

## MA SERIES



- Coaxial technology
- Bi-amplified two way system
- Single point source
- Conical 90° waveguide
- Natural sound reproduction
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Suitable for medium-power FOH and side fill applications
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

## FEATURES

The Lotusline MA1590a loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA1590a is a active two-way loudspeaker . The low/mid section comprises a 15 inch bass driver loaded in a 4thorder MVC™ enclosure, The hi section includes a 1.4 inch High Frequency compression driver assembled in a coaxial configuration along with the full low section loudspeaker providing a conical opening.

Further advantages of the coaxial approach include: single point source radiation, total wavefront coherency at all frequencies and superimposed LF/HF dispersion characteristics that are free of polar lobbing effects typical of traditional horn and woofer combinations. The net result is natural, studio monitor level sound quality that is ideal for proximity use.

The MA1590a provides a very coherent acoustic field with 90° conical coverage.

The new MVC™, Multi Vent Convection technology, allows the Lotusline MA series to handle nominal full power capacity in any working position.

The enclosure comprises two angles side, 45° and 60° for stage monitor application and include two 35mm built in stand supports as well as four wood integrated handles and 5 cargo standard rigging points.

The Lotusline MA1590a apply full power handling with low thermal compression.

## APPLICATIONS

The Lotusline MA1590a is active two-way loudspeaker enclosure containing a HF driver assembled in a coaxial configuration along with a full range loudspeaker providing a conical opening. Medium power touring, installed PA for A/V, broadcast, high quality stage monitoring, etc. are the application field of MA1590a.

The great additional options for the MA1590a provide this speaker a simple and easy installation: one can put it on the floor, install it on a stand or fly it. Walls and ceilings are in its range of installation thanks to its optional lyre brackets and multiple standard fixing points.

As a main F.O.H the MA1590a is meant for vocal applications, stage monitoring or distributed sound.

For music requirement, a dedicated setup for digital optional processor is provided in order to optimise the speaker response.

Combined with Lotusline subwoofers, the MA1590a allows to create compact and powerful systems suitable for all indoor or outdoor configuration.

The MA1590a is also ideal for distributed sound reinforcement and can be used in medium power front-of-house (FOH) applications for theatres, clubs, multi-purpose venues or corporate events.

FEATURES	Low Section	High Section
Frequency range with processor ( $\pm 3\text{dB}$ )	55 Hz to 1100 Hz	1100 Hz to 18 kHz
Frequency range without processor ( $\pm 3\text{dB}$ )	65 Hz to 1100 Hz	1100 Hz to 18 kHz
Sensitivity@1W/1m, f>80Hz <sup>1</sup>	99 dB SPL	113 dB SPL
Maximum continuous level at 1m, f>80Hz <sup>2</sup>	126 dB SPL	132 dB SPL
Peak level at 1m, f>65Hz	132 dB SPL	140 dB SPL
Nominal directivity @ -6dB <sup>3</sup>	90° conical	
Nominal impedance	8 Ohms	16 Ohms

**COMPONENTS**

Transducers	1 x 15" weatherproof loudspeaker 1 x 1.4" HF drive coaxially mounted	
Coil diameter	75 mm	45 mm
Type of load	MVC™ Bass reflex	Conical Horn

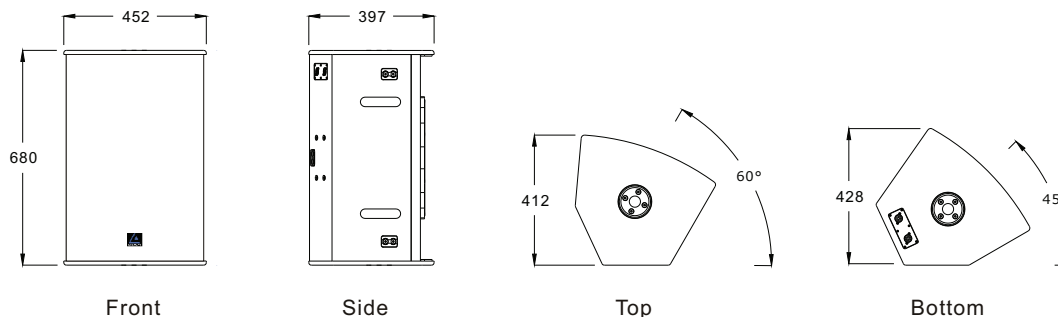
**POWER**

Recommended amps	400 to 800W into 8 Ohms	100 to 300W into 8 Ohms
Peak	2000W	450W
AES	500W	80W

**CONSTRUCTION AND CHARACTERISTICS**

Cabinet	18mm birch plywood with internal reinforcements
Crossover	The crossover point between low and high frequency components shall be 1.5 kHz with 24 dB per octave Linkwitz-Riley characteristics
Finish	Black, impact resistant structured and water paint coating
Protection grill	Acoustically transparent perforated steel, 1.8mm thick
Front face	Black, woven, heavy duty fabric
Connectors	4 x Neutrik Speakon NL4MP
Handles	4 wood integrated handles
Mounting on stand and bracket	2 x 35mm built in stand fitting
Rigging	4 inserts for Omnimount 60 series, 5 standard cargo points
Dimensions (H x W x D)	680 x 452 x 397 mm
Net unit weight	31.4 kg 69.2 lb
Gross weight, packed	34.4 kg 75.8 lb

**CAD Drawings**



1. Sensitivity is the average SPL measured over the component's rated bandwidth
2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the component's rated bandwidth
3. Directivity is averaged over the 600Hz-12 kHz range.
4. The SPEAKON cables are wired, LF-hot pin 1+, cold pin 1-. HF-hot pin 2+, cold pin 2-.

**LIMITED WARRANTY**

Lotusline loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of Lotusline, the defective item will be repaired/replaced with no charge for materials/labor. The item is to be adequately packaged and dispatched, pre-paid, to a Lotusline authorized distributor/service center. Unauthorized repair shall void the warranty. This Lotusline warranty does not cover cosmetics or finish and does not apply to any items which in Lotusline's opinion have failed due to user abuse, accidents, modifications or any type of misuse.



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