

Empulse m90

Compatibility Check for Rigid & Folding Wheelchairs

The Empulse M90 is compatible with rigid and folding wheelchairs with integrated or removable footrests. To ensure the compatibility of the Empulse M90 to your wheelchair, please follow the compatibility check guidance below.



1. **Rear Wheel Size** - The M90 is compatible with wheelchairs with a rear wheel size of:
 - **24" (540) Wheels**
2. **Camber** - The M90 is compatible for wheelchairs with a camber of:
 - **0°**
3. **Caster** – The M90 is compatible with all caster sizes. However, 5" or larger casters are recommended to improve stability and obstacle deflection at the M90's top speed.
4. **Rear Seat Height** – The M90 is compatible with most rear seat heights designed for 24" wheels.
 - For rear seat heights below 16" (406 mm), adjustments to the center of gravity, armrest, and/or side guard may be required to avoid interference with the M90 motor. Sunrise Medical cannot guarantee compatibility for all wheelchair configurations.

Rear Seat Height		
Inches	Millimeters	
< 16	406	Go
17	432	Go
18	457	Go
19	483	Go
20	508	Go

5. **M90 Dual Controller** – 1.2" (30 mm) of space is needed along the wheelchairs frame to mount the M90 controller. This controller should be mounted so that it is easily accessible to the rider.
6. **Handrims** – Only tab mount handrims are compatible with the M90. They must be mounted in a standard or wide position. Narrow positions are not compatible.
7. **Tires** – Compatible with all 24" (540) tires. Tire diameter, tread, and width will affect the M90's performance. For optimal performance the Schwalbe Marathon Plus is recommended.

8. General NoGo's – Please ensure your wheelchair is not equipped with any of the following parts, as they create a NoGo:

- Rear Suspension
- One-Arm Drive
- Drum Brakes
- Carbon Camber Tubes

9. Recommendations – The following items do not cause a Go or a No Go, but we recommend following the guidance for optimal device performance without limitations.

- Anti-Tippers – It is recommended to use anti-tips on the wheelchair when using with the Empulse M90.
- Carbon frames – carbon frames are not recommended.

Compatibility – Only chairs listed on the order form are compatible with the M90. Specific mounting hardware is provide based on the chair selected. For current compatibility see the Empulse M90 order form found on www.sunrisemedical.com