



R90 Compatibility Guide



02/2025

Compatibility Check for Rigid & Folding Wheelchairs

6-Step-Compatibility-Check

The Empulse R90 is compatible to rigid and folding wheelchairs with integrated or removable footrests. To ensure the compatibility of the Empulse R90 to your wheelchair, please follow the compatibility check guidance below. Please consider that there is an extended check for folding wheelchairs needed.

- **1 Combination agreement** Please check, if the combination between the Empulse R90 and your specific wheelchair is approved. The combination overview can be found on www.sunrisemedical.eu.
- 2 Back Wheel Size The R90 is compatible to wheelchairs with a backwheel size of:
 - 24"
 - 25"
 - 26"

Please select your backwheel size on the order form.

- 3 Camber The R90 is compatible to wheelchairs with a camber of:
 - 0°
 - 1°
 - 2°
 - 3°

The R90 is compatible only with rigid chairs that have a straight axle. If the axle is not straight and has a "V" shape the R90 is not compatible.





Compatibility Check for Rigid & Folding Wheelchairs

4 - Rear Seat Height - Please check your combination of COG and back seat height in the matrix below and double-proof by measuring the distance from the seatsling to the center of the axle.

NSH (Rew Seel Height) (Inches)	RSH (Roar Soat Height) (irm)	24" Rear Wheel (540 wheel)		25" Rear Wheel (559 wheel)			26" Rear Wheel (590 wheel)			
										0.37(0.60mm)
		13	N/A		901000		H0.191	160 (50)	100 (00)	967.665
13.5	N/A		90.00			180.00	80.00			
14	N/A					960-000	907 (00)			
14.5	370		190,00		360.00					
15	380		800-000		NO.000	ACTOR	M(1/00)			
16.5	390- 400		MILLIA	90.00	60.00	90.00	80.00	960,000		160 (10)
16	410			80.00		160.00				
165	420	00	160,000			MULTINA	WG (M)			WHEN
.17	430		86		60	90100	W100			
17	440				60	200,000				360.000
17.5	450	60			00		M0.00			160 (8)
18	460	00		90	00		90.00	00	MOTIO	9000
185	470	00		190	00		00	00		961707
10	400			200	60		00	100		
19.5	490	00		.00	60		60	90		100
20	500	00		(60)	60		60	60		68
20.5	N/A	66		00	60		00	- 00		.00
21	N/A	00		90	00		60	60		- 00
21.5	N/A	0.0		100	60		60	00		00
22	N/A	880		7565	00		66	00		195

^{*}Disclaimer: Please note that not all wheel sizes will be available in all regions.

To doublecheck you can also measure the distance from the middle of the axle to the seat sling of your wheelchair. The measured distance must be in the range mentioned below.

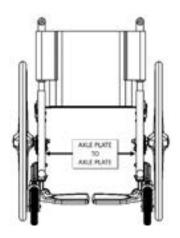
- FOR COG less or equal than 3"/76 mm 2.75"/70 mm min. center axle to seat sling gap
- FOR COG greater than 3"/76 mm 4.63"/118 mm min. center axle to seat sling gap
- **5 General NoGo's** Please check if your wheelchair is equipped with any of the following parts as they create a NoGo
 - Rear Suspension
 - 4 Link Suspension
 - One Arm Drive
 - Please ensure enough space on the front frame of the wheelchair to attach the R90 control box mounting bracket (30 mm)
- **6 Recommendations** The following items do not cause a Go or a NoGo, but we recommend to follow the guidance for optimal device performance without limitations.
 - 3" & 4" castor wheels should not be combined with the R90
 - It is recommended to use anti tips on the wheelchair combined with the Empulse R90





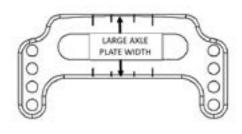
Extended Compatibility Check only for Folding Wheelchairs

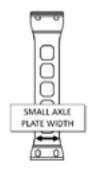
6 - Folding Wheelchair width - For Folding Wheelchair frames please measure the distance from inside axle plate to inside axle plate and choose the correct size of folding axle on the order form. If the distance measured does not fit in the min to max measurements mentioned in the table below means that the R90 does not fit this specific wheelchair (NoGo).



AXLE PLATE TO	AXLE PLATE TO	FOLDING AXLE ASY					
AXLE PLATE WIDTH (in)	AXLE PLATE WIDTH (mm)	X-SMALL	SMALL	MEDIUM	LARGE		
12.0-13.0	300-330	x					
13.1-16.0	330-400		×				
16.1-18.0	400-450			x			
18.1-21.0	450-530				×		

6 - Folding Wheelchair axle plate size - For Folding Wheelchair frames please measure the axle plate width as shown on the pictures below and choose the correct bracket size on the order form. If the distance measured does not fit in the min to max measurements mentioned in the table below means that the R90 does not fit this specific wheelchair (NoGo).





AXLE PLATE	AXLE PLATE	AXLE PLATE ADAPTER				
SIZE (in.)	SIZE (mm.)	SMALL	MEDIUM	LARGE		
1.0-1.5	25-38	x				
1.5-2.0	38-50		x			
2.0-2.25	50-60			x		