

M GERMAN MAESTRO

SERIOUS ABOUT AUDIO

SERIOUSLY SUPERB **Audio Products**

– GIVE YOUR MUSIC A NEW EXPRESSION!



CAR & MARINE AUDIO

www.german-maestro.de



OUR PHILOSOPHY

„Small things are what make perfection, but perfection is anything but a small thing“

Sir Frederick Henry Royce (Rolls-Royce)



HERE AT THE GERMANMAESTRO HEADQUARTERS

It is our aim to take in account all those small details every day anew. We take this challenge for our customers to provide products which honestly deserve the seal "Quality Product" and therefore represent a rewarding investment. We see ourselves as a combination of a manufacture and a production plant with the goal to transfer the highest quality possible into a series production. Of course such a structure cannot be developed overnight, but our factory here in Obrigheim, Germany continues a long tradition in loudspeaker manufacturing which dates back several decades and has begun with the production of the brand MB-Quart. Since that time we produce high quality Car-HiFi components, Home speakers, Headphones & Headsets and Marine speakers at our factory.

To preserve our ideals, we created ourselves a guideline which represents the foundation of all our acting and therefore represents the foundation of our whole company and brand as well.

QUALITY BEFORE PROFIT

The first moment, where a decision about the quality of a product has to be made, always comes up at the early stage of development. Unfortunately, things like trade-off (cost and quality), outsourcing or planned obsolescence are terms that are more and more often used by development departments in the modern industry. Ever since we started, we successfully defend the philosophy that cost always just can be optimized to the degree, where the quality does not start suffering from it, and that an in-house production wherever possible is to prefer to outsourcing. This strategy of course leads to increased production cost and less profit, however, a constant and over average high product quality will be granted – and that's what counts in the long run.



EVERYTHING FROM A SINGLE SOURCE

If the goal is to engineer and produce technically sophisticated but therefore benchmark setting products, an enormous amount of technological potential and well-founded knowledge is necessary. For this reason we run our own development department here at GermanMAESTRO, which is equipped with technical facilities that just a handful of other European audio manufacturers have access to: the so called "anechoic chamber" (also known as "dead room"). Due to its huge dimensions and its quite rare version as a full anechoic room without a solid floor, acoustical measurements of loudspeakers can be conducted without any disturbing interference of reflections, standing waves and echoes. Further, all headphones and headsets are acoustically measured and optimized by means of an artificial ear. Our operations management keeps this philosophy as well and continuously trusts in the granted high quality of an in-house production. As a result, our vertical range of manufacture is significantly higher than the sectoral average and even reaches down to the processing of raw materials, for example at our in-house plastics injection molding department.



HANDCRAFT AND AUTOMATION

As common for manufactures, we strongly rely on handcraft at our production, as this is still often the key to a reliable production of technically sophisticated components. The high rate of handcraft at the production allows us to achieve a series production of loudspeakers with extremely narrow build tolerances, what significantly increases the performance and the accuracy of the products. We choose handcraft for all those complicated steps within the production, which require human sense and feel for the product. Thereby, each small detail of a filigree high-tech product can be handled individually and with great care for every single piece we build. On the other hand, there are also steps in the production where the critical factor is not the interaction of human and product, but the necessity to repeat a task absolutely precise and in exactly the same way. Such processes are identified during the preproduction run and will be automated then. Hereby we always use machines which have been engineered by ourselves, in order to match them to our individual requirements. As a result, this intelligent mix of handcraft and automation is increasing our production outcome and the efficiency, whereas quality and flexibility stay on a high level.

This policy will be kept for future developments and productions. We are proud to be a local employer which is regionally linked to many suppliers in the direct environment and globally connected with a good number of wholesale customers who appreciate the solid "Made in Germany" quality and spread it all over the world.



UNSERE WICHTIGSTEN TECHNOLOGIEN

INFORMATION ABOUT OUR TECHNICAL DATA

During the last years, we received several inquiries to adjust our technical data because it would not keep up with the specifications of some comparable products. Hereinafter, we want to explain why we decline this: In most cases, the technical data of a loudspeaker cannot be measured as easily and clearly as the top speed of a car for example. Although most things are standardized, there is still some space left for different interpretations or (in the worst case) binding standards are simply ignored for marketing purposes. This can lead to adventurous technical data, which might appear quite impressive at a first look in the brochure. However, they will never withstand a serious check based on established standards.

As a logical consequence, all manufacturers which publish technically profound information cannot avoid to put themselves in a worse position compared to those who publish unserious information about their products. With our long tradition as a "Made in Germany" manufacturer, we give great importance to the quality of our products and at the same time, we feel responsible to publish reasonable, technically correct information, based on measurements which are in compliance with valid standards.

As a result, all our measurements are done under the following conditions:

- Measuring Room:**
Anechoic chamber as full-room version, no room interference from ~70 Hz up; Brüel&Kjaer measuring amplifier and microphone; ATB Pro measuring system
- Measuring Voltage:**
Always 2,83V (loudspeakers with different impedances can be compared directly)
- Distance Mic.-Speaker:** 1m
- Sensitivity Data:**
Averaged SPL over the whole audible frequency range (not just choosing one peak of the signal)
- Thiele Small Parameters (TSP):**
Calculated by „added weight“ method

We hope that this information answers potential questions about our technical information in advance.

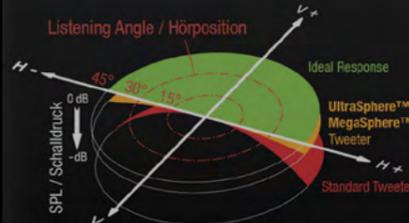


MEGASPHERE™ & ULTRASPHERE™

The key for a maximum of sound experience

A physical law says that the higher a frequency is, the smaller the membrane surface needs to be in order to keep a wide spread sound irradiation. However, this law stands in conflict with the desire to have a high sound pressure level, which requires a larger membrane surface. Thanks to the special shape of our MegaSphere™ and UltraSphere™ inverted tweeter domes, the air in the center of the dome is heavily compressed while the membrane is moving. At conventional tweeter domes, the air can move to the sides of the dome and the pressure fluctuations can allocate to a larger surface. This is why MegaSphere™ and UltraSphere™ domes behave like a smaller dome compared to conventional domes, however without typical disadvantages smaller domes have, like less efficiency and lower load capacity.

Due to the physical connection between membrane surface and frequency, mentioned at the beginning, a MegaSphere™ and UltraSphere™ tweeter dome can emit even highest frequencies wide-spreaded which is supporting a homogenous, clean sound reproduction even in a bad listening position. This technical feature, as well as some others within the dome geometry, make our tweeters so special.



GERMAN MAESTRO

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WHY TITANIUM DOMES FOR THE TWEETERS?

Let's start with the tweeter, which is the most critical component of an audio system.

The advantages of using titanium as dome material:

- | very good acoustical attributes
- | can be formed into complicated shapes
- | very light weight

Titanium is a quite expensive material, which is mostly used for building high-tech machines like modern aircrafts. Titanium has a very high strength at a very light weight. In addition, it is very suitable to deform it. For this reason, it can be formed into complicated structures, which is very important for our special MegaSphere™ and UltraSphere™ Technology.

