



**HUTCHINSON®**  
DEFENSE & MOBILITY SYSTEMS

# WHEELS

**PROTECTING THE MOST IMPORTANT VEHICLES IN THE WORLD**





Hutchinson is the world's leader in providing high quality and durable wheels to the military, security and commercial specialty markets. Hutchinson's products are highly engineered, field tested and manufactured with world class technologies to meet your vehicle's mission critical requirements. Hutchinson offers a variety of custom one and two-piece wheels.

### ► Markets Served:

- **Defense** - Heavy, Medium and Lightweight Tactical Vehicles and Trailers
- **Security** - Armored Cars and Trucks
- **Commercial Specialty** - Brush Trucks, Cranes, Monorails and more



### ► Wheel Products Offered:

#### Aluminum Wheels

- Up to 50% weight savings and increased durability over steel
- Department of Transportation (DOT) Approved

#### Steel Wheels

- Hutchinson offers a variety of steel wheels for heavy and medium Tactical Vehicles



Hutchinson Aluminum Wheel w/ Integrated CTIS

### ► Engineering Support:

Hutchinson has the engineering and customer support expertise to provide viable, proven solutions for your wheel-end needs.

#### Custom Wheel Design and Development

- Design, prototype and testing services available to provide **turn-key solutions** from **concept to production**



Steel Wheel w/ External CTIS

### ► Production:

Hutchinson's ISO 9001:2005 facility can support prototypes, small batches, or high volume, long term serial-production runs.



### ► Accessories:

Optimize your wheel and wheel assemblies with Hutchinson's industry leading accessories.

- **Hutchinson Runflats** increase the survivability with high quality, Variable Functional Inserts (VFI) and Lightweight composite runflats
- **Beadlocks** allow mobility during low pressure operation
- **Tire Saver Shield™** protects highly stressed tire sidewalls and reduces the tire's thermal signature
- **Wheel Steps and Tactical Wheel Covers** increase vehicle access and protect wheel end components
- **Complete Wheel and Tire Assemblies**



Tactical™ Wheel Cover



Wheel Step and Wheel Cover



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# **WHEEL COVERS and STEPS**

**PROTECTING THE MOST IMPORTANT VEHICLES IN THE WORLD**

## **High Performance Solutions For:**

- ▶ **CTIS, Hub, and Wheel Face Protection**
- ▶ **Thermal and Visual Signature Reduction**
- ▶ **Soldier Step**







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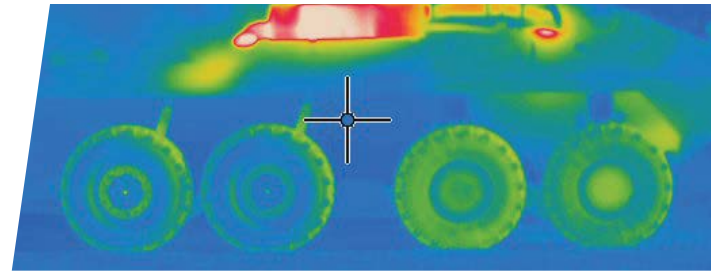
# Hutchinson Wheel Covers and Steps

► High Performance for Armored Wheeled Vehicles



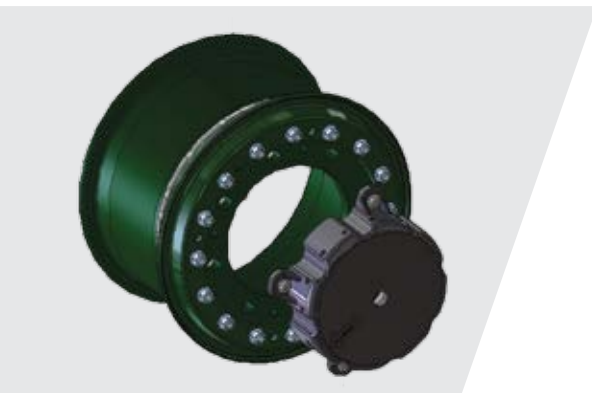
## ► Features:

- Protect Integrated and External CTI Valve and Hoses
- Protect Hub Drive Oil Level Sight Glass
- Reduce Thermal and Visual Signature
- Step Up for Soldier

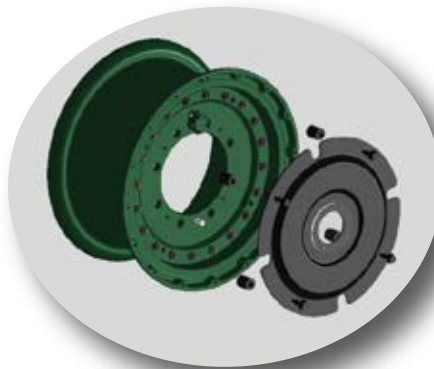


## ► Additional Benefits:

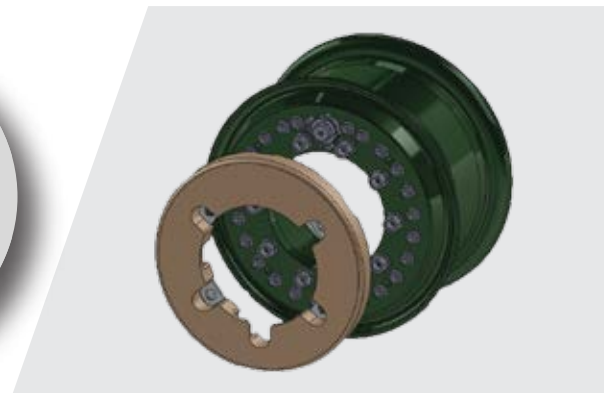
- Integration of Tire Saver Shield on existing wheels
- Impact resistant against obstacles and debris
- Lightweight composite materials resist deformation
- Chemical Agent Resistant Coating (CARC) compatible
- Self-clearing dirt and debris



