



Advanced Protection for firefighters

LifeGuard Technologies, a division of IMMI, is the leading provider of advanced safety systems for fire apparatus with more than 45 years of experience providing safety innovations to customers worldwide. Engineers at LifeGuard Technologies work alongside the most trusted fire apparatus manufacturers, delivering advanced occupant protection products that specifically address the unique safety needs of firefighters.

Design engineers at LifeGuard Technologies utilize the company's state-of-the-art testing facility to guide development and conduct testing of advanced safety systems for fire apparatus. The Center for Advanced Product Evaluation (CAPE) conducts frontal crash

tests, rollover tests and cab integrity tests, capturing performance data through the use of sophisticated imaging and data acquisition technology.

CAPE houses the world's only 90-degree rollover impact machine for commercial vehicles as well as the largest barrier facility of its kind for evaluating crash worthiness for large vehicles. Extensive and rigorous testing of every LifeGuard Technologies product enables the company to deliver dependable, high quality safety systems to the fire industry.

LIFEGUARD 
TECHNOLOGIES[®]
Advanced Occupant Protection

A Division of IMMI





LifeGuard RollTek®

RollTek, first available to the fire industry in 2003, combines side airbag protection with the latest advancements in seatbelt technology to reduce the potential for death or serious injury to firefighters during a rollover.

How it works:

A sensor inside the cab continuously monitors the truck's stability, and if it detects an imminent rollover, it initiates up to three events.

1. The buckle pretensioner tightens the seat belt around belted occupants, positioning occupants securely in their seats.
2. The seat pull-down system pulls the suspension seats to their lowest possible positions, increasing survivable space for these occupants and minimizing head contact with the interior roof.
3. The roll sensor deploys side airbags in every outboard position on the truck to cushion head impact and reduce head and neck injuries.

Available on:

Pierce
KME
Ferrara
Spartan
Seagrave
E-ONE

LifeGuard SmartDock™

SmartDock is the first hands-free SCBA holder for fire trucks. This seat-based system provides single-motion insertion of the SCBA, holds the cylinder securely in place while in transit and releases using no straps or levers.

How it works:

The cylinder valve is inserted into the base of the dock, and the top of the cylinder is pushed into the upper jaws to lock into place. After the firefighter has strapped on the SCBA, he or she simply twists while rising from the seat to release the tank from SmartDock.

Available on: Pierce

LifeGuard 4Front™

4Front frontal collision protection, the first advanced protection system of its kind for fire apparatus, protects firefighters in the most common type of collision – one that hits the apparatus head-on.

How it works:

A sensor inside the cab monitors the truck's longitudinal accelerations. If the sensor detects a frontal crash over a predetermined threshold, it sends a signal to inflate the steering wheel airbag. Some systems also include a knee bolster airbag on the front passenger side, which is inflated simultaneously. These subsystems work together to dramatically reduce the risk of fatality or severe injury in a frontal collision.

Available on: Pierce

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