

## Mille ML 3000 1000 watt

# Subwoofer

### Technical Specifications

Component		Free Air Subwoofer
<b>Size</b>	mm	300 (12")
<b>Power Handling (Watt)</b>	peak continuous program	1000 500
<b>Impedance</b>	Ohm	4
<b>Frequency response</b>	Hz	30-250
<b>Sensitivity</b>	dB/SPL	95
<b>Outer diameter</b>	mm	315
<b>Mounting hole diameter</b>	mm	284
<b>Magnet size</b>	mm	185
<b>Total depth</b>	mm	137
<b>Mounting depth</b>	mm	125
<b>Total driver displacement</b>	lit	2,5
<b>Weight of one component</b>	kg	7,55
<b>Voice coil diameter</b>	mm	75
<b>Magnet</b>		High density ferrite
<b>Cone</b>		Water-repellent, non-pressed paper cone

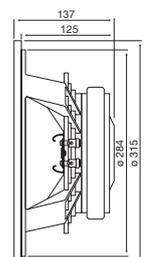
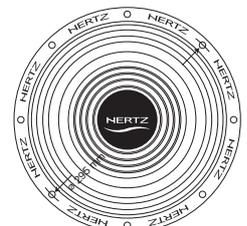
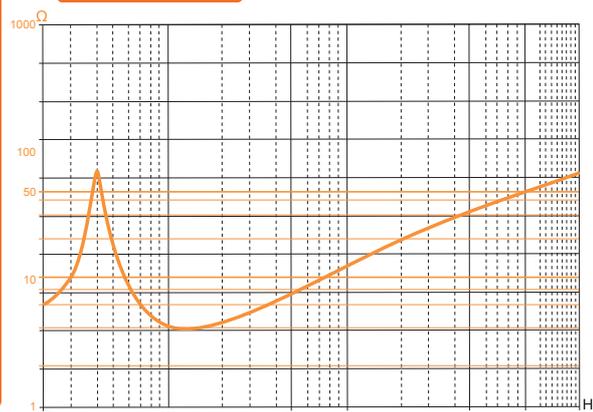


- Mobile voice coil wound on four layers with a special copper-plated aluminium CCAW winding. It insures maximum lightness and thermal and acoustic efficiency.
- DSS® double spider, for mobile voice coil perfect motion linearity.
- The exclusive DDS® spiders have constant compliance when excursion increases, keeping the speaker parameters unchanged even at high powers.
- Double-wave, cloth surround for bursting, full bass.
- Non-pressed paper cone with water-repellent coating.
- Anti-resonant alloy basket protected by an exclusive anti-scratch treatment.
- Forced ventilation circuit with reflex tube for mobile voice coil right cooling and for higher power handling.
- Lowered bottom plate for mobile voice coil very long excursions.
- Central "T" pole, for perfectly symmetric field in the gap.
- Very big magnet for mobile voice coil optimal control.

### Electro-Acoustic Parameters

<b>D</b>	mm	253
<b>Xmax</b>	mm	8,5
<b>Re</b>	ohm	3,0
<b>Fs</b>	Hz	41
<b>Le</b>	mH@1kHz	1,93
<b>Le</b>	mH@10kHz	0,77
<b>Vas</b>	lit	44
<b>Mms</b>	gr	114,9
<b>Cms</b>	mm/N	0,13
<b>BL</b>	T-m	13,73
<b>Qts</b>		0,44
<b>Qes</b>		0,46
<b>Qms</b>		9,27
<b>Spl (1m/2,83V)</b>	dB	95

### Impedance

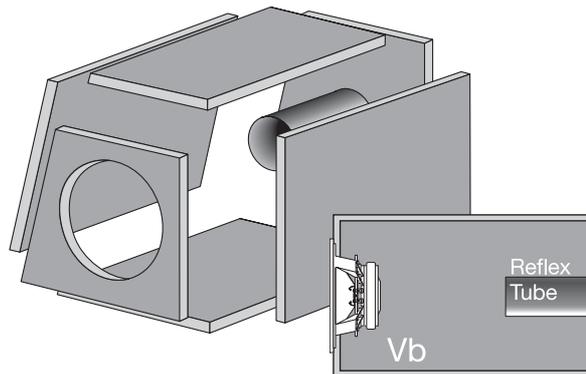


## design ML 3000

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation.  
 The volumes of Reflex, Asymmetric Bandpass and Double Reflex projects include tubes and ports overall dimensions.

