



TiLite manual wheelchairs Comparison matrix



TiLite Twist



TiLite Pilot

Pediatric	TiLite Twist	TiLite Pilot
Frame features	1" Aluminum Mono-Tube Adjustable TiFit	1" Carbon/Aluminum Mono-Tube Growable
Seat width	8" – 15"	8" – 15"
Seat depth	8" – 16"	9" – 15"
Front seat height	13" – 20"	12" – 16.5"
Rear seat height	12" – 19.5"	12" – 16.5"
Front frame angle	70°, 80°, or 90°	–
Seat back type	Folding Seat Back Adj. Height 8.5" – 21" Adj. Angle 80° – 101°	Non-Folding Adjustable-Height Rigid Back Adj. Height 2" Adj. Angle 80° – 101°
Center of gravity adjustment	6"	3"
Transit options*	Transit Tie-Down	Transit Tie-Down
Transport weight**	12 lb.	11 lb.
Weight limit	165 lb.	120 lb.

*See Transit Option Flyers and Owners Manuals at www.permobilus.com for specifications, limitations and precautions. **Weights based on 16" x 16" wheelchairs (12" x 12" for youth chairs) with all standard features except rear wheels. For reference, a pair of standard 24" (540) rear wheels weighs 7.2 lb. For youth chairs, a pair of standard 22" (501) rear wheels weighs 7.0 lb. A pair of standard wheel locks weighs 0.9 lb.



	Carbon fiber performance	Titanium performance		Titanium adjustable		Aluminum adjustable		Folding wheelchairs	
	TiLite CR1	TiLite TR	TiLite ZR	TiLite TRA	TiLite ZRA	TiLite Aero T	TiLite Aero Z	TiLite Aero X	TiLite 2GX
Frame features	Carbon fiber elliptical tubing TiFit	1" Titanium Dual-Tube Ultimate TiFit	1.25" Titanium Mono-Tube Ultimate TiFit	1" Titanium Dual-Tube Adjustable TiFit	1.25" Titanium Mono-Tube Adjustable TiFit	1" Aluminum Dual-Tube Adjustable TiFit	1.25" Aluminum Mono-Tube Adjustable TiFit	1" Aluminum Box Frame Modular Design	1" Titanium Box Frame Modular Design
Seat width	13" – 18"	12" – 20"	10" – 20"	12" – 20"	10" – 20"	12" – 20"	10" – 20"	12" – 22"	12" – 22"
Seat depth	13" – 19"	12" – 20"	10" – 20"	12" – 20"	10" – 20"	12" – 20"	10" – 20"	12" – 20"	12" – 20"
Front seat height	17.5" – 20.75"	15" – 21"	16" – 21"	15" – 21"	16" – 21"	15" – 21"	16" – 21"	13.5" – 21.5"	13.5" – 21"
Rear seat height	16.5" – 19"	12.5" – 21"	12.5" – 20"	13" – 21"	12.5" – 20"	13" – 21"	12.5" – 20"	13" – 20"	13" – 20"
Front frame angle	85°	60°, 65°, 70°, 75°, 80°, 85°, or 90°	70°, 75°, 80°, 85°, or 90°	70°, 75°, 80°, 85°, or 90°	70°, 75°, 80°, 85°, or 90°	70°, 75°, 80°, 85°, or 90°	70°, 75°, 80°, 85°, or 90°	Fixed Front 70°, 80°, or 85° Swing Away 70°, 80°, 85°, or 90°	Fixed Front 70°, 80°, or 85° Swing Away 70°, 80°, 85°, or 90°
Seat back type	Folding Seat Back Adj. Height 10" – 17" Adj. Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101° Fixed Seat Back Fixed Height 5" – 20" Fixed Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101° Fixed Seat Back Fixed Height 8" – 20" Fixed Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101°	Folding Seat Back Adj. Height 9.5" – 22" Adj. Angle 80° – 101°	Folding Seat Back Adj. Height 11" – 20.5" Adj. Angle 80° – 101° Fixed Seat Back Adj. Height 11" – 20"	Folding Seat Back Adj. Height 11" – 20.5" Adj. Angle 80° – 101° Fixed Seat Back Adj. Height 11" – 20"
Center of gravity adjustment	2.25" – 5"	5"	2.25"	5"	6"	5"	6"	6"	6"
Transit options*	Unavailable	Q-Strait Lock Down Approved	Transport Bracket	Q-Strait Lock Down Approved	Transit Tie-Down	Q-Strait Lock Down Approved	Transit Tie-Down	Transit Tie-Down Transport Bracket	Transport Bracket
Transport weight**	9 lb.	9.3 lb.	9.3 lb.	11.1 lb.	10.7 lb.	12 lb.	12.4 lb.	Fixed Front — 15.6 lb. Swing Away — 18 lb.	Fixed Front — 13.1 lb. Swing Away — 15.5 lb.
Weight limit	231 lb.	265 lb.	Standard — 265 lb. Heavy Duty — 300 lb.	Standard — 265 lb. Heavy Duty — 350 lb.	Standard — 265 lb. Heavy Duty — 300 lb.	Standard — 265 lb. Heavy Duty — 350 lb.	265 lb.	Standard — 265 lb. Heavy Duty — 350 lb.	Standard — 265 lb. Heavy Duty — 350 lb.

*See Transit Option Flyers and Owners Manuals at www.permobilus.com for specifications, limitations and precautions. **Weights based on 16" x 16" wheelchairs (12" x 12" for youth chairs) with all standard features except rear wheels. For reference, a pair of standard 24" (540) rear wheels weighs 7.2 lb. For youth chairs, a pair of standard 22" (501) rear wheels weighs 7.0 lb. A pair of standard wheel locks weighs 0.9 lb.