GEOMETRY SERIES

THE FUTURE IS CARBON

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The Endeavour is a speaker that challenges assumptions and challenges the status quo. It's different in its approach, its materials and the way it presents the musical performance. It turns accepted notions of the established audio swings and roundabouts on their head, surprising and delighting in equal measure. But most of all it succeeds in achieving that quality shared by all really great loudspeakers – the ability to put the music first.

- Roy Gregory, The Audiobeat, February 2015

Named in honour of Captain Cook's HMS Bark Endeavour and the 250th Anniversary of its launch, the Endeavour loudspeaker is a paradigm shift in loudspeaker design. Borne from an uncompromising design brief that outlined the blueprint for the ultimate wide bandwidth stand mounted loudspeaker, the Endeavour combines the technology and craftsmanship of its flagship sister, in a compact, super-monitor.

DRIVER TECHNOLOGY

Each Endeavour is equipped with very latest, cutting edge Wilson Benesch's drive technologies that deliver wide bandwidth sound from 38Hz to 30Khz. At the heart of the Endeavour powerhouse are six Tactic II drivers and two Semisphere tweeters per pair.

Like the Cardinal, it is the drive unit topology and alignment to which the Endeavour design owes much of its success. This area of the design has been researched extensively and the resulting integration and coherence across the bandwidth is class leading.

CARBON-NANOTECH ENCLOSURE

Since its foundation, Wilson Benesch has invested heavily in ambitious R&D projects in the fields of advanced materials science and manufacturing technology.

In the Endeavour, Wilson Benesch latest advanced materials technology innovation comes to fruition in the shape of the Carbon-Nanotech Enclosure.

The Carbon-Nanotech Enclosure is a champagne-bottle-neck-shaped component sitting directly behind the mid-range drive unit. The enclosure isolates the air volume available to the Tactic II mid-range driver from the air volume available to the twin Isobaric drivers and the tweeter. The result is a cabinet with a highly efficient distribution of its air volume; liberating a considerable air volume for use by the Isobaric Drive, where it is required for the powerful reproduction of low frequency sound.

Critically though, the Carbon-Nanotech enclosure as the name suggests, is a highly optimised composite structure formed from carbon fibre and carbon nanotubes. This advanced structure exhibits excellent damping characteristics and introduces an additional barrier to sound escaping from the loudspeaker cabinet into the listening environment. As a result the Endeavour exhibits a class leading signal-to-noise ratio.

ISOBARIC DRIVE

Two downwards-firing Tactic II drive units form the Endeavour's Isobaric Drive. Unlike the Cardinal, this is deployed in a clamshell configuration. As with the Cardinal, the primary goal of the Isobaric Drive is the creation of lightning fast, dynamic bass response and seamless integration with the mid-range Tactic II drive unit.

The Endeavour places the high energy Isobaric Drive within inches of the mid-range and tweeter drive units. In this respect, the Endeavour has a distinct advantage over many loudspeaker designs, achieving a degree of spatial and temporal integration that is perhaps unrivalled across the industry. To maintain absolute structural integrity, the high energy Isobaric Drive is mounted to a 4kg aluminium base, precision milled from a single billet of aluminium.

MATERIAL'S SCIENCE R&D

The Advanced Composite Technology (A.C.T.) Monocoque, which forms the principal component of the Endeavour's cabinet is the result of more than twenty-five years' research into emerging carbon fibre composite materials and the complex manufacturing methods required to integrate them within product design.

Although carbon fibre is renowned for its high strength-to-weight ratio, the material property of primary concern in the Endeavour cabinet is its damping coefficient; its ability to dissipate energy in a controlled manner. Employing this material property of carbon fibre in an optimised U-shaped geometry, the damping capacity of the A.C.T. Monocoque significantly surpasses that of a cabinet constructed using conventional materials.

GEOMETRY AND FORM

The elegant nautical lines of the Endeavour are not merely geometrically elegant, but are indicative of its highly functional nature. Before a single billet of aluminium was machined, the form of each component was extensively honed for ergonomics and aesthetics through design iteration in industry-standard 3D CAD software.

Finished in a luxurious silk black, complemented by the high-gloss carbon fibre monocoque and a range of bespoke wood veneer or high gloss finishes, the Endeavour exudes the quality and high-end luxury that has become a hallmark of the Wilson Benesch brand.

ENDEAVOUR LOUDSPEAKER SPECIFICATIONS & AWARDS

Drivers
1 x 25mm (1") Wilson Benesch Semisphere Tweeter
1 x 170mm (7") Wilson Benesch Mid-Range Tactic II Drive Unit
2 x 170mm (7") Wilson Benesch Isobaric Tactic II Drive Unit

Cabinet Construction
Poly-alloy hybrid construction
Midrange: High Performance Carbon-Nanotech Enclosure,
ported
Isobaric Chamber: High Performance Carbon Composite
A.C.T.
Monocoque, with carbon fibre ports

Measurements
2.5-way Standmounted Monitor
Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
Frequency Response: 38Hz - 30KHz +/- 2dB
Minimum Amplification Power Recommended: 100 Watts/channel

Dimensions
// Height: 1475mm (58")
// Width: 245mm (9.6")
// Depth: 435mm (17.1")
// Volume: 22L
// Weight per Channel: 100-kg (220 lbs)

Finishes
Silk Black Baffle, Spine and Foot, Carbon Fibre Cabinet.
Bespoke Side Cheek options as follows.
Standard: Black Carbon, Silk Black
Wood Satin: Natural Cherry, Maple, Oak
Wood Gloss: Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano
High Gloss Metal: White Gloss

OUTSTANDING ELITE
OVERALL PERFORMANCE
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