



RANGE MAINTENANCE SERVICES

From wireless rotating target carriers to range control systems to bullet traps, InVeris provides a full suite of services to:

- Maximize the lifetime and value of your investment
- Minimize unplanned downtime
- Help to ensure the safety and health of staff and shooters while meeting EPA & OSHA regulations

INVERIS RANGE SERVICES

COMPREHENSIVELY COVER:

- System Maintenance including lane / track cleaning, adjustments, lubrication and repair.
- Range inspections including ballistic protection inspection, repair and replacement.
- Down Range Services including bullet trap lead removal / remediation / recycling (Lead recovery credits can pay for your service call depending on range size).
- Hardware and System Software Upgrades providing new range / target capabilities to enhance shooters' skills and keep them coming back more often.

SCHEDULING:

Services can be scheduled as a one-time, on-demand visit or as regularly scheduled intervals which reduce your costs and ensure your range is running optimally to minimize unplanned downtime. Special discounts are offered when bundling 2 or more of the above services together.

WARRANTY:

Regardless of the service, a trained InVeris specialist / partner will ensure your system and range are in tip-top shape. All work performed is covered by a 90-day warranty. The warranty length can be extended with 4 scheduled services per year.

ADDITIONAL PROFESSIONAL AND ADVANCED SERVICES

- Comprehensive Range Design – A complete set of Range Design and Construction Services.
- Instructor / Operator Training & Refresher Courses Delivered by InVeris training experts: courses can be one to one or group-oriented to ensure when your trainers and staff change, everyone is fully trained on your system's capabilities for zero-loss in capability or revenue opportunity.
- EPA & OSHA Compliance Services - Develop and document range best practices and procedures.

TECHNICAL SUPPORT:

The InVeris factory team understands what it takes to make your operation best in class! Our online & phone customer support team is there for you.

SYSTEM MAINTENANCE SERVICES DETAIL

TARGETS:

- Test all valves and pistons. Adjust target speed. Replace valves and pistons as needed.
- Grease all actuator bushings. Replace as needed.
- Inspect and secure terminal screws and other electrical connections.
- Inspect and secure air connections. Replace as needed.

- Inspect and test functionality of indoor range target retrievers including keypads and computer.
- Verify all cable tensions and adjust as necessary.
- Cycle and adjust tension on running targets.
- Provide general inspection of all targets to diagnose any potential problems.
- Clean Top of Target Track.
- Check Target Holders.
- Check Carriers.
- Battery, Battery Contacts.
- Wiring Harness / Connector Checks.
- PCBs and Encoders.
- Tighten nuts and bolts.

ELECTRICAL SYSTEMS

- Test voltage levels at the power supply and target locations.
- Test functionality of each interface component.
- Clean and secure all enclosures.

TOWER / CONTROL ROOM

- Test computer, monitor, and printer.
- Update all software to the latest versions.
- Run all standard software programs and scenarios to certify as complete.

COMPRESSOR & AIR LINES

- Check oil level and air filter. Replace as needed.
- Drain water condensation buildup.
- Check functionality: air dryer system.
- Test entire system for leaks. Repair as needed.
- Verify correct pressure settings and adjust as necessary.

RANGE CLEANING DETAILS

- General Range Cleaning.
- Support regulatory paperwork to streamline the process.
- HEPA vacuum ventilation vents, shooting range floor and walls (excl bullet traps), ceiling and wall baffles, target retriever tracks, soft surfaces of shooting stall.
- Maintain and clean your HEPA vacuum change filter as needed.
- Wet wipe shooting stall hard surfaces.
- Clean shooting stall glass.
- Remove, replace, and properly dispose of air filters.
- Empty trash.
- Change burned out lights.
- Check and fill hopper.
- Vacuum hallway just outside of range and weapons cleaning area.
- Clean fan shroud in weapons cleaning area.
- Change sticky mats.
- Dust Collection Unit Cleaning.
- Check general functionality of the Dust Collection Unit.
- Check and service DCU air compressor.
- Check Photohelic set points and adjust static pressure controls as necessary.
- Verify and test purge cycle functionality.
- Check Dust Collection Unit filters. Replace as needed.
- Drain condensation from manifold if required.

DOWN RANGE SERVICE DETAILS

BULLET TRAPS

- Empty all lead collection canister.
- Mine lead from granule rubber trap.
- Inspect all plates, joint strips, deflectors, and deceleration chambers. Replace as needed.
- Tighten or replace all loose joints and unions.
- Additional lead removal and disposal service also available.

NOTE: Replacement of bullet trap components may require additional work which will be subject to additional charges beyond scheduled maintenance service.

STEEL BULLET TRAPS

- Gather and dispose of bullet fragments, bullet jacket fragments, and other debris.
- Replace nuts and bolts.
- HEPA vacuum exposed surfaces and the area behind the trap.
- Remove lead ingots and other accumulation. (subject to additional charges).

RUBBER BULLET TRAPS.

- Walk Trap to level.
- Rake Trap / keep rubber behind red line.
- Remove rubber from the trap.
- Separate and dispose of lead and bullet jackets.
- Place rubber back on the trap.
- Apply fire retardant.

SCREW CONVEYOR SYSTEM

- Check general functionality of the Screw Conveyor System.
- Check hanger bearings for wear and damage. Replace as needed.
- Check discharge system and collection barrel.
- Check circuit breakers, thermal overloads, and verify start up procedures.
- Check gear boxes and hanger bearings for lubrication.

ADDITIONAL PROFESSIONAL & ADVANCED SERVICES

EPA & OSHA COMPLIANCE SERVICES

Develop and document range best practices and procedures

- Safe lead handling and hygiene EPA & OSHA rules and regulations.
- Decontamination and clean-up.
- Proper disposal of lead and lead contaminated materials.
- Required equipment, materials, and supplies.
- Employee blood lead level testing and monitoring.

RANGE DECOMMISSIONING & CLOSURE

- Closure designs & estimates.
- Removal or decommissioning of HVAC, targeting, or bullet traps.
- Complete shooting range lead abatement.
- Waste treatment / management.
- Demolition of facility.

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