

CANTON<sup>®</sup>  
German loudspeaker tradition

R E F E R E N C E



T I M E L E S S .



2 0 1 5 / 2 0 1 6



# Reflection



Frank Göbl

The designer of the Reference K Series

*Developing loudspeakers is like living in a monastery. Strict asceticism and a focus on essentials lead to a steady improvement in virtues. For me, the new Reference K Series represents one more step towards inner maturity, outer perfection and complete sound. With its great potential it offers greater composure and more thrilling vivacity than ever before.*



## The Reference K Series

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### Role model

*The former Cistercian monastery at Eberbach was founded near the Rheingau town of Eltville in 1136. For nearly seven centuries the monks lived here in a perfectly organised community according to the strict rules of the Benedictines. This was not only extremely productive but also exceptionally successful. Their consistent and dedicated approach set new standards that endured long after their time.*





The Reference K Family marks the start of a new age of sound. These loudspeakers characterised by ceramic-tungsten membranes, innovative bass-guide technology and cabinet dimensions that are designed to suit contemporary living spaces. Their performance in all tones and at all volumes is calm and confident in equal measure.



Reference  
5 K



Reference  
3 K



Reference  
1 K



Reference  
7 K



Reference  
9 K



Reference  
50 K Center



# Strong

It is powerful. It is mighty. As our benchmark product it offers an impressive blend of charm and modesty. On the outside it exudes self-confidence. On the inside it is a sensitive connoisseur, that follows every nuance of sound with enthusiasm and due respect.



## Reference 1 K

Designed as	— High-End floorstanding speaker
Engineering principle	— 3-way, bass reflex system
Power handling (Nom/music)	— 500/900 watts
Efficiency	— 89.5 dB
Frequency response	— 18...40,000 Hz
Dimensions W x H x D	— 18.9" x 49.2" x 27.2"
Weight	— 134 kg
Special features	— Connector terminal with level adjustment, Base design with Bass-Guide®



# Versatile

It is pure. It is clear. At the same time it offers an almost infinite fullness of sound in its pursuit of the very highest quality. It achieves this through its meticulous fidelity of sound and the huge potential that it can draw upon to create a lasting impression.



## Reference 3 K

Designed as	— High-End floorstanding speaker
Engineering principle	— 3-way, bass reflex system
Power handling (Nom/music)	— 350/600 watts
Efficiency	— 89 dB
Frequency response	— 18...40,000 Hz
Dimensions W x H x D	— 13.2" x 45.3" x 19.3"
Weight	— 56 kg
Special features	— Connector terminal with level adjustment, Base design with Bass-Guide®



# Ambition

They are ambitious. They are massive. Despite their compact dimensions they have enormous sound potential.

Their sophisticated appearance underlines their desire to offer superb musical art and to be fully-fledged members of the Reference K Family.



## Reference 5 K

Designed as	— High-End floorstanding speaker
Engineering principle	— 3-way, bass reflex system
Power handling (Nom/music)	— 280/440 watts
Efficiency	— 88.5 dB
Frequency response	— 20...40,000 Hz
Dimensions W x H x D	— 12" x 42.3" x 17.5"
Weight	— 37 kg
Special features	— Base design with Bass-Guide®

## Reference 7 K

High-End floorstanding speaker
3-way, bass reflex system
170/340 watts
88.5 dB
22...40,000 Hz
11.4" x 39.4" x 16.5"
33 kg
Base design with Bass-Guide®

Reference  
7 K

Reference  
5 K



# Atmosphere

They look small. They act big. At the same time they know what it's all about: a balanced sound potential and the ability to create rich atmosphere. Their secret lies in the classic Reference K features, which have been compacted down to a minimal space.

