

Empulse M90 Compatibility Guide



08/2025

Wheelchair brand / model
Sunrise Medical
IRIS
QS5 X
Neon ²
Xenon ²
SR45
Helium
Nitrum
Easy 200
Easy 300
Easy Life ECO
Easy Life R
Easy Life RT
Easy Life T
Easy Life i
Easy Life
Argon ²
Zippie IRIS
Simba
Youngster 3
Helix ²
Rubix ²
Basix ²
Parix ²
Style X
Style X Ultra
Ibis



Please note: The above list is an indication of wheelchair models the M90 can be mounted on. However, frame shape, CoG, wheel-size and seat-depth are of influence. Therefore it is essential to try and test to be 100% sure! Or ask your supplier for advice. The compatibility guide only shows wheelchairs with a signed combination agreement. Find docking information on the next page.

Compatibility Check for Rigid & Folding Wheelchairs

1 - Combination agreement - Please check, if the combination between the Empulse M90 and your specific wheelchair is approved. The combination overview can be found on www.sunrisemedical.eu.

2 - Technical requirements

- Rear wheel size 24"
- Wheel camber 0°
- Anti-Tips for safety reasons
- Please ensure enough space on the front frame of the wheelchair to attach the M90 Dual Controller mounting bracket (30 mm)

3 - Technical No-Gos

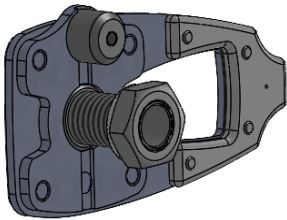
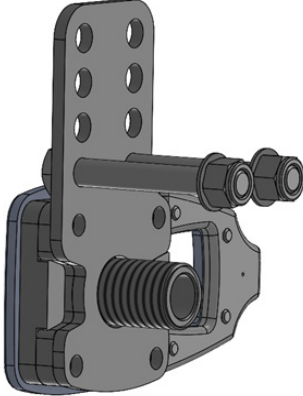
- Carbon axle
- Rear Suspension
- If the axle diameter of the existing manual wheel is not equal to 12.7 mm, there's a possibility to order a manual wheel from Sunrise Medical which will be compatible with the new axle assembly
- Combination of M90 and drum brake not possible
- Xenon² (both FF and SA) and Neon² - Combination of M90 and lightweight adapter is not possible.

Note: Additional "No-Go" tables are listed from page three onwards.

4 - Mounting Kit

- Two plates will be permanently mounted onto the axle mounting, still allowing the use of manual wheels
- The plate for the left-hand side of the chair contains a magnet which needs to be mounted pointing to the front or top of the chair.
- The plate for the right-hand side comes without a magnet and needs to be mounted pointing to the rear or bottom of the chair.



Folding chairs with axle plates	Rigid chairs with axle tube
 • Mounting solution with torque support pin • diameter and form fitting to wheelchair specific axle plate	 • Torque support plate with pins or screws, possibly axle sleeve • form and design fitting to specific wheelchair

