



RADIANT ACOUSTICS

CLARITY | DEEP DIVE

EVERY MUSIC LOVER DESERVES TRULY GREAT HIGH-END HI-FI

Throughout my nearly 50 years in the audio industry, my goal has always been to redefine what great sound can be. Radiant Acoustics marks the latest chapter in this journey, and I'm thrilled to share it with you!

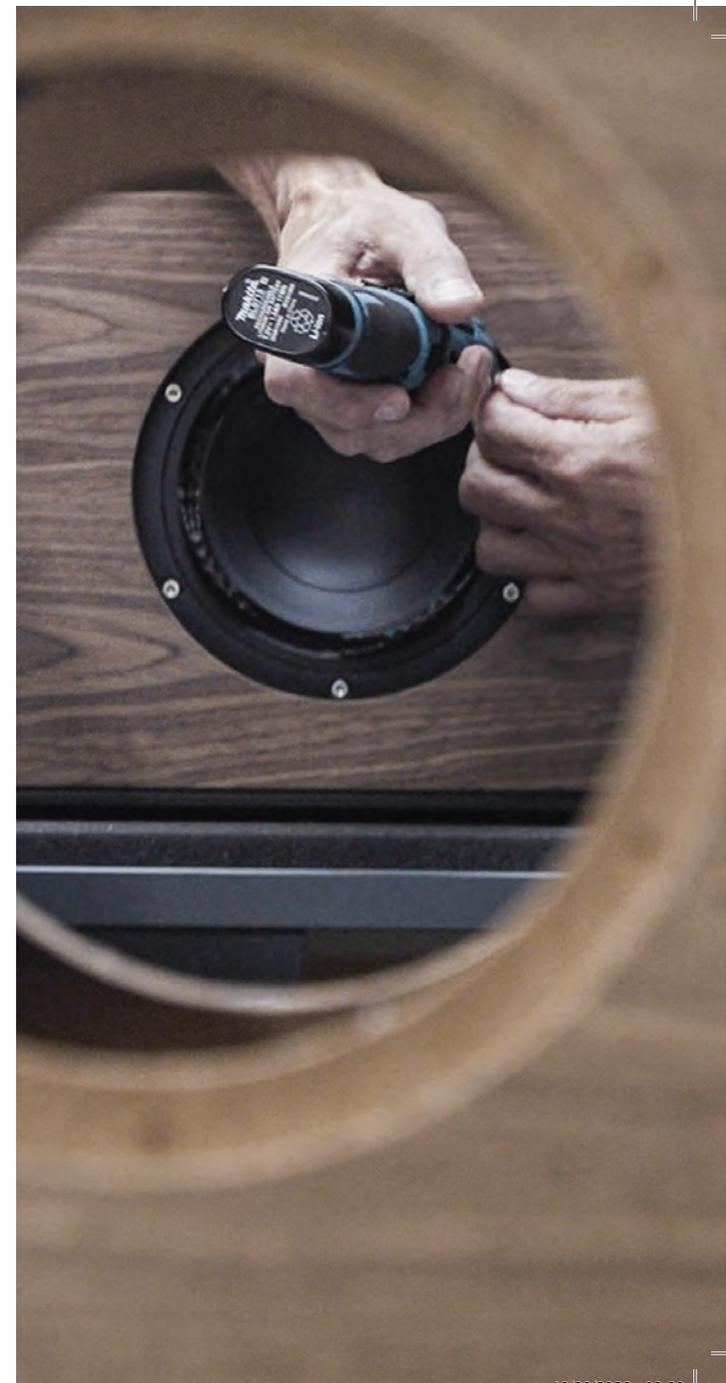
Born from the collaboration of several talented minds in my organization, Radiant Acoustics delivers outstanding sound quality at an incredible value. Our Clarity-series, designed for discerning music lovers, offer a faithful reproduction of live music with truly outstanding dynamics—all in a compact, elegant design.

Peter Lyngdorf
Founder, HiFi Klubben, DALI & Radiant Acoustics
Co-Founder, PURIFI



THIS IS RADIANT ACOUSTICS

Radiant Acoustics is not just another speaker brand; it is a game-changer in the audio industry. Born from the collaboration of three esteemed companies closely associated with Peter Lyngdorf, Nordic Hi-Fi, PURIFI, and HiFi Klubben, Radiant Acoustics aims to redefine the hi-fi experience and set new standards for premium audio products. The mission is to provide high-end audio products at affordable prices, bringing exceptional sound quality within reach of discerning listeners and enabling audio enthusiasts everywhere to experience music in its purest form.





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A black speaker with two drivers is the central focus. It is surrounded by numerous light-colored wooden shavings that appear to be falling or floating around it, creating a sense of motion and texture. The background is dark, making the speaker and the shavings stand out.

“

When you sit down to listen to a pair of Clarity speakers, the first thing you'll notice is the lack of distortion, resulting in a smooth and natural sound. You experience all the details in the recording, but they aren't harsh or overwhelming. Your shoulders relax, and you think: "OK, this sounds just right..."

Henrik Sørensen
CEO, Nordic Hi-Fi

CLARITY SERIES

NO NOISE, JUST MUSIC

Radiant Acoustics' Clarity-series represents the culmination of decades of expert craftsmanship, groundbreaking technology, and an unwavering commitment to high-fidelity audio. By leveraging the cutting-edge innovations of PURIFI, the value-driven model of Nordic Hi-Fi, and the expertise and retail infrastructure of HiFi Klubben, we are able to bring you a listening experience that defies conventional limitations, both in terms of performance and price point.

For audiophiles, discerning listeners, or just plain music lovers, our Clarity speakers offer an extraordinary level of detail, dynamic range, and clarity. This achievement is the result of a unique collaboration among some of the brightest minds in the audio industry, all with a shared goal: to eliminate distortion while delivering uncompromising accuracy and effortless dynamics, revealing music in its purest form.





CLARITY 4.2

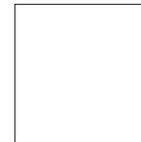


CLARITY 6.2
CLARITY STANDS

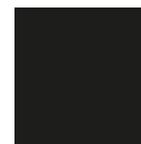


CLARITY 66

FINISHES



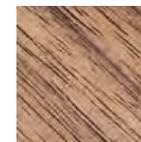
4.2 & 6.2
WHITE
Matte Lacquer



4.2, 6.2 & 66
BLACK
Matte Lacquer



4.2, 6.2 & 66
OAK
Veneer



4.2, 6.2 & 66
WALNUT
Veneer

CLARITY 4.2

REWRITING THE RULES

The award-winning Clarity 4.2 speaker is engineered to deliver an astonishingly low level of distortion, setting a new benchmark for precision and fidelity in its class. The clarity and power delivered by a speaker this compact is nothing short of extraordinary. Despite its ultra-compact size, Clarity 4.2 delivers an expansive, full-bodied, and deeply immersive presentation. It is a performance you simply must hear to believe.

CLARITY 6.2

CUTTING-EDGE INNOVATION

Experience rich, well-defined bass, crystal-clear midrange, and a pristine top end with Clarity 6.2—a compact two-way speaker system that delivers expansive, distortion-free sound. Clarity 6.2 produces a soundstage that feels open and effortlessly composed, even at higher listening levels, delivering performance well beyond its size and price. The larger drivers allow it to delve deeper into the low end while maintaining clarity and control, even at higher SPLs than its smaller counterpart.

CLARITY 66

THE PINNACLE OF CLARITY

Clarity 66 is the ultimate expression of the Clarity philosophy. A full-range floor-standing speaker designed for extreme precision, immense power, deep linear bass, and distortion below the threshold of audibility. Capable of reaching breathtaking low frequencies with authority and composure, it does so without sacrificing linearity or control. Every element is mathematically optimized and engineered as part of one coherent acoustic system, achieving unmatched performance and refinement.



CLARITY 4.2 CLARITY 6.2

ULTRA-LOW DISTORTION

PURIFI USHINDI COATED PAPER/FIBER WOOFER

CLARITY 66

ULTRA-LOW DISTORTION

PURIFI USHINDI ALUMINUM WOOFER

CLARITY 4.2 CLARITY 6.2 CLARITY 66

FULLY SYMMETRICAL
HIGH-END AMT TWEETER

CLARITY 6.2 CLARITY 66

CUSTOM WAVEGUIDE

HIGH-FREQUENCY BEAM EXPANSION

CLARITY 66

BASSPORT

SUPERFLARE™

CLARITY 4.2 CLARITY 6.2

PASSIVE RADIATORS

DUAL PURIFI USHINDI PAPER/FIBER WOOFER

CLARITY 4.2 CLARITY 6.2 CLARITY 66

HIGH-QUALITY CABINET

OPTIMIZED FOR LOW DISTORTION & SYSTEM PERFORMANCE

CLARITY 66

CABINET RESONANCE CONTROL

STEEL ROD MOUNTING

CLARITY 4.2 CLARITY 6.2

BRACING

EXTENSIVE CABINET BRACING





“

It's a dream come true to have a project like Radiant Acoustics that offers such exceptional performance at an affordable price. Radiant Acoustics insisted on no compromises, which is why they're using the full-blown USHINDI woofers with all the bells and whistles—and they've managed to do that in an affordable product. Personally, it's a joy to see more people have access to the full package of everything we've worked on at PURIFI over the last decade.