Besides the advantages during the manufacturing, titanium also has very good acoustical attributes. The high strength and the high inner damping of the material make it a perfect material for speaker cones, because it has less membrane resonances than other materials at the same strength. You won't find many brands using titanium dome tweeters on the market, because it takes a long time to gain enough experience with the material until you are able to build a perfect sounding tweeter from it in series production. Titanium is about 10 times more expensive than Aluminum; however GermanMAESTRO values the advantages for your sound experience more than the material cost.





WHY PLASTIC BASKETS FOR THE MIDBASS?

Once you have a good tweeter available, you need the midbass driver to keep up with it.

The advantages of using plastic for the baskets:

- | lighter weight than metal at same stability
- | resonances are much better absorbed than using a metal basket
- | plastic doesn't disturb the magnetic field of the speaker magnet system
- | less critical to distort than metal (more flexible)

It's a general opinion that metal is a better material than plastic. Nowadays, that is not always true anymore. High-end plastic can be much more suitable for some applications than metal. Just think about modern cars or aircrafts which are partly made from fiberglass to reduce weight at same stability. GermanMAESTRO is using the same fiberglass technology for the speaker baskets, although it is more expensive than metal baskets. The fiberglass tubes are improving the weight/stability ratio. In addition, the basket itself is acoustically much more neutral than a metal basket. Like a well engineered bridge, the basket is resistant against critical vibrations, which helps to have a more clean and pure sound reproduction.

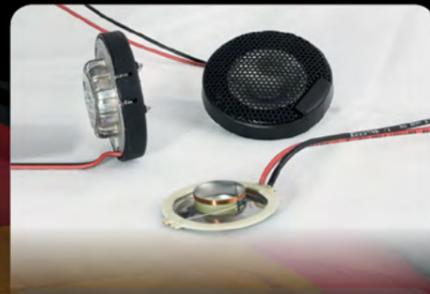


WHY POLYPROPYLENE MEMBRANES FOR THE MIDBASS?

The advantages of polypropylene:

- | high inner damping factor
- | smooth „roll-off“ to higher frequencies
- | absolute resistance against humidity or water
- | a very long lifespan

Polypropylene may not be the fanciest material to build a speaker, but its attributes have some serious advantages if it is used in the right way. Its high inner damping factor makes it a good material to use for membranes, because inner resonances are reduced which makes the sound more pure. In addition, polypropylene is causing a so called „roll-off“ effect. This means that the membrane is limiting its ability to reproduce high frequencies by itself which also is minimizing resonances (as hard membranes have). This helps to smooth the overall frequency response of the speaker. The result is a more audiophile sounding product. Right now, GermanMAESTRO is using polypropylene membranes only. However, if you consider the attributes named above during the engineering of a loudspeaker, you could also think about alternative materials for the speaker membranes.



WHY NARROW BUILD TOLERANCES?

No matter what part of a speaker system – accuracy is very important.

The advantages of narrow build tolerances:

- | increase of magnet system efficiency
- | small size, easy to install
- | less weight
- | higher long-term power handling possible
- | higher series stability
- | consistently high quality, even over many years
- | excellent pair equality – no driver selection necessary

In general, a speaker is quite easy to manufacture. But it really starts getting complicated, once you want to build it with narrow build tolerances:

High quality speakers will always have narrow build tolerances. A small air-gap – through which the voice coil is moving – will increase the efficiency of the speaker, since a narrow air gap is important to make use of the magnetic power in the most efficient way. For this reason, a GermanMAESTRO speaker will need less magnetic material and is still providing higher driving power. Further, a narrow air gap is increasing the maximum power handling of the speaker because the heat removal from voice coil to magnet system can happen more easily.

Further, narrow build part tolerances ensure that each produced loudspeaker is exactly identical to the prototype sample regarding the tonality. Even in a series production over years.

M-LINE

THE ULTIMATE SOUND EXPERIENCE WITHOUT COMPROMISE

With the GermanMAESTRO M-Line, you get the concert hall, the festival stage, the unplugged-gig and all your other favorite songs directly into your car – in a breathtaking quality.

The M-Line represents the top end product you can get from GermanMAESTRO right now. All the knowledge about speaker engineering and all the experience and skills in manufacturing high-end loudspeakers are combined in this product.

The result is a high-end audio system in an impressively high series production quality, which is usually just known for products coming from small manufactures. Proudly, we manufacture this high-end audio system in our factory in Obrigheim, Germany. All build parts we are using are strictly selected.



The MT 40 WS with UltraSphere™ technology is a very high-resolution tweeter and one important component of the M-Line. Thanks to the special geometry of the inverted, pure titanium dome, the MT 40 WS has a very wide sound irradiation which helps to have an amazing sound stage in the car with no lack

Each driver is handmade with great passion and attention to detail. After the final assembling, each driver passes a very accurate quality control with precise frequency response measuring to ensure that each M-Line system which is leaving our company will sound a 100% like the series reference sample and thus have a constantly high sound quality.

In order to achieve an outstanding sound performance and a surprising high power handling, we are using several exclusive technologies which make the M-Line become such a superb sounding and performing audio system.

HIGH-END ULTRASPHERE™ TWEETER

- | UltraSphere™ technology for extraordinary wide sound irradiation
- | Nano-ceramic coating on the tweeter dome for minimizing reflections at high frequencies
- | FEM calculated tweeter dome geometry for best possible force transmission from the voice coil to the tweeter dome
- | High power neodymium magnet system for best efficiency
- | 0,75 mm² connection cable for a lossless connection

of acoustical information, even if the listening position is out of the axis of the tweeter, which can happen at some car installations. A high power neodymium magnet system grants best efficiency and uncompromising performance. Extra thick connection wires ensure that there will be no loss of the signal.

Most of those technologies have been simulated with the finite element method (FEM), a numerical procedure for solving differential equations. By using this method in combination with a lot of experience, the M-Line is one of the most noble and best performing aftermarket car-hifi systems in the world.

As a result, the listener will experience breathtaking fine resolution with amazing attention to detail, an impressive dynamic range with immediate response, a very well balanced tonality over the whole frequency range (28 Hz – 32.000 Hz) and a very solid sound stage with very precise positioning.





MIDRANGE & WOOFER DRIVERS

- | Nano-ceramic coating to minimize distortions and support the membranes
- | FEM calculated membranes for a high-end linear frequency response
- | 25 mm / 38 mm edge wound voice coils for a high power handling
- | Gold coated connection terminals for an optimum connection to the speaker cable
- | Compact, high efficiency neodymium magnet system with FEM calculated t-yoke geometry to increase efficiency and linear travel of the voice coil
- | Aluminum basket with CTC technology for optimum heat removal and best performance

The MM 4 midrange driver and the MW 6 woofer driver are using nano-ceramic coated polypropylene membranes with an optimized geometry.

Thanks to this geometry, the frequency response is optimized, especially in the midrange, which results in a very linear acoustical behavior of both drivers. The nano-ceramic coating is increasing the stiffness of the membrane to give additional stabilization at higher volumes and reflections inside the membrane are minimized to avoid distortions.

