

Invacare® Storm Series® Arrow® with TrueTrack Power Wheelchair



Yes, you can.®

Arrow®

- GB™ Motor Technology
- Monroe® Spring Shocks
- MKIV™ Electronics



Anything else is a compromise.™



The Storm Series® Arrow® power wheelchair with TT® TrueTrack technology and MK Series™ power wheelchair electronics has the flexibility and function to accommodate a variety of drivers with diverse needs. Built on the rugged Storm Series H-frame design, the Arrow power wheelchair offers proven, durable construction and Monroe® independent rear suspension for a more comfortable ride.

Features

- MKIV™ A power wheelchair electronics standard
- TT TrueTrack technology (standard) keeps the power wheelchair on a true forward path and reduces driver fatigue
- Gearless-Brushless GB motors for improved battery range
- Monroe independent rear suspension standard for greater user comfort
- Optional shock forks for additional vibration dampening
- Adjustable ASBA (adjustable seat back angle) rehab seat to allow for seat width and depth adjustments without changing the seat pan
- Ability to accommodate multiple powered seating options
- Transport tie-down options available



Upgraded Suspension (standard)

- Independent rear suspension is vertically-oriented for maximum shock absorption
- Monroe Spring Shock system allows for up to 2 inches of movement to absorb impact and provide maximum dampening for all weight capacities



Front Suspension (optional)

- Shock forks, designed for 8" casters, utilize elastomer dampeners that may be changed to provide dampening for all weight capacities

TrueTrack Technology

The patented TT® TrueTrack technology features Gearless-Brushless GB™ motors and motor controller. This feature helps keep the power wheelchair on a true forward path—even on many slopes, thresholds and uneven terrains. TrueTrack minimizes the need for veer correction, diminishing fatigue for joystick and switch drivers.



Gearless-Brushless GB™ Motors

Invacare's Gearless-Brushless GB™ motors are not only a key component of the TT® TrueTrack technology, the design is 75% efficient resulting in 17% more battery range than Invacare's 4-pole motors. Battery range is an important feature for active users and users requiring powered seating systems.

Electronics

MK Series™ electronics have been the foundation for power wheelchair electronics for a number of years. Invacare designs and manufactures its own power wheelchair electronics specifically for the needs of power wheelchair users.



- MKIV A electronics come standard on the Arrow® power wheelchair
- MKIV electronics provide a wealth of programming options to help virtually any user drive safely and confidently
- MKIV electronics interface with an incredible range of driver inputs, including multiple-sized joysticks, Touchpad technology, Sip N' Puff controls and all ASL non-proportional driver controls
- TRCM or TAC powered seating control modules can interface with the MKIV system to allow full control of Invacare® TARSYS® Tilt and Recline powered seating systems
- MKIV auxiliary output module (COM 12/COM 34) offers up to five switch closures and four ports for control of communication devices, computers and other auxiliary devices.
- Patented laptop Invacare Virtual Service™ (IVS) software allows the provider to perform diagnostics on the MKIV™ electronics

Invacare® Transport Tie Down Options

Invacare transport tie down options have been tested to ANSI/RESNA WC Vol. 1 Section 19 and go beyond the traditional "securement" brackets on other wheelchair designs. The transport tie down options include four tie-down locations that have been crash tested and are clearly marked for the caregiver to see. The options also include a battery securement system that prevents batteries from becoming dislodged in the case of an accident.

Invacare order forms will include two transport tie down selections, TRRO* and TRBKTS.** All Invacare wheelchairs with TRRO have been tested and passed the ANSI/RESNA WC Vol. 1 Section 19 standard using a specific seating system and configuration. See order forms and the owners manual for more information.

* TRRO includes four factory-installed transport brackets and a wheelchair anchored pelvic belt. TRRO has been crash-tested in accordance with ANSI/RESNA WC Vol 1 Section 19 Frontal Impact Test requirements for wheelchairs with a 168 lb. crash dummy, which corresponds to a person with a weight of 114 to 209 lb.

** TRBKTS includes four factory-installed wheelchair transport brackets. TRBKTS has not been crash-tested in accordance with WC 19. Use these transport brackets only to secure an unoccupied wheelchair during transport.

