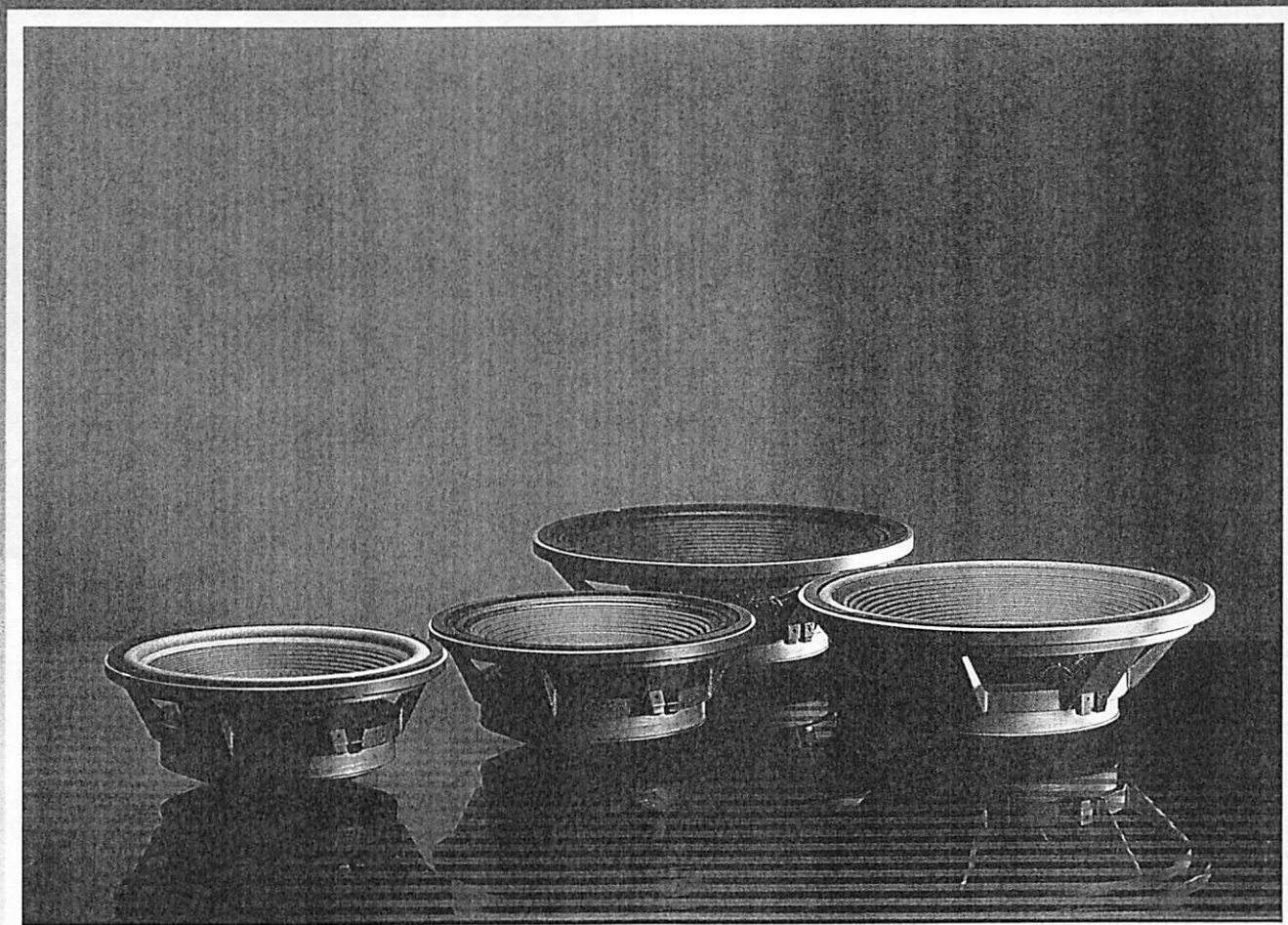


SA 1202, 1203, 1502 & 1503 Loudspeakers



- **Ultra high dynamic range**
8 dB extra headroom at maximum output

- **Super HiFi quality**
Unmatched clarity & reproduction of dynamics

- **Minimal power compression**
Due to special voice-coil and suspension

- **High power & peak power ratings**
Radically improved thermal limits

- **Exceptional reliability**
Extremely resistant to cone-suspension wear out

- **Indestructible construction**
Unique heavy duty chassis design



stage accompany

SA 1202, 1203, 1502 & 1503 Low-frequency loudspeaker series

Digital sound technology and the resulting enormous leap forward in performance quality has placed extra constraints on loudspeaker design. With the introduction of its Compact Drivers for mid- and high-frequency reproduction, Stage Accompany produced the first real innovation since the invention of the compression driver in the late twenties.

Our new low-frequency loudspeaker series is primarily designed to complement the exceptional quality of the Compact Drivers. Since the basis of our design philosophy is to continue where the competition leaves off, we first integrated outstanding contemporary design concepts into our prototype. And then we went further, making considerable improvements in all areas! The result is a very reliable loudspeaker with an exceptional dynamic range and extremely low harmonic and transient distortion.

Superior Voice-coils

Unlike many other loudspeaker manufacturers, we make our own voice-coils. To produce superior coils, a custom designed winding machine with an integrated unit to produce edge-wound copper ribbon was built to meet our specific needs.

Apart from the normal insulation, this edge-wound copper ribbon is covered with a special thermo-hardening resin that is cured in an oven at 230 °C. This offers radically improved strength, heat resistance and insensitivity to thermal deformation.

