

Are you open to improvements?

Over many decades, SOP has been: *do not use the backpack waist-belt*, tie it back so you can ditch your pack in a firefight. The result is career ending back injuries. A solution is required because the cost is huge in terms of moral, reduced man power, long term injury care and military readiness.



Human Factors Engineering

AttackPAK re-envisioned soldier protection, which is essential to ensure our military will be successful in critical engagements.

Change for a reason:

1. Backpacks with attached waist-belts don't work with 1st line gun belts and body armor. The backpack belt is frequently not used and tied out of the way.
2. Standoff moves your center of gravity, which makes balance and coordination more difficult. In the struggle for balance, missteps cause injuries that require evacuation.

An avalanche of other problems:

3. Excess weight on the shoulders and spine crushes spinal discs and causes irreparable damage.
4. Rucksack palsy cuts off circulation to the hands resulting in numb hands, nerve damage and difficulty shooting.
5. The non-functioning backpack suspension becomes parasitic weight, like carrying rocks to a gun fight.
6. Injuries, fatigue and crippled performance equal force degradation, compromising mission readiness and battlefield success.
7. The life cycle cost of musculoskeletal injury care, post middle east conflict, is estimated to exceed \$500 million annually, not to mention our brothers living with a lifetime of pain post service.

Simple solution:

The ideal solution is to make your 1st line gun belt support the weight of torso borne equipment. The ergonomics are improved and the soldier can achieve peak performance.

"What is clear is that the lack of integration can degrade human performance that, in turn, ultimately results in endangerment of our nations' war fighters and mission degradation."

Natick Soldier Center, Future Force Warrior.



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Bio-Mechanical dvantage

ILCS ExoSpine™

Outstanding User Customization

The AttackPAK is designed as an orthotic ExoSpine™ and lumbar support waist belt to redistribute the normal force of the soldiers' torso load off the shoulders and onto the stronger hips and legs. The belt and frame are independent allowing quick ditch, easy don, and unrestricted range of motion. The frame and belt are engineered in a mating wedge shape to stabilize the connection under load.

This visionary *Integrated Load Carriage System (ILCS)* design *does everything that existing load bearing designs will do*, but the *other designs will not match the AttackPAK's capability* and performance enhancements.

The ststem is built with 3 components: gun belt, ExoSpine™, and modular packs. The Soldier, wearing a 1st line gun belt, can simply put on the pack and the ExoSpine™ drops into a gravity holster on the 6 o'clock of the gun belt. The shoulder straps are attached to the pack so that user can choose to wear the pack without an ExoSpine™.

Independent Foundation:

- Orthotic lumbar belt
- ExoSpine™ load transfer

Advantages:

- Lumbar protection
- Mission adaptable
- Optimum weight distribution
- Quick ditch, easy don without assistance
- Unrestricted range of motion and agility



Over Armor



User Adaptable

Inside Armor



Without Armor



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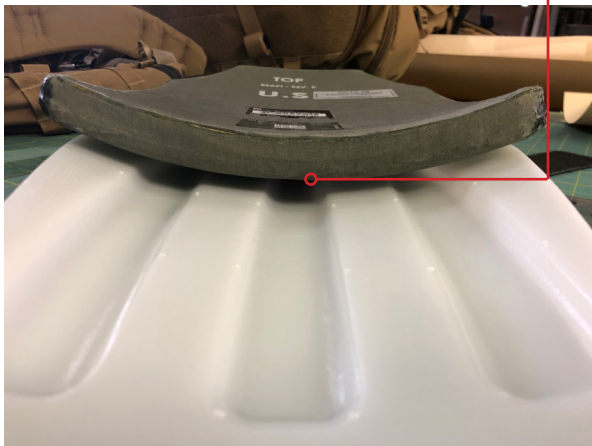
Improved Balance and Armor Lock

Center of Gravity

When you move weight away from your center of gravity balance and coordination are more difficult and have a higher metabolic cost. Struggling for balance causes fatigue and **preventable injuries**.



The ExoSpine™ is contoured to ***grip the back armor plate***, without additional parts, to bring the weight close to your center of gravity.



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Quick Ditch & Easy Don



Ditch your pack in under 3 seconds.
Keep your gun belt and body armor.



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Mission Adaptable EOD Kit

Customize your kit for every mission with scalable, modular, multifunction components.

The PLT5 is strapped to an MPC. Bison sustainment bags and Predator pack can be attached over the PLT5. Gun belt and gravity pocket transfer the weight to your stronger hips and legs.

System Parts:

1. Pants Belt & Shooter Belt
2. Belt padding medium or lite
3. Gravity pocket integration with optional IFAK
4. ExoSpine™ Frame
5. MPC Modular load panel
6. Bison Sustainment bags
7. Predator assault pack



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Distance Shooter Belt

The Distance Shooter belt is the *foundation of the AttackPAK ILCS*. The core purpose is to redistribute weight off your shoulders and onto your stronger hips and legs, and eliminate redundant weight of a pack belt and gun belt. The *advantage is enormous*. AttackPAKs mitigate long term health problems as well as combat daily fatigue. Hand built to the highest quality standards.