## Reference 9 K

Designed as	— High-End compact speaker
Engineering principle	— 2-way, bass reflex system
Power handling (Nom/music)	— 120/200 watts
Efficiency	— 87 dB
Frequency response	— 25...40,000 Hz
Dimensions W x H x D	— 9.8" x 15.7" x 15"
Weight	— 14 kg
Available accessories	— LS 650

## Reference 50 K Center

High-End center speaker
3-way, bass reflex system
120/200 watts
87 dB
26...40,000 Hz
27.6" x 7.9" x 13.8"
16.5 kg
LS 650

## Reference 50 K Center

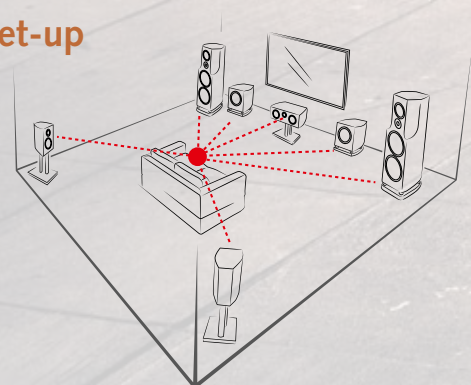
## Reference 9 K



# Entertainment

The loudspeakers of the Reference K Series are perfectly suited for creating impressive home cinema systems. The new 3-way center loudspeaker acts as the core element of the system and combines with the other speakers of the Reference K Family to make every concert recording and action film into a genuine sound experience.