Big, edge wound, 25 mm voice coils for the midrange and 38 mm voice coils for the woofer guarantee enough power handling to get out the maximum result of dynamics and fine resolution from the speaker system. Gold coated connection terminals at the driver baskets ensure a very low contact resistance for an optimum connection to the speaker cable.

Both drivers are using ultra compact, high efficiency neodymium magnet systems at the highest quality which is available on the market. The t-yoke within the magnet system has been optimized by FEM technology to increase the use

of the magnetic energy provided by the magnet system and keep the magnetic field stable along the way where the voice coil is moving. This is increasing the linear movement of the voice coil and brings the sound reproduction on a very high-end level.

The whole basket of both drivers is made from aluminum and it is optimized for the best possible heat removal from the voice coil to the outer basket. This technology, we call CTC (concerted thermal compensation). By using this technology, it is possible to have smallest driver dimensions at a still very high power handling.



FREQUENZWEICHEN

- | Optimized circuit layout for minimizing interferences between the used build parts
- | Open enclosure design for perfect heat allocation during the use of the system
- | High-end film capacitors, electrolytic capacitors and coils to keep the crossover acoustical completely neutral
- | Adjustable tweeter and midrange volume level for keeping a perfect tonal balance in different installation scenarios

The M-Line crossovers have been engineered for fitting together all components of the M-Line 2-way or 3-way systems in the best possible way.

The size of the crossover allows keeping enough space left between the build parts which are used in order to bring down interferences to the lowest possible level. The open enclosure design causes a high degree of ventilation which is important for cooling down all the critical build parts. In this way, an optimum allocation of heat between all build parts can happen when the hifi system is playing.

Thanks to the overall very high quality of the build parts and their well considered placement, the M-Line crossovers are a very neutral link in the chain between amplifier and loudspeaker. For processing the very filigree tweeter signal, we solely use high-end film capacitors. For Mid-range and Woofer, electrolytic capacitors with extremely narrow tolerances are used. The coils used for the low-pass filter of the crossover are engineered to perfectly fit to their application regarding specifications and design. Due to the high quality of the used build parts and the special layout, this crossover is very neutral

regarding the tonality of the music signal. At the end, this safes a pure and original sound signal which is just distributed to the corresponding driver of the audio system without any further interference.

The tweeter level can be adjusted in 4 steps, the midrange level in 3 steps (MS 64.3). This possibility allows fitting the single drivers perfectly together according the installation situation once the M-Line has been installed in a car.

Technical Data	MS 64.3	MS 64.3 Active	MS 6.2	MS 6.2 Active	MS 5.2
Ø Tweeter (T)	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")
Ø Midrange (M)	10 cm (4")	10 cm (4")	10 cm (4")	10 cm (4")	10 cm (4")
Ø Woofer (W)	16 cm (6.5")	16 cm (6.5")	16 cm (6.5")	16 cm (6.5")	13 cm (5.25")
Principle	3-Way Component System	3-Way Component System (active)	2-Way Component System	2-Way Component System (active)	2-Way Component System
Power Handling	90 W RMS 295 W Max.	90 W RMS 295 W Max.	90 W RMS 290 W Max.	90 W RMS 290 W Max.	70 W RMS 230 W Max.
Frequency Response	28 - 32.000 Hz	28 - 32.000 Hz	30 - 32.000 Hz	30 - 32.000 Hz	50 - 32.000 Hz
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	209 / 2.350 Hz (12 dB/Okt.)	Crossover not included!	2.000 Hz (12 dB/Okt.)	Crossover not included!	2.000 Hz (12 dB/Okt.)
Sensitivity	87 dB (2,83V/1m)	87 dB (2,83V/1m)	86 dB (2,83V/1m)	86 dB (2,83V/1m)	86 dB (2,83V/1m)

MS 64.3



3-Way Component System
Ø 16 cm (6.5") / 10 cm (4") / 49 mm (1.93")

MS 6.2



2-Way Component System
Ø 16 cm (6.5") / 49 mm (1.93")

MS 5.2



3-Way Component System
Ø 13 cm (5.25") / 49 mm (1.93")



ACTIVE-VERSION

In addition and as a Special Version the German MAESTRO engineers created the sets MS 64.3 Active and MS 6.2 Active, which is purposely not equipped with crossovers. Detailed additional technical information provided about the tweeters and the mid/woofers allow users to drive the speaker system actively by using separate amplifiers and a digital signal processor (DSP).

MS 64.3 Active



3-Way Component System (active)
Ø 16 cm (6.5") / 10 cm (4") / 49 mm (1.93")

MS 6.2 Active



2-Way Component System (active)
Ø 16 cm (6.5") / 49 mm (1.93")

STATUS



LEAVING THE COMMON ROADS FOR APPROACHING A NEW, PIONEERING STEP OF ENGINEERING

The German MAESTRO STATUS-Line stands for „State-of-the-Art“-products and proves, that intelligent “Made in Germany” quality can also set new standards with regard to loudspeakers.

With these high-end systems, there is nothing left to be desired regarding sound performance and installation comfort. The most innovative component of the STATUS-Line is the two-section titanium dome tweeter ST 40 WS in UltraSphere™ technology. The very linear

frequency response of the ST 40 WS over the whole usable range grants a pleasant sound experience in highest quality and clarity. The extremely wide and homogenous irradiation of the tweeter minimizes distortions caused by imbalanced reflections inside the car. Further,

the extremely high SPL-capability and power rating, the very good harmonic distortion and the extremely huge usable frequency range from 1,2 kHz – 32 kHz make the ST 40 WS become a benchmark setting product.

STATUS SV

- Tweeter based on exclusive UltraSphere™ technology with inverted two-piece titanium dome and extremely powerful neodymium ring magnet system
- Woofer with two-piece carbon-fibre reinforced plastic chassis and polypropylene cone
- Magnet system with specially designed metal cover for additional cooling
- Edge wound 1" (25 mm) voice coils
- Connection terminals gold-plated allowing for the best possible signal transfer
- STATUS performance-crossover with unique MultiMOUNT System (MMS) for limitless mounting possibilities. Three-level tweeter attenuator with rotary switch. Selected parts
- Bi-wiring and bi-amping enabled
- Surface mounting rings, grilles and additional mounting accessories included
- Separate or coaxial mounting

convertible



Additional option for coaxial mounting

All component systems of SV and EV line can be easily converted to coaxial-systems and

therefore be adjusted for changing installation scenarios. Just remove the phase-plug and exchange it with the tweeter mounted on the port attached in the accessory – done.

SV 6509



2-Way Compo./Coaxial System
Ø 16 cm (6.5") / 49 mm (1.93")

SV 6509 Active



2-Way Compo./Coaxial System (active)
Ø 16 cm (6.5") / 49 mm (1.93")

SV 5009



2-Way Compo./Coaxial System
Ø 13 cm (5.25") / 49 mm (1.93")

SV 4009



2-Way Compo./Coaxial System
Ø 10 cm (4") / 49 mm (1.93")

ST 40 WS



Ultra high efficiency Tweeter
Ø 49 mm (1.93")

SW 6509



Add-A-Woofer System
Ø 16 cm (6.5")

Add-A-Woofer System SW 6509

The Add-A-Woofer System allows you to either add an additional 6.5" woofer to any 2-way system, or upgrade it to a complete 3-way system. The SW 6509 crossovers can be connected parallel to the 2-way system and their low-pass output can be used for the additional woofers, or you connect them in series before the 2-way system and use the also available high-pass output as input for the 2-way system crossover to cut off the low frequencies.