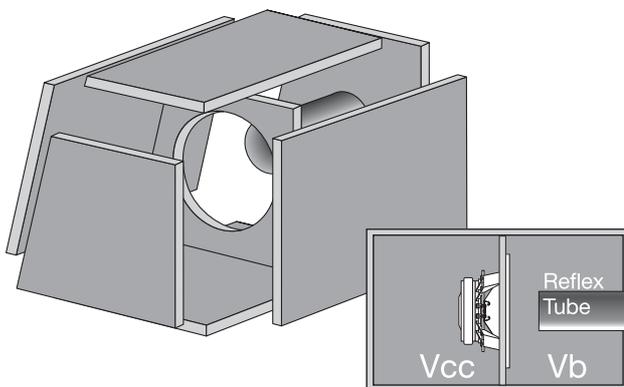
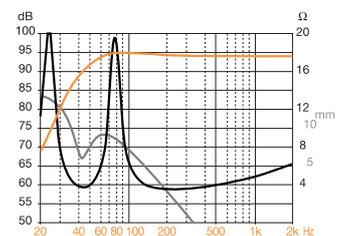
### Reflex Box

The best compromise between size and performances. It insures powerful, bursting and dynamic bass.



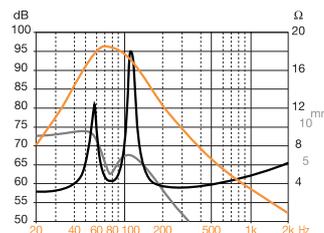
#### Reflex Box

**Vb** = 30 Lit  
**Fb** = 42 Hz  
**Reflex Tube**  
 $\varnothing$  = 82 mm  
 L = 165 mm



#### Asymmetric Bandpass

**Vcc** = 15 Lit  
**Vb** = 19,5 Lit  
**Fb** = 77 Hz  
**Reflex Tube**  
 $\varnothing$  = 2x82 mm  
 L = 165 mm

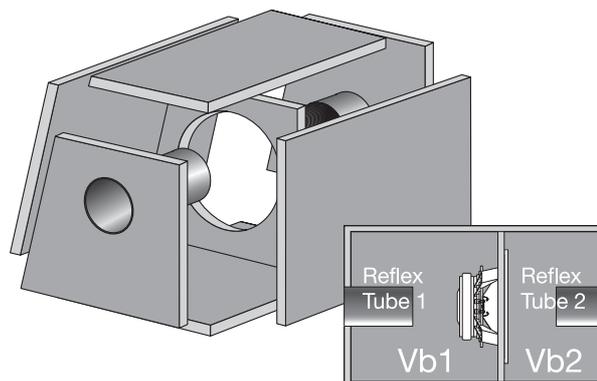


### Asymmetric Bandpass

It combines high power handling and fast, clear bass. Suitable to any kinds of music.

### Double Reflex

It is more difficult to build and bigger. It is the best solution to get bursting, fast sound. Perfect for techno and disco music.



#### Double Reflex

**Vb1** = 15 Lit      **Vb2** = 29 Lit  
**Fb1** = 87 Hz      **Fb2** = 42 Hz  
**Reflex Tube 1**      **Reflex Tube 2**  
 $\varnothing$  = 2x82 mm       $\varnothing$  = 100 mm  
 L = 125 mm      L = 250 mm

