

Musway surprises with a brand new series of subwoofers is at the top of the delivery program. We test what what the MG subwoofers are all about.

Musway was previously known for their digital amplifiers and vehicle-specific speakers. However, one would not have spontaneously looked for high-end subwoofers from them. The chassis range previously consisted of flat woofers and a handy 6" woofer, so not necessarily the material for die-hard bass freaks. However, with the MG loudspeaker series, Musway has already made a statement, the component systems with aluminum membranes and baskets were able to make a lasting impression. Now Musway is flanking the MG loudspeakers with the MG subwoofers, which are supposed to be the perfect partners: power and musicality at the same time. And the three models MG8, MG10 and MG12 look powerful right away. aluminum die-cast baskets are newly developed and not off the shelf, here no corners are cut, but rather a lot is invested. Massive struts and large ventilation windows appear indestructible. as do the thick membranes made of air-dried paper. The included protective grilles are also very stable and provide their own look. The membranes are enclosed by high-profile foam surrounds, which are narrow but high, in order to allow a long membrane stroke without stealing too much membrane area. The lower guidance work is done by a centering that works with two spiders to control the moving masses.In all three models, the drive appears oversized.

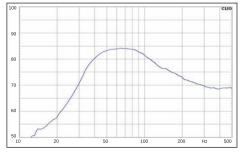
Musway has not saved here and has given the MG woofers fat double ferrite magnets. Even the lower pole plate and the pole core are so massive even on the eight-inch model that one thinks more of SPL than of sound quality. The upper pole plates are beautifully finished and turned on the MG10 and MG12, only the MG8 has to make do with a stamped pole plate. The voice coil diameters are nicely staggered according to size, with 50, 64 and 76 millimeters, the voice coils are very generous, namely one to two sizes larger than with ordinary woofers.



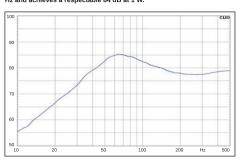
The standard protective grilles fulfill their purpose and look good.

Measurements and Sound

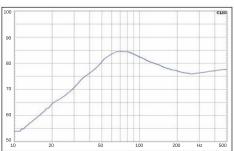
The voice coils are not only large in diameter, but also provide plenty of stroke reserves, we measure 20 and 40 millimeters of mechanical stroke to stop and 14 millimeters of linear stroke, i.e. voice coil overhang. The measurement of the Thiele-Small parameters primarily results in hard suspensions and correspondingly equivalent volumes. The fat magnets ensure high magnetic flux densities in the air gap, but the dream of monster bass from tiny enclosures still bursts due to the high resonance frequencies and O factors. This does not mean that the MG woofers need large boxes, they are not real space-saving woofers anyway due to the installation depths.



The MG8 plays in 17.5 liters of bass reflex down to well below 50



The frequency response of the MG10 looks slim, but it works great in the car.



The MG12 in a sealed enclosure of just over 30 liters offers a great compromise between space consumption and bass output.





The MG woofers have new die-cast baskets and individually dimensioned drives.

The MG10 and MG12 work perfectly in closed or bass reflex enclosures. We tested the MG12 in a closed 32-liter enclosure, where it thrived with a 45 Hz mounting resonance and a 0.8 mounting quality factor. The MG10 shines in the "universal enclosure" (30 liters bass reflex, 10 x 30 cm port), but also handles 19 liters closed with ease. Only the smaller MG8 received a dedicated reflex enclosure, sized at 17.5 liters. Interestingly, the MG woofers exemplify the rule of thumb where the bass reflex volume of the smaller woofer roughly matches the closed volume of the next size up. The MG8 produces a textbook frequency response reaching deep bass, which translates to its actual sound. Despite its compact size, the MG8 delivers a surprisingly full and punchy sound due to its robust build and long travel. Additionally, the MG8 maintains exceptional precision, as expected from a smaller woofer. Switching to the closed MG10, we debated which offered a crisper and more impactful sound. Both excel and will undoubtedly please SQ enthusiasts. We ultimately favor the MG10, which offers slightly more controlled punch and a drier sound compared to the smaller reflex woofer. However, the MG12 proves that even more pressure and level are achievable. Without sacrificing sound quality, the diaphragm area of the MG12 delivers even more SPL. While the MG10 might be considered the happy medium, the final choice rests with you at your local Musway dealer.

Conclusion:

The Musway MG subwoofers impress all along the line. They offer excellent workmanship, high-quality materials, and impressive sound performance.

		2/2024	2/2024	2/2024
Subwoo	fers	Musway MG8	Musway MG10	Musway MG12
Price Distribution Hotline		around 250 euros Audio design Kronau 07253 9465-0	around 300 euros Audio design Kronau 07253 9465-0	around 350 euros Audio design Kronau 07253 9465-0
Internet: www.		musway.de	musway.de	musway.de
Evaluatio	n		7	B
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
Labor	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

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	15.0kg	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	2.08 mH	2.29 mH	2.52 mH
Voice coil diameter	50 mm	64 mm	76 mm
Membrane surface	255 cm2	333 cm2	491 cm2
Resonance frequency	58Hz	39Hz	33Hz
Mechanical Quality Factor (Qms)	9.28	8.20	7.74
Electrical quality factor (Qes)	0.88	0.76	0.65
Total quality factor (Qts)	0.80	0.70	0.60
Equivalent volume (Vas)	7.0 L	16.9 L	34.5L
Moving mass (Mms)	97 g	153 g	228g
Rms	3.82 kg/s	4.58 kg/s	6.10 kg/s
Cms	0.08mm/ N	0.11mm/ N	0.10mm/ N
Bxl	12.21 Tm	13.40 Tm	16.41 Tm
Sound pressure 1 W, 1 m	84 dB	84 dB	85dB
Performance recommendation	200 - 400W	300 – 500 W g	300 - 700W
Test case	BR 17.5 I	g 19 l	g 31 l
Reflex channel (dxl)	7 x 22 cm	-	-

Upper class 1.2 Top class 1.2 Top class 1.2

CAR_HIFI_2/24
Price / offer: Very good
Price/Offer: Very Good

Top class 1.2

CAR_HIFI_2/24
Price/Offer: Very Good

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