

# B&M

BACKES UND MÜLLER  
AUDIOPHILE MANUFAKTUR

## HORNS



BACKES & MÜLLER

## FORM FOLLOWS FUNCTION

For more than 40 years the name Backes & Müller has been synonymous with active loudspeakers developed and "Made in Germany". This tradition of using only the best materials and our own cutting edge technology - incorporating the experience from 40 years of active loudspeaker manufacture - has made our loudspeakers the reference speakers for loudspeakers of the highest quality. Today, with its product portfolio of premium active loudspeakers, B&M is recognized as the market leader in active highend loudspeakers.

"With its innovations in digital signal processing and sensor control,  
Backes & Müller, is technology leader in the best sense".

M. Ruhnke, Audiophile Magazine

THE COAXIAL HORNS

## BMLINE 100 | BMLINE 80

Different acoustics in living rooms require different solutions. An authentic reproduction in a large room requires a completely different solution than in a small room. Large listening distances require a different system than a near field setup. As a consequence, the external construction influences the sound reproduction process. Organic sound reproduction processes express themselves in organic cabinet designs. The BMLine 80 and 100 is the ultimate consequence of this consideration. The most modern digital signal processing combined with the archaic form of the newly developed vertical horn ensures you have an original live performance every time.

For further information please contact us at [info@backesmueller.de](mailto:info@backesmueller.de)



The timely order of a signal as the sole genuine event. The way the FIRTEC™ Technology functions results from the knowledge that the human ear does not listen to amount or phase, but rather takes in only a continuous stream of information. Changes in air pressure across a time line arriving at each ear make up the entire information of the acoustical ambient. This includes volume as well as direction and spatial information.

## „AUTHENTICITY IN MUSIC“

Our FIRTEC™ Technology separates the signal in bass, midrange and mid-high-range components and corrects the emitted music signal in such a way that the sound waves combine themselves to an accurate, complex sound event upon arriving at the listener's ears. The impulse response of a system with such a frequency cross-over unit does not contain any phase distorted components and is accordingly extremely clean and void of overshoots. In addition and depending on the listener's preferences, the loudspeakers can be optimized to the surrounding room and adapted with the help of filters.



