

Bowers & Wilkins

CM Series





Beautiful sound With the new CM Series, beauty is so much more than skin deep. Of course, with their clean lines, high-quality finishes and lack of superfluous detail, these are some of the most elegant speakers we've ever built. But look beneath the surface, and you'll find technologies that set new standards for acoustic performance in the home, revealing unprecedented levels of musical detail and nuance for speakers of this class. You won't believe how beautiful your music can sound.

The professionals' choice

In leading recording studios, music that will soon be heard everywhere is heard first through Bowers & Wilkins speakers. Our 800 Series is used by world-famous studios



Pure and simple Less is more. That's been our approach to speaker design from the very beginning. We've taken it to new levels with the CM Series. Each speaker is constructed using only a few high quality components, carefully selected after exhaustive listening tests. By leaving out anything unnecessary, we've made sure that nothing gets between you and the sound the artist intended you to hear.



High-quality crossover

For the high-quality crossovers in the CM Series, we've used superior Mundorf capacitors across the whole range. When





Design and craftsmanship As with a musical instrument, the sound of a speaker depends partly on the quality of its materials, and the care that went into its design and construction. The CM Series' cabinets are made using high-quality materials such as real wood veneers, while concealed screw fixings preserve a clean, uncluttered façade. These design features aren't just for show: solid cabinet construction and unbroken surfaces all contribute to a sound that's free of resonance and reflection.

Tweeter protection

The new CM Series' Decoupled Double Dome tweeters are truly worthy of protection, which is why we have voiced every model in the range to work with an acoustic grille. This not only provides a first rate sonic performance, it also



The CM Series



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From Hi-Fi stereo to home theatre, and from the largest reception rooms to the smallest home offices – whatever your listening requirements, you'll be sure to find CM Series speakers to suit. With three standmounters, three floorstanders, two centre speakers and a subwoofer in the range, it's the most comprehensive collection we've yet produced.







CM10 S2 The CM Series' flagship floorstanding speaker is capable of filling even the largest rooms with stunningly detailed, realistic sound. That's down to a drive unit configuration featuring three 165mm bass drivers, a decoupled FST™ midrange and studio-grade acoustic technology in the form of a tweeter-on-top design.



Tweeter-on-top

CM10 S2's tweeter is positioned on top of the speaker and separated from the main body of

CM9 S2 CM9 S2 delivers a supremely well-integrated sound, and is capable of filling the largest of listening rooms with a coherent, insightful performance. It is a speaker with wonderful power, presence and naturalness, thanks to its two large bass units, FST midrange and Decoupled Double Dome tweeter. It is also just as much at home as the front speakers in a breathtaking home theatre system.





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CM8 S2 CM8 S2 is the most room-friendly floorstander in the range: a speaker with a slimmed-down profile designed to fit comfortably into most living rooms. Despite its leaner proportions, the CM8 S2 delivers amazing clarity, detail and realism due to technologies it shares with its larger siblings, such as an FST midrange and Decoupled Double Dome tweeter.

CM6 S2 The top-performing standmounted speaker in the range has a distinctive audiophile feature in common with CM10 S2: the tweeter-on-top design. Combined with a 165mm midrange/bass driver, the result is amazingly lifelike imaging and spaciousness from a speaker of its class.





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CM5 S2 CM5 S2 is a traditionally sized standmounted speaker delivering a sound that's anything but conventional. Its large midrange/bass driver is ably supported by a Decoupled Double Dome tweeter, capable of revealing layers of pin-sharp musical detail.

CM1 S2 The original CM speaker is back, and now it's better than ever. The classic CM1 S2 now comes with updated acoustic technologies that raise the bar for sonic performance, together with the same high quality finishes and materials found in the rest of the range. And all this from a speaker compact enough to fit almost anywhere.



