

## BD15 bass driver

This 15" bass driver, which is exclusive to BD-Design, features a compact, powerful neodymium magnet system which provides exceptional energy levels and reduces the total loudspeaker mass. This results in super high efficiency, low distortion, excellent linearity, and extended bandwidth.



It is not easy to find truly great bass drivers which both deliver clean, controlled, dynamic and deep bass and can be effectively combined with our ORIS front horns. We searched for commercially available bass drivers that could meet this requirement for a long time, but most were either not technically suitable or are too expensive. Finally we decided to develop our own driver. After many trials and errors we managed to create a superb high-sensitivity bass driver that can be blended perfectly within our speaker systems. This driver is custom made to our own high standards and manufactured for a very reasonable price.



Some specific elements responsible for the performance of this fine sounding bass driver are:

- Light weight and high strength and, most importantly, a good sounding cast aluminium basket.
- Light and very rigid custom made paper diaphragm.
- A diaphragm able to resist air pressure and therefore capable of actually delivering bass.
- Spiders and surrounds specified for both good sound and very long life.

- Flat wired, light weight, extremely short and underhung voice coil.
- Small but very strong "double" Neodymium magnet with a 14mm(!) thick pole plate.
- Nearly 100dB sensitivity with 16 ohm impedance (enabling almost 103dB sensitivity at 8ohm when used in parallel).
- Linear (+/- 1dB) and clean response up to 5kHz (-3dB) or 900Hz (off-axis without noticeable break up problems).
- Very light total weight saves on shipping costs

These reference quality bass drivers were designed for use in our own systems, but are also highly suitable for use in peoples' own DIY designs - something we really encourage (we don't want to keep these to ourselves!). With the help of the Thiele-Small parameters below you could design your own bass systems.

**Technical data:** Fs - 38.9 Hz, Re - 13.6 ohm, Mms - 66 gr., BL - 28.5, Qts - 0.25, Qes - 0.26, Qms - 5.12, Vas - 258.2 liter, Vd - 513 dm<sup>3</sup>, Rms - 3.16, Sd - 855 cm<sup>2</sup>, Coil height - 7mm, Air Gap height - 14mm, Sensitivity - 99.6dB, Power - 150Watt, Overall diameter - 388 mm

If you need more information feel free to contact [Bert Doppenberg](http://www.bd-design.nl/) (<http://www.bd-design.nl/>) or use our [Forum](http://www.bd-design.nl/forum/forum.php) (<http://www.bd-design.nl/forum/forum.php>) for support.