

# HARMONIC RESOLUTION SYSTEMS



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## A LOW NOISE FLOOR IS FUNDAMENTAL

**A** low noise floor is fundamental to great system performance. Over the past two decades, HRS has built a complete line of high performance noise reduction products represented by the finest dealers and distributors in the world. Each HRS product developed is based on thirty-five years of technical experience, input from our listening panel of engineers and musicians, then built by a team of expert craftsmen.

Over thirty industry leading audio companies use HRS Audio Stands as their reference to develop new products and achieve great sound at major U.S. and international trade show events. HRS has created hundreds of detailed process and quality control procedures to ensure the quality of every product shipped to our customers meets our rigorous engineering standards.

Reducing the noise floor of a high performance system is a fundamental part of experiencing the full emotional impact of an artist's performance. Each system has airborne energy (speakers etc.), structural borne energy (floor and supports response), chassis noise (component response) and noise internally generated within the component that degrades the overall system performance. Our decades of experience and testing has shown that no single technology or product is ideal for all component types and constructions. HRS has developed a system of products using a wide range of technologies to significantly reduce the destructive noise experienced by the components.

This HRS system approach dramatically preserves signal quality so that you can experience the true magic of the performance. You will find within HRS products the use of high mass, grounding, constrained layer damping, stiffness, frictional damping, isolation, decoupled mass damping, filters, chokes and energy reflective elements. It is a comprehensive approach that includes many HRS patented products and custom HRS materials to optimize overall system performance.

HRS has developed a complete tool kit that allows our customers to build high performance systems at different price points and achieve unique performance at each level. This approach is based on fundamental science, experience, experimentation and always confirmed with extensive listening tests.

HRS is comprised of a team of highly skilled engineers and technicians with decades of experience in design, development and production of isolation systems, custom materials and precision mechanical systems. Our team holds a number of patents, has presented technical papers, and developed hundreds of products for audio, aerospace and defense products related to mechanical structures, control systems, and shock and vibration isolation systems. All HRS products are manufactured in the United States using superior techniques, exquisite finishes and proprietary materials. HRS is dedicated to producing the finest audio products in the world.



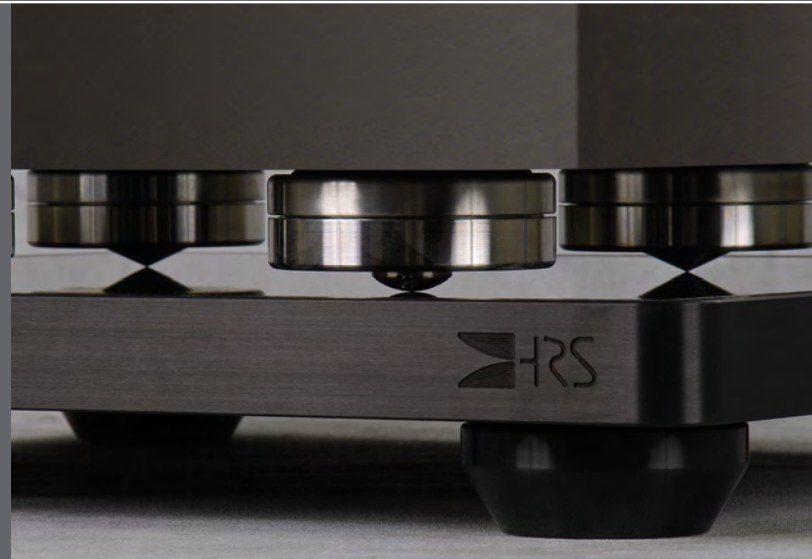
## A LOW NOISE FLOOR IS FUNDAMENTAL



For the past two decades, HRS has worked tirelessly to develop a high performance product line which offers flexible, modular, and cost-effective solutions to obtain the true performing arts magic these exceptional systems can achieve. While developing a "one size fits all" solution may have been more convenient for us and our dealer network, HRS let the engineering principles and our extensive listening test protocol guide us to the ideal solution for each component type and system location to achieve the best result. We have made this approach extremely adjustable so that as your system and components change, the HRS System can adapt to all your system needs.

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## CHASSIS NOISE REDUCTION



The HRS Nimbus, Vortex and Damping Plate products eliminate component chassis noise as well as noise generated within the component itself. The patented HRS Vortex is designed specifically to obtain maximum performance from audio components designed with stiffer metal plate and billet-machined chassis construction while the HRS Nimbus is designed for components with sheet metal chassis construction. HRS Damping Plates are designed specifically to reduce the component's top chassis noise level and are available in different sizes and heights to allow system optimization.



## STRUCTURAL NOISE REDUCTION



The HRS Isolation Bases are a primary element for significantly reducing structural borne noise in any audio or video component. Depending on the component and the environment, all HRS Isolation Bases have the ability to be adjusted for broadband isolation, narrowband isolation, constrained layer damping or grounded design. HRS Isolation Bases can be used on any surface, structure, existing furniture, other audio stands or installed directly into any HRS Audio Stand frame system. The HRS Isolation Bases are an excellent match with HRS chassis noise reduction products. While the HRS Isolation Bases work to significantly reduce structure-borne vibration, the HRS Damping Plates, Nimbus and Vortex products significantly reduce the harmful effects of airborne vibration and structural resonance on your components.

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## COMPLETE SYSTEM SOLUTIONS



High performance HRS Audio Stands have an infinitely modular engineering architecture made from precision hardware and internal resonance control systems to optimize performance. Each system is hand finished by our experienced craftsmen to our exacting standards. These high performance modular audio stand designs will adapt to any desired system configuration you will ever need. If one of the standard sizes does not fit your needs, HRS offers hundreds of custom designs for every component in the world.



## COMPLETE SYSTEM SOLUTIONS



HRS Audio Stand systems can be expanded vertically or horizontally, reconfigured, and adjusted at any time your system changes. Our team has spent decades studying what you will need at the time the system is built while predicting what changes you may make in the future. HRS follows a strict code of performance, quality, and value that gives the customer a cost-effective solution that preserves initial investment as their system changes.

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Our passion for enjoying the full magic of a musical performance has driven us to develop a wide range of products that will allow your system to reach its full potential. HRS products and our complete system approach will deliver the full expression contained in your favorite performances as originally created by the artists.

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