



Empulse®



E | m90

SLEEK, STYLISH POWER FOR YOUR
MANUAL WHEELCHAIR,
WITHOUT WEIGHING YOU DOWN.

SEAMLESS POWER INTEGRATION

M90 is a wheel add-on power assist for your manual wheelchair. Its fully-integrated hub design provides seamless power, keeping your chair sleek and compact, without extra components or wires hanging off your ride.

WIRELESS CONTROL

Position the wireless controller where you want it with either the quick-release frame mount or thigh strap.

RIDE YOUR WAY

With the flip of a switch, engage the M90 power assist or click to free-roll for a zero-resistance manual drive.

Use the tires and handrims you prefer.

The quick-release wheels are attached and removed the same as standard wheels.

SAFE, EASY AND INTELLIGENT

Terrain adjustment, cruise control, and downhill speed control make driving with M90 safe, simple, and intuitive.

REMOVABLE BATTERIES

Charge the batteries off-chair, and keep your M90 on-chair. Extend your range with an extra set of batteries.

DUAL CONTROLLER

Drive it two ways: using the Speed Controller with Handrim Steering, similar to cruise control in a car, or the All-Way Toggle, similar to a power wheelchair.

BY FAR THE LIGHTEST IN ITS CLASS

Both compact and light – the M90 complete package weighs only 26.2 lbs – nothing excluded! Each wheel weighs just 11.7 lbs including battery.



LEARN MORE:



M90 Webpage

TECHNICAL DATA

HCPCS Code	E0986
Weight Capacity	265 lbs. (120 kg)
Wheelchair Rear Wheel Size	24" (540 mm)
Battery Range ¹	9.3 mi (15 km)
Max Slope	6°
Total Device Weight	26 lbs. (12 kg)
Each Wheel, with battery	13 lbs. (6 kg)
Each Wheel, w/o battery	12 lbs. (5 kg)
Battery Weight	1.3 lbs. (0.6 kg)
Frame Compatibility	Folding & Rigid Frames, including Tilt-In-Space Wheelchairs
Max Speed	3.7 MPH (6 kph)
Electronics	Bluetooth / Wireless
Batteries Flight friendly ²	Lithium Ion (<100Wh dangerous goods limit)
Motors	150 W / 24 V

1. Range is dependent on the ground surface, the weight of the rider, driving behavior, temperature and terrain.

2. Always verify with your airline for current regulations.

⚠ WARNING

Using a power assist device can change your center-of-gravity or the way your chair rides. To reduce any risk of tip-over or fall, consult your healthcare provider about proper wheelchair configuration, including use of anti-tips and any other necessary adjustments.



This document can be viewed in PDF format at www.SunriseMedical.com.
Learn more.

SUNRISE MEDICAL CARES ABOUT YOUR SAFETY.
Please read your owner's manual for safe operating instructions and maintenance guidelines.



Sunrise Medical (US), LLC
MK-130153 Rev.A ©06.2025



800.333.4000

www.SunriseMedical.com