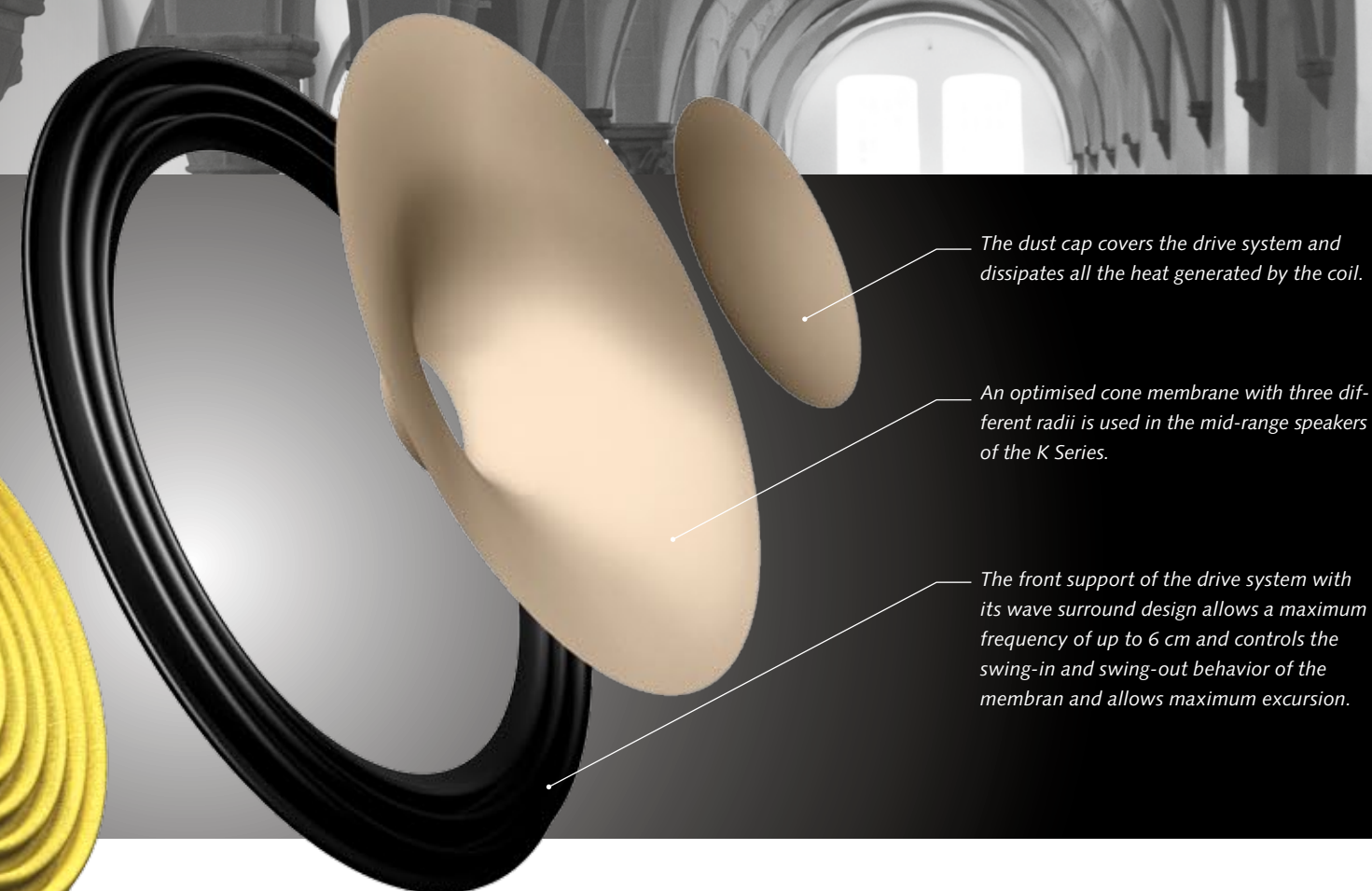
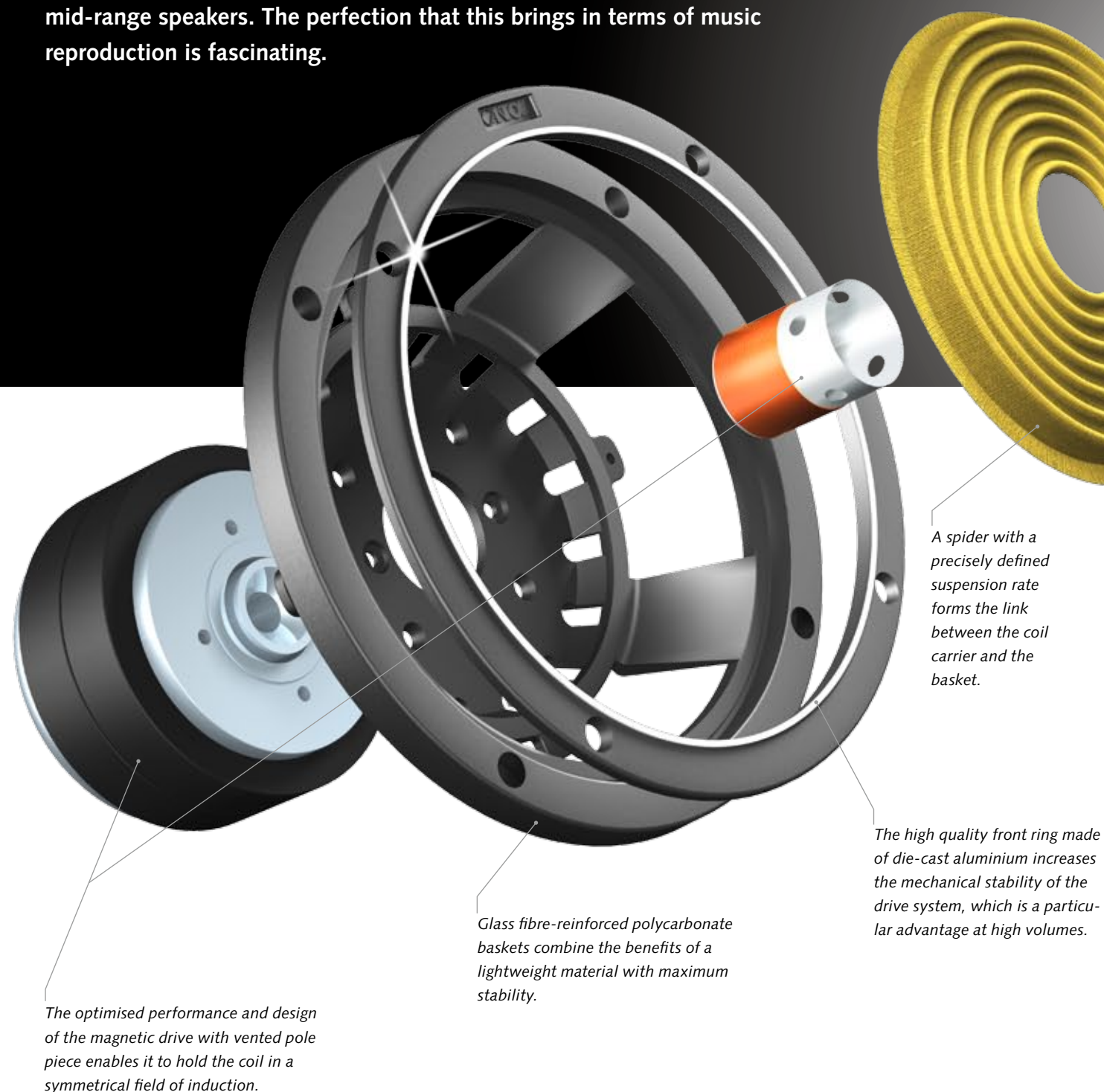
Home cinema set-up





