

18SW1600Nd with HELICEX® patented technology



Our new 18" subwoofer has been carefully planned, designed and manufactured in order to provide a performance beyond any current product in the market.

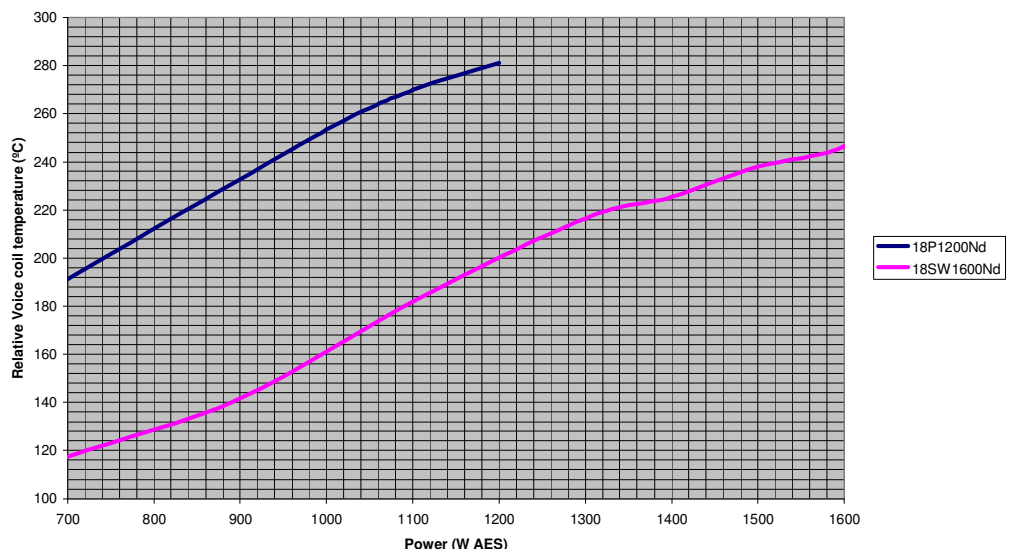
Thanks to our HELICEX® patented cooling technology, which is the result of our intense research in the diverse aspects and components of the acoustic transducers, today we are able to introduce a new generation of high power loudspeakers with a superior power handling capacity (1600 W AES) and lower rates of power compression losses compared to any available loudspeaker with similar characteristics.

The target: the new 18SW1600Nd must offer an accurate and forceful response with higher and more constant SPL during all the working life of the speaker.

Following these premises, every component and material have been strictly selected and tested in the development process in order to reach a technologically more advanced product.

- HELICEX® cooling system for a high efficiency thermal dissipation and, therefore, superior power handling capacity and lower power compression losses.

18SW1600Nd Vs 18P1200Nd

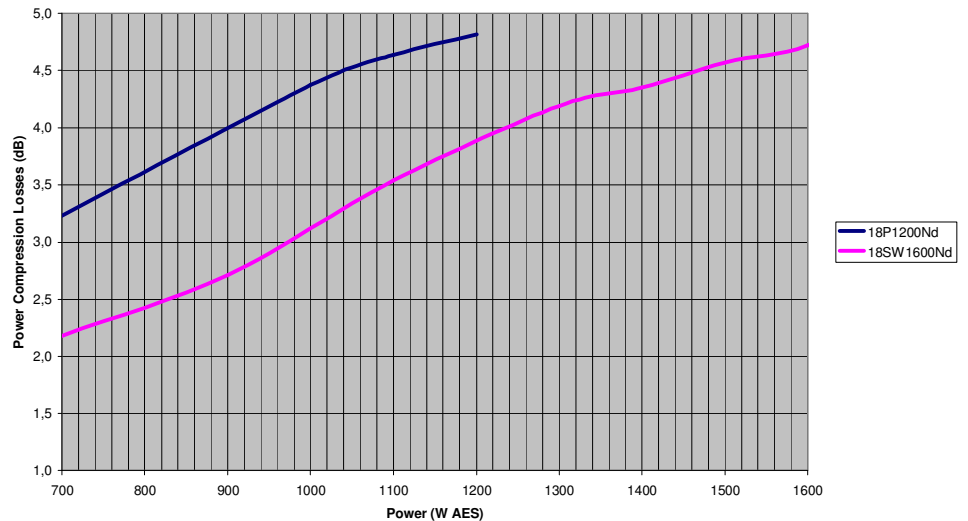


In the graphic is shown the temperature curve of the 18SW1600Nd voice coil compared with our 18P1200Nd. It clearly shows the high efficiency of the HELICEX® cooling system versus the highly efficient P1200Nd cooling system. The extended power handling capacity up to 1600 W AES can be appreciated as well.

