Empulse M90

EISP10

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Technical Data Overview			
Maximum User Weight	120 Kg (265 lbs)	Motor	150 W
Wheelchair Rear Wheel Sizes	24" (540)	Operating Voltage	24V
Total Device Weight	12 kg (26.4 lbs)	Maximum Motor Noise	60Db
Per Battery Weight (4.0Ah)	0.6 kg (1.3 lbs)	Battery Type	Lithium Ion
Optimal Range Per Charge	15 km (9.3 mi)	Device Charger Type	28V DC 5.7A 160W
Maximum Speed	6 kph (3.7 mph)	Docking Charger	28V DC 1.5A IP44
Maximum Slope	6°	Control Box	3.7V 1Ah 3.7Wh
Motor Wheel Size	24" (540) Tires	Bluetooth Standard	BLE (125Kbps Coded PHY)

BASE

✔ OPTION		Description	RETAIL
Empulse M90 Option			$
☐ 139MW94		**Empulse M90 Wheels** M90 Wheels, Dual Controller, Mounting Harware, Quick Release Axles, and Device Charger	$ 11,995.00
		☑ **Batteries** 15km (9.3 mi) range	$ 500.00
Options and Accessories			$
☐ 139AG44	Additional Batteries	Includes two interchangeable M90 batteries, usable with either wheel.	$ 650.00
☐ 139BJ39	Additional Docking Charger	Includes docking charger, capable of charging two M90 batteries.	$ 600.00
☐ 139JM50	Swing Away Mount Left Hand	Left hand swing away mount for M90 Dual Controller.	$ 550.00
☐ 139JM51	Swing Away Mount Right Hand	Right hand swing away mount for M90 Dual Controller.	$ 550.00
☐ 139NP02	Wrist support	Additional wrist and hand support for the M90 Dual Controller.	$ 200.00
☐ 139DI56	Thigh Strap	Includes thigh strap and hardware, to mount the Dual Controller to the rider's leg.	$ 75.00
☐ 1399A33	Docking Tray	Docking tray for the M90 Dual Controller	$ 50.00
☐ 139EM59	Adjustable Controller Mount	Frame mount for Dual Controller, can be adjusted for height an angle	$ 213.00

WHEELCHAIR

✔	OPTION	DESCRIPTION		DESCRIPTION		DESCRIPTION	
Sunrise Medical Wheelchair Models - Specific mounting hardware will be provided for the chair selected							$
Select the specific model of the wheelchair the M90 Wheels will be installed on. All M90 mounting kits include the maximum amount of spacers and wheel lock extensions allowed for each chair model, not all spacers and/or extensions are required for every chairs configuration.							
Quickie Rigid Chairs							NC
☐	1399V58	Quickie Nitrum	☐	1399V56	Quickie 5R	☐ 1399V59	Quickie Qri
☐	1399V80	Quickie GP	*RGK -The Empulse M90 works with select RGK models. Contact your local RGK representative for details.*				
☐	1399V66	Quickie 7R					
Quickie Folding Chairs							NC
☐	1399V69	Quickie QS5X	☐	1399V68	Quickie 2	☐ 1399V60	Quickie Qxi
☐	1399V77	Quickie Qx	☐	1399V78	Quickie 2 Lite		
Quickie Tilt In Space Chairs							NC
☐	1399V05	Quickie Iris					
ZIPPIE Pediatric - The Empulse M90 is only available in a 24" (540) wheel.							NC
☐	1399V04	ZIPPIE GS	☐	1399V64	ZIPPIE Zone	☐ 1399V63	ZIPPIE X'Cape
☐	1399V33	ZIPPIE Iris					
Wheelchair Wheel Size							$
M90 Wheels are **only** offered in 24" (540) wheels M90 Wheels are **only** compatible with **0°** of camber							
☐	139WS6	24" Wheel Size (540 Wheels)					NC

Handrim	$		**Handrim**	$
Select only one Handrim option (24" Wheels Only)				
☐ 139HR45	Powder Coated Aluminum Black	NC	☐ 139HR39	Ellipse 3R	$ 550.00
☐ 139HR4	Plastic Coated	$ 146.00	☐ 139HR22	Natural Fit - Standard Grip	$ 374.00
☐ 139HR7	Omit Handrim	NC			

Tire	$		**Tire**	$
Select only one Tire option (24" Wheels Only)				
☐ 139RT21	Pneumatic Schwalbe Marathon Plus	$ 157.00	☐ 139RT25	Primo Orion Poly	$ 271.00

Empulse M90 Compatibility Reference

For complete Empulse M90 compatibility guide visit the Empulse M90 webpage and Empulse M90 Compatibility Guide.

General Compatability
- The M90 is only compatible with manual wheelchairs that use a 24" (540mm) wheel.
- The M90 requires a camber of zero degrees.
- Rear seat heright of 16" of greater.

No-Gos
- Iris with SPHA low Mount or Dual Post armrests.
- Quickie QS5 X at a 19.5 rear seat height.
- Wheelchairs with Rear Suspension
- Wheelchairs with One Arm Drive
- Wheelchairs with Drum Brakes
- Wheelchairs with Carbon Camber Tubes

Empulse M90 Reference Chart

All M90 mounting kits include the maximum amount of spacers and wheel lock extensions allowed for each chair model, not all spacers and/or extensions are required for every chairs configuration.
GO * To make room for armrests that attach near the M90 motor, the M90 will need to be moved away from the wheelchairs frame, and will increase the chairs overall width.

	Single Post Height Adjustable		Tubular Padded Swing Away	T-Post	Flip Back		Flip Up	
	High or STD Mount	Flip Back			Fixed	Classic Height Adjustable	Adjustable Locking	Length Adjustable Locking
Nitrum	GO *	N/A	GO	GO *	N/A	N/A	N/A	N/A
Zone	GO *	N/A	N/A	GO *	N/A	N/A	N/A	N/A
Q7R	GO *	N/A	GO	N/A	N/A	N/A	N/A	N/A
QS5 X	GO *	GO *	GO	N/A	N/A	N/A	N/A	N/A
Q2	GO *	GO *	GO	N/A	GO *	GO *	GO *	GO *
5R	No-Go	No-Go	GO	N/A	N/A	N/A	N/A	N/A
QRi	No-Go	No-Go	GO	N/A	N/A	N/A	N/A	N/A
GP	No-Go	No-Go	GO	N/A	N/A	N/A	N/A	N/A
Qx / Qxi	No-Go	No-Go	GO	N/A	No-Go	No-Go	N/A	N/A
Q2 Lite	No-Go	No-Go	GO	N/A	N/A	No-Go	N/A	N/A