

Our ASC Run-Flat System

Our ballistic run flat system is custom build for the KNIGHT XV vehicle by one of the most reputable manufacturers in the industry. This lightweight, high strength tire insert adds a real measure of safety and performance to vehicles of all types.

Primarily used for security and commercial applications, the Run-Flat device is made from a reinforced polymer to provide wheel position support and mobility in the event of tire failure.

The Run-Flat System Supports the Weight of the Vehicle

During Run-Flat mode, the vehicle maintains mobility, steering capability and secure breaking in the event of tire failure due to a blow out or any other cause. The device also allows for maintaining control of the vehicle during a high-speed blow out.

Design to Satisfy Your Requirements

The Run-Flat device is mounted securely around the rim underneath the tire and is not in contact with the tire during normal fully inflated operation.

The Run-Flat system consists of sections made with polyester elastomer material, which is a flexible yet very strong and tough polymer. This material exhibits excellent heat resistance, and withstands deterioration by grease, oil, lubricant and other automotive chemicals.

Our ASC Run-Flat Product Features:

Our ASC system offers new Run-Flat product design features, such as the **channel design** along the surface of the Run Flat, **additional Run-Flat section thickness** and **extended ribs** on the side of the Run-Flat system.

These added features improve the Run-Flat system strength, durability and performance.

Our ASC Run-Flat Performance *Features:*

- Significantly reduces tire abrasion.
- High impact performance over extreme temperatures.
- Low heat build-up in flexing.
- Lightweight system that provides high load bearing and exceptional energy absorption, thus withstanding significant vehicle load.
- Economical system and life cycle.
- Long life and durability.

Our ASC Run-Flat System *Benefits:*

- Maintain vehicle control and mobility to help prevent accidents and assure passengers' safety.
- Provide ballistic protection to facilitate in escaping dangerous situations.
- Lightweight system that becomes a fixed component of the tire and wheel assembly and does not slip on the rim.
- The Run-Flat product is reusable, so it can be reinstalled on the wheel with a new tire.

Our ASC Run-Flat System *Functions*:

- Provides vehicle control, mobility and safety in the event of tire deflation due to damage or failure.
- Allows the vehicle to travel for many miles by enabling the driver to maintain steering control and mobility until a proper and safe location is reached; especially when a flat tire is experienced on a heavily trafficked highway at night, or in a desolate area.
- Helps in maintaining vehicle steering control and mobility in the event of tire failure at highway speed or blow out at high speed.

- The ASC run flat system is made of engineering grades polyester elastomer materials, which are flexible yet very strong and tough polymers, that exhibit exceptional heat resistance, withstand attack by grease, oil, lubricant and other automotive chemicals.
- Provides higher impact performance over extreme temperatures.
- The system has unique channels designed along the surface of the run flat to dissipate heat and reduce friction to minimize heat build up in the run flat mode.
- The ASC lighter weight system provides high load bearing and exceptional energy absorption, which withstand significant vehicle load.
- The engineering grade material compounds that are used in the manufacturing of the run flat system will not shatter from ballistic attack.

- The ASC run flat system has long life and durability.
- The ASC run flat system is designed and manufactured to meet customer requirements. Multiple variables are considered in the Run flat technology as speed, load capacity requirements, tire size and road conditions all play a part in the design and performance of our ASC run flat system.
- Our ASC run flat system will provide run flat performance with a flat tire for approximately 30 miles at a speed of 30 mph. The performance of the run flat may vary based on numerous variables including, but not limited to, road condition, weight of the vehicle, ambient temperature, and the speed of the vehicle.



Photos of our ASC Ballistic Run-Flat System