Technical Data	SV 6509	SV 6509 Active	SV 5009	SV 4009	ST 40 WS*	SW 6509
Ø Tweeter (T)	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")	49 mm (1.93")	
Ø Woofer (W)	16 cm (6.5")	16 cm (6.5")	13 cm (5.25")	10 cm (4")		16 cm (6.5")
Principle	2-Way Compo./Coax. System	2-Way Compo./Coax. System	2-Way Compo./Coax. System	2-Way Compo./Coax. System	Tweeter	Add-A-Woofer System
Power Handling	60 W RMS 195 W Max.	60 W RMS 195 W Max.	50 W RMS 165 W Max.	40 W RMS 130 W Max.	25 W RMS 50 W Max.	70 W RMS 230 W Max.
Frequency Response	30 – 32.000 Hz	30 – 32.000 Hz	52 – 32.000 Hz	60 – 32.000 Hz	800 – 32.000 Hz	30 – 700 Hz
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	6 Ω	4 Ω
Crossover Frequency	2.900 Hz (12 dB/Okt.)	Crossover not included!	2.900 Hz (12 dB/Okt.)	3.500 Hz (12 dB/Okt.)	Crossover not included!	150 Hz (12 dB/Okt.)
Sensitivity	87 dB (2,83V/1m)	87 dB (2,83V/1m)	87 dB (2,83V/1m)	85 dB (2,83V/1m)	93 dB (2,83V/1m)	85 dB (2,83V/1m)

*Performance if filtered > 2.000 Hz. Operated without passiv crossover we recomand high-pass settings as follows: 24dB / > 2.000 Hz ; 12dB / > 2.500 Hz (25 Watt RMS Power Handling)

EPIC



PRODUCTS, MADE FOR „MAKERS“

The German MAESTRO EPIC-Line convinces by the extreme wide range of possible applications. No matter if 4", 5", 6.5", 6x8, 6x9", 8", 2-way, 3-way or ultra-flat systems, the EPIC-Line provides the comfort to conveniently switch the installation-scenario from a component installation, with the tweeter placed at a random position, to a coaxial installation with woofer and tweeter on same axis.

The magnetic lock system allows you to mount the tweeter in the center of the woofer with an easy hand grip. Further, there are ultra-flat 4", 5", and 6.5" component systems available with a front-magnet system made from high energy neodymium magnets. The most shal-

low system has a total mounting depth of just 1.08"/28,5mm. For extraordinary installations, there is also an 8" 2-way and 3-way system available. Another specialty of EPIC-Line is the extremely compact titanium-dome tweeter ET 20 WS with

no more than 0.8"/20mm dome diameter. Regardless of this very compact size, this tweeter in MegaSphere™ technology is still very SPL capable and has a very fine sound reproduction and is also available as a separate upgrade-kit.

EPIC EV

- Ultra-compact-sized tweeter based on exclusive MegaSphere™ technology with inverted one-piece 20 mm (0.8") titanium dome and powerful neoymium magnet system in metal housing with Concerted Thermal Compensation (CTC) for optimized heat dissipation
- Woofer with two-piece plastic chassis, polypropylen cone and magnet system cooled by specially designed metal cover
- Edge wound 1" (25 mm) voice coils
- EPIC crossovers with unique MultiMOUNT system (MMS) for limitless mounting possibilities three-level tweeter output
- Surface mounting rings, grilles and additional mounting accessories included (EV 6808: without woofer grilles, mounting material included)
- Separate or coaxial mounting with EV-Systems

convertible



Additional option for coaxial mounting

All component systems of SV and EV line can be easily converted to coaxial-systems and therefore be adjusted for changing installation scenarios. Just remove the phase-plug and exchange it with the tweeter mounted on the port attached in the accessory – done.



ET 20 WS



Tweeter Set
Ø 37,5 mm (1.48")

EV 5008



2-Way Compo./Coaxial System
Ø 16 cm (6.5") / 37,5 mm (1.48")

EV 4008



2-Way Compo./Coaxial System
Ø 13 cm (5.25") / 37,5 mm (1.48")

EV 6508



2-Way Compo./Coaxial System (active)
Ø 16 cm (6.5") / 37,5 mm (1.48")

Technical Data	ET 20 WS*	EV 6508	EV 6508 Active	EV 5008	EV 4008
Ø Tweeter (T)	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")
Ø Woofer (W)		16 cm (6.5")	16 cm (6.5")	13 cm (5.25")	10 cm (4")
Principle	Tweeter Set	2-Way Compo./Coaxial System	2-Way Compo./Coaxial System	2-Way Compo./Coaxial System	2-Way Compo./Coaxial System
Power Handling	60 W RMS 120 W Max.	60 W RMS 195 W Max.	60 W RMS 195 W Max.	50 W RMS 165 W Max.	40 W RMS 130 W Max.
Frequency Response	4.000 – 30.000 Hz	30 – 30.000 Hz	30 – 30.000 Hz	52 – 30.000 Hz	60 – 30.000 Hz
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	5.000 Hz (12 dB/Okt.)	4.000 Hz (6/12 dB/Okt.)	Crossover not included!	4.000 Hz (6/12 dB/Okt.)	3.700 Hz (6/12 dB/Okt.)
Sensitivity	91 dB (2,83V/1m)	88 dB (2,83V/1m)	88 dB (2,83V/1m)	86 dB (2,83V/1m)	84 dB (2,83V/1m)

*Operated with included passiv crossover. Operated without passiv crossover we recomand high-pass settings as follows: 24dB / > 4.500 Hz ; 12dB / > 5.000 Hz (18 Watt RMS Power Handling)

EV 6808



2-Way Compo./Coaxial System
Ø 6 x 8" / 37,5 mm (1.48")

EV 6908



2-Way Compo./Coaxial System
Ø 6 x 9" / 37,5 mm (1.48")

EPIC ES

Ultra-compact-sized tweeter based on exclusive MegaSphere™ technology with inverted one-piece 20 mm (0.8") titanium dome and powerful neodymium magnet system in metal housing with Concerted Thermal Compensation (CTC) for optimized heat dissipation

Woofer with two-piece plastic chassis, polypropylen cone and magnet system cooled by specially designed metal cover

Edge wound 1" (25 mm) voice coils

EPIC crossovers with unique MultiMOUNT system (MMS) for limitless mounting possibilities three-level tweeter output (ES 84.3: Four-level tweeter attenuator with rotary switch)

Surface mounting rings, grilles and additional mounting accessories included (ES 84.3 / ES 8009: without 8" woofer grills)

Separate or coaxial mounting with EV systems

ES 8009



2-Way Compo. System
Ø 20 cm (8") / 37,5 mm (1.48")

ES 84.3



3-Way Compo. System
Ø 20 cm (8") / 10 cm (4") / 37,5 mm (1.48")

