



GRANTRAP™ BULLET TRAP

InVeris Training Solutions, makers of FATS® and Caswell technologies, has been the global leader in law enforcement training and commercial gun range products for over 90 years. Fielding over 15,000 ranges around the world, InVeris Training Solutions provides turnkey shooting range design, equipment and installation, and the logistic support necessary for today's fast-paced training environments.

InVeris Training Solutions can help determine the GranTrap™ model to best meet your range needs. GranTrap model variations include:

LE7500 GranTrap and LE7512 GranTrap

- Captures up to 3600 ft-lbs of energy, excluding incendiary/tracer type of rounds.
- Designed with rubber-faced upper vertical replenishment bins to maintain consistent GranTex™ media depths.
- Incorporates gum rubber covers atop the GranTex media for cleanliness and containment.
- 12' ft tall version available for longer distance capabilities.

LE7500-OT GranTrap (Pictured in this brochure)

- 3/8" AR500 armor impact plate provides additional downrange coverage.
- Extra-large replenishment bins for greater availability of GranTex media.
- Configured with exposed and uncovered GranTex media.

LE7500-OTR GranTrap

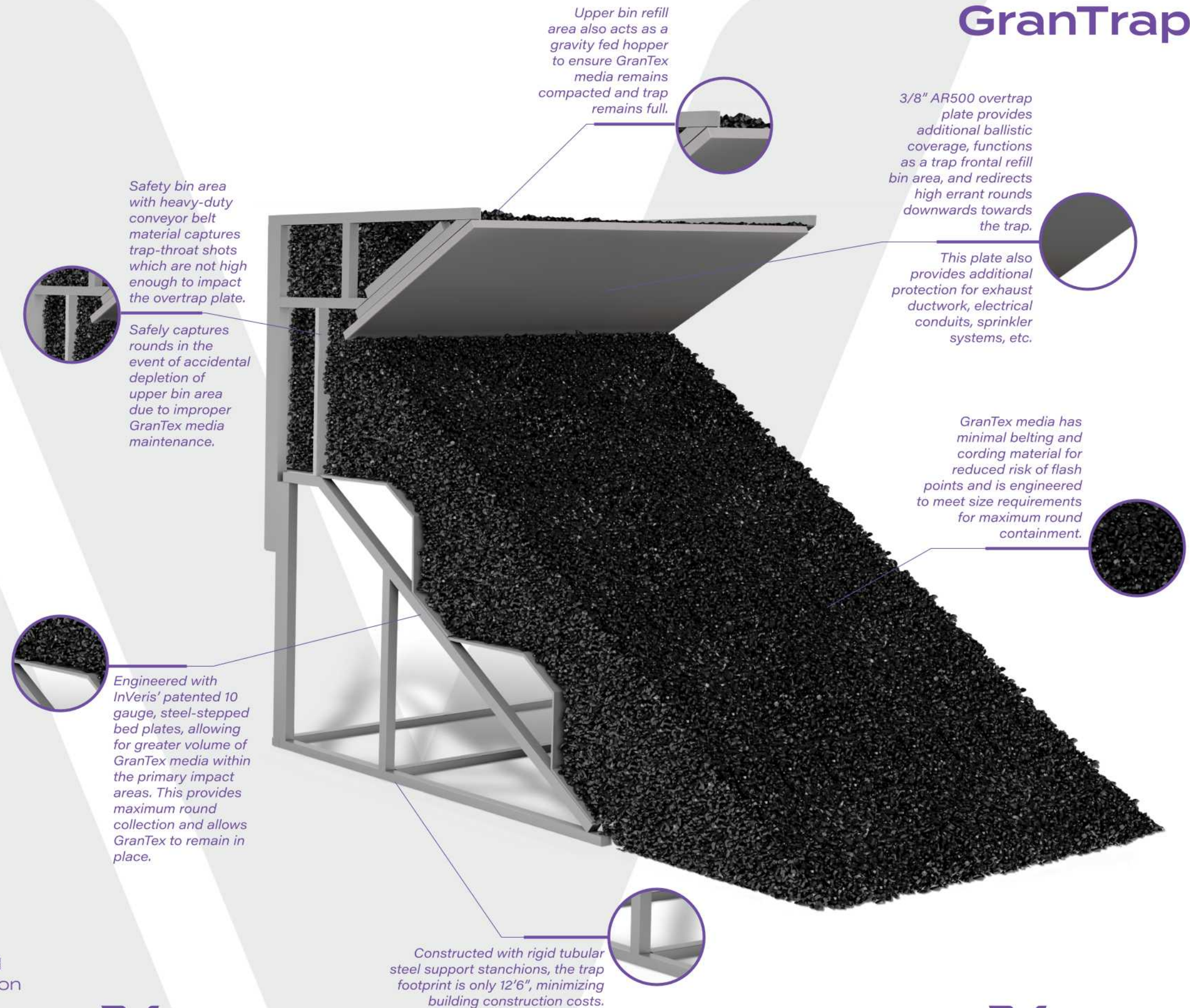
- Rubber-faced 3/8" AR500 plate provides additional downrange coverage and safety for tactical applications.
- Extra-large replenishment bins for greater availability of GranTex media.
- Incorporates self-healing gum rubber covers atop the GranTex media to ensure trap cleanliness.