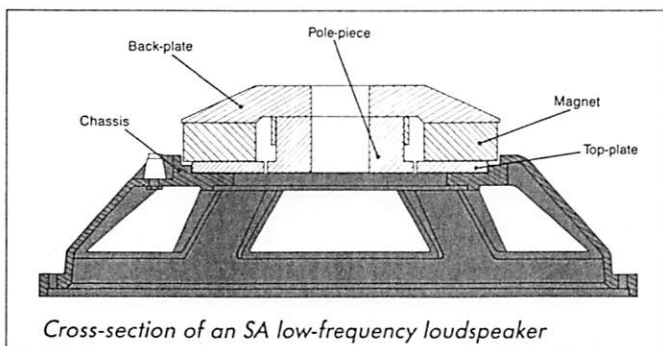
The coil is glued directly onto the aluminium coil-tube with a special, super-strong adhesive to obtain more rigid coils with better heat dissipation. This rather time consuming production method results in voice-coils with exceptional strength. Their thermal limit is well over twice that of regular coils.

Combined with the careful design of our large magnet structures and excellent cones, these coils create loudspeakers with gentle cone break-up, much better transient response, less power compression and improved power handling capacity (both continuous and peak). The power rating of 150 W RMS and 300 W continuous program for all our low-frequency loudspeakers is therefore rather conservative.

Unique chassis design

If you take a close look at our loudspeakers, you will see that they have a die cast chassis just as thick and solid as the chassis of an 18" woofer, only with a smaller diameter.

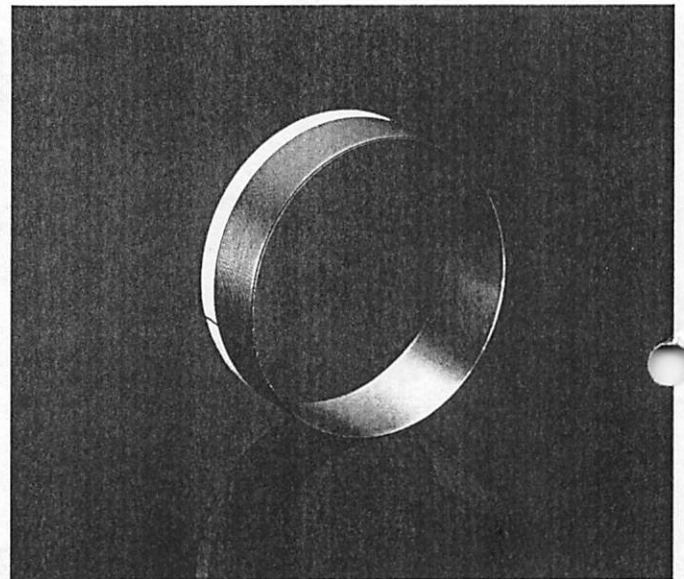
An important cause of loudspeaker damage is the gradual loosening of the screws holding the magnet structure against the chassis. The chassis of the SA low-frequency loudspeakers is designed so that it encloses the top-plate of the magnet structure completely: it can never move (see section illustration). The whole magnet structure is assembled and fixed to the chassis with an exotic heavy-duty, two-component adhesive that was primarily developed for use in the space and aeronautics industries. By applying the adhesive to specially enlarged surfaces, an extremely strong construction is achieved. By also enclosing a part of the magnet in the chassis and making the back-plate slightly larger than the magnet, optimal protection is offered when the loudspeaker is dropped accidentally during mounting or unpacking. In contrast to others we have encountered during heavy use "on the road", our woofers have a virtually indestructible construction.



Improved cone-suspension

To decrease harmonic distortion on high levels, a special non-linear cone-suspension is used. This achieves much better control of cone movement at maximum excursion.

The exceptional resistance to cone-suspension wear out has been proved in extensive mechanical tests that included feeding the loudspeaker with 45 Hz pulses of 200 W RMS for a continuous period of more than one hundred hours. Several products of other market-leaders did not survive this test undamaged.



Stage Accompany's superior voice-coils offer many advantages

Four models available

Stage Accompany low-frequency loudspeakers are available in two 12" and two 15" models, all with 100 mm (4") voice-coils.

The 1202 and 1502 are intended for low-/mid-frequency reproduction. They have a lighter cone with firm suspension for high efficiency and tight transient response.

The 1203 and 1503 have a more supple cone-suspension with extended maximum excursion. They offer superb low-frequency reproduction.

These are not just "another set of loudspeakers". They are the successful culmination of a considerable effort to raise the performance of low-frequency loudspeakers to match the new high standards of the digital sound era.

Technical specifications:

Model	1202	1203	1502	1503
Nominal diameter:	12"	12"	15"	15"
Voice-coil diameter:	100 mm	100 mm	100 mm	100 mm
Nominal impedance:	8 Ω	8 Ω	8 Ω	8 Ω
Power handling capacity,				
Continuous sine wave:	150 W	150 W	150 W	150 W
Continuous program:	300 W	300 W	300 W	300 W
Peak (200 ms):	1000 W	1000 W	1000 W	1000 W
Sensitivity (1 W, 1 m):	98 dB	93 dB	97 dB	94 dB
Frequency response (Hz):	75*2000	45*1500	50*1200	34*1000
* in recommended enclosure				
Recommended enclosure:				
Box volume:	.040 m ³	.042 m ³	.100 m ³	.150 m ³
Box tuning frequency:	82 Hz	41 Hz	45 Hz	32 Hz
F ₃ :	75 Hz	45 Hz	50 Hz	34 Hz

Stage Accompany reserves the right to change specifications without notice.



Stage Accompany...
... the name for quality

Stage Accompany
Anodeweg 4, 1627 LJ HOORN
The Netherlands
Tel: (0)2290 - 12542, Fax: (0)2290 - 11192
Telex: 37989 Stage nl