ES 84.3 Active



3-Way Compo. System (active)
Ø 20 cm (8") / 10 cm (4") / 37,5 mm (1.48")

Extra flat
28,5 mm (1.08")

EPIC EFS
– ULTRA FLAT SYSTEMS

Woofer with extremely shallow basket for optimized installation in stock locations with limited mounting depths

Encapsulated, front-mounted neodymium magnet system supported by Concerted Thermal Compensation (CTC)

tweeter with one-piece 25mm (1") titanium dome in plastic housing

EPIC crossover with unique MultiMOUNT System (MMS) for limitless mounting possibilities. Three-level tweeter output

EFS 4.2



2-Way Compo. System
Ø 10 cm (4") / 44,5 mm (1.77")

Extra flat
28,5 mm (1.08")

Extra flat
42,25 mm (1.66")

EFS 6508



2-Way Compo. System
Ø 16 cm (6.5") / 44,5 mm (1.77")

EFS 5008



2-Way Compo. System
Ø 13 cm (5.25") / 44,5 mm (1.77")

Extra flat
45,25 mm (1.78")

Technical Data	EV 6808	EV 6908	ES 8009	ES 84.3	ES 84.3 Active
Ø Tweeter (T)	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")	37,5 mm (1.48")
Ø Midrange (M)	6 x 8"	6 x 9"		10 cm (4")	10 cm (4")
Ø Woofer (W)			20 cm (8")	20 cm (8")	20 cm (8")
Principle	2-Way Compo./Coaxial System	2-Way Compo./Coaxial System	2-Way Compo. System	3-Way Compo. System	3-Way Compo. System active
Power Handling	40 W RMS 130 W Max.	50 W RMS 165 W Max.	75 W RMS 240 W Max.	75 W RMS 245 W Max.	75 W RMS 245 W Max.
Frequency Response	38 – 30.000 Hz	30 – 30.000 Hz	28 – 30.000 Hz	26 – 30.000 Hz	26 – 30.000 Hz
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	3.500 Hz (6/12 dB/Okt.)	4.000 Hz (6/12 dB/Okt.)	4.000 Hz (6/12 dB/Okt.)	147 / 3.400 Hz (12 dB/Okt.)	Crossover not included!
Sensitivity	88 dB (2,83V/1m)	86 dB (2,83V/1m)	88 dB (2,83V/1m)	86 dB (2,83V/1m)	86 dB (2,83V/1m)

Technical Data	EFS 4.2	EFS 6508	EFS 5008
Ø Tweeter (T)	44,5 mm (1.77")	44,5 mm (1.77")	44,5 mm (1.77")
Ø Woofer (W)	10 cm (4")	16 cm (6.5")	13 cm (5.25")
Principle	2-Way Compo. System	2-Way Compo. System	2-Way Compo. System
Power Handling	30 W RMS 100 W Max.	50 W RMS 165 W Max.	35 W RMS 115 W Max.
Frequency Response	59 – 30.000 Hz	38 – 30.000 Hz	52 – 30.000 Hz
Impedance	4 Ω	4 Ω	4 Ω
Crossover Frequency	3.800 Hz (12 dB/Okt.)	5.200 Hz (12 dB/Okt.)	5.200 Hz (12 dB/Okt.)
Sensitivity	84 dB (2,83V/1m)	88 dB (2,83V/1m)	87 dB (2,83V/1m)

CONCEPT



MAYBE THE MOST HONEST CAR-HIFI LINE IN THE WORLD

CONCEPT stands for our ambitious aim to provide a product line which is completely focused on sound performance, with the highest possible amount of German handcraft and an outstanding price/quality ratio.

Just like you would expect a high-quality "Made in Germany" product to be like. The GermanMAESTRO CONCEPT-Line offers the perfect sound systems for all people, who have a tight budget for their sound installation but still do not want to make any compromise in sound performance and value the high quality of German workmanship.

Even in this price range, it is a question of honor for us to provide high-end pure titanium dome tweeters in MegaSphere™-Technology at all CONCEPT products for increasing your listening pleasure and make it last for many years.

CONCEPT CS COMPONENT-SYSTEM

Tweeter based on exclusive MegaSphere™ technology with inverted one-piece 30 mm (1.2") titanium dome and powerful neodymium magnet system

Woofer with two-piece plastic chassis, polypropylene cone and edge wound voice coils

CONCEPT crossover with new and unique MultiMOUNT system for limitless mounting possibilities. Two-level tweeter output CS 654010: compact cable crossovers with separate woofer-crossover for maximum installation comfort, two-level tweeter output, low-pass filter of the midrange speaker can be disabled for more flexibility at semi-active installations CS 4008: separate cable crossover

Tweeter mounting rings, -consoles and other additional mounting accessories included

CONCEPT CS 654010

3-Way Component System
Ø 16 cm (6.5") / 10 cm (4") / 40 mm (1.57")

CONCEPT CS 654010
INSANITY ON 3-WAYS

This 3-way system is no toy at all. Every detail of this product has been optimized for a perfect sound reproduction even at high SPL. Functionality dominates the engineering and in good, old GermanMAESTRO fashion, we left out all unnecessary glitter-cosmetics. With the CS 654010, we provide a 3-way sound machine to you. Not more and for sure not less.



CONCEPT CS 6508

2-Way Component System
Ø 16 cm (6.5") / 40 mm (1.57")

CONCEPT CS 5008

2-Way Component System
Ø 13 cm (5.25") / 40 mm (1.57")

INSTALLER VERSION (IV)

For an easy and quick installation behind the original speaker covers of your car, we provide the installer version systems without grills for the woofers and with an extra small crossover.

CONCEPT CS 6508 IV 2Ω

2-Way Component System
Ø 16 cm (6.5") / 40 mm (1.57")

CONCEPT CS 4008

2-Way Component System
Ø 10 cm (4") / 40 mm (1.57")

CONCEPT CS 5008 IV 2Ω

2-Way Component System
Ø 13 cm (5.25") / 40 mm (1.57")

Technical Data	CS 654010	CS 6508	CS 6508 IV	2Ω Version CS 6508 IV 2	CS 5008	2Ω Version CS 5008 IV 2	CS 4008
Ø Tweeter (T)	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")
Ø Midrange (M)	10 cm (4")						
Ø Woofer (W)	16 cm (6.5")	16 cm (6.5")	16 cm (6.5")	16 cm (6.5")	13 cm (5.25")	13 cm (5.25")	10 cm (4")
Principle	3-Way Compo. System	2-Way Compo. System	2-Way Compo. System	2-Way Compo. System	2-Way Compo. System	2-Way Compo. System	2-Way Compo. System
Power Handling	60 W RMS 170 W Max.	50 W RMS 165 W Max.	50 W RMS 150 W Max.	60 W RMS 150 W Max.	35 W RMS 100 W Max.	60 W RMS 120 W Max.	30 W RMS 100 W Max.
Frequency Response	31 - 28.000 Hz	35 - 28.000 Hz	38 - 28.000 Hz	33 - 28.000 Hz	55 - 28.000 Hz	50 - 28.000 Hz	53 - 28.000 Hz
Impedance	4 Ω	4 Ω	4 Ω	2 Ω	4 Ω	2 Ω	4 Ω
Crossover Frequency	276 / 3,500 Hz (6/12 dB/Okt.)	5,500 Hz (-12 dB/Okt.)	4,400 Hz (-12 dB/Okt.)	5,500 Hz (-12 dB/Okt.)	5,500 Hz (-12 dB/Okt.)	5,700 Hz (-12 dB/Okt.)	4,500 Hz (-12 dB/Okt.)
Sensitivity	89 dB (2,83V/1m)	89 dB (2,83V/1m)	89 dB (2,83V/1m)	92 dB (2,83V/1m)	88 dB (2,83V/1m)	91 dB (2,83V/1m)	87 dB (2,83V/1m)

Subject to technical changes.