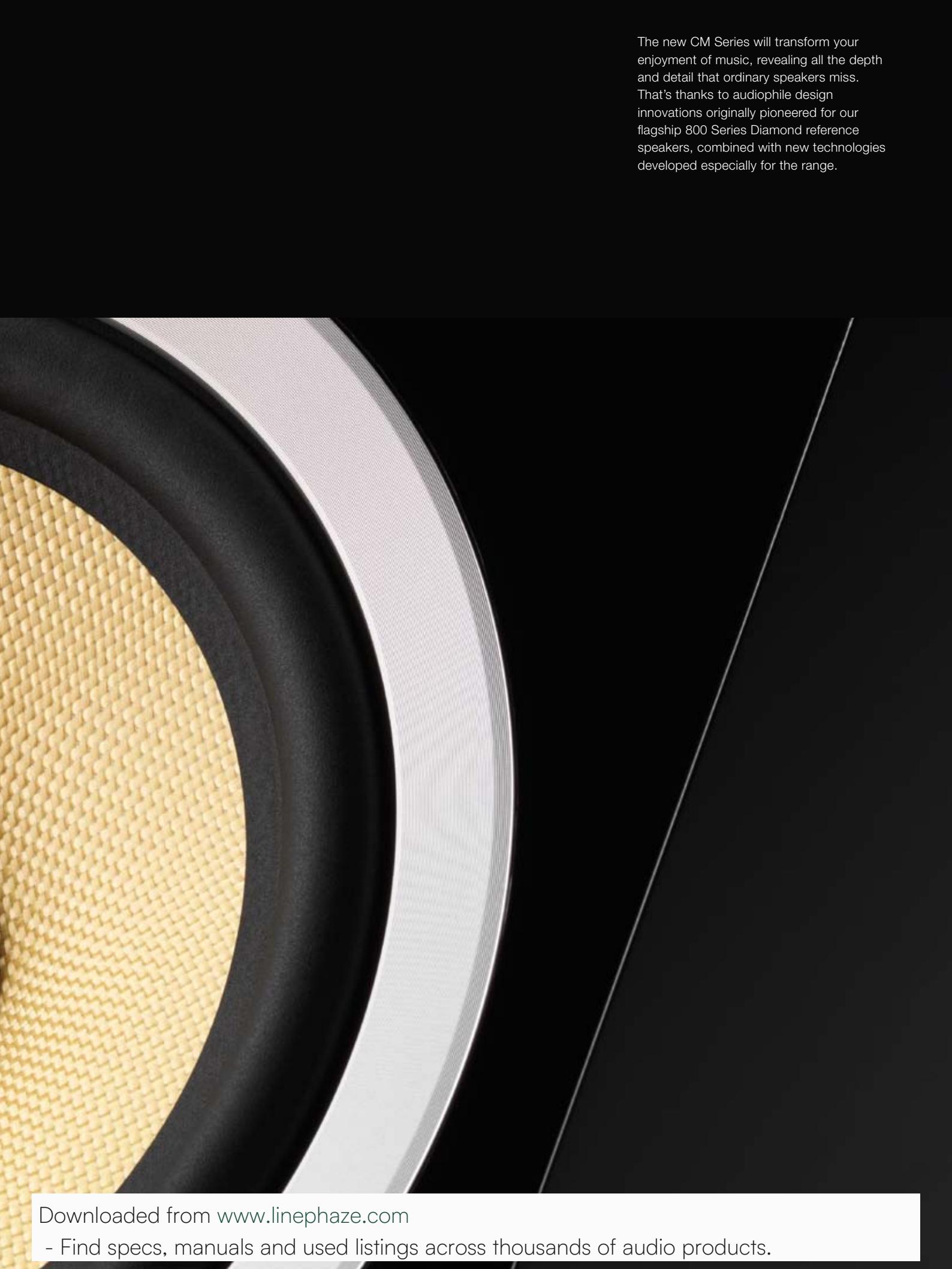


CM Series technology



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The new CM Series will transform your enjoyment of music, revealing all the depth and detail that ordinary speakers miss. That's thanks to audiophile design innovations originally pioneered for our flagship 800 Series Diamond reference speakers, combined with new technologies developed especially for the range.

Treble Music depends on nuance. The sweep of a brush on a cymbal, the scrape of a plectrum on guitar strings, even the atmosphere of the room in which the performance took place – it's this kind of detail that gives music a sense of genuine presence and life. To capture these subtleties, we've upgraded the design of the tweeters throughout the CM Series. Every speaker in the range now incorporates Decoupled Double Dome tweeters, while for the top-of-the-range models we've borrowed a feature of our reference speakers: the tweeter-on-top design.



