The New Standard in Wheelchair Securement and Passenger Safety
Introducing the QRT-3 SERIES Wheelchair and Occupant Securement System:
The first 4-point, heavy duty, fully automatic retractable tie-downs designed, engineered and built to
perform in wheelchair crash tests under WC19 as well as withstand the higher loads of the WC18 standard.

More impressively, the new QRT-360 meets these increased standards years ahead of their effective date in 2015.

As WC19 wheelchairs become increasingly popular, the
countdown has already begun
for wheelchair tie-downs to
be compatible. Year-end 2015
will see the effective date of the
revised RESNA WC18 standard
for Wheelchair Tie-downs and
Occupant Restraint Systems
(WTORS).

The most significant implication
of the revised standard is that
wheelchair tie-downs must be
stronger. WC19 covers the design
and testing of wheelchairs for
use in passenger transportation,
and it brings about much needed
passenger protection as well
as some challenges for WTORS
manufacturers.

These crash tested wheelchairs will
feature lap belts that are integrally
mounted onto the wheelchair
frame, as opposed to relying on
traditional WTORS equipment
where the passenger belts are
mounted separately. During
a collision, this new dynamic
produces higher loading on the
WTORS as much as 60%. Enter the
QRT-360, the first retractor to meet
these new requirements.
AN ALL NEW DESIGN FROM THE FLOOR UP

Stronger than any previous retractors, the QRT-360 utilizes innovative energy management designs and material technologies to deliver the system’s full strength for maximum load capacity.

An energy-absorbing steel frame, new high strength 58 mm webbing and fine-adjust self-tensioning from 25 high-strength teeth, the QRT-360 retractors achieve a surrogate wheelchair rating that meets the requirements of WC18. The geometry of the teeth and an innovative new locking bar design provide perpendicular alignment for maximum strength. A re-engineered Positive Locking Interface contributes to the system’s ability to secure extremely heavy loads.

With many more safety features than manual straps and significantly lighter and more practical than 6-point systems, space-efficient QRT-360 retractors safely secure both the chair and occupant in an easy-to-use 4-point restraint. This not only meets the new WC18 standard for combined occupant and chair securement, but it eliminates the need, cost and additional securement time associated with having four anchorages dedicated to the rear securement.

Compatible with Most Vehicles and Chairs

The QRT-360 offers a shortened retractor footprint that allows placement flexibility and better accommodates large chairs by increasing the available space in the securement location. Like other Q’Straint systems, it’s compatible with the widest variety of wheelchairs and scooters.

A More Secure Connection, Every Time

With Q’Straint J-hook attachments, operators can achieve a secure attachment on virtually any wheelchair. An updated Positive Lock Indicator provides the operator with clear and certain visual confirmation that the retractor is locked and the vehicle is ready to go. Our patented design eliminates the guesswork when passenger safety is involved. When the indication mark is in-line, the attachment is secure.

Automatic Tightening Increases Safety

Q’Straint’s industry-leading self-tensioning system automatically tightens the straps to eliminate any slack created by small wheelchair movements. The belts continue to tighten during low-g vehicle movements, which reduce the potential for dangerous excursions in the event of a collision.

Automatic Release Makes it Easy to Use

Securement is simplified by the compact and ergonomically designed knob. Thanks to Q’Straint auto-release, operators and attendants can pull and secure the wheelchair hook in one step without having to press a release button.
**QRT-1 Series**

**THE SECUREMENT SYSTEM THAT CHANGED EVERYTHING**

The original 4-point wheelchair securement system, QRT-1 Series retractors defined the way passenger safety devices are designed and tested.

**Solutions for Every Need and Budget**

Today, QRT-1 Series retractors provide a full range of options for simple, safe and effective securement of wheelchairs in Para-Transit vehicles, mini-van, rail, city bus, coach bus, and school bus applications.

QRT Max

is a fully automatic, knobless retractor offering innovative features that maximize ease of use and ensure passenger safety.

QRT Deluxe

is the world-class original self-locking and self-tensioning retractable system. The Max and Deluxe models feature a new ergonomic streamlined housing.

QRT Standard

is simple and economical semi-automatic retractor system appropriate for many applications.

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**QRT-1 Series Specifications**

**Compatible Anchorages:** Slide ‘N Click and L-Track floor anchorages, or may be directly mounted to vehicle floors, seat legs or barriers

**Warranty:**

3 years (QRT Max, QRT Deluxe); 2 years (QRT Standard)

**Testing:**

Crash tested to 30mph/20g

Impact Test Criteria

Meets or exceeds the following standards and regulations:

- SAE J2249
- ISO 10542
- FMVSS 209, 302, 210, 222
- CMVSS 209
- CSA Z605
- ADA

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**QRT SERIES-1 FEATURES COMPARISON**

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