



Fohhn[®] Linea.

Our new line source speakers combine pure elegance with best sound quality. Linea was developed specifically for locations with difficult acoustics and long reverberation times.



A close-up, low-angle photograph of a Linea speaker. The speaker is a long, narrow, rectangular unit with a dark, textured grille on the left side and a light-colored, possibly white or silver, frame on the right. The lighting is dramatic, highlighting the edges and the texture of the grille against a dark background.

Design meets functionality.

Elegant style and cutting-edge technology rolled into one.

The new Fohhn® designer line source speakers are a successful symbiosis of design and functionality and were specifically developed for locations with difficult acoustic conditions and long reverberation times such as churches, museums or conference rooms. The line source technology achieves narrow dispersion characteristics along the vertical axis. As a result, the sound is transmitted directly to the audience and reverberations from the ceiling and floor are reduced significantly, thereby improving speech intelligibility. In comparison with conventional sound columns, the vertical dispersion angle of the Linea line source speakers remains constant up to the upper audibility limit and is not restricted. The sound therefore remains constant throughout the whole dispersion range due to a combination of multiple-route technology and a complex passive filter network.

Adaptation to the architectural environment.

An attractive design is important for architecture both in modern and historic buildings. The shapely design of the Linea speakers lends a timeless elegance to any room. The speakers can be integrated discreetly or arranged as a designer feature within the room, depending on the colour selected. The housing is manufactured from resonance-free wood, not from metal as is usually the case. The housing exterior can be painted in a high-quality matt finish in all RAL colours or in a black piano finish and adapted to the architectural requirements. The elegant finish reflects the quality of the speaker system.



»Pure quality made in Germany combined with a powerful performance and a breathtaking design – our customers are impressed ...
The new benchmark for speakers in this class.«

Thomas Jaggo
Jaggo Media GmbH, Regensburg, Germany.



Church
St. Vitus,
Pullenried,
Germany



Baroque church
Saint Lambert,
Teunz, Germany





A high-quality speaker system needs high-quality amplifiers and control technology.

Everything you need for a perfect sound and reliable operation.

Our DSP amplifiers are fully compatible with Linea line source speakers. Specially adapted power and sound presets for each Linea model are integrated in the DSP amplifiers and guarantee excellent sound production at all volume levels and maximum protection.

Integrated DSPs give you access to all the most important digital audio devices and the fully parametric 10-band EQs provide vital assistance in setting up demanding lectern and Lavalier microphone applications or adapting Linea systems to the room acoustics.

When using several speaker systems, the integrated room delay enables you to delay speakers further away from the microphones so that speech intelligibility and sound in relation to the speaker are perfect throughout the room.

If you wish to use existing amplifiers for your project, we recommend the external 19" DSP System Controller FC-8 if possible.

F-10 wall panel for remote operation of DSP amplifiers.



Ideal for in-house technicians

8-button wall panel for perfect control and convenient remote operation of DSP amplifiers. You can change the volume or select fixed presets at the press of a button (example: empty room/full room, speech/music). Several remote control modules can be integrated at suitable locations within the room.

»We are extremely impressed with the design and functionality of the Linea products. Several famous buildings were equipped with Linea speaker systems shortly after they were presented in Italy.«

Quote from architect Luciano Biamino, KDD, Italy.



The new Fohhn® design nearfield speakers Linea AL-10 und AL-20.

Ultra compact. Elegant Design. Ideal for shorter distances, background sound or under balcony applications in demanding architectural surroundings. Outstanding sound quality for speech and music. Can be combined with the new subwoofers AS-10/ASP-10.





First-class music production and perfect speech transmission.

If you require maximum speech intelligibility and perfect music transmission in rooms with difficult acoustic conditions, we recommend a combination of Linea line source speakers and active or passive subwoofer systems (XS-10 *active / passive* and XS-20 *active / passive*).

These ultra compact subwoofers complement the Linea speakers in the bass frequency range, produce a full sound with both acoustic and electronic music and are available in all RAL colours. The active subwoofers are equipped with established Fohhn digital amplifiers and digital signal processors to make available all audio devices and protection, monitoring and remote control functions already established in the DSP amplifiers. You have the option of connecting up to 4 Linea line source speakers to one active subwoofer. 2x 500W of power is produced at 4 ohms.

Linea speakers combined with subwoofers form a powerful sound system that blends in perfectly with the surrounding architecture and is capable of broadcasting an outstanding sound, irrespective of the music type. In many cases, this system is a more economical alternative to other systems because of the control and power electronics integrated in the subwoofer. External amplifiers, signal processors and racks are not required.

High-quality accessories add the finishing touch.

The speech/music switch may be useful for projects where Linea speakers need to be integrated in existing 100V speaker networks. When the switch is set to “Speech”, the frequency ranges relevant for speech reproduction are emphasised to maximise intelligibility. In the “Music” position, the entire frequency spectrum is broadcast evenly (rooms with “normal” acoustics).