Tweeter-on-top

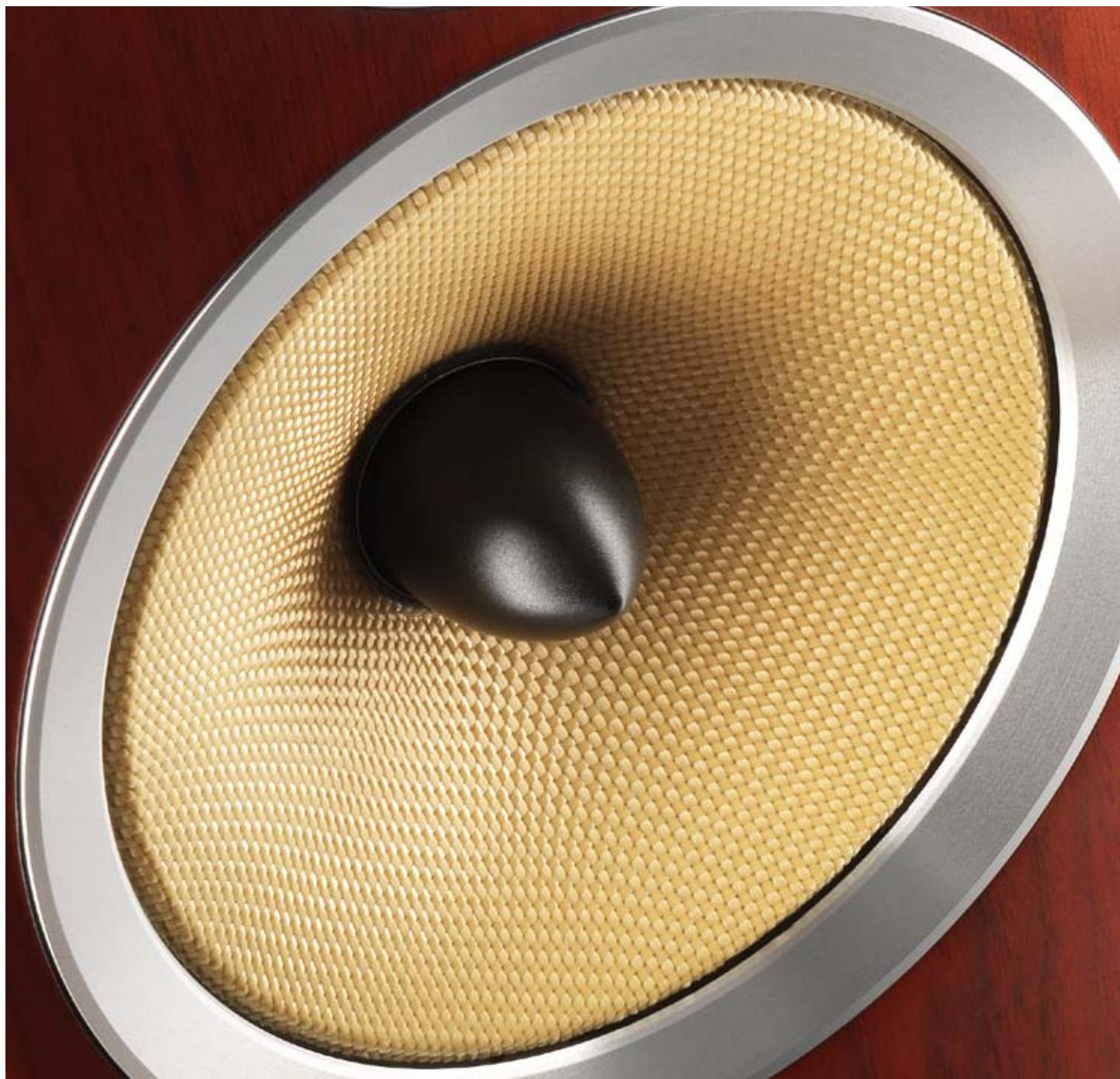
CM10 S2 and CM6 S2 speakers come with a tweeter-on-top design – a feature shared with our most advanced reference speaker range, the 800 Series Diamond. Isolating the tweeter in this way aids imaging and dispersion, creating a more lifelike sound and an improved sense of space.