# Every period has its materials

No other material satisfies our demands for a perfect membrane like an aluminium cone with a ceramic-tungsten structure. For the first time in the Reference K Series we also use this material in the woofers and mid-range speakers. The perfection that this brings in terms of music reproduction is fascinating.



## Ceramic-tungsten technology

The membranes of the K Series are manufactured in an elaborate process. Up to 20 % of the existing molecular structure of the aluminium cone is transformed into a ceramic structure and refined with tungsten particles. The result is a membrane with an optimum ratio of rigidity to weight and improved inner damping.



## Wave surround

Woofers and mid-range systems are fitted with the latest patented Canton wave surround technology. Three precisely defined wave folds provide symmetrical power, leading to perfectly balanced swing-in and swing-out behaviour, even at high volume.



## Manufacturing quality

We develop and manufacture the loudspeaker systems of our Reference K Series in our own workshops. This is the only way we can satisfy the quality standards required, eliminate fault tolerances and achieve the high sound perfection of our premium products.



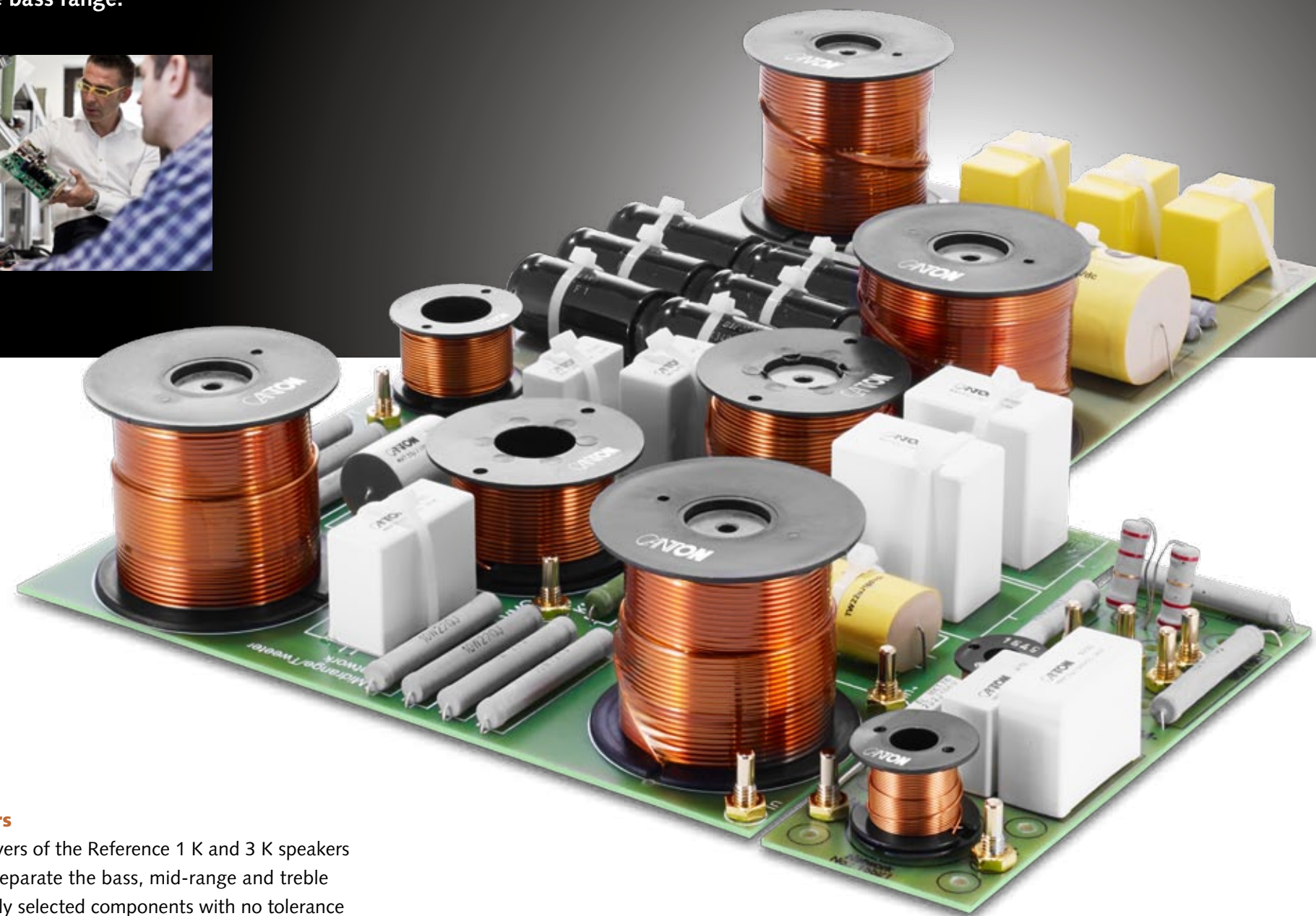
# Top performance needs optimal foundations

