



Wilson beneech  
THE FUTURE IS CARBON

# Vertex



## Standsmount Loudspeaker

Fitted with new Geometry Series drive technology, the Vertex is a compact 2-way design, featuring the revolutionary Semisphere Silk-Carbon Hybrid Dome Tweeter and a single Tactic II drive unit.

Designed and manufactured using the latest 3D CAD/CAM software and tooling, the Geometry Series surpasses in every respect the previous reference line, the Odyssey Range. The drive units are secured in an aluminium baffle, precision machined in house from a solid billet. To the rear of the cabinet, the A.C.T. Carbon Monocoque leaves no question, this is a high-performance Geometry Series thoroughbred.

Sharing common drive technology and construction technology used across the line, the Vertex shares a family sound with the companies flagship loudspeakers. As the entry point into the company's reference line, the Vertex is a compact high-technology stand mount loudspeaker that represents incredible value for money.

“In rooms less that 20-square meters... the Vertex is solo in her element... the latest high-tech products from Sheffield set the standard for purity and fineness of music playback.”  
- Michael Vrzal, Image HiFi, 2012

## UNIT SPECIFICATIONS

### Drive Technologies

1 x 25mm (1") Wilson Benesch Semisphere Tweeter  
1 x 170mm (7") Wilson Benesch Tactic II Drive Unit

### Crossover Topology

Mid / Bass Drive Directly Amplifier Coupled  
1st-Order High Pass Tweeter Filter  
Crossover Frequencies: 5KHz

### Cabinet Technologies

Poly-alloy hybrid construction  
A.C.T. Carbon Fibre Composite Monocoque  
Double Reflex Port Tuning  
Alloy Baffle with machined bevel finishing

### Measurements

2-way  
Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal  
Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input  
Frequency Response: 44Hz - 30KHz +/- 3dB

### Dimensions

Height: 1100mm (43.3")  
Width: 230mm (9.1")  
Depth: 370mm (14.6")  
Weight: 23kg (50.7 lbs)

### Finishes

Black Baffle, Foot, Stand & Carbon Fibre Cabinet.  
Bespoke side cheeks as follows: **Standard:** Black, Titanium // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White  
PI Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver



# Vector



## Floorstanding Loudspeaker

Despite a compact form factor, the Vector creates a sonic presentation of formidable scale and poise.

A 2.5-way design, the Vector features the revolutionary Semisphere Silk-Carbon Hybrid Dome Tweeter, along with a dedicated midrange Tactic II Drive Unit and a bass Tactic II Drive Unit. The two drive units together deliver deep bass and a highly articulate midrange, giving a sound that is rich and layered with all the nuances and timbre of the musical performance.

As with the Vertex, the Vector has been designed using the latest 3D CAD/CAM software and tooling. A full length aluminium baffle is fitted to the floorstanding Vector, machined from a solid billet of aluminium it provides an unyielding structural element to which the drive units are secured. To the rear of the speaker, the beautiful curved form of the carbon fibre A.C.T. Carbon Monocoque creates a refined, but luxurious floorstanding loudspeaker in a compact form.

## UNIT SPECIFICATIONS

### Drive Technologies

- 1 x 25mm (1") Wilson Benesch Semisphere Tweeter
- 1 x 170mm (7") Wilson Benesch Tactic II Midrange Drive Unit
- 1 x 170mm (7") Wilson Benesch Tactic II Bass Drive Unit

### Crossover Topology

- Mid / Bass Drive Directly Amplifier Coupled
- 1st-Order High Pass Tweeter Filter
- Crossover Frequencies: 5KHz

### Cabinet Technologies

- Poly-alloy hybrid construction
- A.C.T. Carbon Fibre Composite Monocoque
- Double Reflex Port Tuning
- Alloy Baffle with machined bevel finishing

### Measurements

- 2.5-way
- Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
- Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
- Frequency Response: 36Hz - 30KHz +/- 3dB

### Dimensions

- Height: 890mm (35")
- Width: 230mm (9.1")
- Depth: 370mm (14.6")
- Weight: 31kg (68.3 lbs)

### Finishes

- Black Baffle, Foot, Stand & Carbon Fibre Cabinet.
- Bespoke side cheeks as follows: **Standard:** Black, Titanium // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White
- P1 Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver

"I'm struck by the realisation that these speakers, even at low volume settings, have the ability to convey the musical intent, the very substance of a musical track in a manner that I am unaccustomed to. It's simply operating at a higher level than I am used to hearing"  
- Mark Gusew, Stereonet, 2015



# discovery II



## Standmount Loudspeaker

A design now inextricably linked to the Wilson Benesch brand, the original Discovery was a classic design with a legion of dedicated followers the world over. In 2016, Wilson Benesch breathed new life into this multi award-winning classic, announcing its return in the Geometry Series.