Lars Risbo
Co-Founder & CTO, PURIFI

PURIFI NEUTRAL SURROUND

CLARITY 4.2

CLARITY 6.2

CLARITY 66

ULTRA-LOW DISTORTION PURIFI USHINDI WOOFERS

At the core of the Clarity speakers lies cutting-edge woofer technology from PURIFI Audio. Radiant Acoustics exclusively uses PURIFI's top-of-the-line USHINDI woofers, which deliver class-leading performance.

USHINDI woofers are engineered to minimize distortion and maximize efficiency, allowing these compact long-stroke woofers to rival much larger woofers with shorter strokes in pure output. Typically, a long-stroke woofer would compromise the midrange in a compact speaker due to excessive driver movement, but through advanced engineering, PURIFI has created a woofer with both an exceptionally long stroke and extremely low distortion. As a result, the USHINDI woofers offer remarkable frequency extension, deliver deep bass, and maintain clarity and precision in the midrange.

USHINDI woofers feature several patented solutions to minimize distortion, including the PURIFI PureDrive ultra-linear motor system, cone geometry optimized through mathematical refinement, and the acclaimed PURIFI NeutralSurround.

While Clarity 4.2 and 6.2 utilize paper cones, Clarity 66 features a aluminum-cone version of the 6.5" USHINDI woofer. The slightly heavier aluminum diaphragm contributes to deeper bass extension while delivering even lower distortion and a smoother frequency response. Break-up behavior is exceptionally well controlled, particularly with the concave dust cap, ensuring cleaner and more predictable performance at higher frequencies.

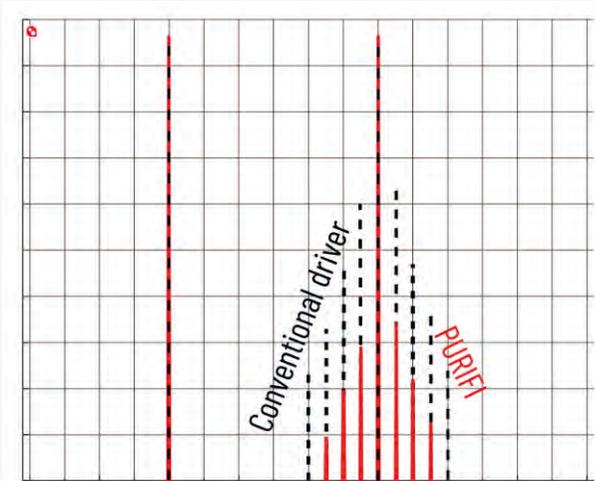


CLARITY 4.2 USES PTT4.0X04-NLC-02 WOOFER
CLARITY 6.2 USES PTT6.5X04-NLA-10 WOOFER
CLARITY 66 USES PTT6.5X08-NAA-09 WOOFERS

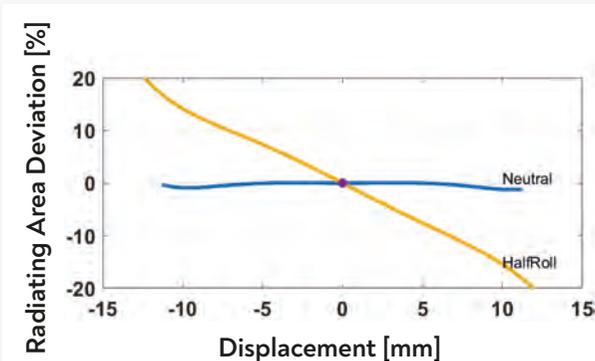
KEY FEATURES

PURIFI USHINDI

- 1. Ultra-Low Harmonic Distortion (HD):** USHINDI woofers minimize HD to levels comparable with top amplifiers, ensuring minimal audible coloration and a more accurate sound.
- 2. Ultra-Low Intermodulation Distortion (IMD):** USHINDI woofers dramatically reduce intermodulation distortion (IMD), which occurs when different frequencies, such as a female voice and a bass guitar, are played simultaneously. This distortion, which can blur the clarity of music by allowing low-frequency tones to interfere with mid and high-frequency sounds, is reduced by over ten times compared to other high-end drivers, due to PURIFI's advanced technologies.
- 3. NeutralSurround:** A standout feature is the NeutralSurround edge suspension. With its mountain-like design, it can maintain a consistent diaphragm area even during large fluctuations. Unlike standard suspensions that often cause sound distortion, especially IMD when frequencies overlap, this mirror-symmetrical design ensures almost no deviation in the radiating area, maintaining superior sound quality even in the most complex tracks.



2. Ultra Low Intermodulation Distortion (IMD)

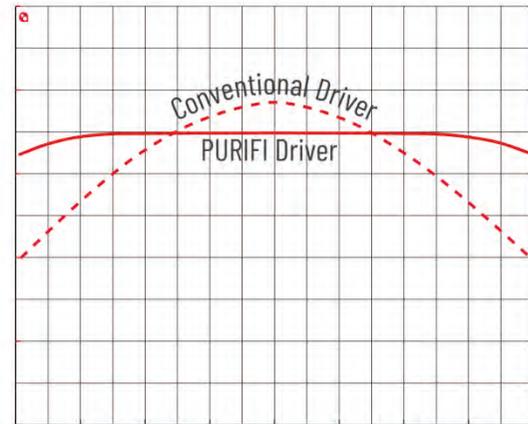


3. NeutralSurround

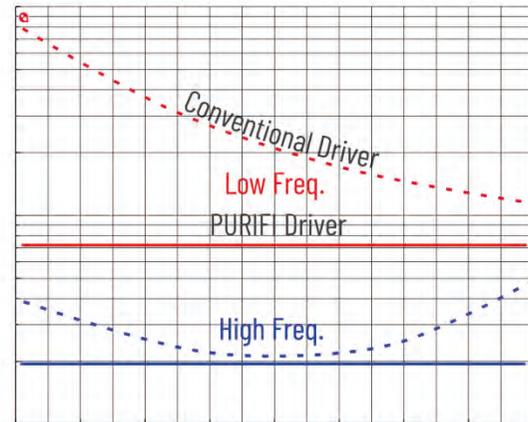
KEY FEATURES

PURIFI USHINDI

- 4. Constant Force Factor Across Voice Coil Position ($Bl(x)$):** USHINDI woofers maintain a nearly constant Bl across the voice coil's range, reducing amplitude modulation and distortion, ensuring clear midrange performance even at high sound pressure levels.
- 5. Constant Inductance Across Voice Coil Position ($L_{gen}(x)$):** USHINDI woofers minimize distortion through an advanced motor design that maintains consistent inductance, resulting in lower intermodulation distortion and more accurate audio output, ensuring exceptionally pure sound reproduction.
- 6. Ultra-Low Current Distortion:** USHINDI woofers minimize magnetic hysteresis distortion, reducing unpleasant artifacts in higher frequencies for an exceptionally clean, grain-free audio experience with a deep, black background in the music.
- 7. Smooth Frequency Response with Excellent Dispersion:** The optimized cone geometry and proprietary materials, such as PURIFI NeutralSurround and ConeRing, provide USHINDI woofers with a smooth frequency response and controlled dispersion, minimizing break-up modes, ensuring natural high-frequency roll-off, and enhancing integration within crossover networks for a more immersive listening experience.



4. Constant Force Factor Across Voice Coil Position



5. Constant Inductance Across Voice Coil Position





CLARITY 4.2

CLARITY 6.2

CLARITY 66

SPEAKER DESIGN

TWO-WAY SYSTEMS

All Clarity speakers are two-way designs, which provides some significant advantages to this range of speakers. Simply put, fewer, better-integrated elements produce more natural sound. By relying on the exceptionally linear and wide-bandwidth PURIFI USHINDI woofers, we achieve deep bass extension and a transparent mid-range without the need for a dedicated midrange driver or more complex multi-way architectures.

A two-way design allows us to utilize the driver quality while focusing on crossover precision and time alignment. With only one crossover region, phase behavior is easier to control, resulting in greater coherence through the midrange, where music carries most of its crucial content.

This design choice is especially relevant in Clarity 66, since most compact floor-standing speakers are designed as either 3-way or 2.5-way systems. Well-executed three-way designs can offer advantages in ultimate output and driver specialization. However, they also introduce an additional crossover region in the most sensitive part of the frequency spectrum—where human voices and acoustic instruments live, and where phase accuracy and

timing are especially critical. This added complexity can compromise time-domain performance, reducing perceived speed and impact. A 2-way design avoids much of this by crossing over higher, preserving timing accuracy and coherence. This is one of the key reasons why two-way designs are often perceived as more immediate and dynamically responsive.

Clarity 66 uses two identical extended-stroke woofers operating in parallel in a true 2-way configuration with the tweeter. This approach avoids the issues inherent to 2.5-way and 3-way systems, while doubling bass capability. By sharing the workload, the woofers operate with significantly lower distortion at any given sound pressure level. At the same time, their vertical alignment moves the system closer to a line-source behavior, resulting in more controlled vertical dispersion. In real listening environments, particularly those with reflective floors and ceilings, this reduces floor-bounce interference and improves overall clarity and bass definition.

The result is deeper, cleaner bass, a more coherent mid-range, and faster, more precise transients—without the compromises of conventional multi-way designs.

