



BS Series

Hight Power Subwoofer System
高效能超低頻系統

澎湃功力 收放自如
Powerful, Smoothly



BS系列超低頻揚聲器最主要是用來進一步增強揚聲器系統低頻響應和提供強烈震撼的低頻衝擊力。BS系列超低頻揚聲器都是依據其它系列的全頻揚聲器系統來設計懸挂和連接系統。所有的BS系列背後都加裝了腳輪安裝孔，方便、快速地組成陣列或周邊擺放，部分型號的音箱前面裝有運輸輪板連接扣，頂部裝置鋁合金壓鑄支撐底座。

BS series subwoofer mainly uses for improving low frequency response of loudspeaker system and providing intense stocked LF impact force. The suspension and connection system of BS series is designed depending on other full range loudspeaker system. Trundle installation holes are on the back side of enclosure for convenience and fast form into array system, some models have wheel plate connection buckle in front side and aluminum alloy supporting base on top.



Enclosure Design 箱體設計

為了不斷追求完美，博聲音響在板材和表面處理方面不遺餘力地提高要求標準。BS系列音箱採用優質的全樺木多層膠合板建造，符合聲學設計要求特別定制的樺木膠合板令到BS系列音箱堅固結實的同時具有良好的聲學特性。為了確保產品的一致性和不易被模仿，博聲音響擴棄了傳統的木箱內部厚重的加強和材料，獨特的一體化音箱組裝技術，採用了榫槽結構、冷粘接、高壓定位等技術和工具建造箱體。箱體被優化得更輕、更牢固。表面用環保耐磨的塗料處理。部分高端的產品更是採用極度耐用的彈性防水材質塗層保護，高度耐刮，適用於任何苛刻的環境。

To achieve perfection, BOB spares no effort to improve the standard of sheet material and surface precision. BS series is made of high quality multi-layer birch plywood, this kind of birch plywood is specially made to meet acoustical design that leading the enclosure solid and good acoustical character. For consistency and preventing form copy, BOB refused to put the traditional reinforcement material into the cabinet instead of using its special integrated enclosure installation technology such as mortise structure, cold bonding and high pressure positioning etc. to bond the cabinet firmly. It becomes lighter and solidier, and the surface is coated by environmental wear resistant painting. Some high-end model is protected by the extremely durable elastic waterproof material coating, highly anti-scratching and hitting, can be applicable to any harsh environment.



Unapproachable Process Detail 無可匹敵的工藝細節

音箱兩側設有符合人體工程學的把手，方便運輸，頂部裝有1個鋁合金壓鑄支撐底座。用於支架安裝，連接其它型號音箱。背後和前面各裝有輪板鎖扣和16枚M8滑輪螺絲。

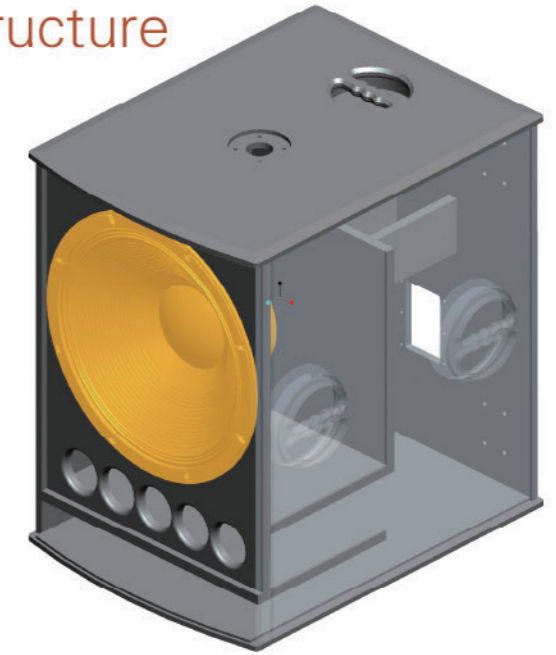
There are ergonomic handles on both sides of the enclosure that ease to delivery, one aluminum alloy die-casting supporting base on top for supporting installation and connecting with other models, wheel plate buckle and 16pcs M8 pulley screw are installed on front side and back side.



Bass Reflex Double Cavities Structure 倒相式雙腔體結構

BS的單驅動單元超低頻揚聲器同樣採用了帶通式的設計原理，最大的特點是用普通的直射傳輸模式在驅動單元背後裝有兩個諧振腔。這種結構既有直射式的精準聲音傳輸。又有深沉的低頻，高品質的頻寬和瞬態響應。所有的型號都裝有高品質的驅動單元，再現清晰而且功率強大的低頻頻率。

BS subwoofer with single driving unit is also bandpass designed, the most important is to install two resonate cavity on the back side of driving unit by normal direct transmission mode. This structure has both advantages of direct output's accurate sound transmission and heavy low frequency with good quality bandwidth and transient response. All models have high quality driving unit to show clear and powerful low frequency sound.