QS5 X


Sideguards & Armrests	Options#	Rear Seat Height	COG				
			25	40	50	60	75
Desk sideguard, armpad (250 mm), fixed, flip-up, removable & Desk sideguard, armpad (250 mm), height-adjustable, flip-up, removable & Desk sideguard, armpad (310 mm), fixed, flip-up, removable & Desk sideguard, armpad (310 mm), height-adjustable, flip-up, removable & Desk sideguard, flip-up, removable	QSC040001 & QSC040002 & QSC040003 & QSC040004 & QSC040005	370	NoGo	NoGo	NoGo	NoGo	NoGo
		380	Go	Go	Go	Go	Go
		390	Go	Go	Go	Go	Go
		400	Go	Go	Go	Go	Go
		410	Go	Go	Go	Go	Go
		420	Go	Go	Go	Go	Go
		430 & 440	Go	Go	Go	Go	Go
		450	Go	Go	Go	Go	Go
		460	Go	Go	Go	Go	Go
		470	Go	Go	Go	Go	Go
		480 & 490	Go	Go	Go	Go	Go
		500	NoGo	NoGo	NoGo	NoGo	NoGo
Single-post sideguard, armpad (250 mm), height-adjustable, removable & Single-post sideguard, armpad (360 mm), height-adjustable, removable	QSC040050 & QSC040051	370	NoGo	NoGo	NoGo	NoGo	NoGo
		380	NoGo	NoGo	Go	Go	Go
		390	NoGo	Go	Go	Go	Go
		400	Go	Go	Go	Go	Go
		410	Go	Go	Go	Go	Go
		420	Go	Go	Go	Go	Go
		430 & 440	Go	Go	Go	Go	Go
		450	Go	Go	Go	Go	Go
		460	Go	Go	Go	Go	Go
		470	Go	Go	Go	Go	Go
		480 & 490	Go	Go	Go	Go	Go
		500	NoGo	NoGo	NoGo	NoGo	NoGo
Single-post sideguard, armpad (330 mm), depth adjustable, tool height-adjustable, removable	QSC040052	370	NoGo	NoGo	NoGo	NoGo	NoGo
		380	NoGo	NoGo	Go	Go	Go
		390	NoGo	Go	Go	Go	Go
		400	Go	Go	Go	Go	Go
		410	Go	Go	Go	Go	Go
		420	Go	Go	Go	Go	Go
		430 & 440	Go	Go	Go	Go	Go
		450	Go	Go	Go	Go	Go
		460	Go	Go	Go	Go	Go
		470	Go	Go	Go	Go	Go
		480 & 490	Go	Go	Go	Go	Go
		500	NoGo	NoGo	NoGo	NoGo	NoGo

QS5 X

Sideguards & Armrests	Options#	Rear Seat Height	COG				
Sideguard, aluminium , cold weather protection (in frame colour) & Sideguard, aluminium , fender, cold weather protection (in frame colour) & Sideguard, carbon fibre, fender, cold weather protection (black) & Sideguard, composite, removable, 210 mm high (310 mm long), black & Tubular armrest. Alu, swing away, padded, removable	QSC040102 &		25	40	50	60	75
		370	NoGo	NoGo	NoGo	NoGo	NoGo
	QSC040103 &	380	Go	Go	Go	Go	Go
		390	Go	Go	Go	Go	Go
	QSC040104 &	400	Go	Go	Go	Go	Go
		410	Go	Go	Go	Go	Go
	QSC040107 &	420	Go	Go	Go	Go	Go
		430 & 440	Go	Go	Go	Go	Go
	QSC040117	450	Go	Go	Go	Go	Go
		460	Go	Go	Go	Go	Go
		470	Go	Go	Go	Go	Go
		480 & 490	Go	Go	Go	Go	Go
		500	NoGo	NoGo	NoGo	NoGo	NoGo

NoGo

Easy Life i

Sideguards & Armrests	Options#	Rear Seat Height	COG					
Single post tool height adjustable, short & long armpad - length adjustable	LII040052		0	10	20	30	40	50
		400	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		410	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		420	Go	NoGo	NoGo	NoGo	NoGo	NoGo
		430	Go	Go	NoGo	NoGo	NoGo	NoGo
		440	Go	Go	NoGo	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo	NoGo	NoGo
		460	Go	Go	NoGo	NoGo	NoGo	NoGo
		470	Go	Go	NoGo	NoGo	NoGo	NoGo
		480	Go	Go	NoGo	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo	NoGo	NoGo
		500	Go	Go	NoGo	NoGo	NoGo	NoGo
		510	Go	Go	NoGo	NoGo	NoGo	NoGo
Height adjustable armrest with long and short pad sliding	LII040054		0	10	20	30	40	50
		400	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		410	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		420	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		430	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo	NoGo	NoGo
		460	Go	Go	NoGo	NoGo	NoGo	NoGo
		470	Go	Go	Go	NoGo	NoGo	NoGo
		480	Go	Go	Go	Go	NoGo	NoGo
		490	Go	Go	Go	Go	Go	NoGo
		500	Go	Go	Go	Go	Go	Go
		510	Go	Go	Go	Go	Go	Go