CLARITY 4.2

CLARITY 6.2

CLARITY 66

FULLY SYMMETRICAL HIGH-END AMT TWEETER

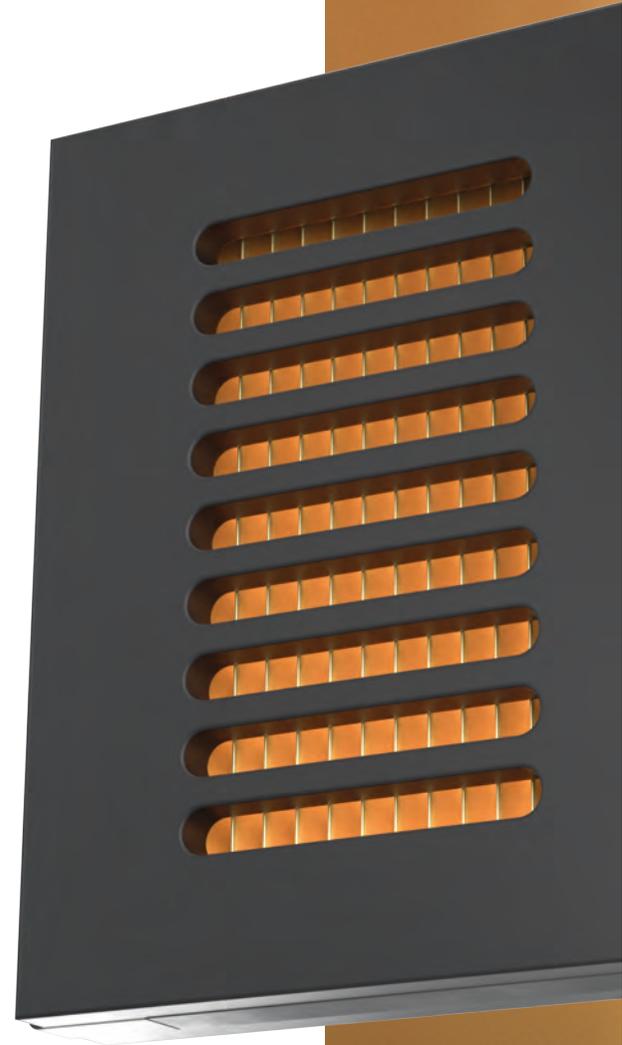
The Clarity speakers feature a custom-designed, top-of-the-line AMT (Air Motion Transformer) tweeter with an ultra-thin folded diaphragm and a large surface area, which delivers powerful and precise high-frequency reproduction. The super-sized AMT tweeter, meticulously crafted for Radiant Acoustics by sister company DALI, boasts very high efficiency—up to four times greater than a typical dome tweeter, and way higher than other, smaller AMT tweeters. This high output capacity significantly reduces the risk of overload and current compression, minimizing distortion.

A key feature of this AMT tweeter is its symmetrical dual-magnet configuration, providing a stronger and more stable magnetic field compared to the more common single-magnet design used in other AMT tweeters. This dual-magnet system ensures greater control over the diaphragm's movement, leading to

even lower distortion and improved clarity in high-frequency reproduction. The increased magnetic force also contributes to the tweeter's exceptional efficiency and power-handling capabilities.

Compared to a standard dome tweeter, this AMT's exceptionally large diaphragm and absence of typical diaphragm break-up provide excellent linearity across all frequencies, once again resulting in incredibly low distortion. Its outstanding power handling also ensures there is no thermal compression.

Overall, the different technologies in the tweeter come together to deliver extremely low distortion and crystal-clear, yet powerful and dynamic sound, making it the perfect match with the PURIFI woofers, allowing the Clarity speakers to harness the potential of the USHINDI technology fully.





CUSTOM WAVEGUIDES

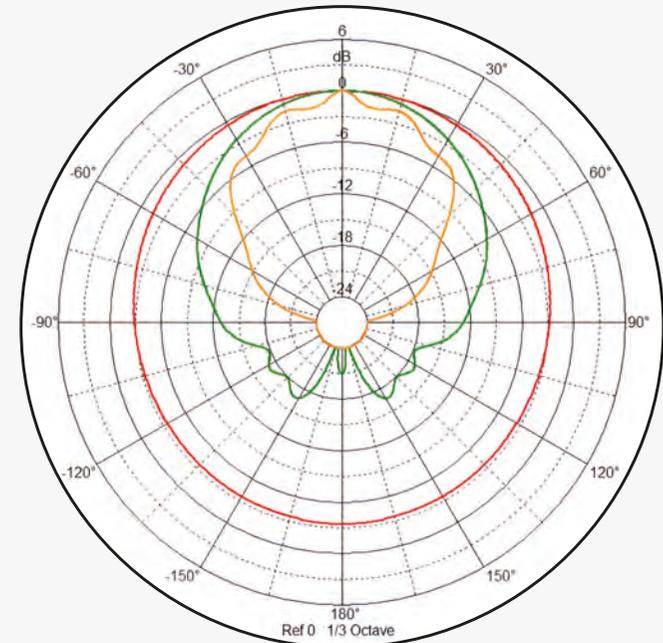
CLARITY 4.2

COMPACT DISPERSION-OPTIMIZED WAVEGUIDE

In developing Clarity 4.2, we made a conscious decision to include a distinctly different waveguide from the one found in the 6.2 and 66. The fin-style waveguide used in the larger models is highly effective, but it is also spatially demanding. Its geometry and five coherers require a certain physical size to perform as intended. Integrating that system into the 4.2 would have driven the enclosure well beyond the compact form factor that defines the speaker. Therefore, Clarity 4.2 employs a simpler, more compact design optimized specifically for its size and operating range.

The 4" PURIFI woofer utilized in Clarity 4.2 naturally exhibits a somewhat wide dispersion at higher frequencies, which aligns closely with the AMT tweeter's characteristics. As a result, the need for directivity control via a waveguide is greatly reduced.

Rather than forcing a complex waveguide where it offers diminishing returns, the 4.2's design leverages the natural dispersion characteristics of its drivers as well as a meticulously optimized crossover. The result is a balanced, consistent off-axis response that preserves the speaker's clarity and spatial accuracy, while remaining true to its compact, space-efficient mission.



2D DIRECTIVITY ANALYSIS

360° horizontal radiation, measured at three frequencies
(200 Hz / 2000 Hz / 20 KHz)

Dispersion decreases steadily and consistently as the frequency increases.

At 20 kHz, the SPL remains within 6 dB of the on-axis level until nearly 40° off-axis.

CLARITY 6.2

DUAL-PURPOSE HIGH-FREQUENCY BEAM EXPANSION WAVEGUIDE

Developed by PURIFI for Radiant Acoustics and featured in Clarity 6.2 and Clarity 66, the custom waveguide with five aluminum 'fins' (or coherers) is more than a design feature—it addresses a key challenge in integrating an AMT tweeter with a 6.5" PURIFI woofer. Typically, pairing an AMT tweeter with a mid/woofer requires the woofer to operate at higher frequencies to match the AMT at the crossover point. This can cause the woofer to become very directional, or 'beamy', at higher frequencies, while the AMT has a much wider dispersion, leading to a discontinuity in the sound.

The waveguide narrows the AMT's directivity to align with the woofer at the crossover region, creating a seamless and smooth transition between the two. This alignment ensures an accurate and cohesive soundstage. Additionally, the shape of the waveguide restricts vertical dispersion, minimizing unwanted reflections from the ceiling and floor. To achieve the most precise, even, and natural sound distribution, PURIFI fine-tuned the waveguide's geometry through extensive simulations, resulting in the distinctive and effective design used in Clarity 6.2 and 66.

What sets this waveguide apart is its dual function: while the shape of the waveguide itself narrows the tweeter's directivity to perfectly match the woofer around 2400 Hz, the fins also help broaden the AMT's dispersion at higher frequencies. This dual design allows the listener to enjoy intricate details even when not situated in the classic sweet spot.

In short, this custom waveguide not only enhances the transition between the AMT and the woofer but also ensures a consistent and engaging listening experience across the entire room in higher frequencies. This is why it is referred to as a dual-purpose waveguide, and it represents a truly unique and innovative design made especially for the Clarity speakers.



BASS LOADING

CLARITY 4.2

CLARITY 6.2

DUAL PURIFI USHINDI PASSIVE RADIATORS

To further enhance performance, the stand-mount Clarity speakers utilize passive PURIFI USHINDI radiators instead of conventional bass reflex ports. These radiators essentially function as motorless woofers, dramatically improving the bass extension of the speakers. The two 6.5" radiators in the 6.2 model and the two 4" radiators in the 4.2 feature large surface areas, enabling slower movement, ensuring deep bass with incredibly low distortion. This design achieves deep bass in a compact cabinet, something a ported design would require a larger cabinet to accomplish. The smaller cabinet also reduces internal standing waves, while passive radiators eliminate port noise, resulting in cleaner bass that does not compromise midrange clarity.

