

15 PA 400 MB GOLD

SWETON®



Presenting the all-new 15 PA 400 C MB GOLD, a premium-grade 15-inch, 400W AES mid-bass transducer powered by a rugged 3-inch voice coil. Designed for professionals seeking punchy low mids and extended durability, this GOLD version is an enhancement over the already popular 15 PA 400 C MB. What makes it different?

- ✓ Improved F_s and Q_{ts} , optimizing the response for Indian cabinets and outdoor environments.
- ✓ Significantly higher X_{max} (± 6 mm) for deeper excursion.
- ✓ Enhanced voice coil and spider geometry giving greater thermal stability and linearity.

Both 15 PA 400 MB GOLD and 15 PA 400 C [2.0] are engineered with excellence. While 2.0 is a specialist mid-bass driver with improved excursion and ruggedness for high-SPL duty cycles and extended midrange reach, the GOLD version excels in balance and response for versatile applications.

Recommended Enclosure (Vented/ Bass Reflex):

Enclosure Type	Volume (net)	Port Diameter	Tuning (Fb)
Vented Box	75–85 litres	4 inch (2 ports)	50–55 Hz
PA Cabinet	90–100 litres	100 mm (1)	45–50 Hz

- Internal damping recommended to reduce mid-bass boom.
- Front-loaded horn not recommended unless used in stacks.

HF Driver Recommendation:

Parameter	Recommendation
Power Handling	60–80 W AES
Sensitivity	105–110 dB SPL
Type	Titanium diaphragm compression driver
Exit Size	1" or 1.4"

Crossover Point Recommendations




Crossover Type	Frequency Range	Slope
Low Pass (LPF)	3.2 kHz – 3.8 kHz	12–18 dB/oct
High Pass (HPF)	40 Hz – 50 Hz	18–24 dB/oct

Ensure no overlap with HF to prevent phase issues.

Applications:

- Professional 3-way PA systems
- Open stage monitoring
- Bass guitar cabinets with added clarity
- DJ setups requiring punchy low-mids
- Line Array LF sections when paired correctly

Why Choose 15 PA 400 C MB GOLD?

-  Precision-engineered using Klippel LSI for unmatched linearity and control.
-  3-inch voice coil handles thermal loads reliably even in Indian outdoor events.
-  Stiff suspension with high C_{ms} keeps the cone stable without breakup.
- Higher V_d = Higher SPL = More impactful low-mid performance.

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SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	390 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	400 W
Program Power	800 W
Sensitivity (1W/1m)	97 dB
Frequency Range	45-4200 Hz
Magnet Material	Ferrite
Voice Coil Diameter	76.2 mm (3 in)
Winding Material	CCAW
Former Material	GLASS FIBRE
Winding Type	OUTSIDE

Mounting Info

Overall Diameter	390 mm
Bolt Circle Diameter	375 mm
Baffle Cutout Diameter	356 mm
Depth	164 mm
Flange and Gasket Thickness	12 mm
Gross Weight	10.25 Kgs

Parameters

Resonant Frequency	Fs	54 Hz
DC Resistance	Re	5.3 Ω
Electrical Q	Qes	0.58
Mechanical Q	Qms	15.05
Total Q	Qts	0.55
Compliance Equivalent Volume	Vas	115.60 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.80 Ltrs
Effective Surface Area of Cone	Sd	913.27 cm ²
Reference Efficiency	η_0	3.06%
Moving Mass including air load	Mms	87.60 gms
Motor Strength	Bl	16.54 T-m
Voice Coil Inductance	Le	0.37 mH
Efficiency Bandwidth Product	EBP	93 Hz
Voice Coil Overhang	Xmax	± 6.00 mm

Recone Kit

Recone Kit Number	REC15PA400MBGOLD
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$Z(f, x=0)$ Impedance

