIDES** — Allow both horizontal or vertical orientation. **SOPHISTICATED Crossover NETWORKS** — For excellent sound quality and consistent coverage. **SUBWOOFERS** — Compatible models. **CMCD™** (Cone Midrange Compression Driver) — True phase plug improves phase coherency, increases sensitivity, lowers distortion, extends bandwidth and allows better waveguide pattern control. **SELECTABLE Crossover MODE** — All models selectable tri-amp/bi-amp or bi-amp/passive. **WAVEGUIDE SCALING** — Large horn for pattern control ("AM" models) or small horn for compact size ("AC" models). **BARRIER STRIP AND SPEAKON®** — Comes with both. **TOTAL SYSTEM APPROACH** — Made to work together with common dimensions, shared appearance, DSP settings pre-configured for single boxes and arrays, as well as U-brackets and horizontal and vertical array-building hardware.

[www.jblpro.com/ae](http://www.jblpro.com/ae)

**AE APPLICATION ENGINEERED SERIES™**

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**H** A Harman International Company