Shooter Belt

Safety rated D-Ring
Cobra buckle

Hook Velcro interior to mate
with pants belt



Accepts MOLLE and 1.75" belt
mounted accessories

Gravity Pocket

Accepts the ExoSpine to allow
correct weight distribution



Reverse compatible with
many third party duty belts

Belt Pad

Suspender/harness tabs

Adds comfort to any
hook lined gun belt



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MPC

Multi-Purpose Carrier



Rifle Pack

MPC, Bison sustainment bags, and modular belt system

The MPC is an **astoundingly lightweight**, universal load carriage system. It will haul anything a single man can carry including: oversized pelican cases, breaching tools, irregularly shaped communications equipment, mortars, rockets, ammo cans, or even a Talon robot.

Most other pack systems have you strap these dense, bulky items to the sides or exterior. This creates issues with balance which increases fatigue and likelihood of injury. Being able to carry heavy loads close to your center of gravity creates a more capable and agile soldier.

Due to the adaptable nature of the MPC it makes a great platform to “upgrade” any bag on the market an AttackPAK.



Modular buckles allow infinite strapping configurations

Metal rings reduce abrasion and provide greater strength

Multiple layers of stitching redundancy

Stowable rifle carrier/cargo shelf

Compatible with many third party battle belts to reduce acquisition cost



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Reconfigures quickly

Alternative Configurations



Shown with MPC, Predator assault pack, Bison sustainment pouches and modular belt system

YKK Aquaguard zipper

External pocket for hydro or cord reels (hidden)

Off the shelf sustainment pouches sized at 1000ci per bag (2000ci total)

Removable Load-lifter



Movable compression straps

Gun belt, Gravity Pocket, ExoSpine™ ILCS



Rifle carrier/
cargo shelf



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Reduced Life Cycle Cost

System Approach One Frame and Belt, Multiple Packs

AttackPAKs are a proven innovation that helps our warriors on the battlefield. The easy don/quick ditch design was created to eliminate the compatibility problems from legacy packs that did not integrate with gun belts and body armor. Built as a system, redundant parasitic weight is eliminated, and the user can customize the configuration quickly to adapt to changing mission needs. Each pack is fitted to the end user for improved ergonomics and correct weight distribution. Proven in the laboratory to reduce fatigue and energy consumption, but also proven on the battlefield to be durable and reliable long term.

AttackPAK's simple robust design is built to high standards, specifically for military.

1. ExoSpine™
2. MPC (multi-purpose carrier)
3. Bison Kit 2000ci+
4. Predator 1600ci
5. 249 Gunner pack 1700ci
6. Pulse Medical pack 1800ci
7. Fast and light Shooter kit 2200ci
8. Victor Mic field Medical pack 2700ci
9. Defender pack 3500ci



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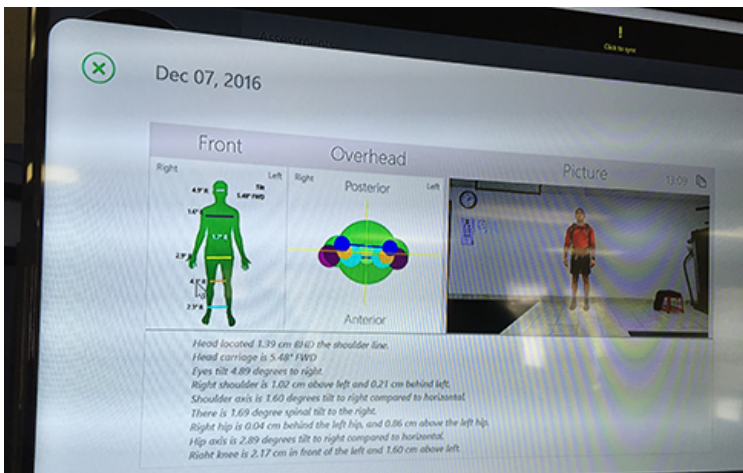
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Laboratory Tested Ergonomics, Bio-mechanics

The AttackPAK ILCS was developed for Mountain Rescue in 1998 and refined for military in 2011, following an avalanche of soldier injuries in the Iraq and Afghanistan conflicts. Soldier load was looked at from the ground up which led to the integration of 1st, 2nd and 3rd line kit into one system, rather than the “Christmas Tree” effect.

The AttackPAK ILCS provides ergonomic fit for every size, reduced weight by removing redundancy, and better protection from avoidable injuries. The modular parts adapt to changing mission sets. Quick to configure, easy to learn, simple robust design creates reliability and ease of use.

Heavy loads are efficiently distributed to the stronger hips and legs, and off the shoulder and spine to reduce energy consumption and improve endurance. Since the waist belt and frame are independent, there is no restriction in mobility while moving through the battlefield. The AttackPAK will do everything that other packs do, but the other packs don't do what the AttackPAK does.



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