A 2.5-way monitor loudspeaker, the principle drive unit topology at the heart of the Discovery II remains a unique approach to monitor loudspeaker design. It places the company's Isobaric Drive System, which is mounted in a clamshell formation directly on the underside of the loudspeaker, in close proximity to the Semisphere Tweeter and the dedicated Tactic II midrange drive unit. This compact, highly optimised topology delivers a thoroughly captivating soundstage, rich with dynamic, punchy bass, which is perfectly integrated with the midrange and the high frequency band. The character of the sound produced by the original design, won the hearts and minds of music lovers across the globe, garnering an almost cult following. Now in 2016, the design returns with even more power, more control and more bandwidth.

## UNIT SPECIFICATIONS

### Drive Technologies

- 1 x 25mm (1") Wilson Benesch Semisphere Tweeter
- 1 x 170mm (7") Wilson Benesch Tactic II Midrange Drive Unit
- 2 x 170mm (7") Wilson Benesch Tactic II Isobaric Bass Drive Units (Clamshell)

### Crossover Topology

- 1st-Order Midrange
- 1st-Order Isobaric Bass Roll Off
- 2nd-Order High Pass Tweeter Filter
- Crossover Frequencies: 500Hz / 5KHz

### Cabinet Technologies

- Poly-alloy hybrid construction
- A.C.T. Carbon Fibre Composite Monocoque
- Double Chamber, Differential Reflex Port Tuning for Midrange & Isobaric
- Alloy Baffle with machined bevel finishing

### Measurements

- 2.5-way
- Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
- Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
- Frequency Response: 38Hz - 30KHz +/- 2dB

### Dimensions

- Height: 1105mm (43.5")
- Width: 230mm (9.1")
- Depth: 370mm (14.6")
- Weight: 30kg (66.1 lbs)

### Finishes

- Black Baffle, Foot, Stand & Carbon Fibre Cabinet.
- Bespoke side cheeks as follows: **Standard:** Black, Titanium // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White
- P1 Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver

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... the Discovery II makes me forget so effortlessly that I'm listening to two speakers... the Discovery II is yet again a milestone"

- Wilfried Kress, HiFi & Records, 2017



# act. one<sup>e</sup>



## Floorstanding Loudspeaker

A.C.T. - 'Advanced Composite Technology' - a reference to the carbon fibre composite technologies upon which the Wilson Benesch brand was founded and subsequently has become synonymous with. The A.C.T. acronym was first used in 1991 for the companies first loudspeaker, A.C.T. One. Then subsequently in the A.C.T. Two, A.C.T. and A.C.T. C60 loudspeakers.

A.C.T. One Evolution therefore follows a long line of speakers, embodying the heritage of the Wilson Benesch brand and a now classic A.C.T. design. The characteristic sloping, curved A.C.T. top that was revolutionary in the original design remains, but like the C60 before it, the top is now manufactured from carbon fibre. Similar physical proportions have been retained, however the A.C.T. One Evolution has departed entirely from the traditional drive unit topology used in the previous iterations of the design. The new A.C.T. One Evolution incorporates the Troika System which has been taken directly from the flagship Cardinal loudspeaker.