At the 8-way connecting terminal, you can connect speaker systems quickly and reliably, connect to a 100V power supply or connect speakers in parallel.

Install Linea system components with consummate ease using High-quality wall brackets or mount columns directly to the wall using discreet corner brackets.



Wall bracket for quick, safe installation.



Corner mounting bracket for direct attachment to wall.



Speech / Music switch and 8-way connecting terminal.

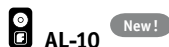
Linea references:

- The Council Chamber, Town Hall, St. Helens, Great Britain
- Danish Parliament, Danish High Court, Copenhagen
- German Bank Tower, Frankfurt, Germany
- Versace presentation centre, Milan, Italy
- Teatro Sociale, Valenza Po (1864), Italy
- Università degli Studi Roma 3, Rome, Italy
- Carthusian church, Saint Viktus, Regensburg, Germany
- Baroque church, Saint Lambert, Teunz, Germany
- St. Vitus church, Pullenried, Germany
- Kursaal, Bad Abbach, Germany
- Church of the Ascension of the Virgin Mary, Dresden, Germany
- Church of the Ascension of the Virgin Mary, Sinzug, Germany
- Evangelic collegiate church, Mosbach, Germany and many, many more.



Technical specifications.

Fohhn® Linea.



AL-10

New!

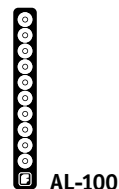


AL-20

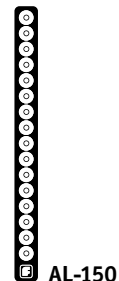
New!



AL-50



AL-100



AL-150

Principle	Near-field speaker	Near-field speaker	Line source speaker	Line source speaker	Line source speaker
Components	1x 3.3"	2x 3.3"	4x 3.3"	10x 3.3"	16x 3.3"
Impedance	8 ohms	16 ohms	8 ohms	8 ohms	8 ohms
Sensitivity	89 dB	90 dB	92 dB	96 dB	99 dB
SPL (max.)	103	106	112	119	124
Power rating (AES)	20 W	40 W	80 W	200 W	300 W
100V version (optional)	10 / 5 / 2.5 W	10 / 5 / 2.5 W	50 / 25 / 12.5 W	50 / 25 / 12.5 W	50 / 25 / 12.5 W
Horizontal dispersion angle	140°	140°	140°	140°	140°
Vertical dispersion angle	140°	80°	40° from 1.5 kHz	15° from 1.5 kHz	15° from 1 kHz
Frequency response (-10 dB)	160 Hz – 20 kHz	150 Hz – 20 kHz	140 Hz – 20 kHz	140 Hz – 20 kHz	140 Hz – 20 kHz
Connectors	8-pin Phoenix terminal	8-pin Phoenix terminal	8-pin Phoenix terminal	8-pin Phoenix terminal	8-pin Phoenix terminal
Equipment features	- 2x M6 thread	- 3x M6 thread	Sliding music /speech switch, 4x M6 thread	Sliding music /speech switch, 4x M6 thread	Sliding music /speech switch, 4x M6 thread
Dimensions (W x H x D)	11 x 11 x 14.2 cm	11 x 19 x 14.2 cm	11 x 59 x 14.2 cm	11 x 99 x 14.2 cm	11 x 146 x 14.2 cm
Weight	1.4 kg	2.4 kg	5 kg	10 kg	15 kg
Paint	Black (chrome decoration) or matt white (white decoration)	Black (chrome decoration) or matt white (white decoration)	Black (chrome decoration) or matt white (white decoration)	Black (chrome decoration) or matt white (white decoration)	Black (chrome decoration) or matt white (white decoration)
Special colours	All RAL colours	All RAL colours	All RAL colours	All RAL colours	All RAL colours
Front design	Acoustic foam	Acoustic foam	Acoustic foam	Acoustic foam	Acoustic foam
Protective grille	Metal	Metal	Metal	Metal	Metal
Housing	MDF	MDF	MDF	MDF	MDF

»The last link that contributes to defining the broadcasting quality of every sound system is the speaker. The benefits that modern DSP amps and controllers offer can also be implemented acoustically through the optimisation and best possible control of the dynamic performance, amplitude and phase responses, directivity, etc. in all load ranges. With this in mind, I always set myself and my team the highest standards for material selection, switching technology and the acoustic design of our speakers.«

Dipl. Eng. (BA) Boris Kunz
Head of Acoustics/Mechanics Development



Sophisticated crossover technology, high-quality components and extensive quality assurance measures guarantee an excellent sound quality with defined dispersion characteristics and outstanding intelligibility.



The stylish black piano finish poses a real challenge during production. 11 coats of paint are applied, which take a long time to dry.