Easy Life ECO

Sideguards & Armrests	Options#	Rear Seat Height	COG					
Single post tool height adjustable, short & long armpad - length adjustable	LEC040052		0	10	20	30	40	50
		400	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		410	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		420	Go	NoGo	NoGo	NoGo	NoGo	NoGo
		430	Go	Go	NoGo	NoGo	NoGo	NoGo
		440	Go	Go	NoGo	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo	NoGo	NoGo
		460	Go	Go	NoGo	NoGo	NoGo	NoGo
		470	Go	Go	NoGo	NoGo	NoGo	NoGo
		480	Go	Go	NoGo	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo	NoGo	NoGo
		500	Go	Go	NoGo	NoGo	NoGo	NoGo
		510	Go	Go	NoGo	NoGo	NoGo	NoGo
Height adjustable armrest with long and short pad sliding	LEC040054		0	10	20	30	40	50
		400	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		410	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		420	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		430	NoGo	NoGo	NoGo	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo	NoGo	NoGo
		460	Go	Go	NoGo	NoGo	NoGo	NoGo
		470	Go	Go	Go	NoGo	NoGo	NoGo
		480	Go	Go	Go	Go	NoGo	NoGo
		490	Go	Go	Go	Go	Go	NoGo
		500	Go	Go	Go	Go	Go	Go
		510	Go	Go	Go	Go	Go	Go

Easy Life

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Desk sideguard, armpad (250 mm), fixed, flip-up, removable & Desk sideguard, armpad (250 mm), height-adjustable, flip-up, removable & Desk sideguard, armpad (310 mm), fixed, flip-up, removable & Desk sideguard, armpad (310 mm), height-adjustable, flip-up, removable & Desk sideguard, flip-up, removable	LFE040001 & LFE040002 & LFE040003 & LFE040004 & LFE040005		23	43	63	83
		430	NoGo	NoGo	NoGo	Go
		440	NoGo	NoGo	NoGo	Go
		460	NoGo	NoGo	Go	Go
		470	NoGo	NoGo	Go	Go
		480	NoGo	Go	Go	Go
		490	Go	Go	Go	Go
		500	Go	Go	Go	Go
Single-post sideguard, armpad (330 mm), depth adjustable, tool height-adjustable, removable	LFE040052		23	43	63	83
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	Go	NoGo	NoGo	NoGo
		470	Go	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	NoGo	NoGo
Single-post sideguard, armpad (250 mm), height-adjustable, removable & Single-post sideguard, armpad (360 mm), height-adjustable, removable	LFE040050 & LFE040051		23	43	63	83
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	NoGo	NoGo	NoGo	NoGo
		470	NoGo	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	Go	NoGo

Easy Life R

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Single-post sideguard, depth adjustable, tool height-adjustable, removable, armpad (330 mm)	LRF040052		23	43	63	83
		390	NoGo	NoGo	NoGo	NoGo
		400	NoGo	NoGo	NoGo	NoGo
		420	Go	NoGo	NoGo	NoGo
		430	Go	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo
		460	Go	Go	NoGo	NoGo
Single-post sideguard, height-adjustable, removable, armpad (250 mm), & Single-post sideguard, height-adjustable, removable, armpad (360 mm)	LRF040050 & LRF040051		23	43	63	83
		390	NoGo	NoGo	NoGo	NoGo
		400	NoGo	NoGo	NoGo	NoGo
		420	NoGo	NoGo	NoGo	NoGo
		430	NoGo	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo
		460	Go	Go	Go	NoGo