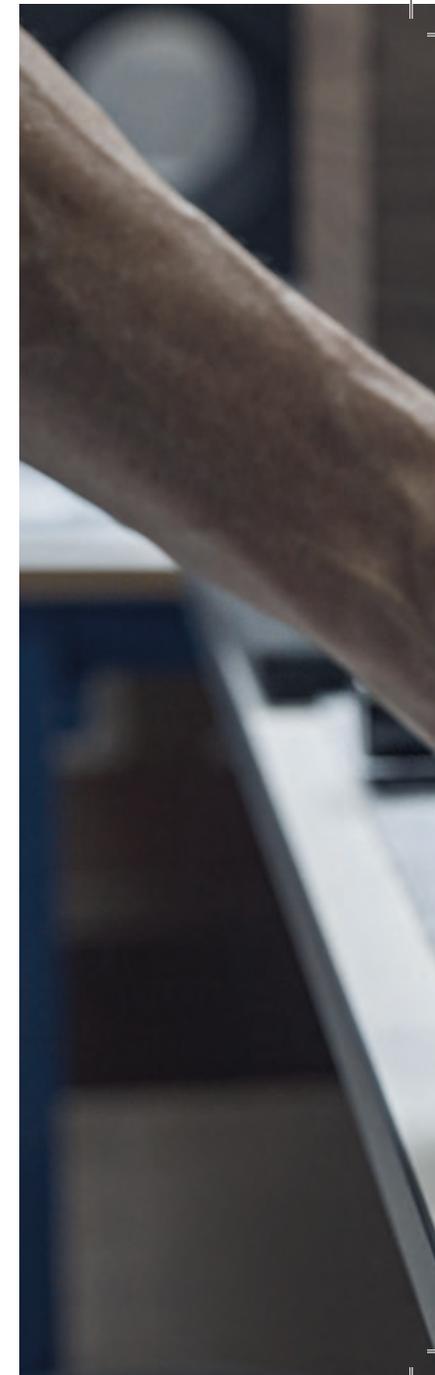
While the PURIFI passive radiators are much more expensive than conventional options, matching the passive radiators exactly to the active woofer is key to achieving the low distortion and exceptional sound quality that the Clarity speakers were designed to deliver.

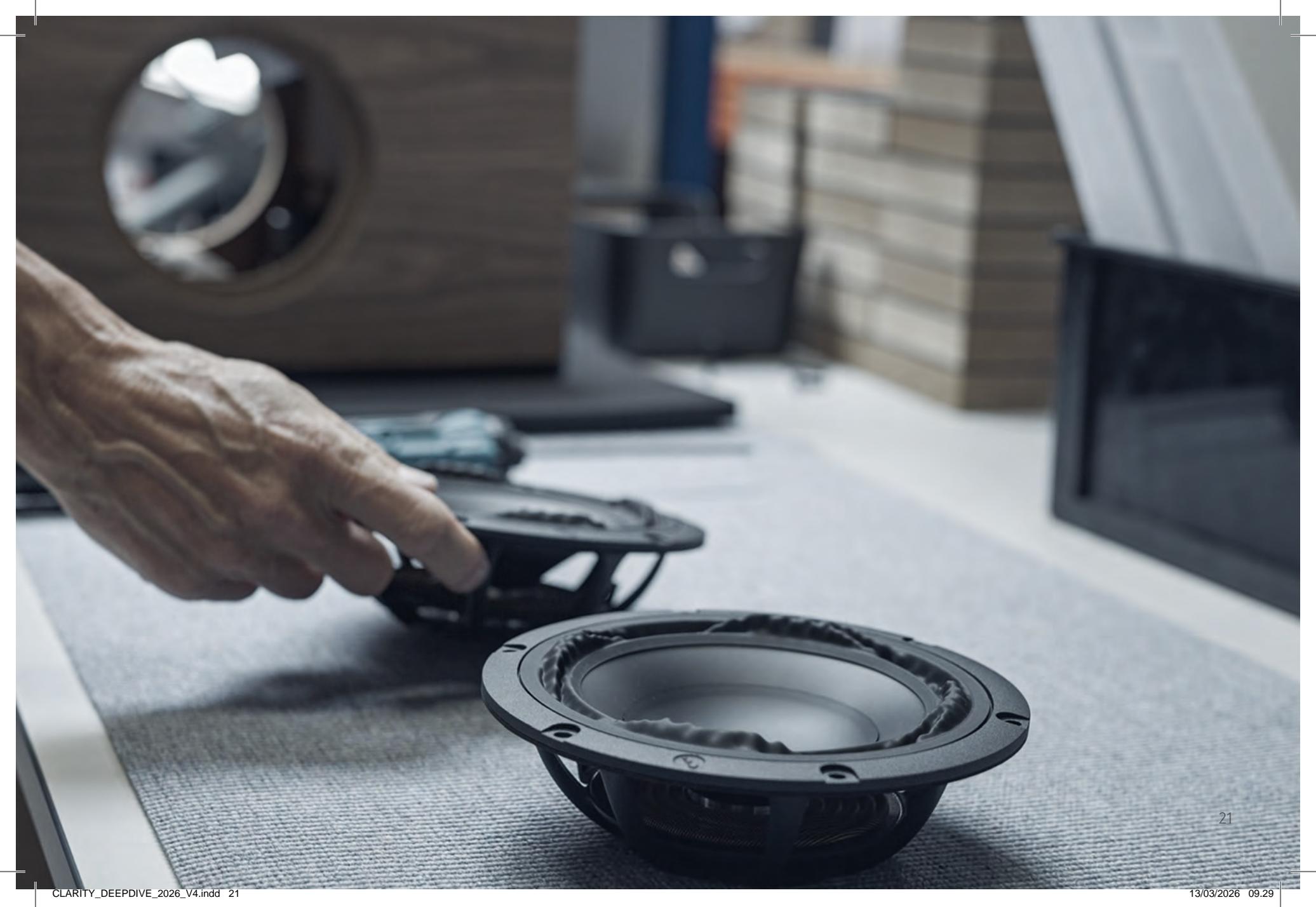
CLARITY 6.2 USES PTT6.5PR-NL2-02 RADIATORS.

CLARITY 4.2 USES CUSTOM PTT4.0PR-NL2-03 RADIATORS.

The passive radiators are positioned back-to-back in a Dual Balanced Push-Pull configuration, with both units aligned along the same horizontal center axis, perpendicular to the active driver's axis. This arrangement ensures that the mechanical forces exerted by the passive units on the enclosure balance out to zero, even during extreme displacement. As a result, any intermodulation distortion of the direct sound from the units or front baffle is eliminated. Additionally, this configuration ensures complete cancellation of reactive forces, maintaining absolute enclosure stability even at extreme excursion.

The passive radiators used in the Clarity 4.2 have been specially tweaked exclusively for Radiant Acoustics by PURIFI. Additional weight has been added to them, lowering the resonant frequency and allowing Clarity 4.2 to deliver deeper, more controlled bass than typically possible in a speaker of this size.





SUPERFLARE™ BASSPORT

While passive radiators are an ideal solution for compact stand-mount loudspeaker designs, the larger cabinet volume of Clarity 66 enables an even more ambitious approach to bass loading. Deep bass is easy to promise, but hard to deliver cleanly. A bass reflex port can deliver deeper low-frequency extension and a more gradual roll-off than a passive radiator, but conventional ports can add port noise and compression when the music demands extreme airflow for true deep bass.

Radiant Acoustics addressed these limitations with the proprietary Superflare™ bass port, developed specifically for Clarity 66 by PURIFI and their co-founder, Lars Risbo. Designed to handle extreme air displacement with distortion - and noise levels lower than those of passive radiators, Superflare™ enables a ported system that reaches deeper in the bass while maintaining exceptional clarity and control.

The tall cabinet is acoustically modeled as a constant-cross-section transmission line with carefully distributed damping material. This effectively suppresses the primary standing wave around 150 Hz without absorbing energy at the port tuning frequency, where most of the acoustic output is generated. In this configuration, the cabinet itself becomes part of the port system, allowing a shorter physical port while minimizing midrange leakage. A rear-facing port positioned close to the floor was selected to further reduce audible midrange radiation and standing-wave output toward the listener. The Superflare™ port geometry is the result of FEA-based aerodynamic optimization. The port features a continuous, smoothly varying profile that controls airflow along its entire length.

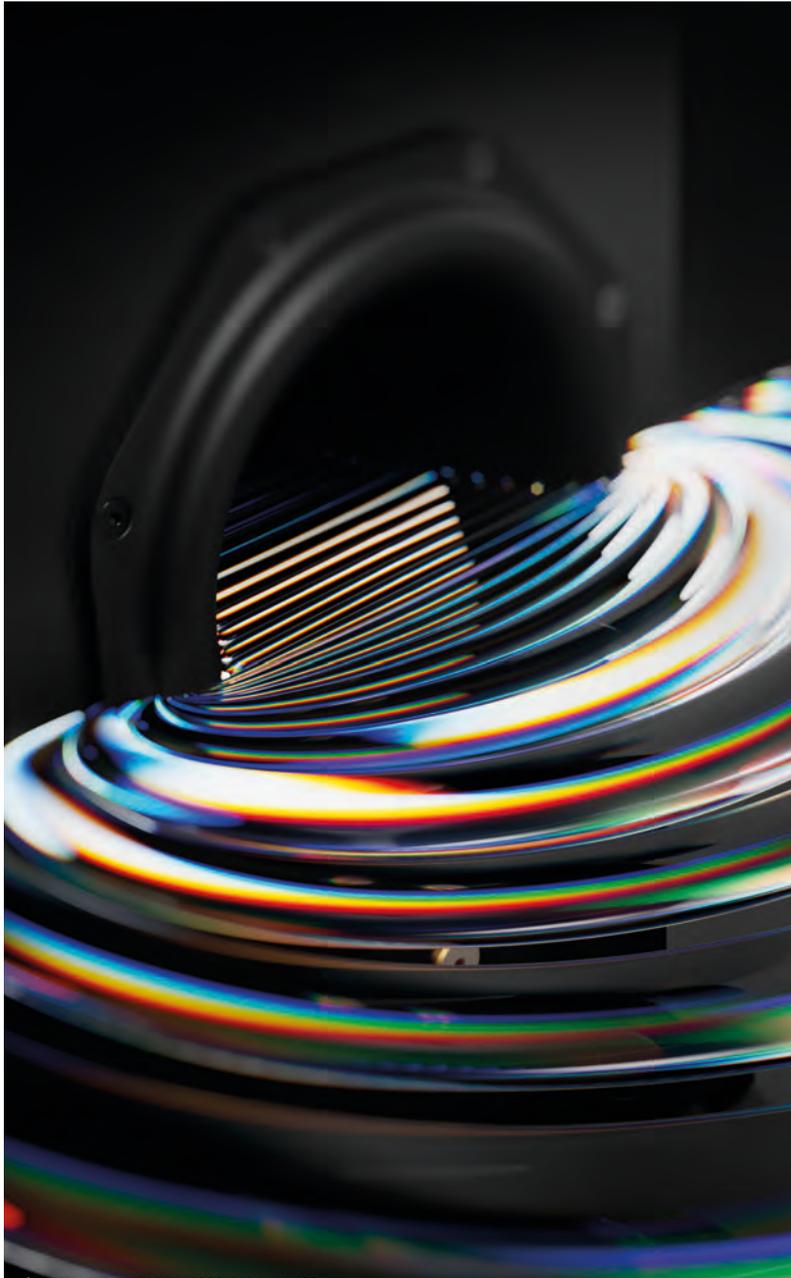
This design minimizes turbulence and vortex formation at the exits, where distortion and chuffing typically originate, by gradually transitioning fast-moving air into the surrounding still air. The rolled flare allows the airflow to disperse freely and symmetrically. Interestingly, this also makes the port look like air inlets for jet motors.