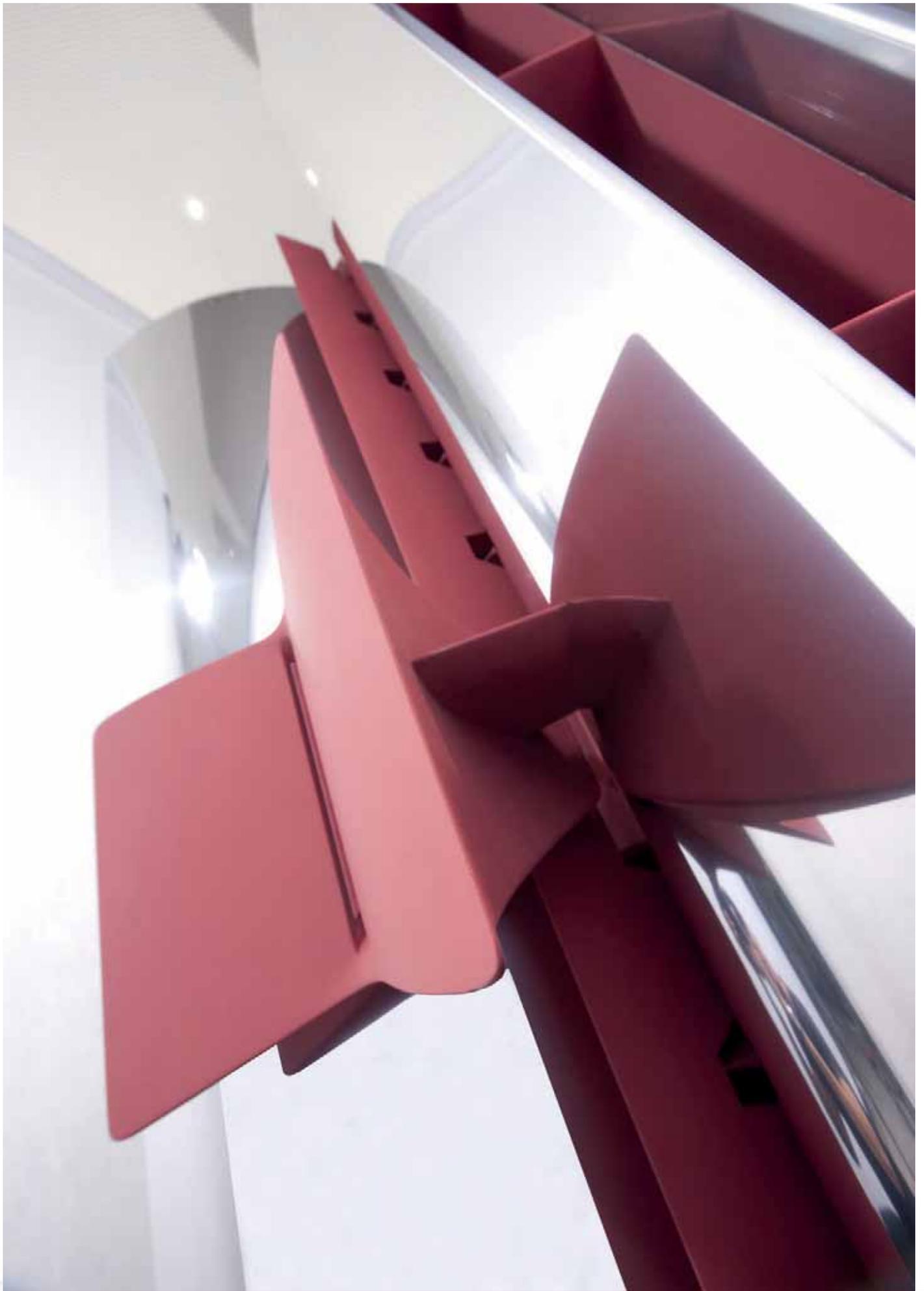
LINE RADIATION SPEAKER

BM LINE 100

TECHNICAL SPECIFICATIONS

# BMLINE 100

{ Performance }	.....3500W, Bass 6x 500W (PWM), mid-range 300W analogue MOSFET, high-range 200W analogue MOSFET
{ Phase }	.....Linear phase via FIRTEC(TM) and DMC
{ Measurements }	.....W x H x D: 100 x 230 x 125 cm Weight: 250 kg.
{ Radiation Angle }	.....(HxV): 60°x90°
{ Frequency Range }	.....22-22000 Hz (+/-3dB)
{ Power Supply }	.....230V +/- 5% 50Hz.
{ Input }	.....Analogue-In XLR-Symmetrical/+4 dBV
{ Input }	.....Digital-In XLR-AES3 format for direct connection to digital source
{ Signal Processing }	.....Digital signal processing with FIRTEC(TM) equalization, Time alignment, linear phase frequency cross-over unit, analogue controlled B&M-DMC bass chassis.
{ Room Adaptation }	.....Direct location tuning with high and low shelving control. Room adaptation with optional FIRControl software and 3 PEQ filter + high and low shelving, delay, level.



