

# WSXa

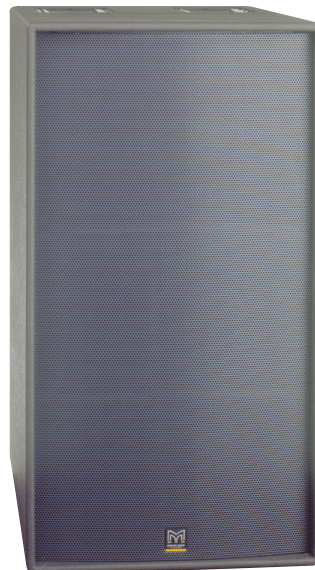
Hyperbolic folded bass horn

## features

- ▶ 7ft (2.1 metre) folded-horn subwoofer
- ▶ Maximum efficiency deep bass reproduction
- ▶ Mirror image stacking capability

## applications

- ▶ Bass ground stack for W8 and W8C
- ▶ Outdoor bass line source
- ▶ Contemporary dance music subwoofer



touring and theatre

The WSXa is a folded horn subwoofer which has been specifically designed to reproduce very deep bass frequencies with maximum efficiency, speed and impact. It is intended to be used with Martin Wavefront Series loudspeakers such as the W8 and W8C and also the W8 line array enclosures in the most demanding touring situations where extreme levels of bass are required. It is also ideal for reproducing the concentrated bass energy of contemporary dance music in club environments.

It features a powerful 1000 Watt, 18" (460mm) driver with magnet structure and suspensions specially engineered for very large linear excursion. The internal 'S' shaped folded horn - a Martin hallmark - is over 7 feet (2.1 metres) long and couples the driver to the airload by means of a modified hyperbolic expansion law. This results in an efficiency typically 5dB greater than ported direct radiator sub-bass systems and contributes to the exceptionally fast transient characteristic of the WSXa.

The WSXa is designed to be ground stacked and ultimate performance is achieved by close coupling a stack of four or more WSXa's mirror imaged on their sides to increase the combined horn mouth area. For large outdoor systems, stacking mirror imaged pairs up to six or more high will form a tall line source which will focus the bass into the audience yet retain good horizontal coverage.

The WSXa is constructed from multi-laminate birch ply and is fully equipped for touring with rear castors and bar handles.