CC 6508



2-Way Coaxial System
Ø 16 cm (6.5") / 40 mm (1.57")

CONCEPT CC COAXIAL-SYSTEM

- Tweeter based on exclusive MegaSphere™ technology with inverted one-piece 30 mm (1.2") titanium dome and powerful neodymium magnet system
- Woofer with two-piece plastic chassis and polypropylene cone
- Compact-sized, chassis-mounted crossovers
- Surface mounting rings, grilles and additional mounting accessories included
(CC 6808: without woofer grills, mounting material included)

2Ω
Version

UP TO 100% MORE SPL
WITH TAKING MORE POWER
FROM YOUR AMPLIFIERS

This new CONCEPT 2 Ohm Series is designed as a special high efficiency version: It provides the option to take more power out of amplifiers (being stable with 2-3 ohms) resulting in a speaker's SPL increase of about +100%, compared to a similarly system with 4 ohms - driven with same amplifier's input level.

CC 6508 IV 2Ω



2-Way Coaxial System
Ø 16 cm (6.5") / 40 mm (1.57")

CC 5008
CC 5008 IV 2Ω



2-Way Coaxial System
Ø 13 cm (5.25") / 40 mm (1.57")

CC 4008



2-Way Coaxial System
Ø 10 cm (4") / 40 mm (1.57")

CC 6808



2-Way Coaxial System
Ø 6 x 8" / 40 mm (1.57")

CC 6908



2-Way Coaxial System
Ø 6 x 9" / 40 mm (1.57")

Technical Data	CC 6508	2Ω Version CC 6508 IV 2	CC 5008	2Ω Version CC 5008 IV 2	CC 4008	CC 6808*	CC 6908
Ø Tweeter (T) Ø Woofer (W)	40 mm (1.57") 16 cm (6.5")	40 mm (1.57") 16 cm (6.5")	40 mm (1.57") 13 cm (5.25")	40 mm (1.57") 13 cm (5.25")	40 mm (1.57") 10 cm (4")	40 mm (1.57") 6 x 8"	40 mm (1.57") 6 x 9"
Principle	2-Way Coaxial System	2-Way Coaxial System	2-Way Coaxial System	2-Way Coaxial System	2-Way Coaxial System	2-Way Coaxial System	2-Way Coaxial System
Power Handling	50 W RMS 165 W Max.	60 W RMS 150 W Max.	35 W RMS 150 W Max.	60 W RMS 120 W Max.	30 W RMS 100 W Max.	50 W RMS 165 W Max.	60 W RMS 195 W Max.
Frequency Response	38 - 28.000 Hz	33 - 28.000 Hz	55 - 28.000 Hz	50 - 28.000 Hz	60 - 28.000 Hz	40 - 28.000 Hz	35 - 28.000 Hz
Impedance	4 Ω	2 Ω	4 Ω	2 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	5.100 Hz (-12 dB/Okt.)	5.200 Hz (-12 dB/Okt.)	5.500 Hz (-12 dB/Okt.)	5.700 Hz (-12 dB/Okt.)	4.500 Hz (-12 dB/Okt.)	4.700 Hz (-12 dB/Okt.)	4.700 Hz (-12 dB/Okt.)
Sensitivity	89 dB (2,83V/1m)	92 dB (2,83V/1m)	88 dB (2,83V/1m)	91 dB (2,83V/1m)	87 dB (2,83V/1m)	89 dB (2,83V/1m)	90 dB (2,83V/1m)

*For original installation slots only, mounting material included

ALPHA



BECAUSE WE ARE COMMITTED ON HIGH QUALITY

„Made in Germany“ already starts at our entry-level series ALPHA, which we build for you in our own factory.

ALPHA

- Tweeter with German made one-piece 30 mm (1.2") pure titanium dome, embedded in highly damped plastic housing
- Rugged metal basket woofer with polypropylene cone
- ALPHA AS: Compact crossovers for easy integration in the car
- ALPHA AC: Compact-sized, chassis-mounted crossovers
- Mounting rings for the tweeters and grills for the woofers included

AAS 6511



2-Way Component System
Ø 16 cm (6.5") / 40,5 mm (1.59")

AAC 6511



2-Way Coaxial System
Ø 16 cm (6.5") / 40,5 mm (1.59")

Technical Data	AS 6511	AC 6511
Ø Tweeter (T) Ø Woofer (W)	40,5 mm (1.59") 16 cm (6.5")	40,5 mm (1.59") 16 cm (6.5")
Principle	2-Way Compo. System	2-Way Coaxial System
Power Handling	50 W RMS 120 W Max.	50 W RMS 120 W Max.
Frequency Response	40 - 28.000 Hz	42 - 28.000 Hz
Impedance	4 Ω	4 Ω
Crossover Frequency	4.000 Hz (-12 dB/Okt.)	4.500 Hz (-12 dB/Okt.)
Sensitivity	88 dB (2,83V/1m)	90 dB (2,83V/1m)

Subject to technical changes.

Subwoofer



SWF 8012 HE



58 mm / 2.28"

21 mm / 0.82"

SWF 8012 HE Subwoofer (shallow mount)

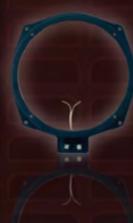
GermanMAESTRO proudly released its shallow mount subwoofer. The cone-voice-coil system with maximized surface are along with the high-power neodymium magnet system not only impresses with high SPL, but also with extremely high control over the moving assembly – making this subwoofer a first choice product for Sound Quality as well.

- Slim shallow mount design with front motor applicable especially for underseat- and doorboard installations e.g. in many BMW or Volkswagen cars
- High efficiency due to maximized cone surface
- Very high SPL max. due to extremely powerful neodymium magnet system
- Exceptional low range performance, due to very low resonance frequency
- Renders every detail of the music, due to minimization of mechanical losses
- Very high long-term power handling due to optimum voice coil ventilation and heat dissipation

ABILITY	ENCLOSURE	RECOMMENDATION	CUTOFF FREQUENCY
good	sealed	10 liters	53 Hz (-10dB)
very good	vented	25 liters	37 Hz (-10dB)
	tube	8/25 cm (Ø/L)	
BMW	under the seat	- liters	30 Hz (-10dB)

	SWF 8012 HE
Ø Woofer (W)	20 cm (8")
Principle	Subwoofer (shallow mount)
Power Handling	150 W RMS 290 W Max.
Impedance	4 Ω
Sensitivity	93 dB (2,83V/1m)

RE80-1-BMW



The RE80-1-BMW adapter ring is the optimal solution to install the SWF 8012 HE subwoofer under the seat.