LE7500-50 Cal GranTrap and LE7512-50 Cal GranTrap

- Captures up to 8100 ft-lbs of energy, excluding incendiary/tracer type rounds.
- Designed to stop limited single fire rounds with up to 13,000 ft-lbs of energy such as 50 BMG with a limited and controlled rate of dispersion and under specific conditions with proper monitoring.
- Installed to only a 14' footprint depth for more flexibility with range configuration compared to the 25'-30' footprint depths required for most high energy steel rifle traps.
- 12' ft tall version available for longer distance capabilities.

All GranTraps are available for outdoor applications (OD) and engineered to withstand harsh environmental conditions by using non-corrosive materials. Outdoor versions utilize hot-dipped galvanized steel components and custom designed structural frames which shed water and condensation for long term durability.

GranTrap



GranTrap Specifications

- Standard models capable of capturing handgun, shotgun (shot and slug included), and rifle (fully automatic and armor piercing included), jacketed, semi-jacketed and non-jacketed rounds. Includes rounds up to .308 caliber/7.62mm, including M16/223 caliber/5.56mm rounds with velocities of 900-3600 ft/sec (274-1097 m/sec) and up to 3600 ft-lbs (4880 N-m) of energy, excluding incendiary/tracer type rounds.
- Patented 10 gauge steel-stepped bed plate construction with a gravity-feed design that allows rubber to remain in place versus migrating downward towards the toe of the trap. This design ensures proper GranTex™ volumes within the primary impact areas for maximum round collection.
- GranTex media consists of chopped rubber which is predominately free of any cording, threads, fibers, or steel belting pieces.
- The GranTrap is a self-supporting trap assembled entirely by mechanical fasteners. The overtrap replenishment bin is part of the GranTrap's frame support assembly and does not require overhead support via chains/cables, bridging or rear wall attachment. No on-the-job cutting or welding is required for assembly.
- Constructed with rigid tubular steel support stanchions. All part fit thru 36" wide door openings.
- Incorporates supplemental safety bins which provide additional ballistic protection.
- 12'6" footprint minimizes building construction cost since no ancillary space is needed behind trap.
- Designed to capture up to 75,000 rounds per shooting point, with the exception of LE7500-50Cal GranTrap.
- Available in standard (9') and custom (8' and 12') heights to meet all range requirements..

CLEANER Minimizes broken lead particles released at the trap area by capturing rounds intact, averting lead and jacket back splatter. Exhaust air filters last several times longer versus steel traps.

SAFER Close range shots and acute angled shots make the GranTrap ideal for tactical training in dynamic ranges.

QUIETER Due to the porous nature of how the GranTex media gathers and the almost non-existent sound of a round entering the media (versus steel plates), the GranTrap ensures a much quieter firing range.