Life T

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Desk sideguard, armpad (250 mm), fixed, flip-up, removable & Desk sideguard, armpad (250 mm), height-adjustable, flip-up, removable & Desk sideguard, flip-up, removable & Desk sideguard, armpad (360 mm), fixed, flip-up, removable & Desk sideguard, armpad (360 mm), height-adjustable, flip-up, removable	LFT040001 & LFT040002 & LFT040005 & LFT040006 & LFT040007		23	43	63	83
		430	NoGo	NoGo	NoGo	Go
		440	NoGo	NoGo	NoGo	Go
		460	NoGo	NoGo	Go	Go
		470	NoGo	NoGo	Go	Go
		480	NoGo	Go	Go	Go
		490	Go	Go	Go	Go
		500	Go	Go	Go	Go
Single-post sideguard, armpad (330 mm), depth adjustable, tool height-adjustable, removable	LFT040052		23	43	63	83
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	Go	NoGo	NoGo	NoGo
		470	Go	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	NoGo	NoGo
Single-post sideguard, armpad (250 mm), height-adjustable, removable & Single-post sideguard, armpad (360 mm), height-adjustable, removable	LFT040050 & LFT040051		23	43	63	83
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	NoGo	NoGo	NoGo	NoGo
		470	NoGo	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	Go	NoGo

Life RT

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Single-post sideguard, depth adjustable, tool height-adjustable, removable, armpad (330 mm)	LRT040052		23	43	63	83
		390	NoGo	NoGo	NoGo	NoGo
		400	NoGo	NoGo	NoGo	NoGo
		420	Go	NoGo	NoGo	NoGo
		430	Go	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo
		460	Go	Go	NoGo	NoGo
Single-post sideguard, height-adjustable, removable, armpad (250 mm), & Single-post sideguard, height-adjustable, removable, armpad (360 mm)	LRT040050 & LRT040051		23	43	63	83
		390	NoGo	NoGo	NoGo	NoGo
		400	NoGo	NoGo	NoGo	NoGo
		420	NoGo	NoGo	NoGo	NoGo
		430	NoGo	NoGo	NoGo	NoGo
		440	Go	NoGo	NoGo	NoGo
		450	Go	Go	NoGo	NoGo
		460	Go	Go	Go	NoGo

Easy 200

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Desk armrest height-adjustable with short pad 250 mm & Desk armrest height-adjustable with long pad 310 mm & Desk armrest fix height with short pad 250 mm & Desk armrest fix height with wit long pad 310 mm & Desk armrest fix height, without pad	ESY040003 & ESY040004 & ESY040005 & ESY040006 & ESY040007		25	45	65	85
		430	NoGo	NoGo	NoGo	Go
		440	NoGo	NoGo	NoGo	Go
		460	NoGo	NoGo	Go	Go
		470	NoGo	NoGo	Go	Go
		480	NoGo	Go	Go	Go
		490	Go	Go	Go	Go
Single Post Height Adjustable - Adult length 250 mm & Single Post Height Adjustable - Adult length 360 mm	ESY040001 & ESY040002		25	45	65	85
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	NoGo	NoGo	NoGo	NoGo
		470	NoGo	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	Go	NoGo

Easy 300

Sideguards & Armrests	Options#	Rear Seat Height	COG			
Desk armrest height-adjustable with short pad 250 mm & Desk armrest height-adjustable with long pad 310 mm & Desk armrest fix height with short pad 250 mm & Desk armrest fix height with wit long pad 310 mm & Desk armrest fix height, without pad	ESY040003 & ESY040004 & ESY040005 & ESY040006 & ESY040007		25	45	65	85
		430	NoGo	NoGo	NoGo	Go
		440	NoGo	NoGo	NoGo	Go
		460	NoGo	NoGo	Go	Go
		470	NoGo	NoGo	Go	Go
		480	NoGo	Go	Go	Go
		490	Go	Go	Go	Go
Single Post Height Adjustable - Adult length 250 mm & Single Post Height Adjustable - Adult length 360 mm	ESY040001 & ESY040002		25	45	65	85
		430	NoGo	NoGo	NoGo	NoGo
		440	NoGo	NoGo	NoGo	NoGo
		460	NoGo	NoGo	NoGo	NoGo
		470	NoGo	NoGo	NoGo	NoGo
		480	Go	NoGo	NoGo	NoGo
		490	Go	Go	NoGo	NoGo
		500	Go	Go	Go	NoGo