



Premium Sound Audio Solutions

Elevate your audio experience with solutions for every listener, from high-fidelity sound to specialized communication.

Knowles has the technology to push the boundaries of sound. So whether you're an audiophile seeking the purest audio experience, someone looking for advanced hearing solutions, or a professional requiring crystal-clear communication, our cutting-edge technology is designed to deliver unparalleled sound quality and performance. Explore our diverse range of balanced armatures and boom mics to find what's right for you.

BOOM MICS

Knowles portfolio of specialty boom microphones enable clear communication under the most demanding conditions and requirements. The combination of industry-best microphone elements and close proximity to the mouth provides excellent intelligibility even in extremely noisy conditions. With more than 30-year design and manufacturing experience, we are prepared to deliver the right boom for your customers - whether they are on stage or on a critical mission.

APPLICATIONS:

- ▶ Stage performance and professional speaking
- ▶ Aviation
- ▶ Critical Communication
- ▶ Industrial and Intelligent Hearing Protection
- ▶ Gaming

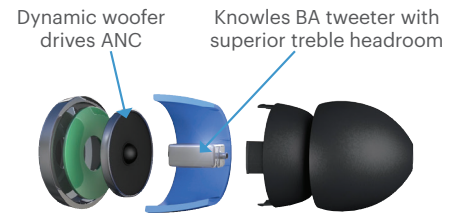
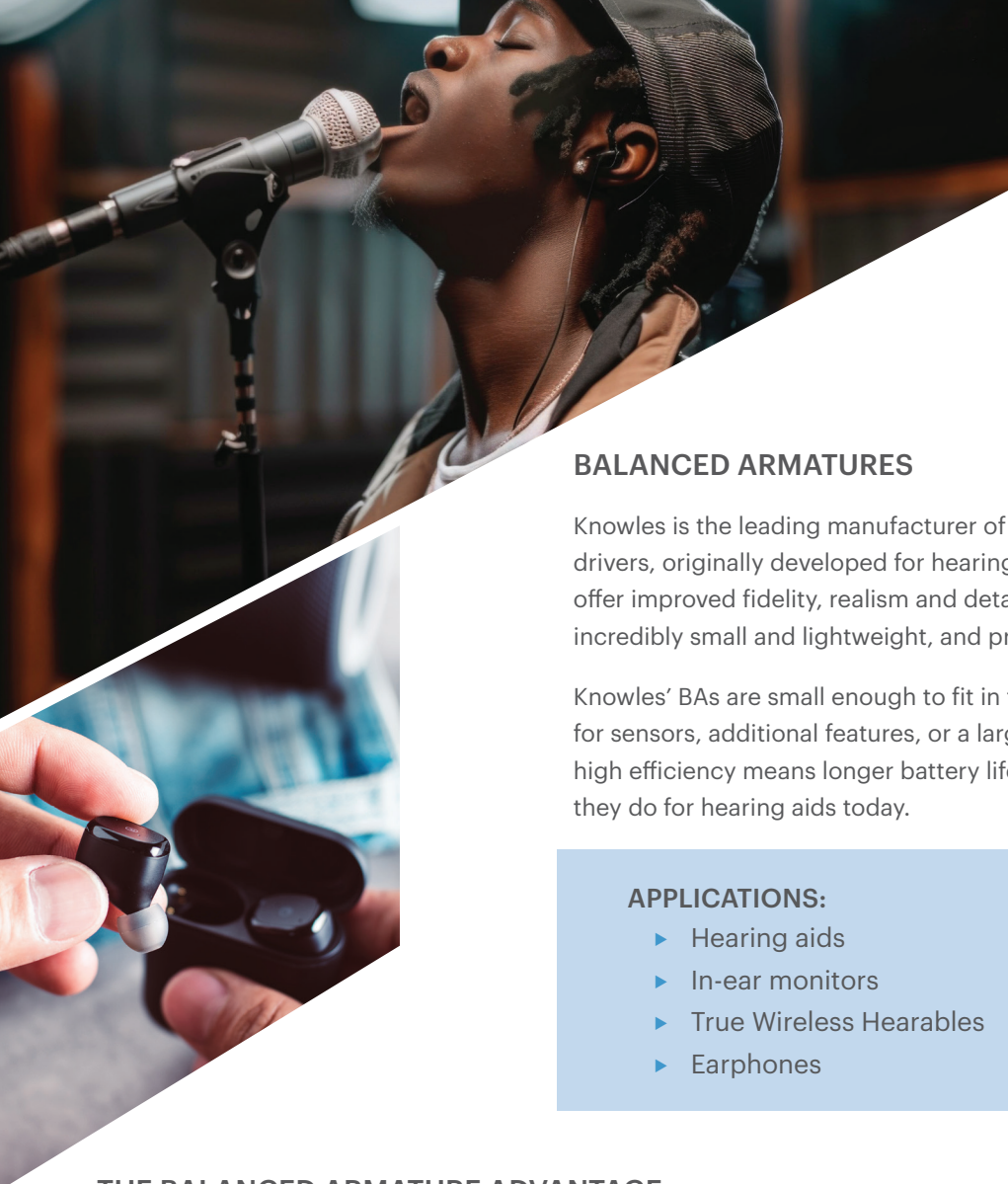
FEATURES:

