



**GENETIC-FOSS**

*the purity of sound*



EMMA  
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2014



**GENETIC FOSS HILLTEC**



## ZR 12 M

ZR 12M is a magnificent High-End Hand-Crafted midrange driver. It offers a special design combined with the perfectly tonally balanced sound-stage from the mid-bass to the mid-high range (80 – 8000 Hz).

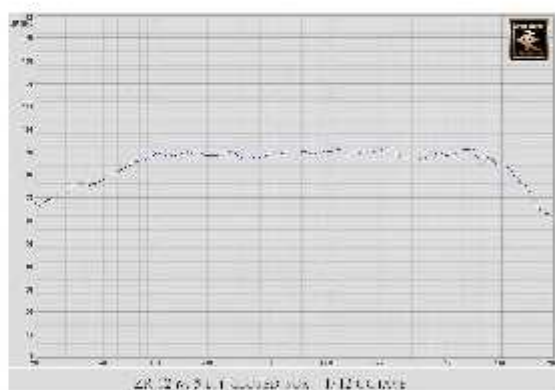
More photos: The light paper cone and precise 25 mm voice-coil (Mms only 4.7g) in the powerful magnetic field together produce a sound of the vocalist as he or she would be right in front of you singing. It transforms your living-room into a concert-hall with your sofa as the best seat.

The sound of the acoustic guitar can be heard as it was a real guitar. You can hear how the sound of the string expands in the room and lasts from its creation until the end of the note with full dynamic (qui-er-loud-quiet-). The experience when listening to this speaker is beyond words, because you become aware of all the things you have never heard before. The width and depth of the sound-stage are like the "hologram". Not that you can only hear it, but if you close your eyes you can also see and feel it.



### ZR 12 M – TECHNICAL SPECIFICATIONS

voice-coil diameter:	25 mm
impedance:	16 Ω
Res:	6.5 Ω
Ind:	23 μH
Qms:	0.7
Qms1:	5.07
Qms2:	0.1
Diameter:	82 mm
YMS:	0.5
BL:	4.5 Tls
Cone:	1.37 mm
Le:	9.2 cm
Misc:	Alu
Sensitivity:	91.0dB @ 1W/1m
Power:	120 W(RMS)
Recommended frequency:	80 – 8000 Hz
Outer diameter:	120 mm
mounting diameter:	110 mm
Mounting depth:	50 mm





## ZR 18 DD

ZR 18 DD is a state-of-the-art Hand-Crafted, direct-drive mid-woofer. It is probably the best known speaker from ZR Speaker Lab since 2004, when it was introduced for the first time. Direct drive without crossover enables the speaker to operate without phase-shifts, and with maximum dynamic combined with the live sound-stage.

**Mure photos** All components of the speaker are chosen to be in tune with each other, giving the sound that is impossible to get with any other speaker. The main components are light-weight cone, resonance free basket, optimum power of the motor, quick and precise voice-coil and specially chosen spider. It effortlessly follows the amplitudes of the amplifier, which results in transparent sound with extraordinary dynamic in full range of the speaker.

Paper has been used for decades as the best material for the cones. It has that special, natural sound that the new materials just cannot produce. Immense research has been invested into maintaining the sound of the "old school" paper cone, while simultaneously eliminating all of its weaknesses such as parasitic resonances etc. To achieve this, the cone is impregnated with two different mineral coatings, specially developed by ZR Speaker Lab just for this speaker. This gives the soul to the speaker and the sound that no other speaker on the market can match.

The voice of the vocalist can be heard in front of you naturally and purely. You can easily hear how the singer breaths, and from the details of his or her voice you can feel what he or she feels. All instruments sounds completely natural and the richness of the sound is sensational. Time delay of the concert hall slowly expands in your room, transforming it into a concert hall. It is the sound that you will adore and just want more of it.

