

# 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.

*Sunrise Medical is not responsible for the compatibility and alignment with competitor chairs and is not obligated to update compatibility information for competitor products. This guide provides recommendations for the required mounting hardware for specific wheelchairs, but it is essential to evaluate the chair's configuration to ensure full compatibility with the M90.*

<p>Specific hardware will be provided for the chairs listed below. Chair models can be selected on the M90 order form when ordering an M90.</p>			
<b>Quickie Wheelchairs</b>			
<b><u>Rigid</u></b>	<b><u>Folding</u></b>	<b><u>Tilt</u></b>	<b><u>Pediatric</u></b>
Nitrum	*QS5 X	IRIS	ZIPPIE GS
5R	QUICKIE 2		ZIPPIE Zone
Qri	QXi		ZIPPIE X'Cape
GP	QX		ZIPPIE IRIS
7R	QUICKIE 2 Lite		
RGK -The Empulse M90 works with select RGK models. Contact your local RGK representative for details.	*QS5 X - 14" and 20" Rear Seat HeightS are not compatible		
<b>TiLite Wheelchairs - Coming Soon</b>			
<b><u>Rigid</u></b>	<b><u>Folding</u></b>	<b><u>Tilt</u></b>	<b><u>Pediatric</u></b>
ZRA	AeroX		
ZR	2GX		
Aero T	X		
Aero Z			
TR			
TRA			
<b>Ki Mobility Wheelchairs - Coming Soon</b>			
<b><u>Rigid</u></b>	<b><u>Folding</u></b>	<b><u>Tilt</u></b>	<b><u>Pediatric</u></b>
Rogue	Ki Mobility Catalyst ST	Ki Mobility Focus CR	
Ethos	Ki Mobility Catalyst 5	Ki Mobility Liberty FT	
<b>Motion Composites Wheelchairs - Coming Soon</b>			
<b><u>Rigid</u></b>	<b><u>Folding</u></b>	<b><u>Tilt</u></b>	<b><u>Pediatric</u></b>
Apex A	Veloce		
	Helio C2		
	Helio A7		
	Helio A6		