Outdoor Model (OD) Specifications

- All metal support frames are hot-dipped galvanized with all assembly hardware either galvanized or stainless steel.
- Metal support frames incorporate weep/drainage holes to release rain water and condensation.
- The 3/8" AR500 upper replenishment bin plates are factory cleaned, coated with an inorganic zinc primer, and painted with a finish of marine multipurpose epoxy paint.
- The traps sidewall outer sections are constructed of 10 gauge galvanized metal for granulated rubber retainage.

LE7500-50Cal

- Designed as a deeper bullet trap capable of handling muzzle velocities between 900 and 3,600 feet per second (274 to 1097 meters per second), or energy levels to 8,100 foot-pounds and occasional rounds up to 13,000 foot-pounds.
- The Reclining GranTrap LE7500-50Cal is not intended for use by .50cal weapons beyond three-round bursts.

When using high powered rounds, increase monitoring of the GranTex depth levels to ensure that proper material volumes are maintained. Failure to do so could result in damage to the GranTrap and/or result in injury or death.



Rounds captured by the GranTrap are mostly intact, allowing for easy removal and recycling.



LE7512-OD GranTrap



Safe-N-Clear™ Handgun and Rifle Clearing Traps

InVeris Training Solutions' Safe-N-Clear™ trap provides a safe and secure method for checking a firearm when loading or unloading.

The chamber of the Safe-N-Clear trap is filled with a thick bed of GranTex™, a granulated rubber material that safely deenergizes rounds. A reinforced rubber screen secured across the trap opening provides a slot for muzzle insertion and serves as a protective barrier against backsplatter. In the event of a discharge, the round is captured virtually intact in the GranTex material and is securely contained inside the Safe-N-Clear.

The Safe-N-Clear is a floor model clearing trap, so it does not require a stand or special mounting hardware to keep it stationary or secure. This allows more flexibility in placing the clearing trap in the most desirable location as specified by the customer.

It is an ideal safety measure for police stations, correctional facilities, firing ranges, or any location where firearms are handled.

InVeris offers two Safe-N-Clear models, one for handguns and the other for rifles with the following specifications:

Handgun Model LE1213

- Accommodates 2000 fps and 2200 ft/lbs muzzle energy
- Dimensions: 35" H x 13" W x 18" D
- Weighs 208 lbs.

Rifle Model LE1216

- Accommodates 3600 fps and 3600 ft/lbs muzzle energy
- Dimensions: 31" H x 13.5" W x 23" D
- Weighs 314 lbs.





SafeZone™ Shooting Stalls

InVeris Training Solutions has been the industry leader in shooting range innovation, design, installation and equipment for over 90 years.

SafeZone™ fully interchangeable shooting stalls offer the customization to create clear stalls, solid stalls, or a mixture of both. Completely reconfigurable and backward compatible, the new shooting stalls can be set up in the same location as your existing stalls.

Standard Stalls

The SafeZone stalls are pistol and/or rifle rated and are available with a black frame, solid black dividing panel, and a brass casing shield to prevent spent casings from going into adjacent lanes. A swing down shooter's shelf features a resilient surface, raised edges to prevent accidental drop off, and a recessed tray area containing all weapons, ammunition and other range equipment within the confines of the stall. The acoustical blast shield extends to further shelter adjacent shooters, while a site light illuminates the stall interior.

Stall Options

The SafeZone shooting stalls offer a high level of flexibility between lanes. Solid panels come in an array of optional colors (black, white, red or gray) and frames (black and grey) and may be customized with your logo for further personalization. With solid panels, the user is afforded a

contained lane experience with greater privacy and less exposure and distraction from external situations.

Using the clear panels, shooters experience enhanced visibility between lanes, enabling a more comprehensive environmental view. The clear glass panels are rifle and pistol rated, and feature glass edge lighting to illuminate the optional company logo or shooter's shelf, available with multicolor LED and a control on the upper rear edge to avoid user adjustment. Deeper than previous stalls (measuring 48" deep), SafeZone stalls can include wing and full gate barricades for enhanced tactical training.

Users may want to include an Aiphone® audio or visual communication system for full stall contact and interaction with the master control. A red/blue light option allows realistic law enforcement training, while the stall's side shelf with accessory hooks provides additional storage for bulky or cumbersome items.