Beyond minimizing turbulence, the Superflare™ geometry directs airflow evenly, dispersing air 180 degrees to the sides as well as vertically above and below the port exit. By spreading the airflow over a wide area, velocity drops rapidly just beyond the port opening. This significantly reduces the sensation of “blowing” often associated with conventional ports and allows the speaker to be positioned closer to a rear wall without airflow interference or audible boundary effects.

Crucially, the Superflare™ port is fully symmetrical on both the inside and outside of the cabinet. In addition to reducing even-order distortion, this prevents pressure imbalances that could otherwise displace the woofers and introduce distortion. The result is a bass reflex system with extremely low distortion, no audible port noise, minimal dynamic compression, and clean, controlled bass extension below 30 Hz, even at high playback levels.

In short, Superflare™ is mathematically optimized to give Clarity 66 the bass depth of a ported design, without the usual drawbacks. You get deeper extension, less noise, and less compression when playing loud—so bass stays clean, controlled, and seamless with the midrange.

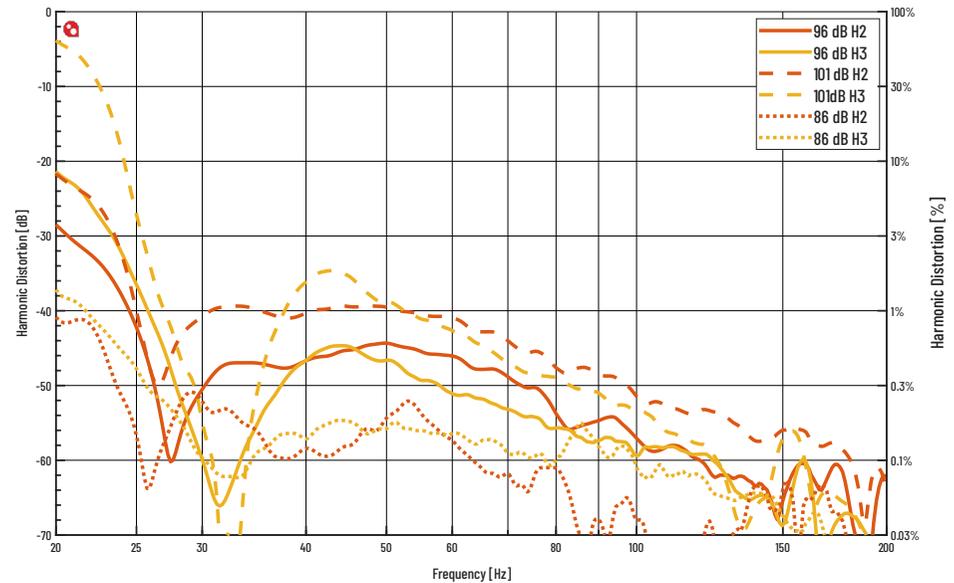




CLARITY 66

THE 101 dB BASS DISTORTION CHALLENGE

Both reproducing bass with low distortion and accurately measuring bass distortion are challenges for any engineering team. Clarity 66 with the Superflare™ bass port was measured in the near field in a large open space. An ultra slow 2.5 Hz - 1.5 kHz exponential chirp was deployed to provide distortion resolution below 20Hz. Sweeps were performed at the usual 86 dB and 96 dB SPL levels, which imposed no challenge to this speaker. Therefore, an additional sweep at a massive 101 dB SPL level was performed, which only pushed the distortion components up to the -40 dB (1 %) level even well below 30 Hz. This is a performance level unheard of for a speaker of this size.



CLARITY 4.2

CLARITY 6.2

CLARITY 66

SUPERIOR DISTORTION-FREE CROSSOVER

The crossover in each Clarity model is engineered to deliver pristine sound quality by thoroughly minimizing distortion. Using top-tier drivers requires significantly reducing iron distortion by minimizing the use of iron in all components, including the terminals. Air coils are employed throughout to ensure linearity, with wire dimensions chosen to achieve low distortion and appropriate electrical behavior. In Clarity 66, inductor resistance is treated as an active tuning parameter within the complete system optimization, contributing to the final bass alignment and amplifier load characteristics.

Capacitors have been selected based on verified electrical performance and validated within the complete crossover system. This approach minimizes loss and distortion while ensuring high power handling. Similarly, resistors are designed to maintain linearity with low self-induction and high-power capability, all while minimizing the use of iron parts.

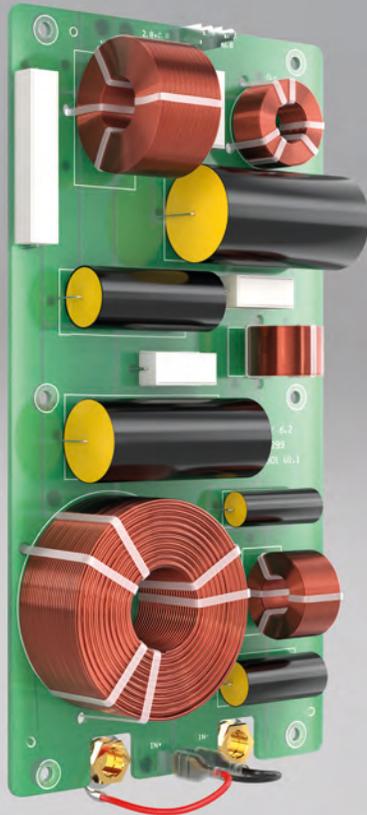
In designing the crossover, the focus was on achieving perfect synergy between all drivers, while ensuring controlled and consistent horizontal directivity across the entire frequency range. This enhances the inter-

action with the listening room, enlarging the classic sweet spot and making sound reproduction less dependent on the listener's position.

In Clarity 66, the integration process was further refined using a proprietary computer optimization algorithm developed by PURIFI. Approximately 21 crossover component values were adjusted concurrently to achieve the most linear overall response, optimal woofer-tweeter phase alignment, and the flattest and deepest possible bass extension—all while maintaining a controlled amplifier load impedance. This multi-variable optimization enables a level of system precision that would be extraordinarily complex to realize through manual tuning alone.

All the high-quality materials used in the crossover were meticulously evaluated and selected using objective measurements as well as subjective listening tests, ensuring that each component provides genuine value without relying on expensive brand names that can inflate costs. The crossover design follows the principle of “as simple as possible, as complex as needed,” allowing for maximized value while maintaining exceptional performance.

CLARITY 6.2 CROSSOVER



CLARITY 4.2

CLARITY 6.2

CLARITY 66

ALUMINUM FRONT BAFFLE PRECISION CNC MACHINED

The front baffle in the stand-mount Clarity-models is crafted from a single, thick piece of aluminum—15 mm for Clarity 6.2 and 12 mm for Clarity 4.2. It is CNC-machined from a solid aluminum block and bonded to an MDF front panel. This sandwich design minimizes vibrations and distortion, ensuring optimal conditions for the PURIFI woofers. Although the use of a single-piece, heavy-duty aluminum baffle is a substantial investment, it significantly outperforms the MDF-only baffles commonly found in other speakers, even within this price range.

The aluminum baffle provides remarkable sturdiness, greatly reducing flexing and distortions from the enclosure and ensuring that nearly all audio output originates from the woofers only. The chamfered edges of the front baffle reduce unwanted diffraction, further enhancing sound clarity. Clarity 66 has a similar front baffle with the addition of an extra fluted plate mounted underneath. This is more than a design choice—this plate further prevents the bottom part of the cabinet from flexing while playing. It thus keeps the cabinet in place and keeps the distortion from these vibrations at a minimum.

