

Q'STRAIT[®]

MAKING
SAFETY
ACCESSIBLE

A D C A M P A I G N 2 0 2 4

Put a  in it.

Put a  in it.

PRINT ADVERTISING

Passengers Securing Themselves?



Put a **Q** in it.

QUANTUM[®]
AUTOMATIC WHEELCHAIR SECUREMENT STATION

The only system in the world to give mobility passengers **complete independence** to **secure themselves** with **minimal driver assistance**.

Learn more at: qstraint.com/QUANTUM

Q'STRAIT[®]

MAKING
SAFETY
ACCESSIBLE



Want the Bells *and* the Whistles?



Put a **Q** in it.

Q'POD[®]

3-POINT TECHNOLOGY
WHEELCHAIR SECUREMENT STATION

While other options merely comply with ADA requirements, the Q'POD delivers a **complete solution** of unmatched technology and multiple seating options.

Learn more at: qstraint.com/QPOD

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Need a Lift?



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INQLINE
WHEELCHAIR PASSENGER BOARDING SYSTEMS

TWO UNIQUE SOLUTIONS FOR PASSENGER ONBOARDING AND DEBOARDING. Fully integrated, crash-tested, heavy-duty winch systems featuring dual automatic retractors and an ergonomic thumb controller.

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Q'STRAIT

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Time to Raise Your Standards?



Put a Q in it.

QRT-360

HEAVY DUTY WHEELCHAIR SECUREMENT TIE-DOWNS

4-point, heavy duty, fully automatic retractable tie-downs built to **withstand the higher loads of the WC18 standard** and be **compatible with WC19 wheelchairs**.

Learn more at qstraint.com/QRT-360

Q'STRAIT

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Need Advanced Features?



Put a Q in it.

QLK
PERSONAL WHEELCHAIR DOCKING SYSTEM

The next step in independent wheelchair securement, the QLK offers **more options and features than any other docking system** on the market.

Learn more at qstraint.com/QLK

Q'STRAIT

MAKING SAFETY ACCESSIBLE



Ready to Get Back to Basics?



Put a Q in it.

Q'STRAIT ONE

ALL-IN-ONE WHEELCHAIR SECUREMENT PLATFORM

A **single platform system** that lets you **simplify and standardize** your securement procedures, replacing the many parts and obstacles of traditional 4-point securement.

Learn more at qstraint.com/ONE

Q'STRAIT

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HEAVY DUTY WHEELCHAIR
SECUREMENT TIE-DOWNS

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qstraint.com/QRT-360

Q'STRAIT



**Score Big
Points**
With Your
Passengers
and Operators



TITAN800
HEAVY DUTY TIE-DOWNS

Learn more at:

sure-lok.com/TITAN

SURE-LOK



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QUANTUM

AUTOMATIC WHEELCHAIR
SECUREMENT STATION

Learn more at:

qstraint.com/QUANTUM

Q'STRAIT



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DIGITAL & SOCIAL MEDIA

Q'STRAIT ONE

ALL-IN-ONE WHEELCHAIR SECUREMENT PLATFORM



Put a **Q** in it.

QLK

PERSONAL WHEELCHAIR DOCKING SYSTEM



Put a **Q** in it.

TRAINING ACADEMY

WHEELCHAIR SECUREMENT TRAINING



Put a **Q** in it.



Score Big Points
With Your
Passengers and Operators



TITAN 800
HEAVY DUTY TIE-DOWNS

QRT-360

HEAVY DUTY WHEELCHAIR SECUREMENT TIE-DOWNS



Put a **Q** in it.

INQLINE

WHEELCHAIR PASSENGER BOARDING SYSTEMS



Put a **Q** in it.

Q'POD

3-POINT WHEELCHAIR SECUREMENT STATION



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3-POINT TECHNOLOGY
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TRADESHOW GRAPHICS

JOIN US AT
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CONTENT. COMMUNITY. COMMERCE.

JULY 14-19
BOOTH
114

Score Big Points

WITH YOUR PASSENGERS AND OPERATORS

Put a **Q** in it.