Decoupled Double Dome tweeter

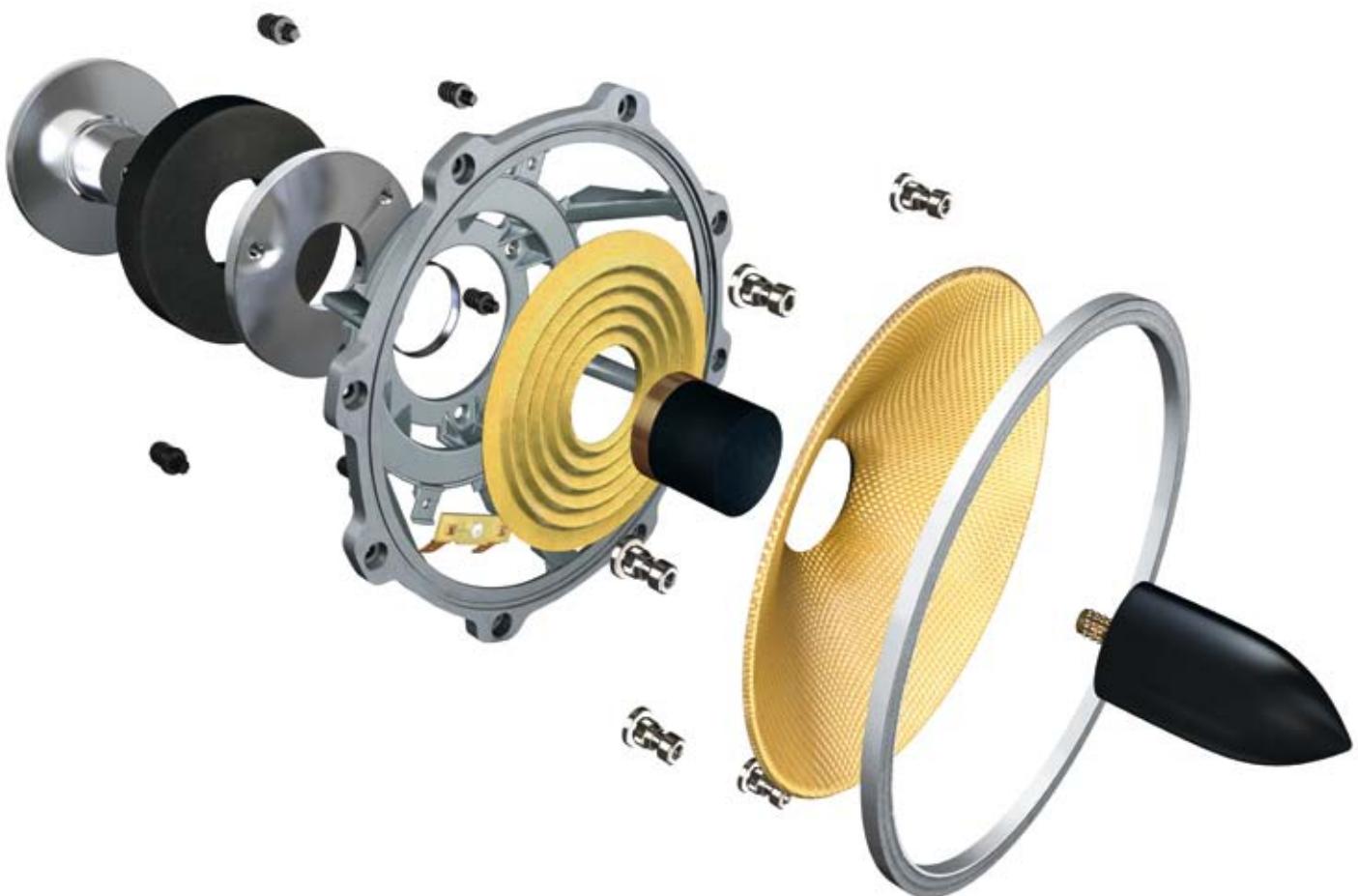
Stiff and light, aluminium is an ideal material for tweeter domes. But the Decoupled Double Dome design of the CM Series' tweeters pushes the performance of aluminium to new heights. The tweeter assembly floats within a ring of gel, isolating it from the main cabinet and cushioning it from vibrations. Meanwhile an extra aluminium ring reinforces the rear of the main tweeter diaphragm, improving its rigidity. This raises the breakup threshold

Midrange Conveying the emotion in a vocal performance demands the right kind of midrange cone material, with the ideal balance of stiffness and flexibility. Step forward Kevlar®. It's resistant to bullets, and just as good at stopping distorting resonances dead in their tracks. Combine it with high-end technological refinements like decoupled drive units and FST, and you've got a midrange that's anything but middle of the road.