Hub Cover



Wheel Cover



CTIS Protection

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We make it **possible**



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# VFI RUNFLAT

**PROTECTING THE MOST IMPORTANT VEHICLES IN THE WORLD**







Hutchinson, the world leader in defense and mobility systems, has provided solutions to the military and security markets for over 80 years. The Hutchinson family of Tactical™ runflats are relied upon worldwide to ensure mobility and safety in all terrain and combat situations. The Hutchinson VFI Runflat system has proven to be priceless for the protection of passengers and crew in combat situations.

### ► Hutchinson VFI Runflat

- Meets FINABEL and US military specifications
- Fully compliant 1-piece premium performance runflat
- Fits on 2-piece Tactical Wheel
- Combines Runflat and Beadlock functions
- Operates with a wide range of rims and tires from 12" to 36" or more



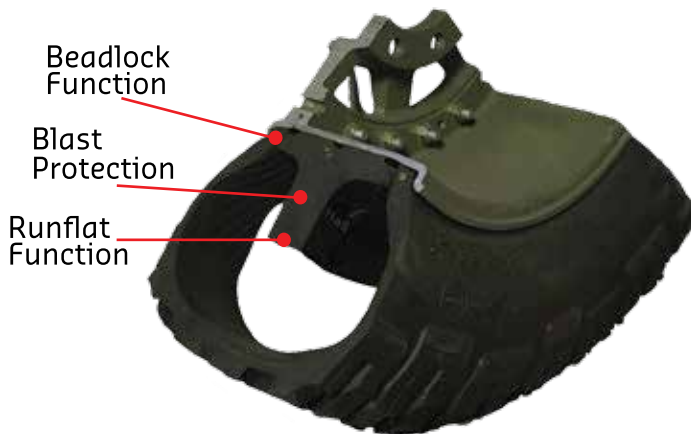
Hutchinson VFI Runflat

### ► Assured Mobility

Tires are the primary target to immobilize a wheeled vehicle.

A vehicle must escape at high speeds or complete its mission with one or all tires flat.

**Solution:** The Hutchinson VFI is a high mobility runflat and beadlock combination that allows wheeled vehicles to travel on completely flat tires allowing soldiers to escape hostile environments and return safely to base.



### ► Ballistic and Impact-Resistant

Hutchinson's VFI can withstand battlefield conditions such as gunfire and mine blasts. The lifesaving features significantly reduce the acceleration from a blast and ensure the mobility of the vehicle and the safety of its crew.

### ► Compatibility

Military vehicles use a wide range of tires and wheels.

**Solution:** The Hutchinson VFI complies with all tire and rim standards, is compatible with all valve and CTIS configurations and has been utilized in conjunction with all major tire brands.



### ► Additional Mobility Solutions

- Composite Lightweight Runflat
- Lightweight Gen 2 VFI can save up to 10% weight compared to the standard VFI
- Tire Saver Shield™ protects highly stressed tire sidewalls
- 2-Piece Aluminum Wheels
- Complete Wheel and Tire Assemblies



The beadlock function of VFI Runflat allows mobility during low pressure operation.

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# **SAFETANK**

## **Protected Fuel Tanks**

**PROTECTING THE MOST IMPORTANT VEHICLES IN THE WORLD**

**Seal the Tank, Complete the Mission...**

- ▶ **Ballistic Protection**
- ▶ **Lowest Weight**
- ▶ **Highest Performance**



# SAFETANK

## Protected Fuel Tanks



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### ► Fuel leakage can stop an armored vehicle

- Must assure mission can be completed
- Must assure the safety of the crew
- Fuel tanks must be protected against ballistic and blast threats



### ► Seal the Tank, Complete the Mission...

#### • Ballistic Protection

**Solution:** The SAFETANK is a specially developed self-sealing outer coating. Entry and exit holes seal instantly, retaining the fuel inside the tank and minimizing the potential ignition of spilled fuel.



### ► Proven Performance Sealing Against:

- 7.62, .50 cal, 20 mm, and higher
- Shrapnel from IEDs, mines, and explosions



**Protected Fuel Tank**



Entrance



Exit

**Unprotected Fuel Tank**



Entrance



Exit

### ► Weight Savings

**Solution:** With a Hutchinson SAFETANK there is no need for armored plates and the fuel tank can be made of lighter weight sheet metal, plastic, or aluminum, resulting in **a very significant weight savings.**

### ► Customer requirements

**Solution:** Hutchinson engineered custom designs

- Factory Installed or Field Kit/Customer Installable
- New Vehicle Complete Fuel Tanks
- Protection of Existing Fuel Tanks
- Tanker Protection

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