

“I don't only believe that QUANTUM is going to be a game-changer, it's already a game-changer.”

-Kevin Bunce

Sun Metro Assistant Director of Maintenance



QUANTUM[®]



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**FULLY AUTOMATIC
WHEELCHAIR
SECUREMENT STATION**



QUANTUM®

The transportation industry's first fully automatic rear-facing wheelchair securement station.

QUANTUM is the only system in the world that gives complete independence to mobility passengers; enabling them to **secure themselves** in less than 25 seconds with the simple push of a button – and **without requiring driver assistance**.

Combining transportation insight, intelligent technology and high quality construction, QUANTUM lets wheelchair and scooter passengers board the bus or train, position their chair and then simply push a button to secure themselves in a safe and stable rear-facing position.

Operators will benefit immediately and profoundly with reduced dwell time when securing passengers in mobility devices --

resulting in more reliable schedules, eliminating the need for manual tie-downs, and putting an end to intrusive and challenging securement manoeuvres.

By safely securing wheelchairs and scooters, QUANTUM ultimately reduces liability exposure for injuries to both mobility passengers and operators; as well as to seated or standing commuters who could be injured by unsecured mobility devices.



Compatible with Systems You Already Use, Compliant with Standards that are on the Way

Designed to international standards and built with transportation industry-standard technologies, QUANTUM is ideal for both new fleet or retrofit applications in bus, light rail and rail.

QUANTUM meets or exceeds all current and proposed ISO 10865 regulations for rear-facing transit, European directives and the latest ADA and CSA revisions. Plus it can help systems fulfill the accessibility objectives of the new BRT Standard 2013 for bus rapid transit.

QUANTUM can be installed in virtually any bus or rail car, integrates with existing rear-facing wheelchair station backrests and complements current OEM stanchions by adding the missing critical element of actual wheelchair securement. Integration with existing vehicle electrical and interlock systems prevents accidental release of a secured wheelchair while the vehicle is in motion.



Engineered to Perform, Built to last...and Already Proven on the Road

Q'STRAIT engineers applied the highest levels of industrial design to ensure QUANTUM delivers the performance to keep passengers safe and operators productive.

Transportation-industry-proven electronics are used for its controllers, switches and sensors. The rubber in the retaining arms has been specifically selected to maintain grip through many seasons of use. Its stainless steel framework withstands the harshest environments. And the entire system has been engineered to simplify and minimise maintenance over a lifetime of many thousands of cycles.

The intelligent design approach in QUANTUM includes visual and auditory indicators to signal the arm is moving and automatic sensing that recognises the difference between an obstacle vs. a wheelchair and stops the arms from applying the final securement pressure if something is not right. The optional Q'STRAIT backboard is designed to reduce head and neck injuries.

As with all Q'STRAIT systems, the QUANTUM has been designed with aesthetics in mind, with an appearance that is unimposing and approachable, and as a thoughtful addition to any modern bus.



One of our goals is ensuring the integration of people with disabilities into society and transportation is a key enabler. No one enjoys being singled out when a driver must come back and secure a wheelchair because it always takes time. People with disabilities just want to get on the bus and go."

-Jim Franklin, Advocate
Action Committee
of People with Disabilities

By securing the chair within its arms and continually adjusting its grip as needed during the ride,

QUANTUM virtually eliminates the risk of a wheelchair tip-over.



When you GO QUANTUM, Everyone Benefits:



MOBILITY RIDERS GO FREELY

QUANTUM restores a sense of freedom and independence to wheelchair passengers by allowing them to secure themselves.



BUS DRIVERS GO FURTHER

QUANTUM gets your drivers back on the road. With independent securement in under 25 seconds, your routes get more miles with less curb time.



BUS PASSENGERS GO FASTER

QUANTUM gives commuters the assurance that their schedules won't be delayed by traditional securement.



TRANSIT PROPERTIES GO LEANER

QUANTUM saves your company money with less driver training, less product maintenance, less delays and less liability. Keep your buses on schedule and your budgets on track.