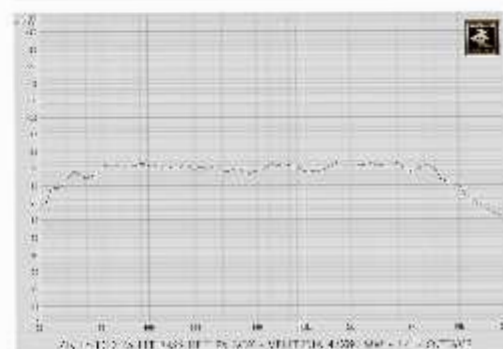
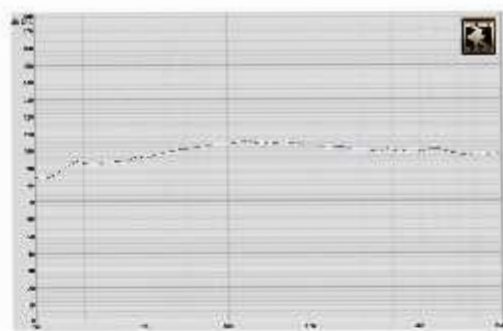
*"... The music almost "jumps at you" when playing these speakers... It is unbelievable how natural it sounds..."*

Car&HiFi magazine



### ZR 18 DD - TECHNICAL SPECIFICATIONS

Nominal Diameter:	180mm
Max:	225mm
Fx:	45mm
Qms:	0.25
Qms:	1.4
Qms:	0.1
Resistance:	1.5 Ohm
Max:	400W
B.1:	0.115m
Qms:	0.000000
Le:	0.14m
Qms:	1.000
Sensitivity:	92.5 dB(2.83V/1m)
Power:	150-900W
Recommended frequency:	50-5000 Hz
Impedance:	1.5 Ohm
Mounting diameter:	130 mm (5.1")
Mounting depth:	70mm







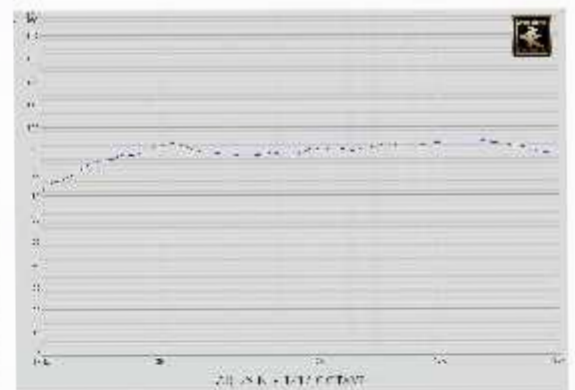
## ZR 25 N

ZR 25N is an impressive High-End Hand-Crafted dome tweeter with natural-silk cone. The base of this tweeter is ZR 25 C, but it uses neodymium magnet.

More photos In a flood of hissing neodymium tweeters it is very hard to find the tweeter which would have High-End characteristics combined with a great sound. This was our primary concern. The cone is impregnated with specially developed mineral coating. This reduces the parasitic resonances of the cone and sharpens the sound-stage. In combination with the specially modified copper-ring, the distortions are drastically reduced. This effect can be especially noticed at higher volumes of amplitudes. To achieve the warm mid-section of the sound-spectrum, the modified "Helmholtz" resonator (by ZR Speaker Lab) is used in combination with the special damping of the housing. The housing of the speaker is made of Inox-Stabilite (or Aluminum-Stabilite). In this way, resonance-free housing is achieved. The protective grille of the speaker is anti-magnetic, so it does not interfere with magnetic field of the magnetic motor. This helps with the linearity of the speaker. The silk cone also contributes to warm, rich and natural sound with amazing dynamic and transients. This allows you to hear the cymbals of the drums like cymbals, not just the hissing sound "sssss", like with most neodymium tweeters. With ZR 25N you can hear and almost feel how the drummer hits the cymbal with the stick. You can hear how the sound spreads in the room, filling it with passion that he feels about his instrument.

### ZR 25 N - TECHNICAL SPECIFICATIONS

Driver unit diameter:	25 mm
mounting:	4-Ø4H
Box:	Ø11.0xH
W:	11.0
Outer diameter:	25 mm
sensitivity:	91.8 dB / 1 W / 1 m
Power:	300 W RMS (2x 150 W)
Recommended frequency:	750 Hz
Mounting diameter:	41 mm (Ø32.0 - 44 mm (Ø40.0))
Mounting depth:	35 mm





## ZR Entry 25 T

ZR Entry 25 T is an entry-level Hand-Crafted tweeter with the sound-stage of a High-End speaker. It was specially designed to be very simple to use.

More photos It is ideal for people who don't have a lot of knowledge about the electro-acoustic field, because it has a great sound regardless of the configuration of the system.