CLARITY 4.2

CLARITY 6.2

CLARITY 66

HIGH-QUALITY CABINET WITH OPTIMIZED INTERNAL DAMPING

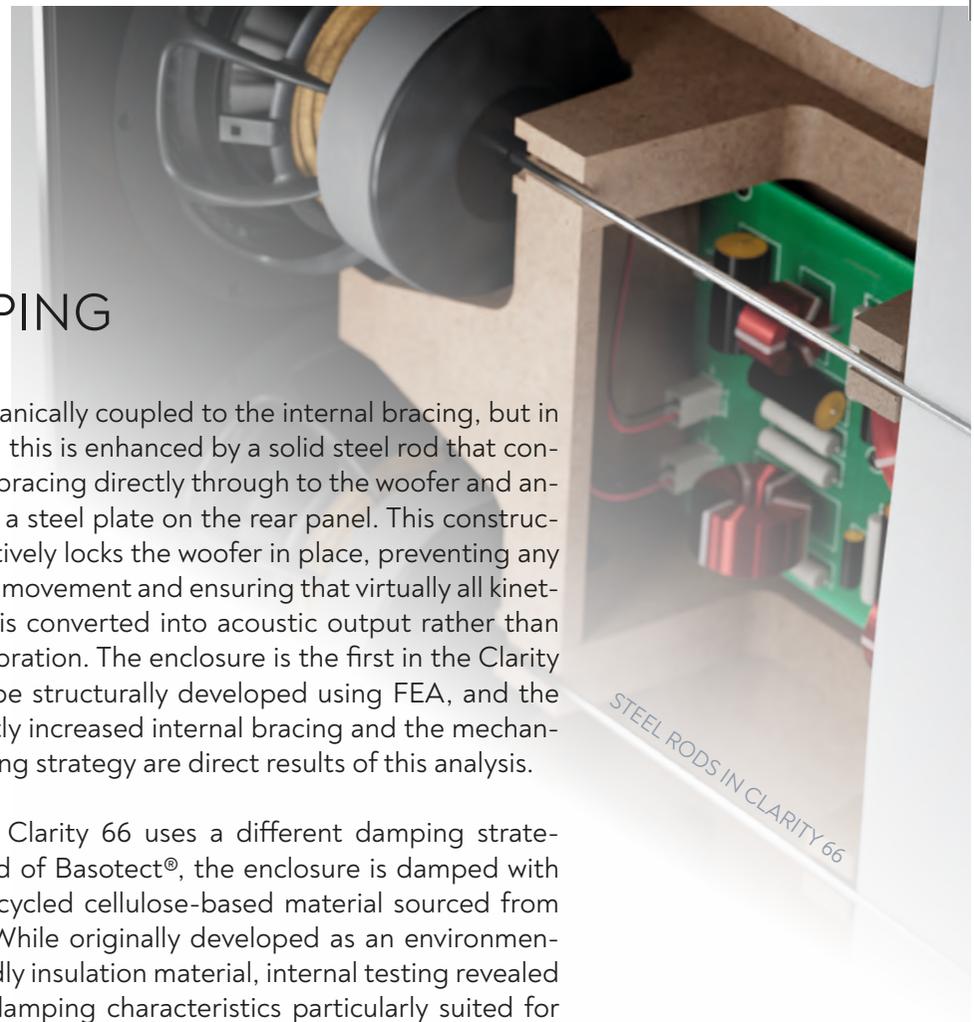
Conceptualized in Peter Lyngdorf's personal wood shop, the thick MDF cabinet with a horizontal bracing member is crafted to maximize stiffness and minimize cabinet noise. A specialized support pad provides ample space around the woofers to optimize the performance conditions. Additionally, the woofer magnet is supported by a brace plug that directs energy to the center of the cabinet, minimizing flexing in the rear and front baffles, where it would have added more audible distortion.

Internally, the cabinets of Clarity 4.2 and Clarity 6.2 are dampened with Basotect®—a flexible, open-cell foam made from melamine resin, renowned for its excellent sound-absorbing properties. This material is particularly effective in dampening the backward sounds produced by the AMT tweeter, ensuring the cabinet remains quiet and the overall sound quality is preserved. Basotect® is extremely dense and thus perfect for damping higher frequencies.

For Clarity 66, the cabinet concept is taken even further to support its higher output and deeper bass performance. The enclosure features significantly increased internal bracing. As with the smaller models, the woof-

er is mechanically coupled to the internal bracing, but in Clarity 66, this is enhanced by a solid steel rod that connects the bracing directly through to the woofer and anchors into a steel plate on the rear panel. This construction effectively locks the woofer in place, preventing any unwanted movement and ensuring that virtually all kinetic energy is converted into acoustic output rather than cabinet vibration. The enclosure is the first in the Clarity series to be structurally developed using FEA, and the significantly increased internal bracing and the mechanical coupling strategy are direct results of this analysis.

Internally, Clarity 66 uses a different damping strategy. Instead of Basotect®, the enclosure is damped with iCell, a recycled cellulose-based material sourced from Sweden. While originally developed as an environmentally friendly insulation material, internal testing revealed acoustic damping characteristics particularly suited for controlling lower-frequency energy. The cabinet contains seven individually shaped damping elements, each precisely sized and positioned to address specific internal resonances, ensuring the Clarity 66 remains articulate, powerful, and composed across its full operating range.



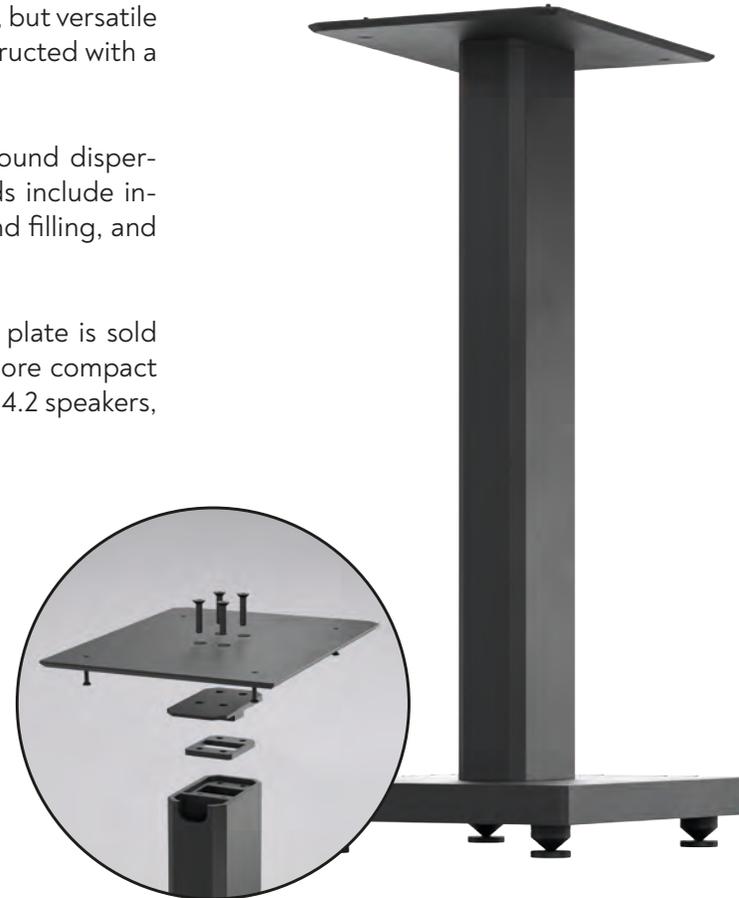
CUSTOM CLARITY SPEAKER STANDS

To fit the high quality of the speakers, we constructed these exceptionally robust and stable speaker stands, custom-tailored for the Clarity stand-mount speakers, but versatile enough to support a wide range of compact speakers on the market. Constructed with a solid steel plinth, these stands are substantial, weighing 22 kilograms each.

They feature an adjustable and optional upward tilt for optimal vertical sound dispersion and offer flexible internal cable management. Additionally, the stands include interchangeable top plates, secure mounting options, a compartment for sand filling, and height-adjustable spikes with floor-protecting tablets.

The default top plate fits Clarity 6.2, and for Clarity 4.2, a dedicated top plate is sold separately to replace the standard version, ensuring a precise fit for the more compact speaker design. When you purchase a pair of Clarity Stands with the Clarity 4.2 speakers, custom top plates are automatically included at no additional cost.