Kevlar

Kevlar has been a Bowers & Wilkins hallmark since 1974 – and for good reason. Impregnated with a stiffening resin, and then treated with a polymer coat that seals the fibre and adds damping, Kevlar maintains a more constant dispersion pattern at all frequencies in its range than any other cone material. The result? Far fewer delayed, time-smearing sounds, and an exceptionally clean, precise midrange.



Anti-Resonance Plugs

The bass/midrange drivers in the new CM Series speakers also benefit from the introduction of Anti-Resonance Plugs, first seen in PM1. These mushroom-shaped dustcaps reduce higher-frequency break-up by ensuring better pistonic movement and damping resonances inside the voice coil.

FST

FST (or “fixed suspension transducer”, to give it its proper name) enhances the properties of Kevlar by absorbing bending waves travelling to the edge of the cone, further improving response times and the integrity of sound transmission. It’s a highly refined piece of technology we reserve for some of our most advanced Hi-Fi speakers, including our floorstanding CM Series models.

Decoupled drive units

A tweeter-on-top isn’t the only thing CM10 S2 shares in common with the 800 Series Diamond. As with speakers in the flagship range, CM10 S2 features a midrange drive unit that’s decoupled from the cabinet. Decoupling the drive unit in this way helps to isolate it from the effects of cabinet resonance. Which means a midrange that’s free from coloration, and an even purer, cleaner sound.

Bass It's one thing to deliver powerful bass: it's quite another to do so while preserving the precision and detail essential to faithful sound reproduction. With the CM Series, longer voice coils and larger magnets help the speaker deliver a prodigious amount of bass impact with maximum control and minimal distortion. Combine this with rock-solid drive unit construction, and you've got bass capable of wonderful depth and musicality.



Power and control

The top-of-the-range CM10 S2 speaker packs an extra-powerful bass punch, thanks to its three mighty bass drivers. But power is just part of the picture. The extra driver doesn't just fill rooms with earth-shaking bass: it also reduces distortion and extends bass response. Which means excellent timing and control, no matter how loud you're playing it.



Flowport™

Great bass depends on a smoothly regulated airflow. The Flowport venting system minimises turbulence in the same way as a golf ball. Dimples on the surface generate tiny eddy currents, over which air can flow smoothly and silently. Extraneous noise is reduced to a minimum – and even with the volume right up, bass sounds smooth and tight.



Subwoofers

When it comes to serious home theatre sound, you're going to need a seriously good subwoofer. ASW10CM S2 features a rugged bass driver constructed from a finely tuned mix of paper pulp, Kevlar fibres and resin, offering

Home Theatre If you're looking to enhance your home entertainment experience with a high-quality home theatre speaker set-up, the CM Series will be happy to oblige. We offer two speaker configurations for different sizes of room: CM9 S2 Theatre and the CM8 S2 Theatre.





CM9 S2 Theatre

Big spaces require a big audio-visual set-up to match. CM9 S2 Theatre will fill the largest domestic environment with rich, detailed movie sound.

Main: CM9 S2
Centre: CM Centre 2 S2
Surround: CM5 S2
Subwoofer: ASW10CM S2

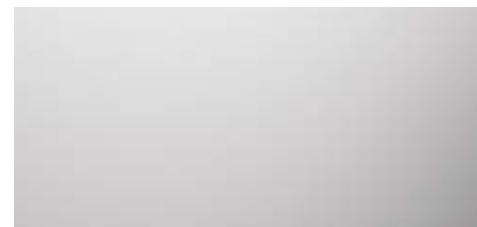
CM8 S2 Theatre

This slimline-based set-up may be designed for more enclosed spaces, but with an ASW10CM S2 subwoofer providing the bass it still packs a mighty punch.