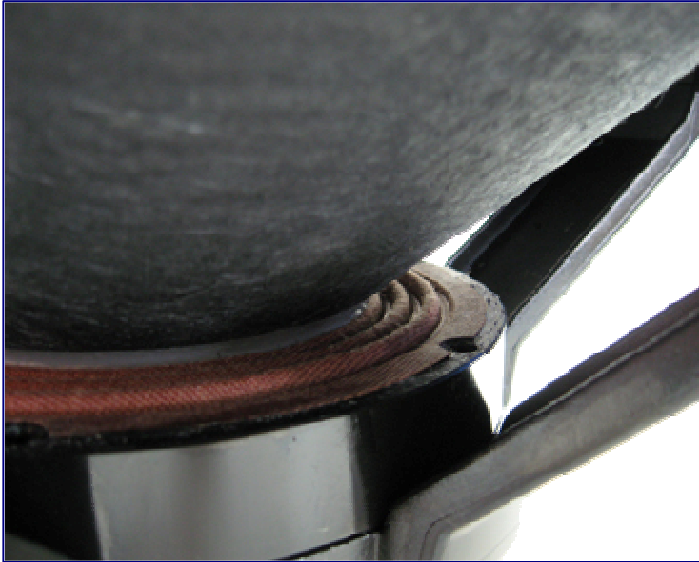


18SW1600Nd Vs 18P1200Nd

The graph shows the power compression losses comparison between the new model and our 18P1200Nd. In practically the whole power range, the difference is higher than 1 dB, reaching 1600 W AES with less than 5 dB of losses. This is a rate which is below to other models in the market even for lower power capacities.



- 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.

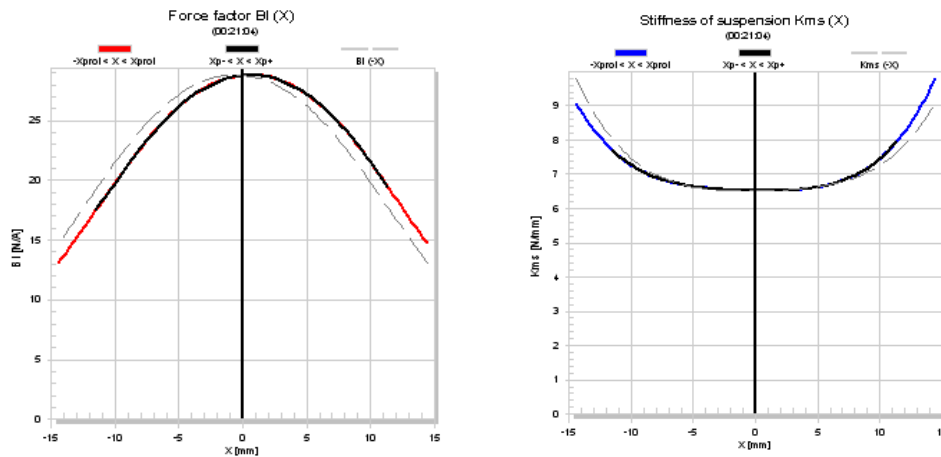


- Die Cast Aluminium spider ring; a strong base against the high tensions coming from the spider, allowing also a better heat dissipation of the overall mechanical assembly.
- CONEX spider which preserves the mechanical and physical properties of this component, even in the most extreme power conditions. After 2 hours AES test the shape of the spider remains the same and the Fs of the driver does not change.
- 5" 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.



PROFESSIONAL LOUDSPEAKERS

- 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.



The graphics shows the behaviour of the force factor (BL) and the stiffness of the suspension system (Kms) at long excursions. The new 18SW1600Nd offers a high symmetry and linearity with long displacements in both senses of the rest position (beyond $\pm 10\text{mm}$), which allows a low harmonic distortion and an excellent sound response.

The balance between motor structure and moving assembly delivers a consistent, controlled and forceful bass response in the highest power applications.



18SW1600Nd Main characteristics:

- **HELICEX®** cooling technology
- **1600W AES** power handling capacity
- High sensitivity: **97 dB @ 2.83V**
- Low Resonant frequency: **32 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)
- 5" **DUO** double inner/outer voice coil winding
- Die Cast Aluminium spider ring

