

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 such as Abbey Road in London and Skywalker Sound in California.



**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 you have components of this quality, there's simply no need for anything else.





Howers & Winsome

**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 protects the tweeter from pokes, knocks, and any other unwanted attention.



# The CM Series





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 the cabinet: an audiophile feature also seen in our flagship 800 Series Diamond.

**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.









**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.











**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



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 of aluminium from 30 to 38kHz, resulting in stunning clarity and tonal purity.

**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 the balance of power and precision that movie sound effects demand.



**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



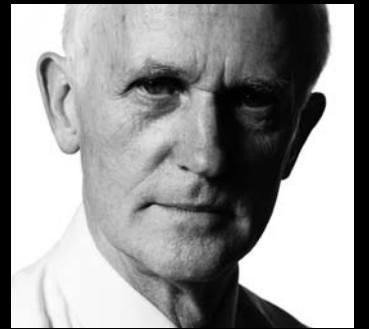
Rosenuit

### 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 Rosenuit.



**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

**[bowers-wilkins.com/sos](https://www.bowers-wilkins.com/sos)**

## CM10 S2

## CM9 S2

Technical features	<b>Free-mounted Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone FST midrange Decoupled midrange and tweeter units Flowport™ Tweeter-on-top</b>	<b>Nautilus tube loaded Decoupled Double Dome aluminium tweeter Kevlar® brand fibre cone FST midrange Flowport™</b>		
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

**Nautilus tube loaded Decoupled Double Dome aluminium tweeter  
Kevlar® brand fibre cone FST midrange  
Flowport™**

3-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

-6dB at 43Hz and 50kHz

48Hz - 28kHz ±3dB

Within 2dB of reference response

Horizontal: over 60° arc

Vertical: over 10° arc

88dB spl (2.83V, 1m)

2nd and 3rd harmonics (90dB, 1m)

<1% 100Hz - 22kHz

<0.5% 300Hz - 20kHz

8Ω (minimum 3.0Ω)

350Hz, 4kHz

30W - 150W into 8Ω on unclipped programme

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

19.5kg (43 lb)

Cabinet:	Grille:
Rosenut	Black
Gloss Black	Black
Satin White	Grey



## CM6 S2

**Free-mounted Decoupled Double Dome aluminium tweeter  
Kevlar® brand fibre cone bass / midrange  
Flowport™  
Tweeter-on-top**

2-way vented-box system

1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency  
1x ø165mm (6.5 in) woven Kevlar® cone bass / midrange

-6dB at 45Hz and 50kHz

50Hz - 28kHz ±3dB

Within 2dB of reference response

Horizontal: over 60° arc

Vertical: over 10° arc

88dB spl (2.83V, 1m)

2nd and 3rd harmonics (90dB, 1m)

<1% 100Hz - 22kHz

<0.5% 150Hz - 20kHz

8Ω (minimum 3.7Ω)

4kHz

30W - 120W into 8Ω on unclipped programme

0.1Ω

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

8.9kg (19.6 lb)

Cabinet:	Grille:
Rosenut	Black
Gloss Black	Black
Satin White	Grey



## CM5 S2

**Nautilus tube loaded Decoupled Double Dome aluminium tweeter  
Kevlar® brand fibre cone bass / midrange  
Flowport™**

2-way vented-box system

1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency  
1x ø165mm (6.5 in) woven Kevlar® cone bass / midrange

-6dB at 45Hz and 50kHz

50Hz - 28kHz ±3dB

Within 2dB of reference response

Horizontal: over 60° arc

Vertical: over 10° arc

88dB spl (2.83V, 1m)

2nd and 3rd harmonics (90dB, 1m)

<1% 100Hz - 22kHz

<0.5% 150Hz - 20kHz

8Ω (minimum 3.7Ω)

4kHz

30W - 120W into 8Ω on unclipped programme

0.1Ω

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

8.9kg (19.6 lb)

Cabinet:	Grille:
Rosenut	Black
Gloss Black	Black
Satin White	Grey



## CM1 S2

**Nautilus tube loaded Decoupled Double Dome aluminium tweeter  
Kevlar® brand fibre cone bass / midrange  
Flowport™**

2-way vented-box system

1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency  
1x ø130mm (5 in) woven Kevlar® cone bass / midrange

-6dB at 45Hz and 50kHz

50Hz - 28kHz ±3dB

Within 2dB of reference response

Horizontal: over 60° arc

Vertical: over 10° arc

84dB spl (2.83V, 1m)

2nd and 3rd harmonics (90dB, 1m)

<1% 110Hz - 22kHz

8Ω (minimum 4.0Ω)

4kHz

30W - 100W into 8Ω on unclipped programme

0.1Ω

Height: 280mm (11 in)  
Width: 165mm (6.5 in)  
Depth: 260mm (10.2 in) cabinet only  
276mm (10.9 in) including grille and terminals

6.7kg (14.7 lb)

Cabinet:	Grille:
Rosenut	Black
Gloss Black	Black
Satin White	Grey



## CM Centre 2 S2

## CM Centre S2

### Technical features

**Nautilus tube loaded Decoupled Double Dome aluminium tweeter**  
**Kevlar® brand fibre FST midrange**  
**Flowport™**

**Nautilus tube loaded Decoupled Double Dome aluminium tweeter**  
**Kevlar® brand fibre cone bass / midrange**  
**Flowport™**  
**Magnetic shielding**

Description	3-way vented-box system	2-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 ø165mm (6.5 in) Paper/Kevlar® cone bass	1x ø25mm (1 in) Decoupled Double Dome aluminium high-frequency 2x ø130mm (5 in) woven Kevlar® cone bass / midrange
Frequency range	-6dB at 40Hz and 50kHz	-6dB at 48Hz and 50kHz
Frequency response	56Hz - 28kHz ±3dB	70Hz - 28kHz ±3dB
Dispersion	Within 2dB of reference response Horizontal: over 60° arc Vertical: over 20° arc	Within 2dB of reference response Horizontal: over 60° arc Vertical: over 20° arc
Sensitivity	89dB spl (2.83V, 1m)	87dB spl (2.83V, 1m)
Harmonic distortion	2nd and 3rd harmonics (90dB, 1m) <1% 90Hz - 22kHz <0.5% 120Hz - 20kHz	2nd and 3rd harmonics (90dB, 1m) <1% 100Hz - 22kHz <0.5% 200Hz - 22kHz
Nominal impedance	8Ω (minimum 3Ω)	8Ω (minimum 4.3Ω)
Crossover frequency	350Hz, 4kHz	4kHz
Recommended amplifier power	30W - 200W into 8Ω on unclipped programme	30W - 120W into 8Ω on unclipped programme
Max. recommended cable impedance	0.1Ω	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:                      Grille: Rosenut                      Black Gloss Black                Black Satin White                 Grey	Cabinet:                      Grille: Rosenut                      Black Gloss Black                Black Satin White                 Grey



# Subwoofer

# Stand

## ASW10CM S2

## FS-CM S2

<b>Technical features</b>	<b>Paper/Kevlar® cone long throw driver 500W Class D amplifier</b>
Description	Active closed-box subwoofer system
Drive units	ø250mm (10 in) paper/Kevlar® cone long-throw 76mm (3 in) dia voice coil - dual suspension diecast chassis
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

Dimensions	Height: 560mm (not including spikes) Width: 252mm Depth: 298mm
Net weight	5.5kg
Finishes	Silver Black



## Bowers & Wilkins

[www.bowers-wilkins.com](http://www.bowers-wilkins.com)

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