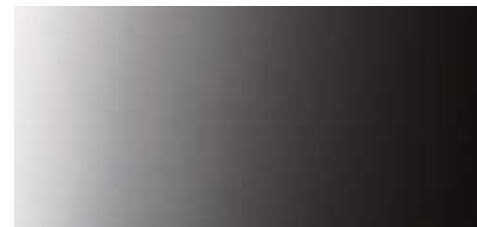
Main: CM8 S2
Centre: CM Centre S2
Surround: CM1 S2
Subwoofer: ASW10CM S2

Finishes While sound is always our first priority, we recognise that a speaker is also a piece of furniture. So while we've paid a lot of attention to what goes on inside a CM Series speaker, we haven't forgotten about what's happening on the outside. Thanks to high-quality finishes and painstaking attention to design detail, the CM Series will fit harmoniously and elegantly into the home environment.





Satin White



Gloss Black



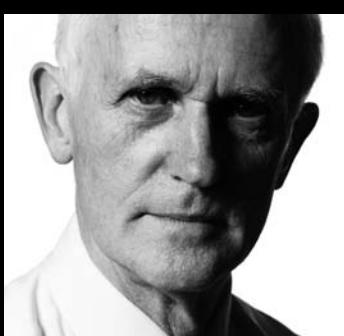
Rosenut

Grilles

The CM Series grilles attach magnetically, so there are no grille mounting features to spoil the lines of each speaker's façade. A simple touch that makes a big aesthetic difference.

Finishes

The CM Series offers a choice of three finishes: Satin White, Gloss Black or Rosenut.



Society of Sound It's one thing to own a great pair of speakers. But if you're as obsessed with true sound as we are, your appreciation won't stop there. You'll want to keep learning about it, listening to it, exploring it and discussing it with others. That's where the Society of Sound comes in.

Visit the Society of Sound to:

- Find out more about Bowers & Wilkins, our products and our technologies
- Download lossless music, including super high-quality 24-bit albums
- Explore new music curated by Peter Gabriel and Real World Studios, and by the London Symphony Orchestra
- Learn from acoustic pioneers – the Society of Sound Fellows
- Join lively debates on sound topics with other sound enthusiasts in our blogs
- Discover the creative potential of sound

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Specifications

Main

| | CM10 S2 | CM9 S2 | | |
|----------------------------------|--|---|---|-----------------------------------|
| Technical features | Free-mounted Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone FST midrange Decoupled midrange and tweeter units Flowport™ Tweeter-on-top | Nautilus tube loaded Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone FST midrange Flowport™ | | |
| Description | 3-way vented-box system | 3-way vented-box system | | |
| Drive units | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø150mm (6 in) woven Kevlar® cone FST midrange 3x ø165mm (6.5 in) paper/Kevlar® cone bass | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø150mm (6 in) woven Kevlar® cone FST midrange 2x ø165mm (6.5 in) paper/Kevlar® cone bass | | |
| Frequency range | -6dB at 28Hz and 50kHz | -6dB at 30Hz and 50kHz | | |
| Frequency response | 45Hz - 28kHz ±3dB | 46Hz - 28kHz ±3dB | | |
| Dispersion | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc | | |
| Sensitivity | 90dB spl (2.83V, 1m) | 89dB spl (2.83V, 1m) | | |
| Harmonic distortion | 2nd and 3rd harmonics (90dB, 1m) <1% 86Hz - 28kHz <0.5% 110Hz - 20kHz | 2nd and 3rd harmonics (90dB, 1m) <1% 90Hz - 22kHz <0.5% 120Hz - 20kHz | | |
| Nominal impedance | 8Ω (minimum 3.1Ω) | 8Ω (minimum 3Ω) | | |
| Crossover frequency | 350Hz, 4kHz | 350Hz, 4kHz | | |
| Recommended amplifier power | 30W - 300W into 8Ω on unclipped programme | 30W - 200W into 8Ω on unclipped programme | | |
| Max. recommended cable impedance | 0.1Ω | 0.1Ω | | |
| Dimensions | Height: 990mm (39 in) cabinet only 1087mm (42.8 in) including tweeter and plinth but not feet Width: 200mm (7.9 in) cabinet only 366mm (14.4 in) including plinth Depth: 337mm (13.3 in) cabinet only 364mm (14.3 in) inc. grilles and terminals but not plinth 414mm (16.3 in) including plinth | Height: 990mm (39 in) cabinet only 1025mm (40.4 in) including plinth but not feet Width: 200mm (7.9 in) cabinet only 320mm (12.6 in) including plinth Depth: 300mm (11.8 in) cabinet only 321mm (12.6 in) inc. grille and terminals but not plinth 370mm (14.6 in) including plinth | | |
| Net weight | 33.5kg (73.7 lb) | 26.6kg (58.5 lb) | | |
| Finishes | Cabinet: Rosenut Gloss Black Satin White | Grille: Black Black Grey | Cabinet: Rosenut Gloss Black Satin White | Grille: Black Black Grey |



