

# MOVER

Low frequency direct drive / tactile transducer

The MOVER is a patented low-frequency direct drive/tactile transducer.

Through haptic perception, the human body can pick up the most minute vibrations, and bone conduction stimulates the inner ear which translates these into perceivable frequencies, thus allowing for deeper, richer sound experiences.

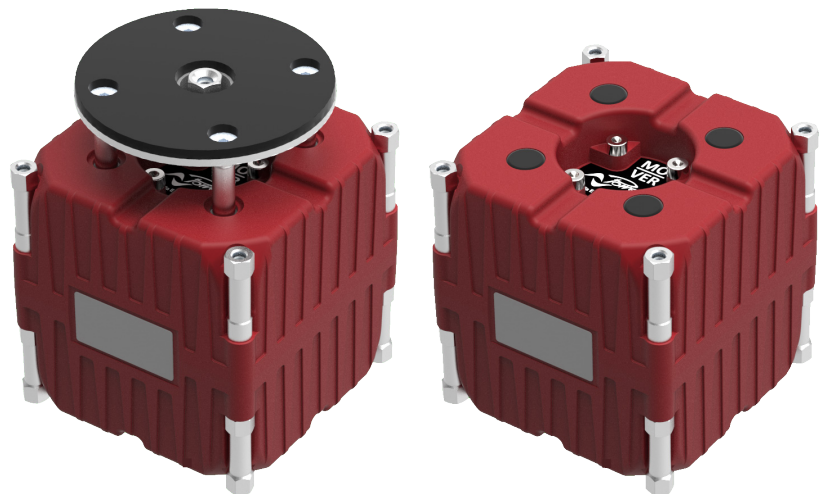
Despite its compact design, the MOVER packs a serious punch, allowing for scalability in larger projects, as well as miniaturization in more circumscribed setups.

Its uses are not confined to the audio realm: vibrating floors and warning systems are examples of other possible applications.

The MOVER is extraordinarily efficient, meaning that it can be easily coupled with a surface, to work its magic.

For more efficiency and more dramatic effects, it can also be used in direct drive applications. Here it is anchored to an immovable surface, and the moving magnet is connected to a movable surface, such as a floating floor or a chair.

As an example; 4 motors in parallel can drive a platform with 4 persons using a total power of 100 W at 5 Hz to simulate riding a bus.



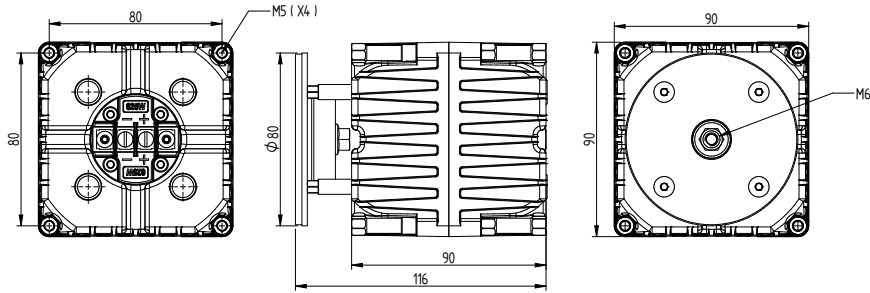
- ▶ 4D cinemas
- ▶ High end home cinemas
- ▶ Vibrating acoustic floors
- ▶ Theme parks
- ▶ Gaming
- ▶ Industrial applications

- ▶ Very high power tactile transducer.
- ▶ High efficiency.
- ▶ High mechanical power.
- ▶ High-quality magnet
- ▶ Very high ratio between moving mass and total mass.
- ▶ Compact design.
- ▶ Ultra-Low frequency extension.
- ▶ DC moving capabilities
- ▶ No mounting plane limitations.
- ▶ Adaptable for various purposes.
- ▶ Two versions available with different impedances, depending on usage conditions.
- ▶ External coupler allows to connect the transducer's moving mass to the receiving surface.
- ▶ Thermal protection: internal thermal switch.



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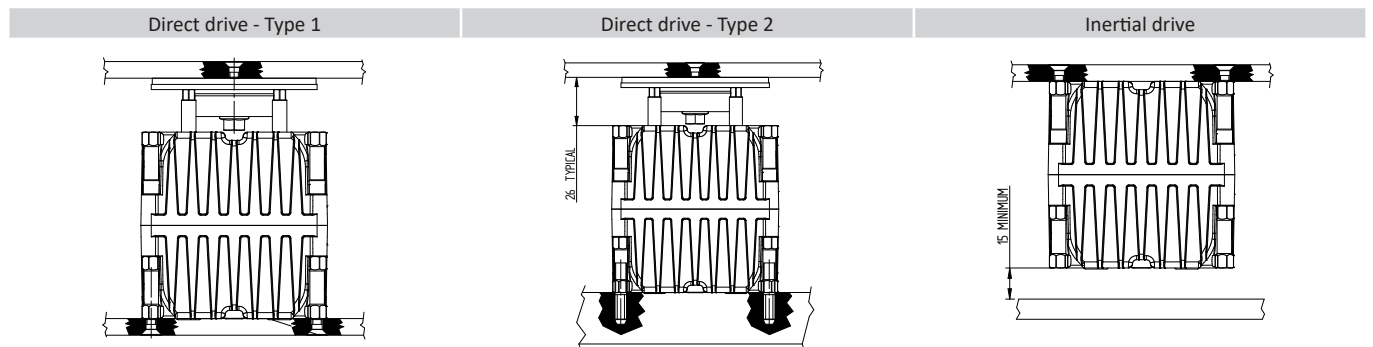


## Specifications

	Direct Drive MOVER		Inertial Drive MOVER		
	4 Ω - DD	12 Ω - DD	4 Ω - ID	12 Ω - DD	
Total Mass	2570		2460		g
	5.67		5.42		lbs
Moving Mass	1385		1275		g
	3.05		2.81		lbs
Mms/Mtot	0.54		0.52		--
Nominal Impedance	4	12	4	12	Ω
Resonance frequency	≈ 40 <sup>(3)</sup>				Hz
Max Impedance at Fs	≈ 18	≈ 50	≈ 18	≈ 50	Ω
Suspension Compliance	± 0.017				mm/N
	± 0.001				in/N
Linear Mass Displacement	± 6				mm
	± 0.24 (1/4)				in
Peak Mass Displacement	± 10				mm
	± 0.39 (3/8)				in
DC Resistance	3.5	8.9	3.5	8.9	Ω
Coil Inductance @ 100 Hz	9	26	9	26	mH
Nominal Bl	32	52	32	52	Tm
Motor Strength Factor	≈ 290				(Tm) <sup>2</sup> /Ω
Frequency Response	0 - 500				Hz
Program Power	5 - 150				W
Peak Power	625				W

Fs differences between DD and ID, due to different masses, is negligible (< 2 Hz).  
AES2-2012 Power Rating: pink noise, 12 dB crest factor. Moving mass free, unloaded.

## Application Examples



Please note that the portrayed configuration examples do not cover all possible applications.  
Power ratings could vary depending on acoustic design and specifications.  
Contact Powersoft for support in selecting the ideal solution for your specific needs.  
Data subject to change without notice