As with a real stage diva, you like it, because it can do things, of which others only dream! The A.C.T. One Evolution is the best sound I have achieved in my listening room"

- Andreas Wenderoth, Image HiFi, 2017

## UNIT SPECIFICATIONS

### Drive Technologies

- 1 x 25mm (1") Wilson Benesch Semisphere Tweeter
- 2 x 170mm (7") Wilson Benesch Tactic II Midrange Drive Units
- 1 x 170mm (7") Wilson Benesch Tactic II Bass Drive Unit

### Crossover Topology

- Midrange Directly Amplifier Coupled
- 1st-Order Bass Roll Off
- 2nd-Order High Pass Tweeter Filter
- Crossover Frequencies: 180Hz / 500Hz / 5KHz

### Cabinet Technologies

- Poly-alloy hybrid construction
- A.C.T. Carbon Fibre Composite Monocoque
- Reflex Port Tuning Midrange Enclosure, Lower Midrange Enclosure & Bass Enclosure
- Alloy Baffle with machined bevel finishing

### Measurements

- 2.5-way
- Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
- Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
- Frequency Response: 34Hz - 30KHz +/- 3dB

### Dimensions

- Height: 1190mm (46.8")
- Width: 230mm (9.1")
- Depth: 400mm (15.7")
- Weight: 50kg (110 lbs)

### Finishes

- Black Baffle, Foot, Stand & Carbon Fibre Cabinet.
- Bespoke side cheeks as follows: **Standard:** Black, Titanium // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White
- PT Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver



# Endeavour



## Standmount Loudspeaker

Since its foundation, Wilson Benesch has invested heavily in ambitious research and development projects in the fields of materials science and manufacturing. The Endeavour exploits more than two-decades of work, to incorporate a multitude of cutting edge Wilson Benesch technologies.

From the very latest new technology, the Carbon Nanotech Enclosure, to the Isobaric Drive System, the A.C.T. Monocoque and a number of highly engineered, geometrically optimised carbon fibre and alloy components, the Endeavour is a masterpiece of engineering.

Featuring the very latest Wilson Benesch Drive Technology, the Endeavour is capable of delivering wide bandwidth sound from 36Hz to 30kHz. A dedicated Tactic II midrange drive unit sits inside the Carbon Nanotech Enclosure, with a clamshell formation Tactic II Isobaric System taking care of the lightning-fast bass to create a perfectly integrated low-mid range response. At the centre, the Hemisphere Silk-Carbon Hybrid dome Tweeter delivers a perfectly tonally balanced and natural sounding high frequency band.

Through expert design and craftsmanship, advanced materials technology has been combined with geometry in every component to create a stand mount loudspeaker design with no compromise. The Endeavour faithfully reproduces the musical ensemble, as though the performers were there in the room before you.

## UNIT SPECIFICATIONS

### Drive Technologies

- 1 x 25mm (1") Wilson Benesch Hemisphere Tweeter
- 1 x 170mm (7") Wilson Benesch Tactic II Midrange Drive Unit
- 2 x 170mm (7") Wilson Benesch Tactic II Isobaric Bass Drive Units (Clamshell)

### Crossover Topology

- 1st-Order Midrange
- 1st-Order Isobaric Bass Roll Off
- 2nd-Order High Pass Tweeter Filter
- Crossover Frequencies: 500Hz / 5KHz

### Cabinet Technologies

- Poly-alloy hybrid construction
- A.C.T. Carbon Fibre Composite Monocoque
- Carbon-Nanotech Midrange Enclosure with Carbon Fibre Port
- Double Reflex Carbon Fibre Port Tuned Isobaric Drive System
- 4kg Precision Machined Isobaric Drive System Bass Board

### Measurements

- 2.5-way
- Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
- Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
- Frequency Response: 36Hz - 30KHz +/- 3dB

### Dimensions

- Height: 1475mm (58")
- Width: 245mm (9.6")
- Depth: 435mm (17.1")
- Weight: 70kg (154 lbs)

### Finishes

- Aerospace Soft Touch Black Baffle, Foot, Stand & Carbon Fibre Cabinet.
- Bespoke side cheeks as follows: **Standard:** Soft Touch Black // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White
- P1 Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver

// The Endeavour 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*, 2015



# resolution



## Floorstanding Loudspeaker

Resolution exists within the rarefied environment at the upper echelons of high-end audio, where in order to push the boundaries of performance to a new level every single element in the design and execution of a product must be optimised. The Resolution is another bold statement that underlines the design philosophy at Wilson Benesch.

Resolution is equipped with the latest Wilson Benesch drive technologies, that have been designed, developed and manufactured by the company's design team. Both the Tactic-II dynamic drive unit and the Semisphere Tweeter are built using powerful NdFeb magnets. The magnets are assembled within highly engineered, low-profile alloy structures designed to extract maximum power from the exotic magnets.

