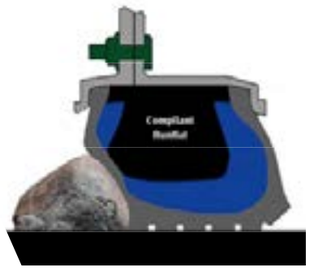
Inside of the tire cut by a non compliant system

The non compliant system cuts into the tire

Impacts absorption

Military and security vehicles are typically exposed to **sizeable impacts** while operating off road or trying to get to safety.

Solution : The CMRF OFFROAD due to its **compliance**



The compliant system does not damage the tire

Compatibility

Military vehicles use a wide range of tires and wheels.

Solution : The Hutchinson CMRF OFFROAD **complies with all main tire and flat rim standards, valve and CTIS configurations and has been utilized in conjunction with all major tire brands**. The Hutchinson CMRF OFFROAD **is able to operate in conjunction** with a wide range of rims and tires.

2 piece bolted together wheel

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Conception & réalisation : escape www.escape-com.fr

HUTCHINSON®

CMRF OFFROAD

Hutchinson, the world leader in mobility systems, has provided runflat system solutions to the military and security markets for over 80 years.

The HUTCHINSON CMRF OFFROAD runflat is relied upon worldwide by soldiers to ensure mobility and safety in all terrain and combat situations.

CMRF offroad Runflat system

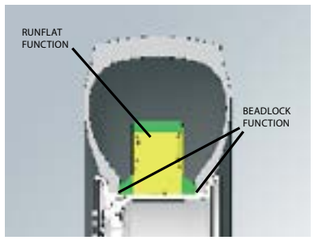
The tires are the primary target to immobilize a wheeled vehicle. It is vital to the crew that a vehicle can escape at high speed or complete its mission with one or all of the tires flat. The CMRF OFFROAD has withstood some of the harshest wartime conditions, and has proven to be priceless to the protection of the crew and its vehicle.

Runflat

Regardless of the conditions, a military or security vehicle must be able to maintain mobility with one or all tires flat in order to complete the mission and return the crew safely to base.

Solution : The CMRF OFFROAD is designed **to achieve the runflat specifications** of the customer. It can be manufactured to meet known standards such as FINABEL or the US Army specifications. Hutchinson can modify the CMRF OFFROAD to conform to specific customized requirements.

CMRF offroad
Runflat operation



Enhanced Mobility

The air inside a tire applies pressure on the tire walls. This pressure clamps the tire beads on the rim seats. At low pressure the clamping force on the tire beads decreases drastically, and is not sufficient **to prevent the tire from slipping on the wheel or unseating.**.

Solution : The **CMRF OFFROAD** includes an internal **Beadlock**, which **ensures the clamping of the tire beads** on the rim at lowered or zero pressure. As a result the vehicle capabilities are enhanced by:

- Increased **traction** and **braking**
- Improved **steering control**
- **Minimal** chance of **rollover** caused by the unseating of the tire
- **Preventing foreign materials** from entering the tire.

Low pressure operation

Ballistic resistance

The runflat system must be able to withstand gunfire, in order to ensure the mobility of the vehicle and the safety of its crew. This life saving feature is achieved by means of a ballistic proof material.

Solution : The thermoset material used in the construction of Hutchinson's CMRF OFFROAD is reinforced with glass fiber which **provides excellent ballistic characteristics.**

No negative structural effect even at -40°C

Innovation

Mountability

Regardless of the conditions, Armies need a Reliable Field Hand Mountable Runflat System.

Solution : The CMRF OFFROAD is a multipiece system, easy, **safe and fast to insert without specific tools.**

Weight saving

Any reduction of runflat weight allows for additional armouring, increased payload, improved fuel mileage, optimized suspension/dynamic behaviour.

Solution : The Hutchinson CMRF OFFROAD can **save up to 20% of the weight** of a comparable VFI or MVFI.