SW 8010 HE



Subwoofer
Ø 20 cm (8")

Enclosure Redommendations

sealed	10,5 liters	50 (Hz -10dB) 87 (Hz -3dB)
vented	24 liters	24 (Hz -10dB) 34 (Hz -3dB)
bandpass	20 liters	26 (Hz -10dB) 33 (Hz -3dB)

TSP

Fs	38 Hz
Re	3,4 Ohm
Qts	0,31
Vas	44 Liter

SW 10009



Wide-Band Woofer
Ø 25 cm (10")

SW 10009 WideBand Woofer

Extremely efficient and quick-responding 25 cm (10") WideBand Woofer for Sound Quality Fans who appreciate dynamics and SPL at low frequencies.

Like all models out of the SW series, the SW 10009 comes with an exceptional light-weight moving assembly. This helps to significantly increase precision and efficiency.

Thanks to the motor, which is engineered to perform best in indefinite baffles, this woofer is very suitable for installations where internal space counts and should not be wasted by a separate enclosure. Typical applications for this woofer are installations in caravans, motor homes and boats.

TSP

Fs	51 Hz
Re	3,6 Ohm
Qts	0,72
Vas	30,6 Liter
A	333,29 cm ²

SW 8008



Wide-Band Woofer
Ø 20 cm (8")

- Especially suited for integration in caravans, motor homes and boats
- High Efficiency thanks to light-weight moving assembly.
- High SPL max. due to long stroke surround
- Very precise sound reproduction thanks to light-weight and symmetrical suspended membrane
- Extremely detailed, dynamic sound reproduction by minimized mechanical losses
- High power handling, achieved by an optimized ventilation of the voice coil and improved heat dissipation.

Technical Data

	SW 8010 HE	SW 8009	SW 10009
Ø Woofer (W)	20 cm (8")	20 cm (8")	25 cm (10")
Principle	Subwoofer	Wide-Band Woofer	Wide-Band Woofer
Power Handling	120 W RMS 260 W Max.	100 W RMS 240 W Max.	150 W RMS 300 W Max.
Impedance	4 Ω	4 Ω	4 Ω
Sensitivity	93 dB (2,83V/1m)	91 dB (2,83V/1m)	91 dB (2,83V/1m)



Car-specific

The MB 4.2 FR was specifically engineered to fit in various Mercedes-Benz models for achieving an easy installation at good sound-performance. Like our other speaker lines, this set is manufactured in our own factory by using many build parts which come from German vendors, too.

MB 4.2 FR



Mercedes Benz
 2-Way Component + Full-Range System
 Ø 10 cm (4") / 40 mm (1.57")

MB 4.2 FR Active



Mercedes Benz
 2-Way Component + Full-Range Active System
 Ø 10 cm (4") / 40 mm (1.57")

Technical Data	MB 4.2 FR	MB 4.2 FR Active
Ø Tweeter (T)	40 mm (1.57")	40 mm (1.57")
Ø Woofer (W)	10 cm (4")	10 cm (4")
Principle	2-Way Compo. + Full-Range System	2-Way Compo. + Full-Range Active System
Power Handling	30 W RMS 100 W Max.	30 W RMS 100 W Max.
Frequency Response	59 - 28.000 Hz	59 - 28.000 Hz
Impedance	4 Ω	4 Ω
Crossover Frequency	4.000 Hz	Crossover not included!
Sensitivity	82 dB (2,83V/1m)	88 dB (2,83V/1m)

MB 4.2 FR

Tweeter based on exclusive MegaSphere™ technology with inverted one-piece 30 mm (1.2") titanium dome and powerful neodymium magnet system

Midrange speaker with new engineered injection-molding basked and adapter ring, by using latest simulation software. Molded from premium fiberglass-reinforced plastic from Germany.

Inlying magnet system with strong neodymium magnet, encapsulated by a precise, CNC-machined & powder-coated pot (Made in Germany), made by strictly specified metal for an optimum magnet flux density.

2-way cable crossover with 12dB high- & low-pass, optional gain reduction for the tweeter and optional high-pass filter for the midrange.

Sealing ring made from foam with automotive certification and flame retardancy (Made in Germany).

Fits for following models that have OEM tweeter ports:

| W222 S-Class, W217 S-Class Coupé / S-Class Cabriolet, W253 GLC-Class, W213 E-Class, W205 C-Class



Accessories

GRS 65XX



Grill- and ring set
 for 16 cm (6.5") loudspeaker
 incl. mounting accessories & instructions



GRS 50XX



Grill- and ring set
 for 13 cm (5.25") loudspeaker
 incl. mounting accessories & instructions



GRS 40XX



Grill- and ring set
 for 10 cm (4") loudspeaker
 incl. mounting accessories & instructions

Included in the set:
 2 flush mount installation rings
 2 surface mount installation rings (12 mm/0.47") mounting height)
 2 grills
 2 plates GermanMAESTRO
 Mounting accessories & instructions

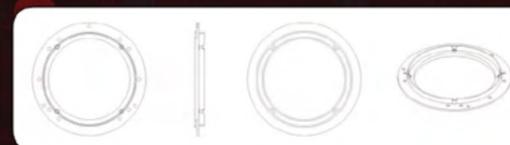
Dimensions

	GRS 65XX	GRS 50XX	GRS 40XX
Ø Hole cut-out for assembly: - with flush mount installation ring - mit flush & surface mount installation ring	180 mm (7.09") 152 mm (5.99")	180 mm (5.71") 152 mm (4.61")	180 mm (4.61") 152 mm (3.46")
Cut-out flush mount installation ring	196 mm (7.72")	160 mm (6.30")	129 mm (5.08")
Hight surface mount installation ring	12 mm (0.47")		

AAS 5060



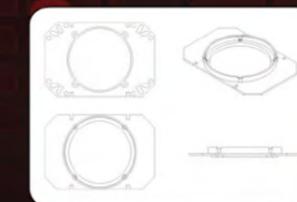
Adapter plate 5" > 6" (Set für 2 Lautsprecher)
 incl. mounting accessories & instructions



AAS 4046



Adapter plate 4" > 4x6" (Set for 2 loudspeakers)
 incl. mounting accessories & instructions



Get them to the surface.

MARINA

High-End Marine Audio Products, Made in Germany



The German MAESTRO's high-quality speakers in the MARINA-Line are designed to meet the high-stress requirements found on the open waters.

On-board sound systems are subjected to severe environmental effects, including saltwater, rain, direct sunlight and extreme temperature fluctuations. All components in the MARINA-Line are therefore put through stringent tests under the most extreme conditions to check their resistance to these elements. This results in an unmatched and long-term durable sound experience bringing your music perfectly on the water.