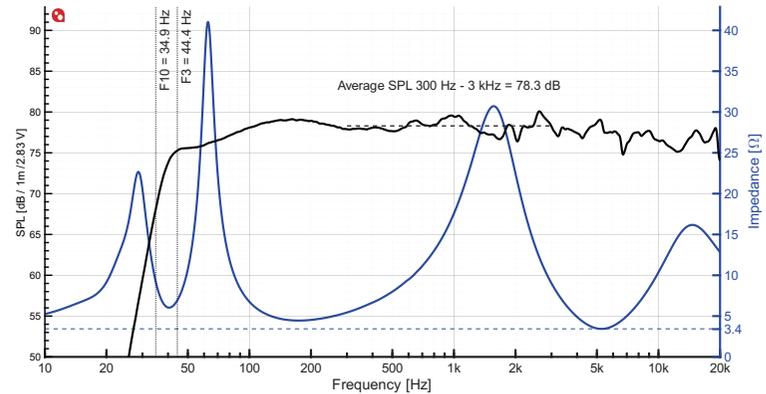
| | |
|-----------------|--|
| Color | Powder Coated Black |
| Material | Stand: Aluminum Spikes: Stainless Steel, Grade 201 |
| Weight | 22.36 kg / 49.29 lbs. each |
| Height | Max: 647 mm / 25.47 inches (4° angle, spikes, taplets) Mid: 632 mm / 24.88 inches (No angle, with spikes, taplets) Min: 606 mm / 23.86 inches (No angle, no spikes, taplets) |
| Length | 250 mm / 9.84 inches |
| Depth | 300 mm / 11.81 inches |
| Top Plate Angle | 1.3 or 4° |
| Accessories | Height adjustable spike set w. tablets + Hex keys for assembly |



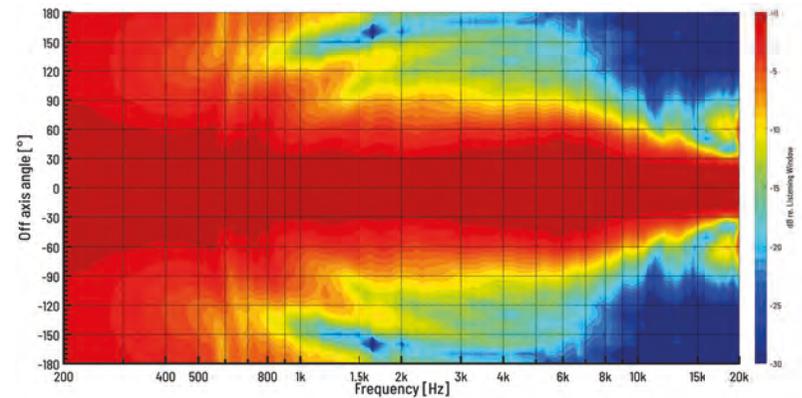
CLARITY 4.2

| | |
|------------------------|---|
| Frequency range | 35-20,000 Hz |
| Sensitivity | 78 dB / 1 m @ $V_{rms} = 2.83 V$ |
| Impedance | 4 ohm |
| Tweeter | Custom AMT (Air Motion Transformer) |
| Midrange/woofer | 4" PURIFI USHINDI (PTT4.0X04-NLC-02) |
| Passive radiators | 2 x 4" PURIFI USHINDI (PTT40PR-NL2-03) |
| Enclosure type | Dual Balanced Passive Radiators |
| Crossover frequency | 2300 Hz |
| Crossover components | Non magnetic, baked air coils, Polypropylene film caps |
| Recom. amplifier power | Min. 60 W |
| Power handling | 200 W |
| Connections | Gold-plated banana connectors |
| Cabinet | 15 mm MDF, 12 mm aluminum front baffle |
| Internal dampening | Basotect® |
| Front grill | No |
| Dimensions (W x H x D) | 164 x 260 x 194 mm 6.46 x 10.24 x 7.64 inches |
| Weight | Net weight: 5.6 kg / 12.35 lbs. each Gross weight: 13 kg / 28.66 lbs. pair |
| Finishes | Black, White (6-layer lacquer) Walnut (Veneer), Oak (Veneer) |

SPL AND IMPEDANCE



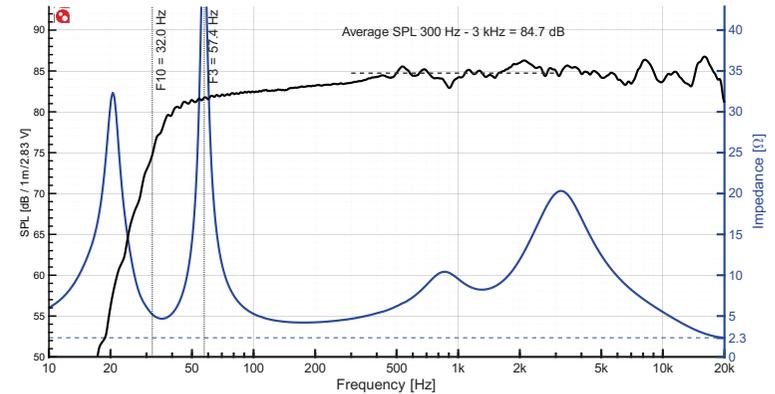
HORIZONTAL POLAR RESPONSE



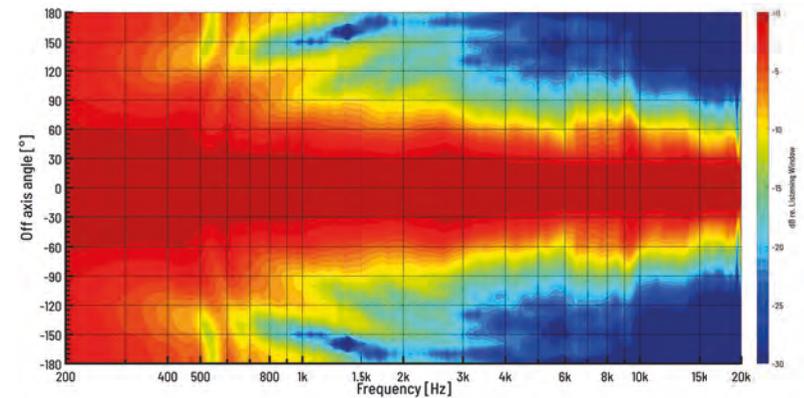
CLARITY 6.2

| | |
|------------------------|--|
| Frequency range | 32-20,000 Hz |
| Sensitivity | 85 dB / 1 m @ $V_{rms} = 2.83$ V |
| Impedance | 4 ohm |
| Tweeter | Custom AMT (Air Motion Transformer) |
| Midrange/woofer | 6.5" PURIFI USHINDI (PTT6.5X04-NLA-10) |
| Passive radiators | 2 x 6.5" PURIFI USHINDI (PTT6.5PR-NL2-02) |
| Enclosure type | Dual Balanced Passive Radiators |
| Crossover frequency | 2400 Hz |
| Crossover components | Non magnetic, baked air coils, Polypropylene film caps |
| Recom. amplifier power | Min. 100 W |
| Power handling | 250 W |
| Connections | Gold-plated banana connectors |
| Cabinet | 21 mm MDF, 15 mm aluminum front baffle |
| Internal dampening | Basotect® |
| Front grill | No |
| Dimensions (W x H x D) | 222 x 364 x 266 mm 8.74 x 14.33 x 10.47 inches |
| Weight | Net weight: 10.8 kg / 23.8 lbs. each Gross weight: 12.5 kg / 27.5 lbs. each |
| Finishes | Black, White (6-layer lacquer) Walnut (Veneer), Oak (Veneer) |

SPL AND IMPEDANCE



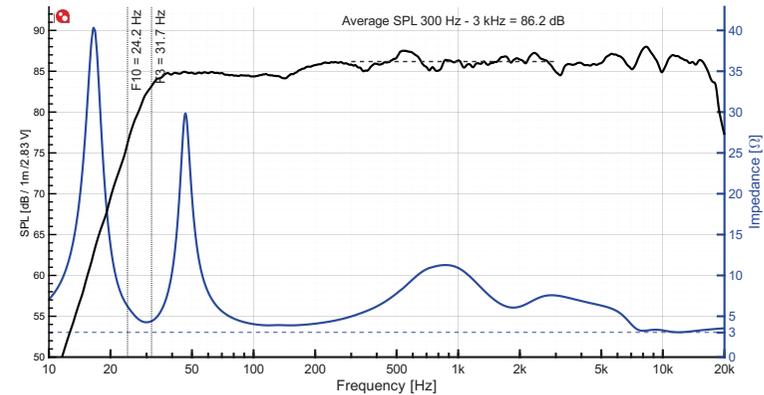
HORIZONTAL POLAR RESPONSE



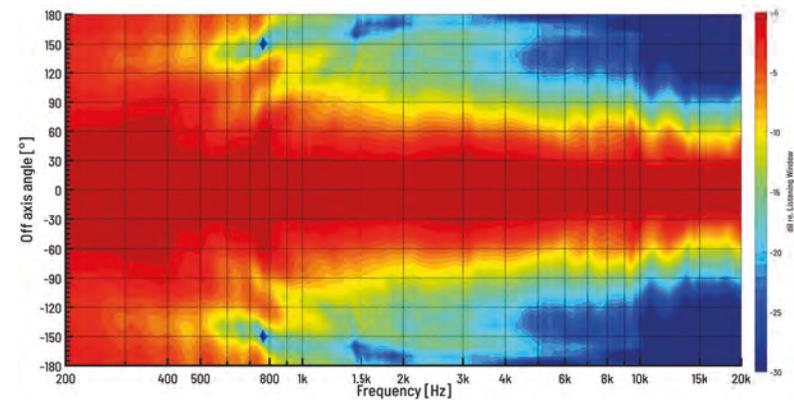
CLARITY 66

| | |
|------------------------|--|
| Frequency range | 24-20,000 Hz |
| Sensitivity | 86 dB / 1 m @ $V_{rms} = 2.83$ V |
| Impedance | 4 ohm |
| Tweeter | Custom AMT (Air Motion Transformer) |
| Midrange/woofer | Dual 6.5" PURIFI USHINDI (PTT6.5X08-NAA-09) |
| Enclosure type | Superflare™ port tuned at 30.5 Hz |
| Crossover frequency | 2400Hz |
| Crossover components | Non magnetic, baked air coils, Polypropylene film caps |
| Recom. amplifier power | Min. 100 W |
| Power handling | 350 W |
| Connections | Gold-plated banana connectors |
| Cabinet | 21mm MDF, (steel rod into woofer motor clamping) 15mm aluminum front baffle |
| Internal dampening | iCell |
| Front grill | No |
| Dimensions (W x H x D) | 222 x 1025 x 355 mm 268 x 1048.23 x 401 mm (with feet) 8.74 x 40.35 x 13.98 inches 10.55 x 41.27 x 15.79 inches (with feet) |
| Weight | Net weight: 40kg / 88 lbs. each Gross weight: 46 kg / 101 lbs. each |
| Finishes | Black (6-layers lacquer) Walnut, Oak (Veneer) |

SPL AND IMPEDANCE



HORIZONTAL POLAR RESPONSE



MEASUREMENTS

The Clarity speakers were measured at a height of 3.7 m above the floor in a large hall using PURIFI's proprietary measurement setup. A calibrated GRAS 46AC microphone was used.