Century Point, Halifax Road, Cressex Business Park,  
High Wycombe, Buckinghamshire HP12 3SL, England.  
Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669  
E-mail: [info@martin-audio.com](mailto:info@martin-audio.com)  
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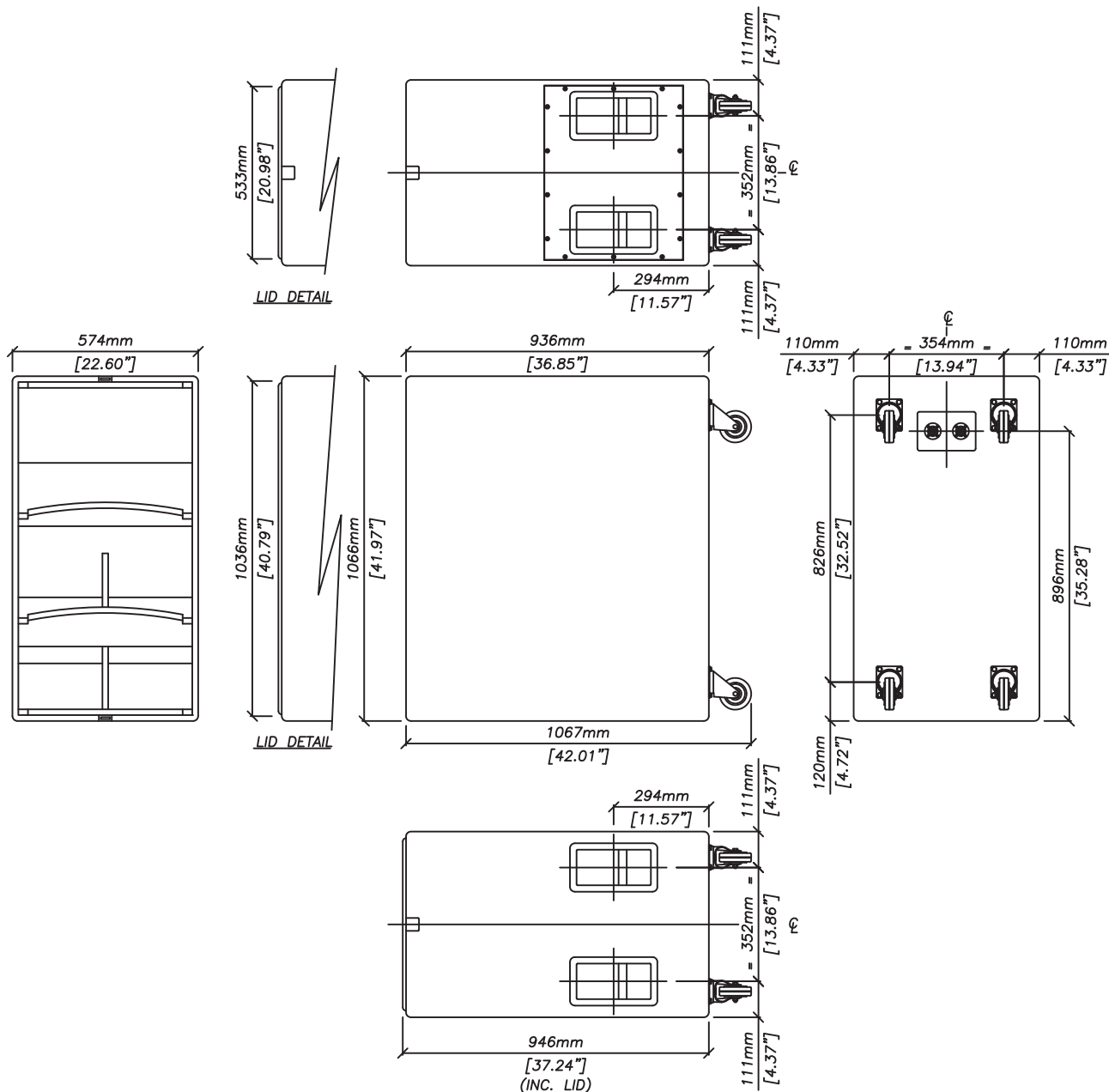


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overall dimensions

touring and theatre



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## technical specifications

TYPE	Hyperbolic folded bass horn
FREQUENCY RESPONSE (1)	35Hz-150Hz $\pm$ 3dB, -10dB @ 28Hz
DRIVERS	18" (460mm)/4" (100mm) voice coil, ultra-long excursion, water resistant cone
RATED POWER (2)	1000W AES, 4000 peak
RECOMMENDED AMPLIFIER	MA12K
SENSITIVITY (3)	105dB
MAXIMUM SPL (calculated @ 1m)	135dB continuous, 141dB peak (half space)
NOMINAL IMPEDANCE	8 ohms
CROSSOVER	150Hz or below via DX1.5 or DX2 controller
FINISH	Textured grey paint
PROTECTIVE GRILLE	Grey perforated steel
CONNECTORS	2 x Neutrik NL8
DIMENSIONS (inc. wheels)	(W) 572mm x (H) 1066mm x (D) 936mm (1067mm) (W) 22.5ins x (H) 42ins x (D) 36.9ins (42ins)
WEIGHT	95kg (209lbs)

## accessories

WSXLID	Lid and cabinet fittings
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## architectural and engineering specifications

The loudspeaker system shall be of the horn-loaded sub-bass type consisting of one 18" (460mm) long excursion low frequency transducer loaded with a hyperbolic horn flare folded in a plywood enclosure. The loudspeaker shall be operated with a separate electronic controller for dedicated sub-bass use.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 35Hz-150Hz  $\pm$  3dB.

Power handling shall be 1000W AES, 4000W peak.

Rated impedance shall be 8 ohms.

Maximum SPL measured at 1 metre on axis shall be 135dB continuous, 141dB peak.

Dimensions (W) 572mm x (H) 1066mm x (D) 1065mm (22.5ins x 42ins x 41.9ins).

Weight 95kg (209lbs).

The loudspeaker system shall be the Martin Audio WSXa.

## Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open ( $4\pi$ ) space at 2 metres, then referred to 1 metre.
- (6) Measured in open ( $4\pi$ ) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open ( $4\pi$ ) space at 2 metres using band limited pink noise, then referred to 1 metre.

## Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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