Q'STRAIT

JOIN US AT
APTA
EXPO

OCT 9-11
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2565

Score Big Points

WITH YOUR PASSENGERS AND OPERATORS

Put a **Q** in it.

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JOIN US AT
 NATIONAL MOBILITY
EQUIPMENT DEALERS
ASSOCIATION
NEMDA

SEPT 30-OCT 2
BOOTH
304

Score Big Points

WITH YOUR PASSENGERS AND OPERATORS

Put a **Q** in it.

Q'STRAIT

JOIN US AT
 **TSD**

NOV 15-20
BOOTH
504

Score Big Points

WITH YOUR PASSENGERS AND OPERATORS

Put a **Q** in it.

Q'STRAIT

Time to Raise Your Standards?

Put a **Q** in it.

QRT-360[®]

HEAVY DUTY
WHEELCHAIR SECUREMENT TIE-DOWNS

4-point heavy-duty, fully automatic retractable tie-downs built to withstand the higher loads of the WC18 standard and be compatible with WC19 wheelchairs.

LEARN MORE ABOUT QRT-360.



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MAKING SAFETY ACCESSIBLE

VISIT US AT **BOOTH 504**



Q'STRAIT • SURE • LOK

TRAINING ACADEMY

EXPERT WHEELCHAIR SECUREMENT TRAINING

QSTRAIT.COM/TRAINING

Q'STRAIT

MAKING SAFETY ACCESSIBLE

VISIT US AT **BOOTH 504**

Need to Up Your Training Game?

Put a **Q** in it.

Q'STRAIT • SURE • LOK

TRAINING ACADEMY

EXPERT WHEELCHAIR SECUREMENT TRAINING

VISIT US AT **BOOTH #304**

QSTRAIT.COM/TRAINING

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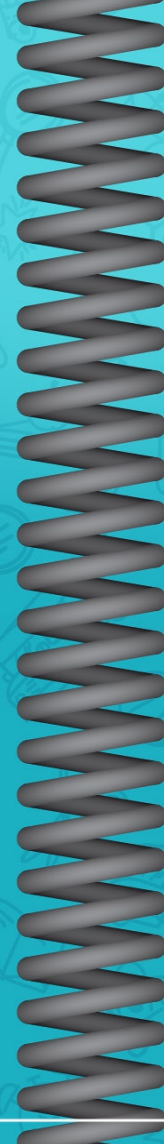
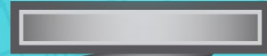
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Q'STRAIT[®]

BOOTH 114



ANIMATED VIDEO WALL!

VIEW IT HERE: <https://tinyurl.com/qs-anim>

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OCTOBER EVENT: SCARY SECUREMENT

Wheelchair Securement Doesn't Have to Be Scary



QUANTUM[®]

AUTOMATIC WHEELCHAIR SECUREMENT STATION



So easy, it's **frightening**.

Never fear! QUANTUM is the only system in the world that gives mobility passengers **complete independence** to **secure themselves** with **minimal driver assistance**.

LEARN MORE AT: QSTRAINT.COM/QUANTUM

VISIT US AT **BOOTH #2565**



Q'STRAIT[®]

Wheelchair Securement Doesn't Have to Be Scary



QRT-360[®]

HEAVY DUTY WHEELCHAIR RETRACTORS & TIE-DOWNS



So easy, it's frightening.

Never fear! QRT-360 fully automatic retractable tie-downs are built to **withstand the higher loads of the WC18 standard** and be **compatible with WC19 wheelchairs**.

Q'STRAIT[®]

LEARN MORE AT:
QSTRAINT.COM/QRT-360



Wheelchair Securement Doesn't Have to Be Scary



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Q'STRAIT
Wheelchair Securement
Doesn't Have to Be Scary

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AUTOMATIC WHEELCHAIR SECUREMENT STATION



Wheelchair Securement
Doesn't Have to Be Scary

Q'STRAIT[®]
QRT-360[®]
HEAVY DUTY WHEELCHAIR RETRACTORS & TIE-DOWNS

Put a  in it.

INTERACTIVE: SEQUIREMENT PINBALL GAME



**FULLY INTERACTIVE
PINBALL GAME!**

PLAY HERE:

<https://www.qstraint.com/sequirement-pinball/>



FULLY INTERACTIVE PINBALL GAME!