CM8 S2

CM6 S2

CM5 S2

CM1 S2

| Nautilus tube loaded Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone FST midrange Flowport™ Tweeter-on-top | Free-mounted Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone bass / midrange Flowport™ Tweeter-on-top | Nautilus tube loaded Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone bass / midrange Flowport™ | Nautilus tube loaded Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone bass / midrange Flowport™ |
|---|---|---|---|
| 3-way vented-box system | 2-way vented-box system | 2-way vented-box system | 2-way vented-box system |
| 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø130mm (5 in) woven Kevlar® cone FST midrange 2x ø130mm (5 in) paper/Kevlar® cone bass | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø165mm (6.5 in) woven Kevlar® cone bass / midrange | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø165mm (6.5 in) woven Kevlar® cone bass / midrange | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø130mm (5 in) woven Kevlar® cone bass / midrange |
| -6dB at 43Hz and 50kHz | -6dB at 45Hz and 50kHz | -6dB at 45Hz and 50kHz | -6dB at 45Hz and 50kHz |
| 48Hz - 28kHz ±3dB | 50Hz - 28kHz ±3dB | 50Hz - 28kHz ±3dB | 50Hz - 28kHz ±3dB |
| Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc |
| 88dB spl (2.83V, 1m) | 88dB spl (2.83V, 1m) | 88dB spl (2.83V, 1m) | 84dB spl (2.83V, 1m) |
| 2nd and 3rd harmonics (90dB, 1m) <1% 100Hz - 22kHz <0.5% 300Hz - 20kHz | 2nd and 3rd harmonics (90dB, 1m) <1% 100Hz - 22kHz <0.5% 150Hz - 20kHz | 2nd and 3rd harmonics (90dB, 1m) <1% 100Hz - 22kHz <0.5% 150Hz - 20kHz | 2nd and 3rd harmonics (90dB, 1m) <1% 110Hz - 22kHz |
| 8Ω (minimum 3.0Ω) | 8Ω (minimum 3.7Ω) | 8Ω (minimum 3.7Ω) | 8Ω (minimum 4.0Ω) |
| 350Hz, 4kHz | 4kHz | 4kHz | 4kHz |
| 30W - 150W into 8Ω on unclipped programme | 30W - 120W into 8Ω on unclipped programme | 30W - 120W into 8Ω on unclipped programme | 30W - 100W into 8Ω on unclipped programme |
| 0.1Ω | 0.1Ω | 0.1Ω | 0.1Ω |
| Height: 924 mm (36.4 in) cabinet only Width: 165mm (6.5 in) cabinet only 252mm (9.9 in) including plinth Depth: 277mm (10.9 in) cabinet, grille and terminals only 298mm (11.7 in) including plinth | Height: 340mm (13.4 in) cabinet only 403mm (15.9 in) including tweeter Width: 200mm (7.8 in) Depth: 285mm (11.2 in) cabinet only 301mm (11.9 in) including grille and terminals | Height: 340mm (13.4 in) Width: 200mm (7.8 in) Depth: 285mm (11.2 in) cabinet only 301mm (11.9 in) including grille and terminals | Height: 280mm (11 in) Width: 165mm (6.5 in) Depth: 260mm (10.2 in) cabinet only 276mm (10.9 in) including grille and terminals |
| 19.5kg (43 lb) | 8.9kg (19.6 lb) | 8.9kg (19.6 lb) | 6.7kg (14.7 lb) |
| Cabinet: Rosenut Grille: Black Gloss Black Satin White | Cabinet: Rosenut Grille: Black Gloss Black Satin White | Cabinet: Rosenut Grille: Black Gloss Black Satin White | Cabinet: Rosenut Grille: Black Gloss Black Satin White |



