

PHILOSOPHY

never again rectangular forms

GDS has the goal to develop innovative products standing out from the mass in every point.

The use of new, extraordinary materials, technologies and a unique design forms a perfect symbiosis in our speakers.

The rating "Made in Germany" stands for the highest possible standards, and applies to all GDS products; everything - from the development over the design to the production is exclusively made in Germany.

Our speakers are manufactured not on the assembly line but accurately by hand and in little series. Thus you have confidence that you are purchasing an absolute top quality product from us.

THE R-01

The unique R-01 concept sets new standards in the field of product design and sound authenticity. What distinguishes our speakers is the extraordinary cabinet form based on the idea that "form follows function".

Stagnant waves are avoided right from the beginning because of the construction.

The form of the front panel avoids undesirable reflections which would considerably strain the music enjoyment as it is the case with ordinary speakers. Additionally, the front panel is tilted backwards in an 85° angle to balance the delay differences of the single chassis.

The carrier matrix in the interior creates a high stability by its rib form.

The principle of the bridge arch construction is used here and gives the side walls an enormous stiffness.

The result is that undesirable cabinet resonance is effectively avoided.

By the use of a passive radiator the sound, which is radiated backwards from the bass-midrange, is efficiently used. This measure enables us to reach a very precise bass response and a high efficiency of our speakers whereby the potential of the R-01 already develops at low amplifier performances of about 45 Watt and 8 Ohm.

The stand filled with sand or lead grit also has the function of a pass-through for the cable. The advantage is that no connection disturbs the stylistic optic.

TWEETER

The excellent ceramic membrane unites the advantages of velvet and metal dome tweeters.

The lightness of the material and its enormous hardness creates a very fine sound without the usual hard character of a metal membrane and its distortion behaviour during the frequency rise. In the field of high tones ceramic as membrane material is far superior to usual materials with its acoustic quality.

Thus the 25mm ceramic dome tweeter plays easily over 25kHz wherefore our speakers are also suited for high-resolution music formats and the use in the home cinema.

For a stable stage line the tweeter is placed as closely as possible to the midrange.

Thereupon, especially with voices the speaker sounds very homogenous.

BASS-MIDRANGE

Like the cabinet this 7" bass-midrange is made of composite materials.

The Hexacone sandwich membrane creates a very precise bass reproduction by its extremely stiff and especially light honeycombed sandwich material.

Because of the big linear stroke we reach a high capacity and the best dynamic behaviour is achieved. Moreover, this effect is supported by the phase plug. With its side openings it cools the extremely big voice coil

and its extremely light Kapton carrier.

PASSIVE RADIATOR

Despite the higher costs we favoured the use of a passive radiator since the negative characteristics of a bass reflex tube would inevitably lead to compromises.

Similar to a bass reflex channel this passive 8.5" speaker uses the rear sound of the active speaker and converts it into direct sound.

Thus the effectiveness of the speaker is increased.

The advantages of the passive radiator lie in the better adjustment to the respective bass-midrange and the cabinet. Stream sounds at borders and reverberations by air movements as well as the escape of high frequency shares through the bass reflex opening are avoided.

CABINET

The new cabinet structure of fibre composites in the field of hi-fi enables us to manufacture absolutely sound-oriented loudspeaker forms.

Our "compotech design" is designed first and foremost to genuinely reproduce the music signal. The stream-lined cabinet form efficiently suppresses reflections. The sound-waves in the interior are broken again and again by the vaulted cabinet walls and resonance is reduced to a minimum.

Thanks to the acoustically optimised speaker front sound-wall reflections are not a disruptive factor any more.

CROSSOVER

The speaker chassis we use are chosen according to highest quality criteria and parameters coordinated with each other. Thus a harmonic interaction of the used components is guaranteed. The crossover should correct as little as possible but as much as necessary. This concept allows us to equip the crossover with high-quality, long-living components. The complete crossover is covered with synthetic resin to reduce microphone effects to a minimum.

SPECIFICATIONS

power handling:

80 Watt/8 Ohm

nominal impedance:

8 Ohm

frequency response:

30 – 25.000 Hz

middle sensitivity (2.83/1m):

84 dB

recommended amplifier power:

> 45 Watt/8 Ohm

cabinet:

"compotech design" of fibre composites

net weight:

20 kg

dimensions in cm (h/w/l):

99x33x50

Feel free to contact us!

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