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PARTNERSHIP: BUSIRDE FEATURE W/ CATS

BUS Ride

THE GO-TO RESOURCE FOR THE TRANSIT BUS AND MOTORCOACH INDUSTRY

**CATS and Q'STRAIT Pioneer Team-Driven
Accessibility with C³-SPACE**





"Just doing the ride on the QUANTUM was everything for me," she said. "It was freedom. I felt secure, and I really hope that we can get more people that need peer-to-peer support to travel onboard. This will be a great thing."

Chablis Dandridge was another rider who tested the C-SPACE. Dandridge had not been on a bus since 1995, the year of his injury. "The independence was the best thing in the world," he said. "To be able to roll up the ramp, to put myself in the QUANTUM, and to press a button and then get locked in. It was unmatched."

"In 1995, it was very wiggly and loose," he continued. "Today, even in the QPQD, it was very tight, snug, and secure." Dandridge said the lap belt felt very comfortable, and that he felt very secure as a person with limited mobility and maneuverability. "It felt great to be able to get on the bus and be completely independent," he said. "It's almost like a small sanctuary."

Jordan Hays, another ADA rider, also had a great experience with the QUANTUM and C-SPACE. Her equipment requirements presented an interesting test case for the system.

"My chair is a bit unusual," she said. "It's a folding power chair, and it's only about 60 pounds, which is pretty light compared to other power chairs. I've also heard it's a bit narrower. So, when I first saw this design, I was afraid the QUANTUM wasn't going to secure my unique chair. "But, to my surprise, I felt really secure, and it just adjusted to my chair."



A Path Forward for Charlotte's ADA Riders

CATS is expected to have the C-SPACE on 61 buses in full revenue service by 2024. Incorporating the results of the pilot program and customer feedback will result in a new way to travel for CATS's ADA passengers. And, ideally, it is a solution that can help agencies across the United States to improve accessibility and rider autonomy at their own operations. "Q-STRANT is a company that embraces transparency, including customer feedback," Fehrbach said. "I have great reverence for an OEM that embraces challenges. For QUANTUM, that included customer concerns about its rear-facing nature, about passengers staring at them, and knowing their own stop location. The C-SPACE mitigates both concerns by providing more privacy and the visual experience of a forward-facing passenger."

Passengers Securing Themselves?



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Q-STRANT

MAKING SAFETY ACCESSIBLE



OFFICIAL BUSRide Field Test: CATS and Q-STRANT Pioneer Team-Driven Accessibility with C-SPACE

Serving a ridership of nearly 10 million riders annually in the Charlotte Metropolitan Area, Wakelet County and surrounding areas, the Charlotte Area Transit System (CATS) strives daily to meet the varying needs and requirements of its riders. Q-STRANT, with a mission to offer innovative solutions, seeks to ensure equal safety levels for all riders. CATS is committed to four core principles: sustainability, equity, safety, and accessibility. Both entities share a dedication to safety, accessibility, and equity, making them ideal partners for a recent pilot program. To enhance accessibility for all, CATS recently launched a pilot initiative in collaboration with Q-STRANT, the developer and manufacturer of the QUANTUM self-securement system and the QPQD. The QUANTUM is a groundbreaking advancement as the industry's first fully automated rear-facing wheel-chair securement system.

For riders to secure themselves safely with QUANTUM, the process is simple. The bus driver releases the vehicle's ramp for the rider. The rider embarks on the bus and centers their wheel-chair on the backboard of the QUANTUM system. When the rider presses the "secure" button, the system takes approximately 25 seconds to safely secure the wheel-chair. The driver presses an additional button for the final step: and the trip is back underway.

"While the QPQD self-securement system lowers CATS's risk of wheel-chair tipping and reduces operator input," said Frank Dowdall, Southern Regional Sales Manager for Q-STRANT, "QUANTUM is the game-changer in rider safety technology. It is an ADA independence evolution with autonomy, allowing agencies to make operational decisions based on data."

