



IMMIO ®

Off-Highway Safety Systems

BUCKLES | RETRACTORS | RESTRAINTS | ADVANCED SAFETY

It's a life-long mission.

For more than 60 Years as a global leader in safety, IMMI designs, engineers, manufactures, tests, and markets the safety solutions of tomorrow while delivering innovative products that protect millions of lives around the world today.

BRINGING SAFETY TO PEOPLE®



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GLOBAL LEADER IN SAFETY



**Over 60 Years
of Safety** *Founded in 1961*

**46 Countries
Served**

Employee Owned



With multiple locations to better serve our customers, IMMI's global team is 2,000 strong. We're where you need us to be...

United States:

Westfield, IN
High Point, NC
Antioch, IL
Laredo, TX

*Global HQ, Sales, Engineering, Manufacturing
Manufacturing
Manufacturing
Warehousing*

Mexico:

Saltillo, Coahuila

Engineering, Manufacturing

China:

Wuxi, Jiangsu

Sales, Engineering, Manufacturing

Europe:

Villastellone TO, Italy
Morpeth, UK

*Sales
Engineering, Manufacturing*



QUALITY

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A man with a beard and safety glasses is working on a complex industrial machine in a factory setting. The machine has various components, including a motor and a control panel. The background shows a typical industrial environment with metal frames and equipment.

Deliver Excellence.

It's more than a promise. It's a Core Value.

We deliver the kind of quality that exceeds our customer's expectations through innovation, performance, and durability. We test every part and every product extensively. End users depend on our products to work exactly as they were designed. And we wouldn't have it any other way.



TESTING

CAPE® - Center for Advanced Product Evaluation

Whether your vehicle is designed to plant the fields or pave the way, CAPE can help you make sure it is as safe as you need it to be.

CAPE test capabilities include:

Frontal impact - barrier wall and movable objects
Side impact - 90° degree and oblique
Rear impact
Rollover
Dynamic sled
Quasi-static pull testing

Post test assessments:

Electrical architecture
Insulation resistance
Battery compartment intrusion

Test standards (Applicable to construction industry):*

<i>SAE J2420</i>	<i>Frontal impact cab integrity</i>
<i>SAE J2422</i>	<i>Roof crush cab integrity</i>
<i>SAE J2358</i>	<i>Safety and performance requirements for low speed vehicles</i>
<i>SAE J2292</i>	<i>3 point seat belt requirements</i>
<i>SAE J386</i>	<i>2 point seat belt requirements</i>
<i>FMVSS 207/210</i>	<i>Seat belt and seat belt anchorage requirements</i>
<i>ANSI/ROHVA</i>	<i>Roof crush/zone restriction</i>
<i>ECE R16</i>	<i>European seat belt testing</i>
<i>ECE R14</i>	<i>European seat anchorage testing; quasi-static</i>
<i>ISO 6683</i>	<i>Seat belt requirement/anchorage strength for earth moving and forestry equipment</i>
<i>ISO 3776</i>	<i>Seat belt requirement/anchorage strength for agricultural tractor and self-propelled machinery</i>

Need something custom? CAPE has a staff of engineers who can help you create and perform tests specific to your requirements.

* Visit capetesting.com for a full list of capabilities.

BUCKLES





*Steel strap
mounting option*

*Webbing
mounting option*



*Cable with electrical
switch latch indicator
mounting option*

APPLICATIONS:

On-highway transport

Compact-design applications

Agricultural Equipment

Forklifts

CDL9

Commercial Duty L9 is designed for high usage and long life in commercial vehicle applications.

- Cable, steel and web mounting options
- Fits with 2" and 3" seat belt systems
- Electrical switch options are available
- Meets all applicable world standards:

SAE J386

ISO 6683

FMVSS 209

FMVSS 302

ECE R16

ISO 3776-3



Steel strap mounting option



Flex buckle, web mounting with electrical switch option

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C2

Designed for the gloved operator in rugged environments. Vents allow dirt and debris to escape and keep the buckle working properly.

- Cable, steel or web strap mounting options
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- Meets all applicable world standards:

SAE J386
ISO 6683
FMVSS 209
FMVSS 302
ECE R16
ISO 3776-3

APPLICATIONS:

Construction equipment
Agricultural equipment
Forklifts
Delivery vehicles
Mining equipment
Emergency vehicles
Forestry equipment
UTVs



One of our strengths is being able to work with our customers to determine the **BEST** solution for their off-highway safety needs. One size **DOESN'T** fit all.