Three Cavities Band Pass Cabinet 三腔帶通箱體結構

家多的複雜細節設計是BS系列質量的保證。得益于博聲音響高超的箱體制作工藝，BS系列所有的雙單元超低頻音箱都採用了三腔帶通箱體結構，每個低頻驅動器都有獨立的腔體，兩個紙盆共同作用于前方開啓的第三腔體。由此大幅提升整個系統功效。高空氣阻力避免了振膜的極端運動，與傳統的前載式低頻揚聲器相比，這種技術可以大幅度減少失真。設計獨特的箱體結構掌控着超強的低頻動力，真正擁有強勁的功率儲備。結合新一代徑向磁路設計的低頻驅動器確保短時間達到10KW高負荷產生的壓縮效應，再現超低頻至140dB。

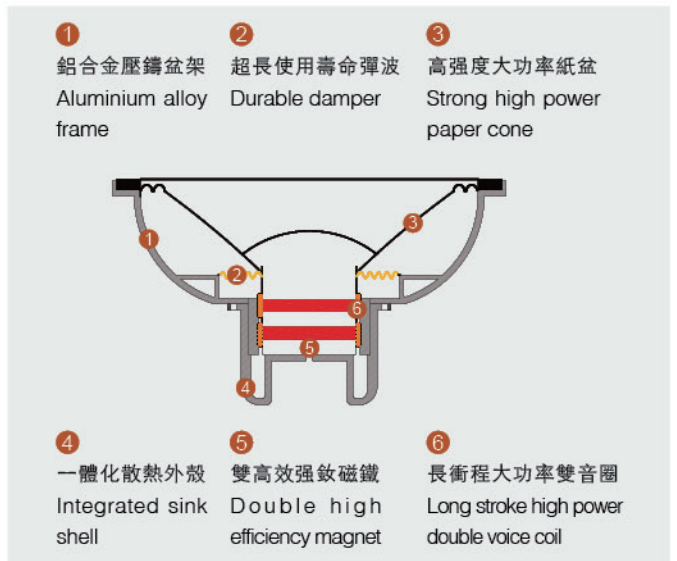
Various of detailed design guarantees the quality of BS series. Benefit by BOB's lofty enclosure making technique, all double units subwoofer of BS series uses 3-room bandpass enclosure structure, so the efficiency of whole system is highly improved. High air resistance avoids extreme sport of diagram, comparing traditional front-load LF unit, this technology can significantly reduce distortion. Special designed enclosure structure controls super low frequency power and has powerful power reserve. Combining with the new generation radial magnetic path LF driving unit to make sure that reaching 10KW high-load compressibility effect in a short time, the extra-low frequency can be 140dB.



Driving Units 驅動單元

高端型號的BS系列低頻驅動單元採用了先進的徑向磁路設計，用專門設計的扁平銅線繞制而成的4寸低頻驅動單元，音圈是特別的上下雙音圈結構，這種最新設計可獲得更大的功率處理能力，提供最高的瞬態響應和功率容量，降低了失真和減少了功率壓縮，雙釹磁鐵和雙音圈使得散熱面積增大減低燒毀音圈的機會。

High-end models of BS series have an advanced radial magnetic path design. The 4" LF driving unit is a special up and down double coils structure that surrounded by designed flat cooper wire. This design can lead a bigger power processing ability, improve the highest transient response and power capacity, and reduce distortion and power compression. Double neodymium and double coils enlarge the radiating surface for prevent the coil from burning down.



為了能夠讓喇叭在出廠後得到正常而長的使用壽命，在博聲音響的老化實驗裏所有的喇叭單元都經過功率限額的測試，粉紅噪音信號會使得驅動單元產生發熱和最大限度的機械振幅。在48個小時不間斷的老化試驗裏尋找實際使用中可能會出現的問題。

To make the driver durable, all the driver will be tested in aging test room, pink noise signal will make the driver hot and generate biggest amplitude. Tested in 48 hours, try to find out the potential issue in normal use.



Transportation And Protection 運輸裝置與保護

所有的BS系列都可以提供給客戶多種運輸方式選擇，適合大型運送的運輸滑板既方便又安全，減少儲存空間，同時亦是音箱的保護面板。傳統的航空箱包裝有效保護音箱整體，適合作一些長途運送。防水防塵耐用的尼龍外罩適合短時間的倉庫堆放和簡單運送。

BS series provides optional transportation ways. Transportation wheel board is suitable for big quantity's delivery. It is convenience and safe, less space and already the shell to protect the enclosure. Traditional flight case protects the whole enclosure well for long distance transportation. Nylon cover is waterproof and dustproof that using for short time storage and simple delivery.