In conjunction with the QPQD training system by Q-STRANT, CATS developed a novel new way for its ADA passengers to ride in comfort the C-SPACE.

Developing the C-SPACE
CATS refers to the section of the bus that houses the QUANTUM for ADA riders as the C-SPACE and embarked on a pilot program to test proof of concept. In addition to the securement training system, the space also provides a privacy barrier and a dedicated waiting screen for rising riders in the QUANTUM system. CATS obtained the QUANTUM and support components

through Gillig parts contracts, in addition to developing a one-of-a-kind privacy barrier in partnership with a leading manufacturer.

The C-SPACE aligns with the City of Charlotte's ongoing ADA Transition Plan to address any barriers to achieve better accessibility. The ADA Transition Plan's goal for success is that accessibility is no longer a separate item to be considered; rather, it becomes part of that transit culture and is seamlessly incorporated into the workflow.

All new bus purchases will include the C-SPACE and will be funded through a combination of local funds, federal, and competitive grants, making the C-SPACE affordable for any size transit agency.

The solution is unique to Charlotte and CATS, perhaps even to public transit. Incorporating existing OEM technologies with original cutting-edge designs has changed how the ADA community travels. Passengers no longer require assistance - they now have the ability for self-determining travel.



"The incorporation of multiple technologies brings 100 percent fully-dedicated mobility space that is the conduit for an independent and autonomous transportation experience for

Charlotte's ADA community," said Jennifer Fehrbach, General Manager of the Bus Operations Division at CATS. "It provides 100 percent independence, equal to that of ambulatory passengers."

Implementation and Testing
The C-SPACE (incorporating QUANTUM) prototype required several iterations of the incorporation space and includes newly developed components. The implementation process spanned several months due to prototype component fabrication and sourcing of atypical components. New buses will have the C-SPACE installed by the bus manufacturer during production. The project team and Vendor Partners collaborated as a think tank in such a manner that setbacks were minimal, and solutions were identified quickly.



CATS dedicated significant planning efforts to ensure operators were trained and informed of the multiple technologies on the C-SPACE to provide full autonomy to Charlotte's ADA community. The Q-STRANT team provided a comprehensive all-day "train the trainer" session on the new QUANTUM, in addition to the Q-STRANT "EYE ON THE RAMP" assessment device that is a secondary forward-facing solution within the C-SPACE.

To avoid overburdening training resources, operators are being trained on a priority basis, with the buses dedicated to servicing the CATS routes with the highest mobility device usage.

To date, CATS has provided 13 hands-on training to 80 percent of its operators. Bus submitters, employees dedicated to rising lead-time buses and serving as customer service resources, were also trained on the dedicated C-SPACE routes for the first two weeks of revenue service.

"Q-STRANT has proved its commitment to continually improving the product line and partnership in the community through this groundbreaking innovation," Fehrbach said.

"Q-STRANT and their dedicated representatives have always provided platinum customer service and are quick to partner with transit agencies on new initiatives."

Community Feedback
CATS tested the C-SPACE's compatibility with ADA passengers by allowing them to ride the system and provide feedback and input about their encounter with the space.

Melanie Daston, a Charlotte Area Transit System rider, was one such rider. Residing in Charlotte, Daston is a mother of two and a grandmother of two. She is on the Board of Disability Rights and Resources and advocates for disabled residents of the Charlotte Metropolitan Area.

"I thought the QUANTUM was so comfortable," she said. "It was easy to get into it, and I really felt very secure. I usually don't get on buses because I was always being pushed back and forth. For the first time it's free driving and secure, and I can talk to people on the bus."

Additionally, sitting in the QUANTUM and looking at the screen is much better," she added. "I have choices to get on and off now, we have before I could even reach the door. Someone had to reach for me. So now I'm much more independent."

"With this year being the 50th anniversary of the ADA signing, the significance of this advancement for transit was not lost, suggested Daston."



Team-Driven Accessibility with CATS

QUANTUM[®]

PARTNERSHIP VIDEO

CATS and Q'STRAIT Pioneer
Team-Driven Accessibility with
C3-SPACE

WATCH HERE:

<https://www.youtube.com/watch?v=nch2kt3yT2U>