As the control centre of the loudspeakers, the newly developed crossovers make a vital contribution to stress-free music enjoyment at all volumes. They ensure brilliant trebles, impressive basses and optimum precision across the entire bass range.



## Crossovers

The crossovers of the Reference 1 K and 3 K speakers discreetly separate the bass, mid-range and treble ranges. Only selected components with no tolerance are used in the manufacture of their low-resonance circuit boards. Here it is not just a matter of separating an audio signal but also of creating sounds.



## Name plate

The loudspeakers of the Reference K Family are premium quality, hand-crafted unique items. Before they are given a name plate complete with individual serial number, they have to pass a detailed test process with 100 %.



## Level adjustment

Thanks to the integrated mid-range-tweeter adjustment, the 1 K and 3 K models can be adjusted to suit the acoustics of the room and individual listening tastes. The focus is on the optimal transmission of the bass tone range in the appropriate voices.



## Connection terminal

The high quality connection area with four gold-plated screwclamp terminals is suitable for cable diameters up to 10 mm<sup>2</sup> and special cable shoes. This provides secure connections with long-term stability.

## Exclusive cabling

Cabling is reduced to a minimum. The cables themselves are specially developed for the Reference K loudspeakers. The design, with its special core and six twisted individual conductors per phase, ensures optimum sound transmission from the connection terminal to the chassis.





# Perfection begins and ends with detail

Nothing can replace volume. That is why the cabinets of the new Reference K loudspeakers are larger than before. Not in terms of height, but in terms of depth. The end result is an elegant appearance with dimensions that fit well into any living space despite the much greater internal volume.

## Solid cabinet design

The acoustically optimised cabinet with its organic curved baffle offers significantly improved dispersion characteristics. The solid construction of high quality 50 mm multi-layer laminate sets new standards in terms of stability. The characteristic bow shape of the cabinet is created from solid material in a special process.

## Internal reinforcement

The enormous power generated inside a loudspeaker has to be controlled using a special, computer-optimised reinforcement. An additional, precision damping made of special fleece suppresses any vibration inside the cabinet itself.

## Innovative Bass-Guide®













The floorstanding loudspeakers of the Reference K Family operate with the new Bass-Guide® bass reflex system. Vibrations are directed away from the cabinet and flow noise is reduced. The usable inner volume of the loudspeaker is maximised while the external dimensions remain the same and there is greater flexibility in the set-up location. The distance from walls or corners no longer has much impact.