CM Centre 2 S2

CM Centre S2

Technical features

| | | | | |
|---|---|---|---|-----------------------------------|
| Nautlius tube loaded Decoupled Double Dome aluminium tweeter | Nautlius tube loaded Decoupled Double Dome aluminium tweeter | | | |
| Kevlar® brand fibre FST midrange | Kevlar® brand fibre cone bass / midrange | | | |
| Flowport™ | Flowport™ | | | |
| | Magnetic shielding | | | |
| Description | 3-way vented-box system | | | |
| Drive units | 1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 1x ø100mm (4 in) Kevlar® cone FST midrange 2x ø130mm (5 in) woven Kevlar® cone bass / midrange | | | |
| Frequency range | -6dB at 40Hz and 50kHz | | | |
| Frequency response | 56Hz - 28kHz ±3dB | | | |
| Dispersion | Within 2dB of reference response Horizontal: over 60° arc Vertical: over 20° arc | | | |
| Sensitivity | 89dB spl (2.83V, 1m) | | | |
| Harmonic distortion | 2nd and 3rd harmonics (90dB, 1m) <1% 90Hz - 22kHz <0.5% 120Hz - 20kHz | | | |
| Nominal impedance | 8Ω (minimum 3Ω) | | | |
| Crossover frequency | 350Hz, 4kHz | | | |
| Recommended amplifier power | 30W - 200W into 8Ω on unclipped programme | | | |
| Max. recommended cable impedance | 0.1Ω | | | |
| Dimensions | Height: 225mm (8.6 in) Width: 590mm (23.2 in) Depth: 285mm (11.2 in) cabinet only 301mm (11.9 in) including grille and terminals | Height: 166.5mm (6.6 in) Width: 480mm (18.9 in) Depth: 260mm (10.2 in) cabinet only 275mm (10.8 in) including grille and terminals | | |
| Net weight | 18.7kg (41.1 lb) | 11.5kg (25.3 lb) | | |
| Finishes | Cabinet: Rosenut Gloss Black Satin White | Grille: Black Black Grey | Cabinet: Rosenut Gloss Black Satin White | Grille: Black Black Grey |

Subwoofer

Stand

ASW10CM S2

| | | | |
|---------------------------|--|--------------------------|--|
| Technical features | Paper/Kevlar® cone long throw driver 500W Class D amplifier | Dimensions | Height: 560mm (not including spikes) Width: 252mm Depth: 298mm |
| Description | Active closed-box subwoofer system | Net weight | 5.5kg |
| Drive units | ø250mm (10 in) paper/Kevlar® cone long-throw 76mm (3 in) dia voice coil - dual suspension diecast chassis | Finishes | Silver Black |
| Frequency range | -6dB at 18Hz and 25/140Hz adjustable (EQ at A) | | |
| Frequency response | ±3dB 25Hz - 40/140Hz adjustable (EQ at A) | | |
| Bass Extension | -6dB at 18Hz (position A) -6dB at 23Hz (position B) -6dB at 28Hz (position C) | | |
| Amplifier | Power output: 500W Rated power consumption: 94W Standby power consumption: 0.8W Input impedance: 33kV Signal / noise: >80dB Functions: Input level (line in) Input level (speaker in) Low-pass filter frequency Low-pass filter bypass Bass extension Bass roll-off alignment Auto sense on/standby Phase switch Inputs: Line In (RCA Phono) Speaker in (Binding post) 12V trigger (3.5mm jack) | | |
| Low-pass filter | Active 4th-order, variable cut-off frequency | | |
| Dimensions | Height: 325mm (12.8 in) (not including feet) Width: 325mm (12.8 in) Depth: 362mm (14.3 in) (including grille and controls) | | |
| Net weight | 15.5kg (34.4 lb) | | |
| Finishes | Cabinet: Gloss Black Satin White | Grille: Black Grey | |

FS-CM S2



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