

15SW1300Nd Pre-release Information Frankfurt 2009

The SW1600Nd family with HELICEX® technology

The SW1600Nd family is a new generation of high power neodymium transducers that has been created for covering the most exigent professional applications. The core of the family lies in the HELICEX® cooling system, a patented technology that allows these units to reach uncommon levels of power handling by a single loudspeaker up to date.

The first product where we applied this technology has been the 18SW1600Nd, a 18" subwoofer able to handle 1600 W AES with incredibly low power compression losses rates and a powerful and accurate low frequency response.

Now we are working to introduce in short a complete family sharing the same philosophy, features and performance in order to give a wider offer to the different application needs from the market.

15SW1300Nd

Below can be found some of the main features of our new 15" subwoofer:

- HELICEX® cooling system for a high efficiency thermal dissipation and, therefore, superior power handling capacity and lower power compression losses.
- Exclusive Beyma *NCR Membrane (Neck Coupling Reinforcement)*, especially designed to handle the high mechanical efforts that are applied to the mobile assembly at very high power levels.
- CONEX spider which preserves the mechanical and physical properties of this component, even in the most extreme power conditions.
- Die Cast Aluminium spider ring; a strong base against the high tensions coming from the spider, allowing also a better heat dissipation of the overall mechanical assembly.
- 4" DUO inner/outer voice coil winding; ready to work in the most demanding mechanical conditions with high stability in big displacements and with an optimized thermal dissipation thanks to the HELICEX® technology.
- Spider and surround suspension designed as a whole (exclusive *MMSS technology*) for a symmetric and highly linear behaviour of the mobile assembly in long excursions, resulting in a low harmonic distortion level.



Following the philosophy of its family, the new 15SW1300Nd is a 15" subwoofer with an extraordinary power handling capacity (1300 W AES) thanks to the HELICEX® technology. In this way, thanks to the use and application of the previous materials and tools, which is the result of our continuous research in the acoustic transducers field, this new model has been designed for withstanding the extreme efforts it will handle, in both thermal and mechanical terms, while offering a liable and accurate performance during the whole loudspeaker useful life.

15SW1300Nd Preliminary characteristics:

- **HELICEX®** cooling technology
- **1300W AES** power handling capacity
- High sensitivity: **97 dB @ 2.83V**
- Low Resonant frequency: **44 Hz.**
- Extended controlled displacement: **Xmax ± 10 mm.**
- Massive mechanical displacement capability: **Xpp 60 mm.**
- Exclusive **NCR Membrane** (Neck Coupling Reinforcement)
- **CONEX** spider.
- Designed with **MMSS technology** (Mechanical Mirror Suspension System)
- 4" **DUO** double inner/outer voice coil winding
- Die Cast Aluminium spider ring