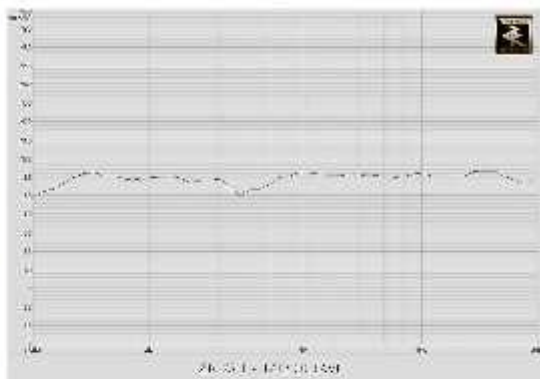
The speaker is made entirely by hand, which gives it a special feeling that mass-produced speakers just don't have. Besides its great design and feeling in hand, the speaker has an excellent sound. It has a typical, rich ZR-sound with a lot of details.

Its resonance-free housing is made from the combination of aluminum and stabilit. This gives the tweeter transparent sound-stage with minimum distortions. The cone is made from silk and was specially developed by ZR Speaker Lab just for this tweeter. This gives the speaker very accurate transmission of the transients and the sound-stage that is natural and so unique for the silk cones.

It is a perfect match in combination with ZR Entry 17MW. Both speakers work together in harmony, and give the impression that only one speaker is playing. The quality of the sound that ZR Entry 25 T produces simply cannot be matched by any other speaker in this price-range.

### ZR ENTRY 25 T - TECHNICAL SPECIFICATIONS

Wire coil diameter:	45 mm
Impedance:	4 Ohm
Res:	1.2 Ohm
DC:	100 Hz
Cone diameter:	25 mm
Sensitivity:	100 dB / 1 W / 1 m
Power:	40 W RMS
Recommended frequency:	4.20 kHz
Mounting diameter:	44 mm
Mounting depth:	27 mm



ZR-25-T-17-10-150





## ZR Planar 12

ZR Planar 12 is a first driver from our new future line of ultra-slim drivers from ZR Speaker Lab. It is High-End Hand-Crafted driver made with highest precision and cutting-edge materials. The main idea was to create the driver that would preserve the classical ZR sound while the thickness would be drastically reduced. The mounting thickness of ZR Planar 12 is only 25 mm (29 mm with included screw heads). It is also very light, weighing only 215g with the included grill. One of the main concerns was also how to offer it at reasonable price for the driver in this range. This would be ideal for car-audio where the mounting height is usually very scarce commodity. Also, the Vas is only 3L.

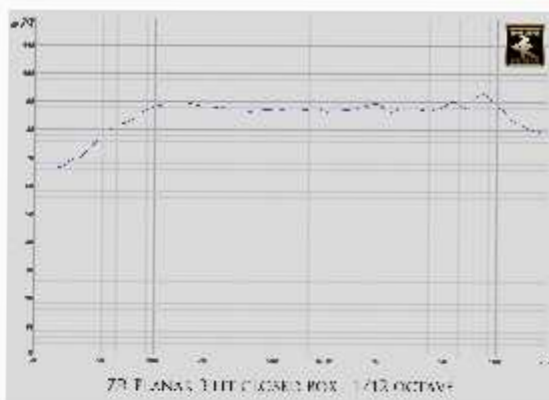
But the driver has many other applications because of the quality of its sound. It is ideal for the use in the near-field studio monitors. The sound is very natural, without any phase shifts. The frequency range is very wide for this kind of driver. The main concern when building this driver was the sound of the human vocal. It is very warm and rich. All the details can be easily heard.

One of the main advantages of this driver is a newly developed «linear drive» magnetic motor. It uses six neodymium magnets arranged in a special way, to achieve the most linear magnetic field in the direction of the voice coil movement. The magnetic motor also acts like a phase-plug at the same time, giving ZR Planar 12 very wide listening angle.

Many other special parts are used which include: resonance-free stabiliz-aluminum hasket, special cone coating for the paper cone, hard-wound voice coil, long-life high quality spider, and many other special parts.

### ZR PLANAR 12 - TECHNICAL SPECIFICATIONS

Res:	2.5 OHM
Fc:	45 Hz
Qms:	1.50
Qmsc:	1.05
Qmsd:	1.54
Fs:	12.7 kHz
Blms:	4.20
Bl:	1.75 Tm
Cms:	0.00016
Spl:	110 dBS @ 1W
Weight:	215g (29mm with included screw)
Outer diameter:	90 mm
Mounting diameter:	60 mm
Mounting height:	25mm (29mm with included screw heads)





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