RETRACTORS





WEB WIDTHS:
2" | 3"

WEB SPOOL LENGTH:
48" - 54"

HOUSINGS:
Standard - 2" and 3"
Scraper - 2" and 3"

Automatic Locking Retractors (ALR) spool webbing so the seat belt stays clean and is easily accessible by the operator. Designed for the off-highway equipment operator, IMMI retractors are tested to provide optimal comfort and durability.

- Automatic locking mechanisms quickly adjust to fit operator sizes 5th - 95th %
- Optional Anti-Cinch Retractors (MACR) maximize operator comfort
- Accommodates date-of-installation labels to support recommended maintenance guidelines and replacement policies
- Available in a variety of housing and frame configurations
- Housings offered in various lengths for 2" and 3" webbing widths

* photos not to scale

Designed, tested and built to take on the elements - and win.



In a side by side mud immersion test, IMMI's sealed retractor is the clean winner!

Severe Duty Retractor



RX100 Commercial Duty Retractor



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WIDTHS:
2"

WEB SPOOL LENGTH:
up to 100"

Emergency Locking Retractors (ELR) are designed for the heavy-duty environments where a more conventional shoulder belt meets your application needs. Our systems are configurable for different sensitivities, retraction force, and web length to meet your needs and desired comfort for the end-user. Used more commonly in on-highway applications, we can help determine the best style of retractor for your desired needs.

- Available in a variety of cover and frame configurations
- Available in Severe Duty sealed configuration
- Bolt and nut attachment features accommodate virtually any mounting requirement



**MULTI-POINT
RESTRAINTS**

NOTICE



WARNING





ONE POINT OF CONNECTION - MULTI-POINTS OF PROTECTION

Sometimes you just need a little more protection. IMMI multi-point restraints are up to the task. Designed to keep occupants securely in their seats and provide optimal occupant protection in a variety of accident scenarios, our restraints undergo thorough testing. Durable construction means a longer field life and better endurance in the harshest conditions.

DURABILITY:

- Manually adjustable and fully retractable restraint configurations
- 3-point seat belt; 3-point detachable link seat belt; 4-point seat belt; 5-point seat belt
- Variety of webbing colors available
- Meets SAE J386, SAE J2292, FMVSS 209, FMVSS 302 and ISO 6683 requirements
- Robust components

COMFORT:

- Provides increased range of motion
- Ease of use and integrated comfort features encourage operator seat belt usage



APPLICATIONS:

Defense vehicles

Construction equipment

Agricultural equipment

Forestry equipment

Mining equipment

Emergency vehicles

UTVs



4-POINT SYSTEMS

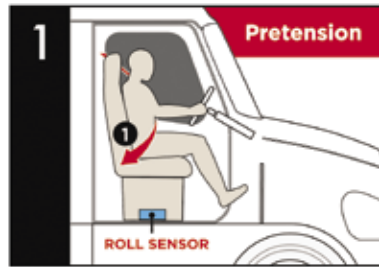
Specifically designed and produced for rugged environments, these systems range from all manual adjust to fully retractable.

- Electrical switch options available
- 2" and 3" web width options
- Anti-cinch and comfort features
- Custom attachment options for specific applications

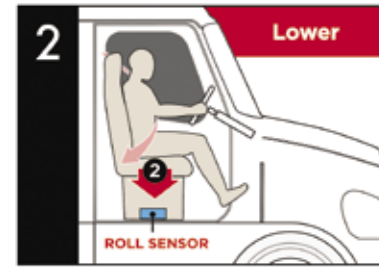
**ADVANCED
SAFETY**



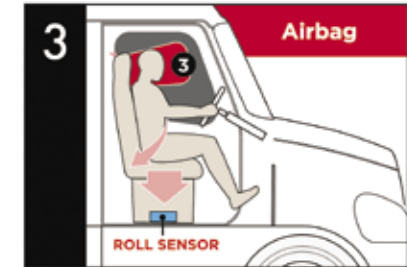
How RollTek Works: A roll sensor monitors the vehicle's position, and when a rollover is detected, up to three RollTek components are deployed per seating position.



Seat pretensioner keeps the occupant securely in their seat.



Suspension seat is pulled down to its lowest level to increase survivable space in the cab.



Side airbag deploys to cushion the head and neck.



ROLLTEK® SIDE ROLL AIRBAG

More than half of occupant fatalities in large trucks are due to a rollover. That's why IMMI invented RollTek. RollTek which combines side airbag protection with the latest advances in seat belt technology.

RollTek deploys in a quarter of a second to significantly reduce the potential for serious injury or death in a rollover.

VIDEO



See how RollTek works in a real-world crash test



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