Create your own unique statement with the InVeris SafeZone shooting stall. Personalizing your range, while keeping your shooters safe, has never been so attractive.

SafeZone Standard Features:

- Black pistol or rifle frame
- Black solid panels have UL752 standard level 3 pistol or level 8 rifle comparable design**
- Site light
- Brass shield
- Shooter's shelf
- Rifle rated stall with blast shield

SafeZone Optional Features:

- Aiphone® audio and visual communication systems
- Side shelf with accessory hooks
- Multi-color, glass edge lighting
- Red/blue light for law enforcement training
- Your logo or organization name on solid or glass panels
- Wing or full gate barricade for tactical training
- Stall frame offered in black or gray
- Solid panels in a variety of colors, including red, black, gray, white
- **Glass panels – rifle rated**
 - EN1063 standard BR6(S) - rifle
 - UL752 standard level 8 - rifle
- **Glass panels – pistol rated**
 - EN1063 standard BR4(S) - pistol
 - UL752 level 3 standard - pistol

Stall Panel Ballistic Ratings

Panel Composition	General Rating	Maximum Velocity (typ.)	Maximum Energy (typ.)	Compliance Rating
Transparent	Pistol	1485 fps	1175 ft-lbs	UL752 Level 3
	Rifle*	3025 fps	3048 ft-lbs	UL752 Level 8
	Pistol	1476 fps	1175 ft-lbs	EN1063 BR4(S)
	Rifle*	2756 fps	3048 ft-lbs	EN1063 BR6(S)
Solid	Pistol	1485 fps	1175 ft-lbs	UL752 Level 3**
	Rifle*	3025 fps	3048 ft-lbs	UL752 Level 8**

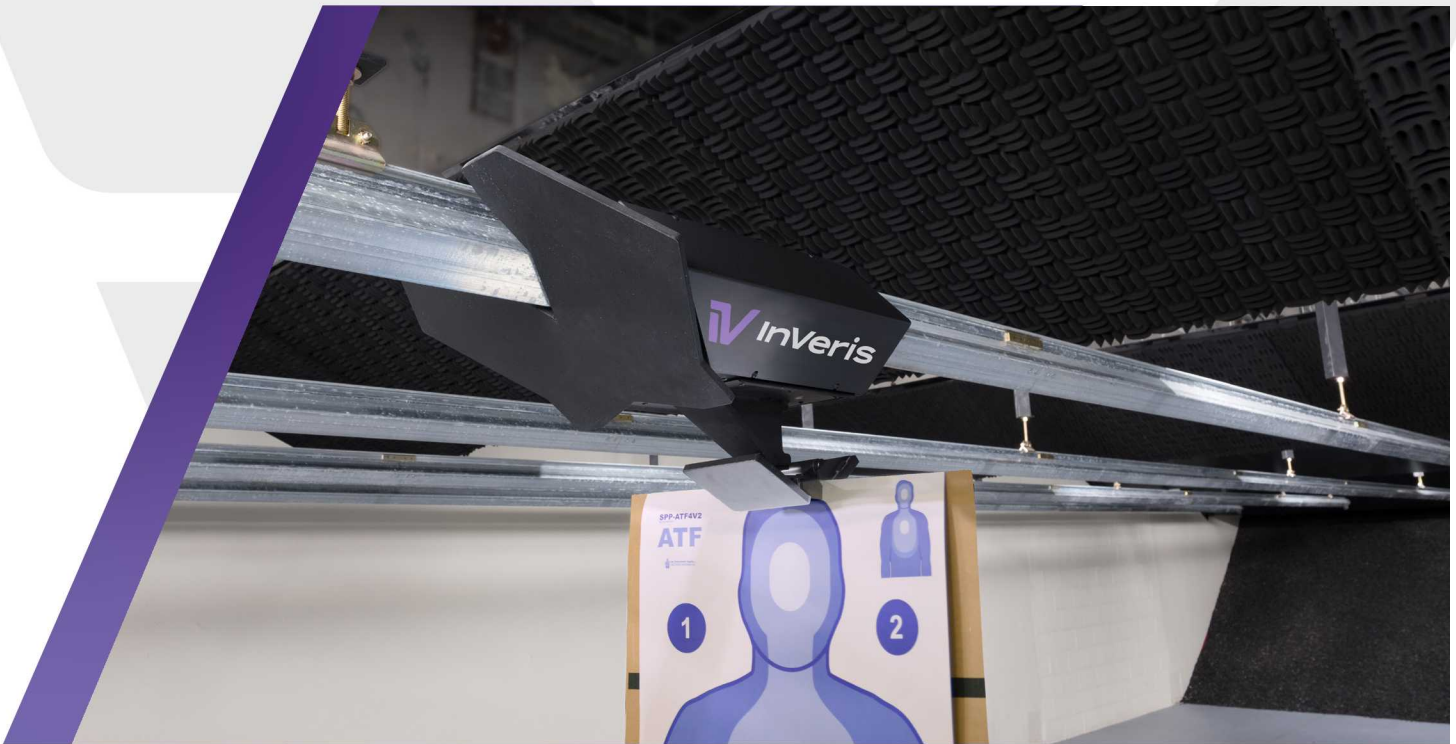
*Not rated for armor piercing or atypical ammunition.