Isotactic Polypropylene is utilised in the Tactic-II and a Silk-Carbon hybrid dome in the Semisphere. The choice of materials within the membrane of the drive technology is critical to the character of the Resolution, providing an intelligently considered balance of stiffness and damping characteristics. The Resolution is capable of producing a wide bandwidth frequency response from 30Hz to 30kHz, whilst remaining transparent and integrated across the band, suspending belief and allowing the listener to disappear within a wide-open soundscape.

### UNIT SPECIFICATIONS

#### Drive Technologies

- 1 x 25mm (1") Wilson Benesch Semisphere Tweeter
- 1 x 170mm (7") Wilson Benesch Tactic II Midrange Drive Unit
- 1 x 170mm (7") Wilson Benesch Tactic II Sub-Bass Drive Unit
- 4 x 170mm (7") Wilson Benesch Tactic II Isobaric Drive Units (Clamshell)

#### Crossover Topology

- Midrange 1st-Order 5kHz Low Pass & Acoustically Tuned 500Hz Roll off
- Sub-Bass 1st-Order 300Hz Low Pass Filter
- Isobaric Drive System 1st-Order 500Hz Low Pass Filter
- 2nd-Order High Pass 5kHz Tweeter Filter
- Crossover Frequencies: 300Hz / 500Hz / 5KHz

#### Cabinet Technologies

- Poly-alloy hybrid construction
- A.C.T. Carbon Fibre Composite Monocoque
- Midrange Infinite Baffle Sealed Enclosure
- Sub-Bass Infinite Baffle Sealed Enclosure
- Isobaric Drive System Reflex Port Tuning

#### Measurements

- 2-way electric, 4-way acoustic
- Nominal Impedance: 6 Ohms Nominal / 3 Ohms Minimal
- Sensitivity: 90dB @ 1-Meter on axis, 2.83V Input
- Frequency Response: 30Hz - 30KHz +/- 3dB

#### Dimensions

- Height: 1590mm (62.6")
- Width: 520mm (20.5")
- Depth: 547mm (21.5")
- Weight: 95kg (209.5 lbs)

#### Finishes

- Aerospace Soft Touch Black Baffle, Foot, Stand & Carbon Fibre Cabinet.
- Bespoke side cheeks as follows: **Standard:** Soft Touch Black // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White
- P1 Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver

“The Wilson Benesch Resolution is a superb loudspeaker... it delivers a level of musical coherence and insight, a balance of the convincing and the communicative, that puts it at the forefront of current loudspeaker performance.”

- Roy Gregory, *The Audiobeat*, 2018



# Cardinal



## Floorstanding Loudspeaker

Equipped with a total of eighteen Wilson Benesch drive units per pair, the Cardinal is capable of delivering wide bandwidth sound from 25Hz to 30kHz.

During the development of the Cardinal extensive R&D resulted in the Troika System; a new drive unit topology - that places the Semisphere Tweeter at the heart of the upper and lower Tactic II midrange drive units. The Troika not only places three highly integrated Wilson Benesch drive units in close proximity, but it also directly interrelates with the cabinet and drive unit architecture to create mechanical filtering. The result is a highly optimised crossover, with all electrical components reduced or removed entirely to preserve the perfect signal from the amplifier.

Two Isobaric Drive Systems deliver powerful, highly dynamic bass through a total of four Tactic II Drive Units. In the Cardinal, the deployment of the Isobaric Drive System is no less unique. Unlike any other Wilson Benesch loudspeaker, Cardinal sees the Isobaric Drive Units configured in a lined-astern formation. Such is the power of the system, Wilson Benesch use a 4kg machined alloy sub-baffle to house the Isobaric Drive System - an unyielding platform from which the Cardinal delivers its lightning-fast, highly-dynamic and powerful low frequency.

The Cardinal is a masterpiece of engineering; total harmony in all the parts, fitted together with such proportion and connection, that nothing could be added, diminished or altered but for the worse.

