SYSTEM

Not just another black box

Jands have been around for more than 20 years, which in the entertainment business is an eternity!

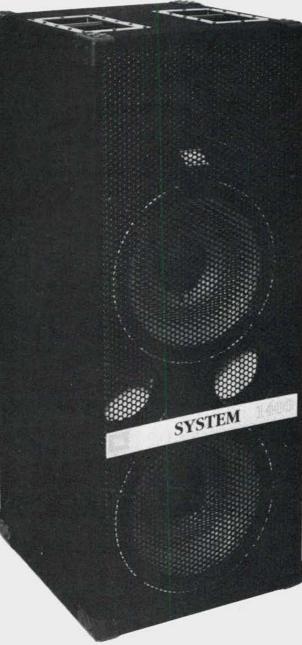
Along the way JBL have always been the loud-speaker type most chosen by Jands in their Concert Production Systems, and indeed Jands have been JBL's Australasian Agent for the past decade or so.

While Jands have designed speaker systems in the past, a large PASSIVE type of speaker system hasn't been on the agenda. Until now.

JBL came up with V.G.C., which stands for Vented Gap Cooling. The 2226 15" loudspeaker used in SYSTEM cabinets delivers 600 watts with exceptional efficiency, and is considerably lighter than it's predecessors.

With the right loudspeaker, the concept of a high powered, full range passive design proved possible. JBL always built the best components, it became a matter of combining those parts to make a whole.

Designer Richard Priddle was appointed, and prototyping took place along with listening tests and clinics.



Aside from a 'bullet proof' JBL 2445 2" compression driver, SYSTEM 1400 required an ultra-high power handling crossover network, capable of withstanding the high power and current that up to 1400

watts of amplifier power produces.



high power network

Then the SUBWOOFER was designed, with a pair of 2226's Bandpass Loaded into a compact cabinet.



System 1400 & System Sub

The SYSTEM 1400 can stand alone as a P.A. system, or stack atop a SYSTEM SUB. The SYSTEM 700 is a high power, single 15" & horn 'little brother'.



powered



FIRST in sound

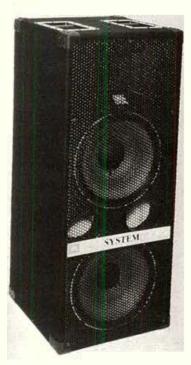
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Jands name their newly released JBL P.A. range:

The 1991 Jands JBL definitive range of loudspeaker cabinets has a name: System. Top of the range, and just released, is the System 1400, a composite full range cabinet rated at 1,400 watts RMS at 4 ohms, the most powerful passive cabinet available in the world today. That the cabinet will handle such power is entirely due to JBL's new Vented Gap Cooling technology, the 2226 15" loudspeaker, of which 2 are used in the System 1400 has given designer Richard Priddle a walk up start.



System 1400

"The woofer section is setup for optimum power handling, the 2226's are each capable of handling 600 watts" said Priddle. "What we've done is set them up so it's a balance between low end extension - they just hit the fat zone 45Hz, so you don't need to run them with sub's, they've got that rounded bottom end. Sometimes when you design speakers you compromise between heaps of bottom end and the slam you get out of the mid-bass with 2 x 15's, this has both. It's also balanced between the sound and the power handling vs the size of the box.

"We've gone to dual ganged inductors, we're talking about huge power handling, a 1400 watt box. In the high pass I haven't cut any of the amplitude out, rather I'm controlling the mechanical resonances, horn management is what it's all about, because these things are high 'Q devices, when they're given the berries they tend to want to stay moving, so in the network there's a handbrake across the 2K bark that the constant directivity creates - it's a very unusual network. It's there to tame the horn." (A JBL 2445 mounted on a 2380 CD flair)

"In response the cabinet automatically has a very slow taper from low to high, 1K to 20K there is a gradual decay, of 4dB, to 15KHz it's down 3dB. It could have been dead flat, but it didn't sound right. In fact I have created a total horn management system for the 2445/ 2380, which could be used anywhere, even in active systems."

By way of comparison, Jands point out the System 1400 outperforms the two benchmark compact PA cabinets available today, the Meyer MSL 3



Priddle

and the Turbosound TMS 3. In both cases, System 1400 produces greater SPL, from a smaller cabinet, with more bass, a powerful claim from Jands.

The System 1400 measures 1245mm tall x 510mm wide and 510mm deep. Standard finish is Black Carpet, with provision for mounting four casters on the rear. A complimentary subwoofer, the System Sub 1200 has been designed around a pair of JBL 2226 "Bandpass Loaded" into a cabinet the same height and width but a little deeper than the \$1400. A smaller cabinet, the System 700 is also ready for release, with other types due to join the System range soon.