SPL AND IMPEDANCE

The free field measurement at 2.5 m distance and near-field as well as mic-in-the-box measurements were post processed to a synthesized anechoic SPL response with high resolution down to below 20Hz.

HORIZONTAL POLAR RESPONSE

The horizontal polar response at the tweeter height was recorded in 10-degree steps. The plot shows the response normalized to the Listening Window (i.e. average over 0-30 deg).

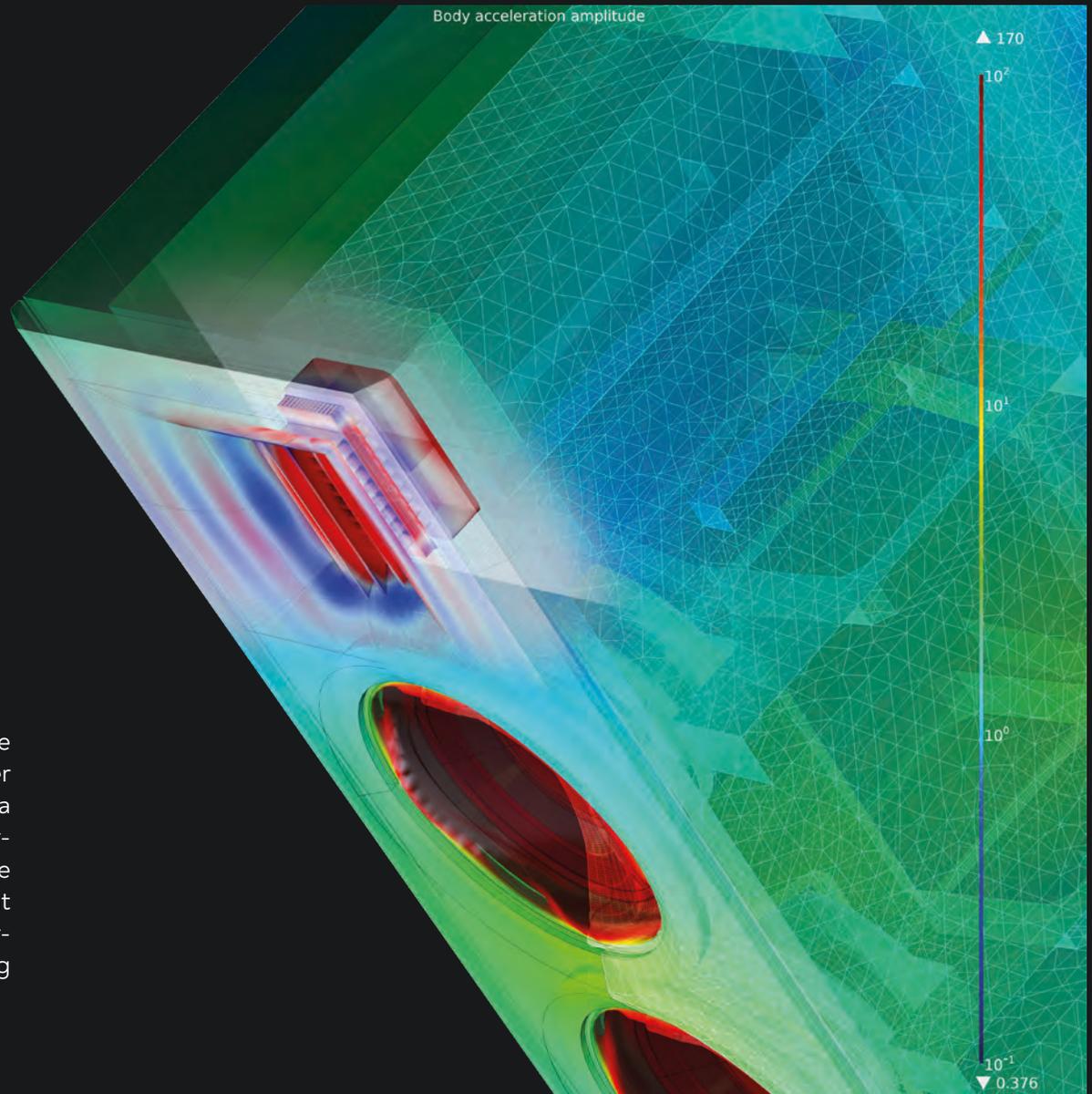


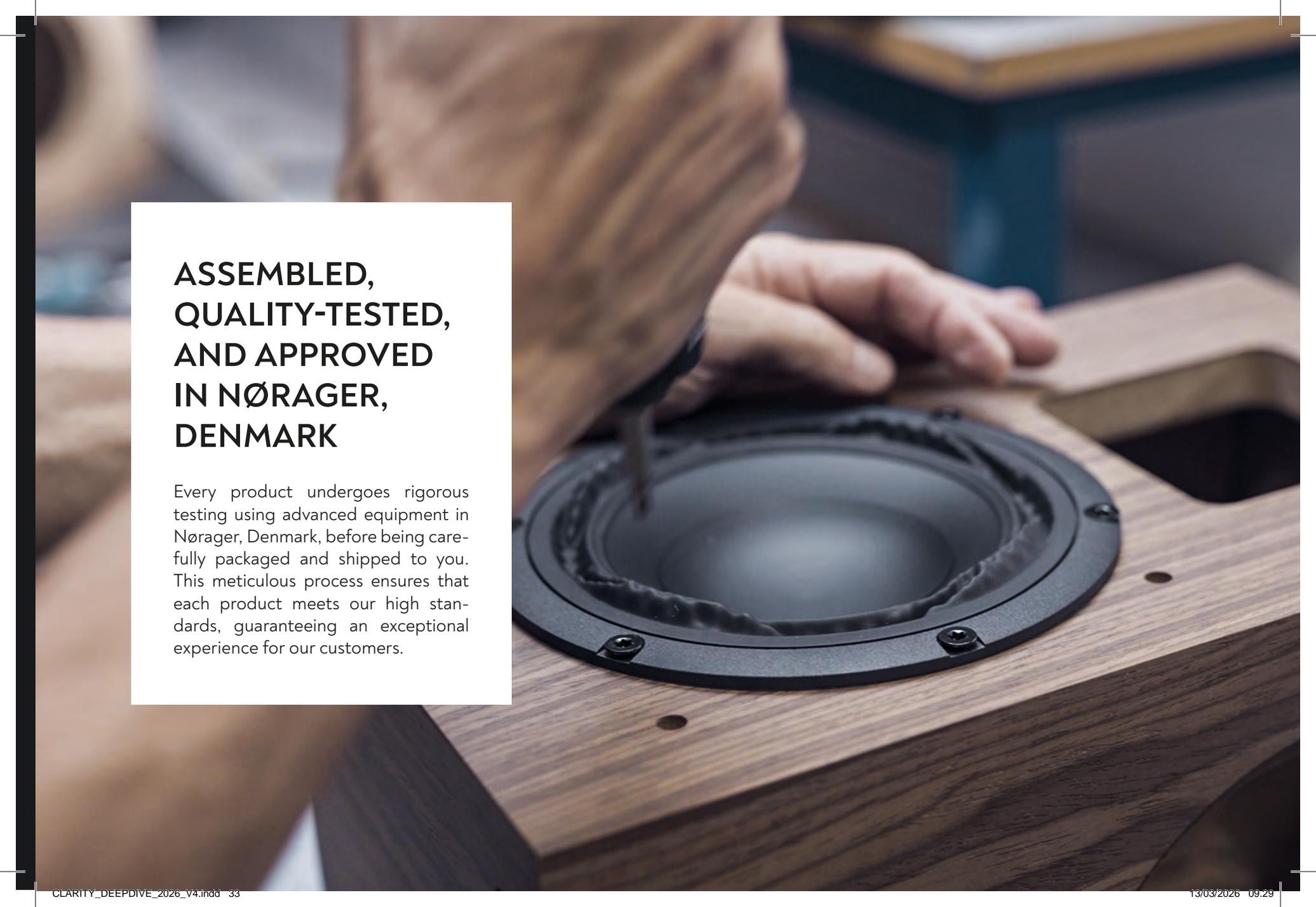
CLARITY 66

DESIGNED WITH

FINITE ELEMENT ANALYSIS

Finite Element Analysis (FEA) enables accurate prediction of the behavior of the entire speaker system and its individual components before a physical prototype is built. By simulating performance early in the design process, it helps reduce development time and costs. It also ensures that the final design meets carefully defined performance targets before moving into prototyping and production.





ASSEMBLED, QUALITY-TESTED, AND APPROVED IN NØRAGER, DENMARK

Every product undergoes rigorous testing using advanced equipment in Nørager, Denmark, before being carefully packaged and shipped to you. This meticulous process ensures that each product meets our high standards, guaranteeing an exceptional experience for our customers.

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