## UNIT SPECIFICATIONS

Lower Mid / Upper Mid Drive Units Directly Amplifier Coupled  
2nd-Order High Pass Tweeter Filter  
Crossover Frequencies: 500Hz / 5KHz

### Cabinet Technologies

Poly-alloy hybrid construction  
A.C.T. Carbon Fibre Composite Monocoque  
Lower Midrange Infinite Baffle Sealed Enclosure  
Upper Midrange ABR Sealed Enclosure  
Isobaric Drive System Chamber ABR Sealed Enclosure  
Isobaric Drive System Housed in 4kg Machined Alloy Sub Baffle

### Measurements

2-way Electric, 4-way Acoustic  
Nominal Impedance: 6 Ohms Nominal / 3 Ohms Minimal  
Sensitivity: 90dB @ 1-Meter on axis, 2.83V Input  
Frequency Response: 25Hz - 30KHz +/- 2dB

### Dimensions

Height: 1735mm (68.3")  
Width: 620mm (24.4")  
Depth: 640mm (25.2")  
Weight: 140kg (308 lbs)

### Finishes

Aerospace Soft Touch Black Baffle, Foot, Stand & Carbon Fibre Cabinet.  
Bespoke side cheeks as follows: **Standard:** Soft Touch Black // **Satin Wood:** Natural Cherry, Oak // **Gloss Wood:** Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebony Walnut, Walnut, Red Tulip, Zebrano // **High Gloss:** White  
PI Coloured Carbon Fibre Finishes: Enzo Red, Ettore Blue, Silverstone Silver

// Of all the great and grand speakers, on this earth, the Wilson Benesch is possibly the most beautiful. The awe-inspiring price here comes with awe-inspiring performance and a sensational dynamics, and not just an awe-inspiring look"

- Cai Brockman, Fidelity AV, 2014





# Torus



## Infrasonic Generator & Amplifier

The Torus places an 18" light-weight, super-stiff, multi-axial Carbon Fibre cone at the end of a phenomenally powerful push-pull motor. Unlike a common subwoofer that relies upon a high hysteresis suspension to reset the cone to zero, the cone position in the Torus is dictated at all times by electromagnetism. The result is low frequency sound with absolute precision and integration across the frequency range.

At the heart of the Torus is the core, a formidable 16kg precision machined steel column, with the two large rare earth magnets of the push-pull motor either side. The core is the reference point for every other component in the design, acting both to focus structural borne resonance directly to earth with zero reference to the outer enclosure and also a high capacity heat sink.

In the Torus, where huge amounts of low frequency energy are generated, thermal efficiency is a critical concern. In addition to the steel core, Wilson Benesch developed a Boron Nitride coil in collaboration with Oxford University. Boron Nitride offers the high electrical conductivity required by any coil design, but its thermal conductivity supersedes that of copper by several orders of magnitude.

The elegant and minimal toroidal shape of the Torus is a testament to the use of purist geometry in every component. Whether it be often earth shattering low frequencies in a home cinema, or the attack and dynamics of a drum solo, the Torus never misses a beat or fails to deliver the physical impact that we know and love of low frequency sound.

// Strokes of genius are rare in any field, but I think Milnes' Torus qualifies"  
- Jonathan Valin, *The Absolute Sound*, 2007

## UNIT SPECIFICATIONS

### Drive Technologies

1 x 457mm (18") Carbon Fibre Diaphragm Dual Coil Push Pull Motor Design

### Cabinet Technologies

Precision Machined MDF Cabinet with Steel Bracing  
Sealed Enclosure  
Super Low Compliance Suspension  
16kg Steel Core

### Measurements

Impedance: 8 Ohms per coil (can be wired in series or in parallel)  
Sensitivity: 100dB @ 1-Meter on axis, 2.83V Input  
Frequency Response: 10Hz - 150Hz -6dB @ 18Hz  
1000W Peak Program  
200w Discrete Bipolar DC Coupled Amplifier

### Dimensions

Height: 330mm (12.9")  
Diameter: 457mm (18")  
Weight: 32kg (70.5 lbs)  
Amplifier Height: 90mm (3.54")  
Amplifier Width: 430mm (16.9")  
Amplifier Depth: 300mm (11.8")  
Amplifier Weight: 10kg (22 lbs)

### Finishes

Piano Black Gloss Cabinet  
High Gloss Carbon Fibre Diaphragm  
Polished Chrome Anodised Exterior Pole Component

