

Musway MG8 + MG10 + MG12 - new top woofers in the three-way test

The image shows three circular speakers from the Musway MG8, MG10, and MG12 series. They are arranged on a dark, textured surface, possibly a car's interior panel. The speakers are black with a prominent central dome and a visible surround. The brand name 'MUSWAY' is embossed on the outer ring of each speaker. The lighting is dramatic, highlighting the textures and contours of the speakers.

Sound quality Subwoofers

► Musway surprises with a brand new subwoofer series, which is right at the top of the delivery range. We test what the MG subwoofers are all about.

Musway was on the radar for their digital power amplifiers or vehicle-specific speakers. However, you would have spontaneously looked for high-end subwoofers elsewhere. The chassis range previously consisted of flat woofers and a handy 6" woofer, so not necessarily the material for die-hard bass freaks. However, Musway has already made an exclamation mark with the MG loudspeaker series; the component systems with aluminum membranes and baskets have been able to make a lasting impression. Now Musway flanks them MG loudspeakers with the MG subwoofers, which are intended to be the perfect playing partners: power and musicality at the same time. And the three models MG8, MG10 and MG12 look powerful straight away. The aluminum die-cast baskets are newly developed and not off the shelf, there are no spills here, but properly padded. Solid struts and large ventilation windows appear indestructible, as do the thick membranes made of air-dried paper. The enclosed protective grilles are also very stable and ensure a unique look. The membranes are surrounded by high-profile foam surrounds, which are narrow but high are to enable a long membrane stroke without stealing too much membrane surface. The lower management performs a centering that works with two spiders in order to master the moving masses. In all three models the drive seems oversized. Musway didn't skimp here and gave the MG woofers fat doubles.

pelferrite magnets donated. The pole plate and the pole core of the eight-inch model are so massive that you think more of SPL than sound quality. The upper pole plates of the MG10 and MG12 are beautifully machined and face-turned; only the MG8 has to make do with a punched pole plate. The voice coil diameters are nicely staggered according to size at 50, 64 and 76 meters, the voice coils are generous, namely one or two sizes more than normal woofers.

Measurements and sound

The voice coils are not only large in diameter, but also provide plenty of stroke reserves; we measure 20 and 40 millimeters of mechanical stroke up to the stop and 14 millimeters of linear stroke, i.e. voice coil overhang. The measurement of the Thiele-Small parameters mainly results in hard suspensions and correspondingly small equivalent volumes. The fat magnets ensure high magnetic flux densities in the air gap, but the dream of a monster bass made of tiny housings is still dashed because of the high resonance frequencies and qualities. That doesn't mean that the MG woofers need large boxes; they are real space-saving woofers anyway because of their installation depths

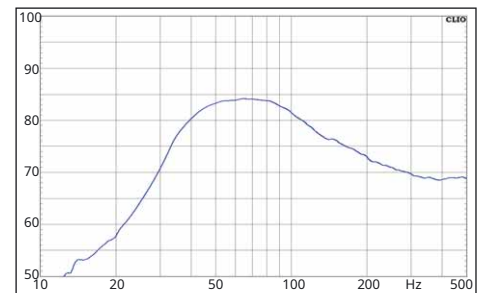


The standard protective grilles fulfill their requirements Purpose and look good

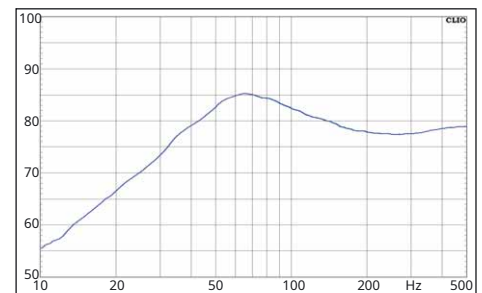


Under the double is a lot

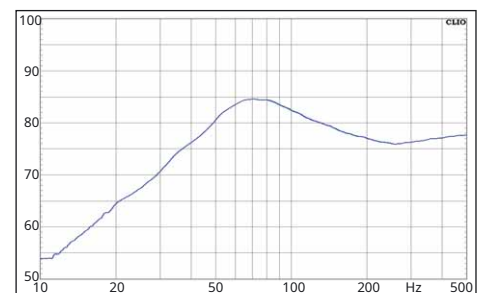
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The MG8 plays in 17.5 liters of bass reflex down to well below 50 Hz and achieves at least 84 dB at 1 W