As of this date, the Department of Transportation has not approved any tie-down systems for transportation of a user while in a wheelchair, in a moving vehicle of any type. It is Invacare's position that users of wheelchairs should be transferred into appropriate seating in vehicles for transportation and use be made of the restraints made available by the auto industry. Invacare cannot and does not recommend any wheelchair transportation systems.





Yes, you can.®

Seating & Positioning Flexibility

Adjustable ASBA Rehab Seat design meets the widest range of changing consumer needs.

- Adjustable angle back offers a range of 85° to 105°
- Width is adjustable in 1" increments in the following ranges: 12"-16", 16"-20", 20"-24"
- Depth is adjustable in 1" increments in the following ranges: 12"-18", 16"-19", 19"-22"
- Manual recline option is available

Specifications

Maximum speed	
GB with TrueTrack motor (standard)	7 mph
Dimensions	
Weight capacity	
GB with TrueTrack motor (standard)	400 lb.
With tilt/recline	350 lb.
Overall base width (with 14" x 3" wheels)	
GB with TrueTrack motor (standard)	24.75"
Seat-to-floor height (at 0° tilt)	
Low	17.5"
Medium	19.5"
Tall	21"
Overall base length*	
Short base	28.5"
Long base	31.5"
Seat adjustability	
Width (1" increments)	12" to 24"
Depth (1" increments)	12" to 22"
Back angle (5° increments)	85° to 105°
Seat tilt (continuous adjustment)	0° to 10°
Arm height	
Fixed	10"
Adjustable	9.5" to 13.5"
Drive wheels	
Pneumatic (standard)	14" x 3"
Foam-filled (optional)	14" x 3"
Casters	
Semi-pneumatic (standard)	8" x 2.25"
Pneumatic (optional)	8" x 2.5"
Pneumatic and foam-filled (optional)	9" x 3"
Caster suspension (optional)	
Pneumatic and semi-pneumatic	8"
Electronics	
MKIV™ A with switch options	(standard)
Batteries**	
Group 24	(standard)
Weight (18" x 18" seat size with Group 24 batteries and without front riggings)	
	292 lb.

* Measured from head tube to standard anti-tip wheel.

** Sealed gel cell recommended.

Accessories

Alternative seating	
2G tilt, recline and combination	
Manual reclining back	
Power-elevating legrests	
Ventilator tray	

Notice: Due to manufacturing variances, all dimensions and specifications may be ± 10%.

TARSYS® Powered Seating Systems can be added easily as more rehab options are needed

- Offers Tilt, Recline, Elevating Seat, Power Tilt Only, Tilt/Recline or PTO/Elevating Seat
- Seat location system allows for the seat to slide along the base frame to optimize the center of gravity while maintaining traction and stability
- **Storm Series® drive wheels** can be adjusted forward or rearward for maximum maneuverability and precise center-of-gravity adjustment

ANSI/RESNA W/C 19 sec 6.2 Presale Literature Notification – Storm Series® Arrow

- Minimum turning radius 31.9"
Minimum turn-around width 63.8"
- Arrow wheelchairs have a maximum length of 41.5" inches or 1054 mm, meeting the ADA definition of a common wheelchair and the minimum length requirements of lifts on public vehicles.
- Total wheelchair mass = 322 lb. (146 kg) – including front riggings, wheel locks, TR0 brackets, wheelchair-anchored pelvic belt, and seating.
- Average lateral dummy displacement = approximately .48" (12.3mm)
- Overall Score = 20 Overall Rating = A
- The Arrow tested was sized to accommodate a 168 lb. test dummy (17"x17"x 18" high and 14" Rear-Wheel Drive tires.)
 - The Arrow was tied down using four tie-down brackets – 2 brackets located on the front of the base frame and 2 brackets located on the rear of the base frame.
 - The Arrow was tested with a 168 lb. test dummy.
 - The Arrow tested used a wheelchair-anchored pelvic belt and vehicle-anchored shoulder belt.
 - The Arrow tested complies with the performance requirements of ANSI/RESNA W/C 19 sec. 5.3.
- For all types of vehicles, the Arrow requires four SAE J2249-compliant tie-down strap assemblies for effective securement.
- The Arrow provides a location for anchoring of an Invacare-provided pelvic belt. This belt has been tested in accordance with ANSI/RESNA W/C 19.
- The wheelchair-anchored pelvic belt is supplied by Invacare.

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Patent pending.

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"Invacare says 'Yes, you can.®,' and I couldn't have said it better myself."

Arnold Palmer