MARINA

Speaker basket and grille made of UV-resistant fiber-reinforced ABS plastic

Insert injection-molded magnet systems for optimized protection against humidity and mechanical influences

MARINA woofer with polypropylene cone

0.75" tweeter with titanium dome

MARINA crossover with special protective sealing lacquer and gold-plated terminals to resist corrosion

Voice-coils protected against direct water spray

Sealed solder joints

Stainless steel V4A mounting screws included

Separate mounting gaskets

MRC 10008 D



2-Way Subwoofer
Ø 25 cm (10")

MRW 10008



Subwoofer
Ø 25 cm (10")

MRC 6908



2-Way Coaxial System
Ø 6 x 9" / 25 mm (10")

MRC 6508



2-Way Coaxial System
Ø 16 cm (6.5") / 19 mm (0.75")

Technical Data	MRC 10008 D	MRW 10008	MRC 6908	MRC 6508
Ø Tweeter (T) Ø Woofer (W)	2 x 25 mm (2 x 1") 25 cm (10")	25 cm (10")	25 mm (1") 6 x 9"	19 mm (0.75") 16 cm (6.5")
Principle	2-Way Subwoofer	Subwoofer	2-Way Coaxial System	2-Way Coaxial System
Power Handling	150 W RMS 300 W Max.	150 W RMS 300 W Max.	60 W RMS 140 W Max.	60 W RMS 130 W Max.
Frequency Response	25 - 32.000 Hz	29 - 300 Hz	35 - 32.000 Hz	38 - 32.000 Hz
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	3.000 Hz	-	3.800 Hz	4.000 Hz
Sensitivity	89 dB (2,83V/1m)	90 dB (2,83V/1m)	89 dB (2,83V/1m)	89 dB (2,83V/1m)



INSTALLATION DIAMETER

MOUNTING DEPTH

INSTALLATION Ø

EXTERNAL Ø



M - LINE	Tweeter		Woofer		Tweeter		Woofer		Tweeter		Woofer	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
MS 5.2	0.39/0.83	10/21	2.19	55,5	1.77	45	4.49	114	1.93	49	5.12	130
MS 6.2 + ACTIVE	0.39/0.83	10/21	2.50	63,5	1.77	45	5.61	142,5	1.93	49	6.54	166
MS 64.3	0.39/0.83	10/21	2.50	63,5	1.77	45	5.61	142,5	1.93	49	6.54	166
MS 64.3 ACTIVE		Midrange:	1.71	43,5		Midrange:	3.39	86		Midrange:	3.96	100,5
STATUS	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
ST 40 WS	0.39/0.83	10/21	-	-	1.77	45	-	-	1.93	49	-	-
SV 4009	0.39/0.83	10/21	1.81	45,5	1.77	45	3.39	86	1.93	49	3.96	100,5
SV 5009	0.39/0.83	10/21	2.40	61	1.77	45	4.49	114	1.93	49	5.12	130
SV 6509 + ACTIVE	0.39/0.83	10/21	2.50	63,5	1.77	45	5.61	142,5	1.93	49	6.54	166
SW 6509	-	-	2.50	63,5	-	-	5.61	142,5	-	-	6.54	166
E P I C	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
ET 20 WS	0.22/0.49	5,5/12,5	-	-	0.93	23,5	-	-	1.48	37,5	-	-
EV 4008	0.22/0.49	5,5/12,5	1.81	45,5	0.93	23,5	3.39	86	1.48	37,5	3.96	100,5
EV 5008	0.22/0.49	5,5/12,5	2.40	61	0.93	23,5	4.49	114	1.48	37,5	5.12	130
EV 6508 + ACTIVE	0.22/0.49	5,5/12,5	2.50	63,5	0.93	23,5	5.61	142,5	1.48	37,5	6.54	166
ES 84.3 + ACTIVE	0.22/0.49	5,5/12,5	3.23	82	0.93	23,5	7.24	184	1.48	37,5	8.19	208
		Midrange:	1.08	28,5		Midrange:	3.39	86		Midrange:	3.96	100,5
EV 6808	0.22/0.49	5,5/12,5	2.52	64	0.93	23,5	6" x 8" oval *	-	1.48	37,5	-	-
EV 6908	0.22/0.49	5,5/12,5	3.25	83	0.93	23,5	6" x 9" oval **	-	1.48	37,5	-	-
ES 8009	0.22/0.49	5,5/12,5	3.23	82	0.93	23,5	7.24	184	1.48	37,5	8.19	208
EFS 4.2	0.28/0.73	7/18,5	1.08	28,5	1.46	37	3.39	86	1.77	44,5	3.96	100,5
EFS 5008	0.28/0.73	7/18,5	1.66	42,25	1.46	37	4.49	114	1.77	44,5	5.12	130
EFS 6508	0.28/0.73	7/18,5	1.78	45,25	1.46	37	5.61	142,5	1.77	44,5	6.54	166
C O N C E P T	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
CS 4008	0.3/0.7	7,5/18	1.71	43,5	1.22	31	3.39	86	1.57	40	3.96	100,5
CS 5008	0.3/0.7	7,5/18	2.32	59	1.22	31	4.49	114	1.57	40	5.12	130
CS 5008 IV 2 Ohm												
CS 6508	0.3/0.7	7,5/18	2.42	61,5	1.22	31	5.61	142,5	1.57	40	6.54	166
CS 6508 IV												
CS 6508 IV 2 Ohm												
CS 654010	0.3/0.7	7,5/18	2.42	61,5	1.22	31	5.61	142,5	1.57	40	6.54	166
		Midrange:	1.71	43,5		Midrange:	3.39	86		Midrange:	3.96	100,5
CC 4008	-	-	1.71	43,5	-	-	3.39	86	-	-	3.96	100,5
CC 5008	-	-	2.32	59	-	-	4.49	114	-	-	5.12	130
CC 5008 IV 2 Ohm												
CC 6508	-	-	2.42	61,5	-	-	5.61	142,5	-	-	6.54	166
CC 6508 IV 2 Ohm												
CC 6808	-	-	2.28	58	-	-	6" x 8" oval *	-	-	-	-	-
CC 6908	-	-	3.09	78,5	-	-	6" x 9" oval **	-	-	-	-	-
A L P H A	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
AS 6511	0.31/0.63	8/16	2.6	67	1.22	31	5.6	143	1.59	40,5	6.54	166
AC 6511	-	-	2.6	67	-	-	5.6	143	-	-	6.54	166
SUBWOOFER	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
SWF 8012 HE	-	-	2.28	58	-	-	7.2	183	-	-	8.23	209
SW 8010 HE	-	-	3.23	82	-	-	7.24	184	-	-	8.19	208
SW 8009	-	-	3.23	82	-	-	7.24	184	-	-	8.19	208
SW 10009	-	-	4.61	117	-	-	8.94	227	-	-	10.71	272
F A H R Z E U G S P E Z I F I S C H	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
MB 4.2 FR + ACTIVE	0.3/0.7	7,5/18	1.08	28,5	1.22	31	3.39	86	1.57	40	3.96	100,5
M A R I N A - R	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
MRC 6508	-	-	2.50	63,5	-	-	5.79	147	-	-	6.73	171
MRC 6908	-	-	3.25	83	-	-	5.9x8.7	150x220	-	-	6.71x9.56	170,5x243
MRW 10008	-	-	4.61	117	-	-	8.94	227	-	-	10.71	272
MRC 10008 D	-	-	4.61	117	-	-	8.94	227	-	-	10.71	272

*Especially for original installation slots. **External diameter! Installation diameters you will find on installation template.

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