- ▶ Clear communication in high-noise environments
- ▶ Durable, reliable
- ▶ Ease of use – adjustable mics
- ▶ Small, lightweight
- ▶ Noise-cancelling
- ▶ Water-proof

Knowles' capabilities span across the entire spectrum of a boom's design, manufacture, and assembly process.

NOT SURE WHAT YOU NEED? Knowles offers a full suite of customization options.

- Our acoustic and mechanical experts are ready to assist you throughout your design process.
- Our in-house design, manufacturing, and assembly capabilities will decrease your time to market.



BALANCED ARMATURES

Knowles is the leading manufacturer of balanced armature (BA) drivers. These drivers, originally developed for hearing aids and other critical listening applications, offer improved fidelity, realism and detail over traditional dynamic drivers. They are incredibly small and lightweight, and provide greater output with less power.

Knowles' BAs are small enough to fit in the ear tip, allowing for more room in hearables for sensors, additional features, or a larger battery, without sacrificing comfort. Their high efficiency means longer battery life in the coming next generation of hearables as they do for hearing aids today.

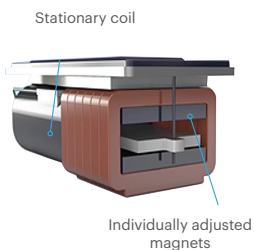
APPLICATIONS:

- ▶ Hearing aids
- ▶ In-ear monitors
- ▶ True Wireless Hearables
- ▶ Earphones

FEATURES:

- ▶ Small size
- ▶ Low power consumption
- ▶ Various form factors
- ▶ Better acoustic performance

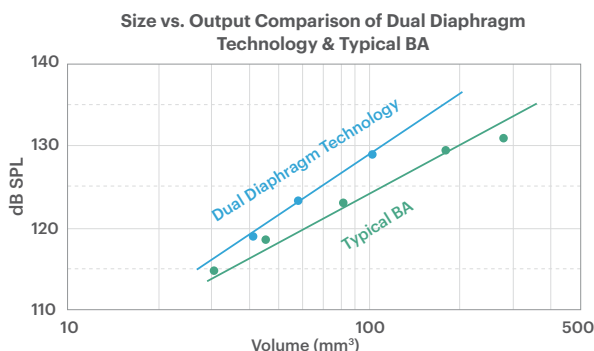
THE BALANCED ARMATURE ADVANTAGE



- ▶ Balanced Armature (BA) drivers offer improved fidelity, realism and detail over traditional dynamic drivers. They are incredibly small and lightweight, and provide greater output with less power.

- ▶ A BA driver can also be combined with a dynamic speaker to form a hybrid earphone. In this configuration, the BA drivers focus on the critical high end portion of the audio spectrum, bringing a new level of clarity and realism.

DUAL DIAPHRAGM TECHNOLOGY



- ▶ Patented design includes two separate diaphragms driven by a single motor
- ▶ Each diaphragm has its own chamber, resulting in rich sound
- ▶ Demonstrated to provide significant output improvement while maintaining a small footprint
- ▶ Multiple configuration options