Technical data



	Reference 1 K	Reference 3 K	Reference 5 K	Reference 7 K
Designed as	— High-End floorstanding speaker	High-End floorstanding speaker	High-End floorstanding speaker	High-End floorstanding speaker
Engineering principle	— 3-way bass reflex system	3-way bass reflex system	3-way bass reflex system	3-way bass reflex system
Power handling (Nom/music)	— 500/900 watts	350/600 watts	280/440 watts	170/340 watts
Efficiency	— 89.5 dB	89 dB	88.5 dB	88.5 dB
Frequency response	— 18...40,000 Hz	18...40,000 Hz	20...40,000 Hz	22...40,000 Hz
Transmission frequency	— 180/3,000 Hz	200/3,000 Hz	220/3,000 Hz	220/3,000 Hz
Impedance	— 4...8 Ohm	4...8 Ohm	4...8 Ohm	4...8 Ohm
Dimensions W x H x D	— 18.9" x 49.2" x 27.2"	13.2" x 45.3" x 19.3"	12" x 42.3" x 17.5"	11.4" x 39.4" x 16.5"
Weight	— 134 kg	56 kg	37 kg	33 kg
Special features	— Base design with Bass-Guide®, Connection terminal with level adjustment	Base design with Bass-Guide®, Connection terminal with level adjustment	Base design with Bass-Guide®	Base design with Bass-Guide®
Cabinet design	—   	  	  	  



	Reference 9 K	Reference 50 K Center
Designed as	— High-End compact speaker	High-End center speaker
Engineering principle	— 2-way bass reflex system	3-way bass reflex system
Power handling (Nom/music)	— 120/200 watts	120/220 watts
Efficiency	— 87 dB	87 dB
Frequency response	— 25...40,000 Hz	26...40,000 Hz
Transmission frequency	— 3,000 Hz	3,000 Hz
Impedance	— 4...8 Ohm	4...8 Ohm
Dimensions W x H x D	— 9.8" x 15.7" x 15"	27.6" x 7.9" x 13.8"
Weight	— 14 kg	16.5 kg
Available accessories	— LS 650	LS 650
Cabinet design	—   	  

Surfaces

The elegant, high gloss, “piano finish” surface is applied and polished in a 12- stage process. It gives the cabinets of the Reference K Series a sensation of extraordinary depth. Acoustically optimised, two-part fabric covers with magnetic fastenings complete the exclusive look.



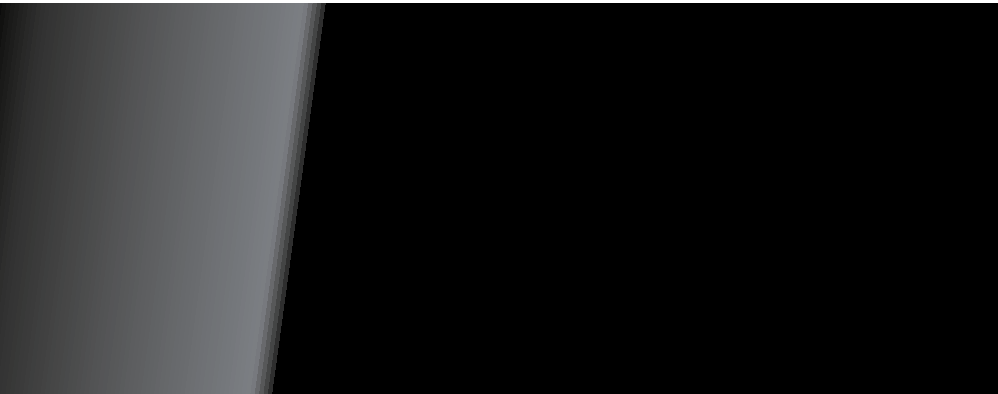
Cherry veneer  
“Piano Finish”



White lacquer  
“Piano Finish”



Black lacquer  
“Piano Finish”





## German loudspeaker tradition

With more than 40 years of sound experience, CANTON stands for innovative loudspeaker construction.

We offer the right sound solutions for any taste and any standard at the best possible price.

With our products we strive to give many people the opportunity to listen to music in top quality.

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Member of:

 HIGH END SOCIETY

Find out more about the Reference K Series on our homepage or use the QR code.



[www.canton.de](http://www.canton.de)

Speaker stands are sold separately. Changes, in particular of a technical nature, and errors excepted.

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