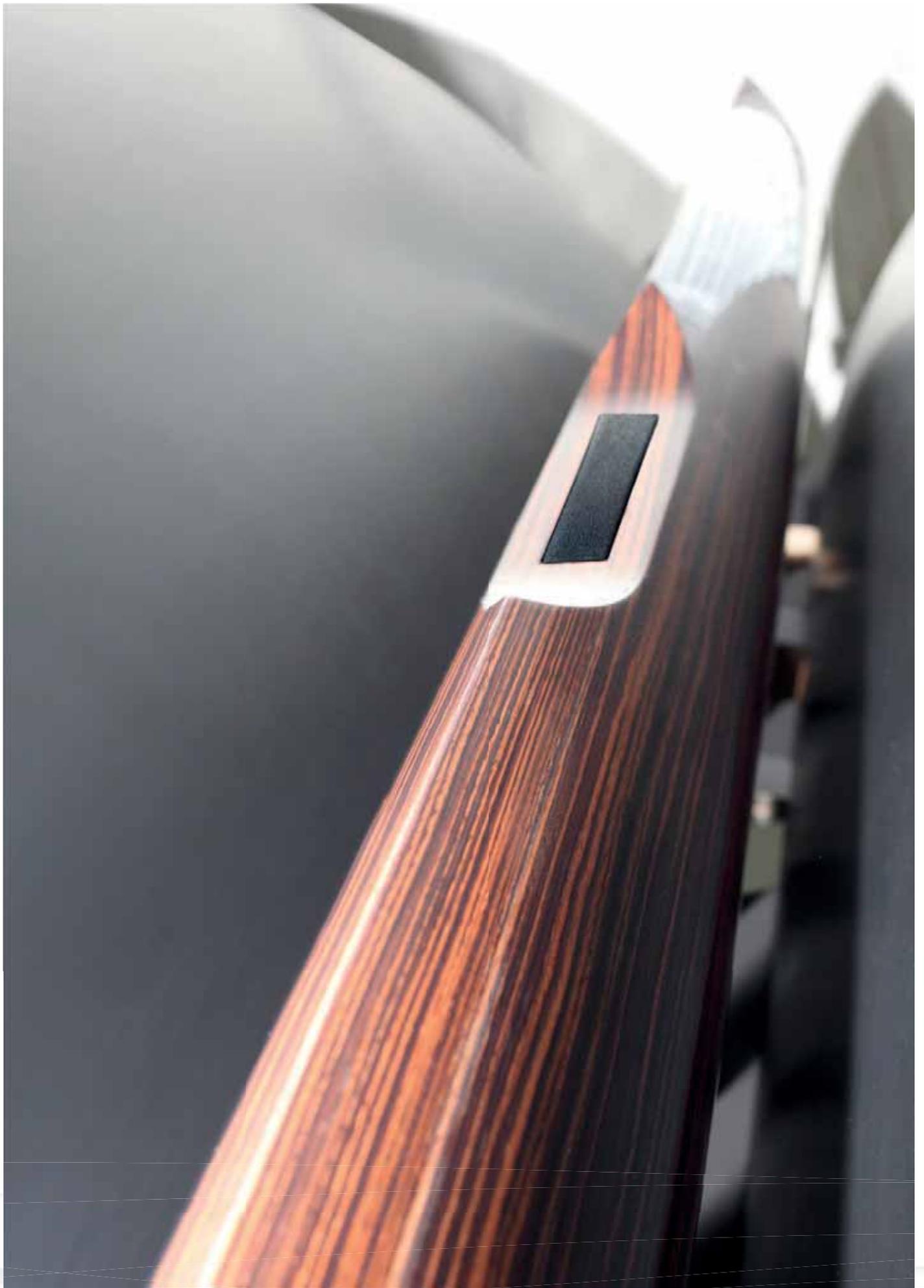
LINE RADIATION SPEAKER

BMLINE 100

TECHNICAL SPECIFICATIONS

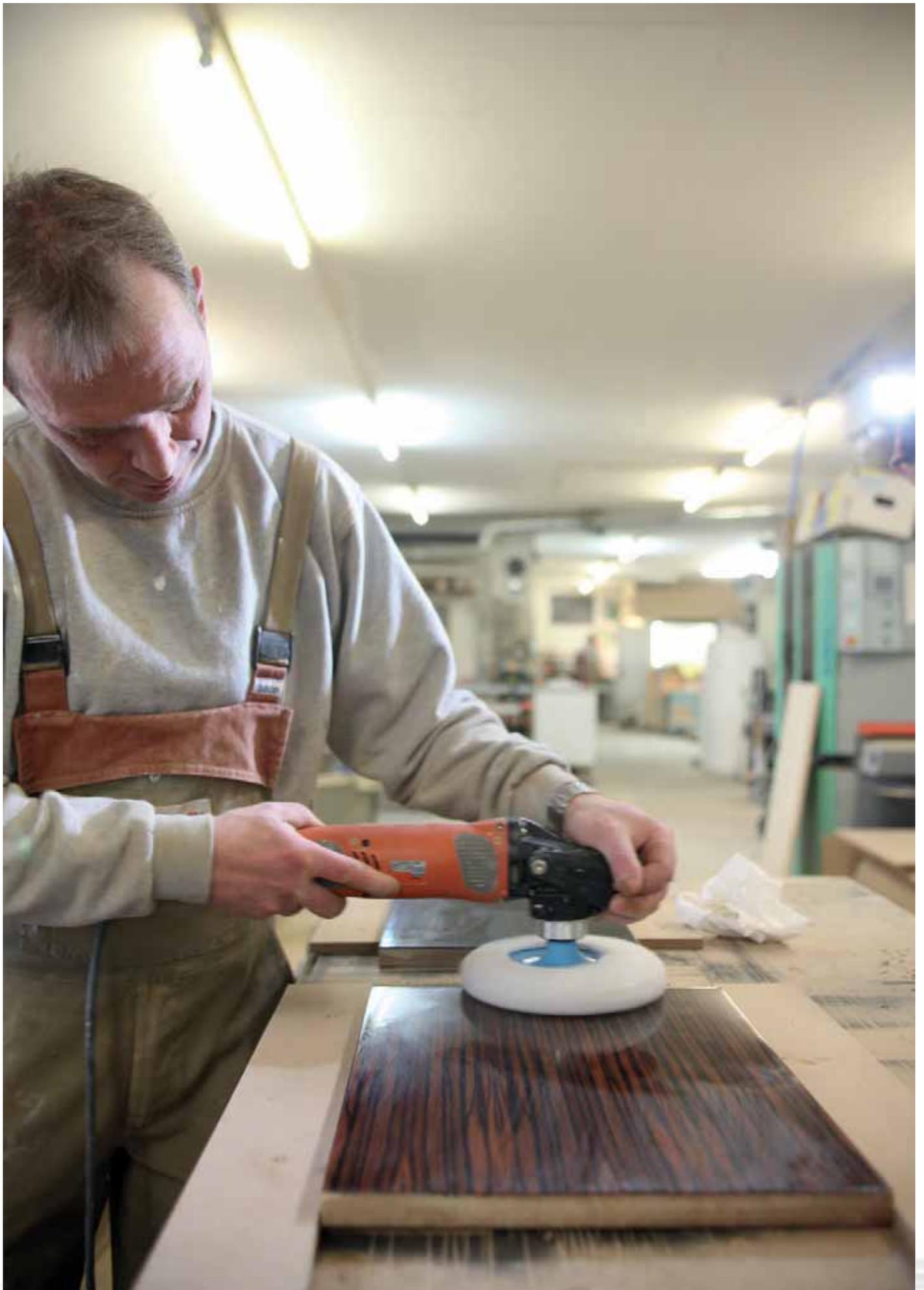
## BMLINE 80

{ Performance }	.....2050W, bass-mid-range 300W analogue MOSFET - DMC(TM) dynamic-membran-controlled, high-range 250W analogue MOSFET
{ Phase }	.....Linear phase via FIRTEC(TM) and DMC
{ Measurements }	.....W x H x D: 100 x 210 x 105 cm Weight: 180 kg.
{ Radiation Angle }	.....(HxV): 60°x90°
{ Frequency Range }	.....22-22000 Hz (+/-3dB)
{ Power Supply }	.....wide range - worldwide
{ Input }	.....Analogue-In XLR-Symmetrical/+4 dBV
{ Input }	.....Digital-In XLR-AES3 format for direct connection to digital source
{ Signal Processing }	.....Digital signal processing with FIRTEC(TM) equalization, Time alignment, linear phase frequency cross-over unit, analogue controlled B&M-DMC bass chassis.
{ Room Adaptation }	.....Direct location tuning with high and low shelving control. Room adaptation with optional FIRControl software and 3 PEQ filter + high and low shelving, delay, level.



LINE RADIATION SPEAKER

BMLINE 80



DEVELOPED AND MADE IN GERMANY



LINE RADIATION SPEAKER

BMLINE 80

BACKES & MÜLLER  
AUDIOPHILE LOUDSPEAKER MANUFACTURER

Our philosophy is to aim to make the loudspeakers disappear, acoustically speaking. The entire musical event must detach itself from the speakers and establish itself, independently in a stable fashion in the room, only then can an authentic and emotional experience be transferred to the listener. Loudspeakers are independent and individual pieces of furniture. Therefore they must be integrated into the living-room and make their own aesthetic statement at the same time. Precisely for this reason every loudspeaker is also a work of art, not just because of its craftsmanship but also in the matter of its design and choice of material. An individual product specification according to the customer's wishes is therefore a matter of course, and requires a manufacturer with both a high vertical depth of manufacture as well as a complete solution solving competence in-house.

B&M