** Design of solid panels has been independently tested to equivalent standards. Components are purchased consistent with design, but not certified.

Typical Ammunition Specifications

Typical Pistol Ammunition			Typical Rifle Ammunition		
Type	Ammunition	Max Velocity	Type	Ammunition	Max Velocity
.22LR	40gr HP	1060 fps	.22LR	40gr HP	1260 fps
9mm Luger	124gr FMJ	1120 fps	5.56x45mm NATO	55gr FMJ	3300 fps
.357 Mag	158gr JSP	1240 fps	7.62x51mm NATO	150gr FMJ	2800 fps
.40 S&W	180gr TMJ	990 fps	.308 Win	150gr SPTZ	2900 fps
.45 ACP	230gr TMJ	850 fps	.30-06	180gr SPTZ	2900 fps
.44 Mag	240gr SWC	1400 fps	300 Win Mag	190gr BTHP	2900 fps

Ammunition identified above represent typical round type performance (for example only).



XWT Wireless Target Carrier

InVeris Training Solutions offers the Next Generation Wireless Target System (XWT) to meet the need for efficient, reliable and user-friendly training systems.

InVeris' XWT provides a host of advantages over other carriers on the market:

- Easily programmable through a wireless controller, allowing uncomplicated intuitive screen operation
 - Targets are locally controlled using the Lane Controller (LC) or from a control room area using the Primary Master Control Computer
 - Programmable maneuvers and scenarios for skill set development and effective training
 - Speed control options provide "Advance / Retreat" training exercises
 - Basic and advanced user interfaces support the operator's preferred courses of fire, whether basic qualifications or more advanced reactive and decision making shooting exercises
 - Moves along a rail system, powered by an internal direct drive, dual motor system, with anti-static wheels for quieter, smoother operation
 - Unique closed track design provides smooth target transportation
 - Does not collect lead fragments, casings and other debris
 - No drive cables or pulleys to break or replace
 - No bulky and noisy drive motors above the shooters head
 - No track mounted power feed rails or wires to be impacted and damaged
 - Less susceptible to debris in tracks, and reduced need to clean or interfere with target operation
- Includes 3/8" AR500 Front Armor Plate Prow
 - Compliant with CE/EN directives for EMI/EMC

The XWT was the industry's first wireless, 360° turning target retrieval system, and advancements to the carrier continue. The XWT uses a Lithium Ion battery with a positive locking battery connection and ergonomic battery placement/replacement, providing a 50% increase in battery capacity. The new charging/docking system improves contact design for faster and more reliable charging. That means more time using the XWT on your range, and less time charging it.

Programmable distraction lighting now integrates red, blue and white LED target lighting with four times the brightness of previous models. The chassis features a new side cover design for wheel overhead protection and the prevention of brass drivetrain damage. The anti-static wheels eliminate the need for grounding hardware and reduces ESD challenges.

The XWT is the next level of innovative range products available from InVeris Training Solutions. The quiet, smooth, low maintenance wireless carrier is easily operated and programmable, essential for successful training and usability.