The MG10's amplitude response looks slim, but works great in the car



The MG12 with a good 30 liter closed volume offers a great compromise between space consumption and bass output



The MG Wwoofers have new die-cast baskets and individual get dually sized drives

not. MG10 and MG12 work best in closed or bass reflex enclosures. We put the MG12 in 32 liters closed, where it feels right at home with 45 Hz built-in resonance and 0.8 built-in quality. The MG10 runs perfectly in the "standard housing" (30 liter bass reflex, port 10 x 30 cm), but it also copes well with 19 liters when closed. We only gave the small MG8 an adequate reflex housing, namely 17.5 liters. By the way, the MG woofers are a prime example of the rule of thumb that the bass reflex volume of the small woofer is approximately the same as the closed volume of the one size larger. The MG8 then conjures up a picture-perfect frequency response right down to the deep bass and that's what it sounds like. Much more acoustically large than the visual impression suggests, the MG8 plays boldly and powerfully. Thanks to its solid construction and long stroke, high levels can be generated even with the small MG. And just as befits a small woofer, the MG8 also plays extremely precisely. When we switched to the closed MG10, we were torn as to which sounded crisper and had more pressure. Both are playing excellently and will make SQ fans happy, that's for sure. Our decision is in favor of the MG10, which is a little more confident and at the same time sounds drier than the small reflex woofer. But when the MG12 plays, it becomes clear that there is even more possible when it comes to pressure and level. Without sounding unclean, the membrane surface of the MG12 adds a bit of SPL to it. You can spontaneously say that the MG10 is the golden mean, but everyone has to decide that for themselves at the Musway dealer.

Conclusion

Musway's MG subwoofers are really well made. For the impression of quality and performance, the prices of 250 to 350 euros are rather cheap.

Elmar Michels



Subwoofers	Musway MG8	Musway MG10	Musway MG12
Price distribution	around 250 euros Audio design Kronau	around 300 euros Audio design Kronau	around 350 euros Audio design Kronau
Hotline	07253 9465-0	07253 9465-0	07253 9465-0
Internet: www.	musway.de	musway.de	musway.de

Evaluation				
▶ sound	50%	1.0----	0.9-----	0.9-----
Depth	12.5%	1.0----	1.5-----	1.0----
Pressure	12.5%	1.0----	1.0-----	1.0----
cleanliness	12.5%	1.0----	0.5-----	0.5-----
dynamics	12.5%	1.0----	0.5-----	1.0----
▶ laboratory	30%	1.7----	1.7-----	1.7-----
Frequency response	10%	0.5-----	1.0-----	1.0-----
Efficiency	10%	3.0-----	3.0-----	3.0-----
Maximum level	10%	1.5-----	1.0-----	1.0-----
▶ processing	20%	1.0----	1.0-----	1.0-----

Technical data			
Basket diameter	22.1cm	27.6cm	32.4cm
Installation diameter	18.5cm	14.0cm	28.5cm
Installation depth	13.8cm	16.2cm	18.1cm
Magnet diameter	15.0cm	15.5cm	17.0cm
Weight	5.6kg	7.3kg	9.3kg
Nominal impedance	2 x 2 ohms	2 x 2 ohms	2 x 2 ohms
DC resistance Rdc	3.70 ohms	3.64 ohms	3.70 ohms
Voice coil inductance Le	2.08 mH	2.29 mH	2.52 mH
Voice coil diameter	50mm	64mm	76mm
Membrane surface	255cm ²	333cm ²	491cm ²
Resonance frequency fs	58Hz	39Hz	33Hz
mechanical quality Qms	9.28	8.20	7.74
electrical quality Qes	0.88	0.76	0.65
Overall quality Qts	0.80	0.70	0.60
Equivalent volume Vas	7.0L	16.9L	34.5L
Moving mass Mms	97g	153g	228g
Rms	3.82 kg/s	4.58 kg/s	6.10 kg/s
cms	0.08mm/N	0.11mm/N	0.10mm/N
W xl	12.21 Tm	13.40 Tm	16.41 Tm
Sound pressure 1 W, 1 m	84dB	84dB	85dB
Performance recommendation	200 - 400W	300 - 500W	300 - 700W
Test case	BR 17.5 l	g 19 l	g 31 l
Reflex channel (dxl)	7x22cm	-	-



"Power and sound, the MG woofers offer both."